Multi V Outdoor Unit

Heat Pump(R32)

MFL67474079

LG TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK

Region : EU

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LG Life's Good

Multi V Outdoor Unit
General Information

Model Line Up

1. Model Line Up

Product	Phase	Chassis	Capacity Index	Model Name
			HP	
Multi V S	1	U36A	3	ZRUN030GSS0
	3			ZRUN030LSS0
	1		4	ZRUN040GSS0
	3			ZRUN040LSS0
	1		5	ZRUN050GSS0
	3			ZRUN050LSS0
	1		6	ZRUN060GSS0
	3			ZRUN060LSS0
		U60A	8	ZRUN080LSS0
		U80A	10	ZRUN100LSS0
			12	ZRUN120LSS0

* The capacity index may differ from actual capacity values.

2. Indoor Unit and Outdoor Unit Capacity Index

2.1 Indoor Unit Selection

See the indoor unit capacity tables for given Indoor and Outdoor temperature Select the unit whose capacity is the nearest to or greater than given load.

Note

Individual Indoor Unit capacity is subject to change by combination.
Actual capacity has to be calculated according to the combination by using Outdoor unit capacity table.

2.2 Outdoor Unit Selection

Allowable combinations are indicated below. In general, outdoor unit can be selected depending on the location of the unit, zoning and usage of the rooms.

The indoor and outdoor unit combination is determined by comparing the sum of indoor unit capacity index with each Outdoor Unit. It is recommended to be the nearest to 100% combination ratio or to be smaller than that. Refer the table below. To manage cooling/heating load properly, it's better to be selected the bigger capacity outdoor unit rather than the nearest, if the installation space is large enough.

■ Combination Ratio

Line up	Outdoor Unit Type	Number of Outdoor Units	Total Combination ratio
Multi V 5	Heat Pump & Heat recovery	Single Unit	50 ~ 130 % (200%)
		Two Units	50 ~ 130 % (160%)
		Three or Four Units	50 ~ 130 %
Multi V S	R410A Heat Pump R410A Heat Recovery R32 Heat Pump	Single Unit	50 ~ 130 % (160%)
Multi V Water IV	Heat Pump Heat Recovery	Single Unit	50 ~ 130 % (200%)
		Two Units	50 ~ 130 % (160%)
		Three or Four Units	50 ~ 130 %
Multi V M	Multi V M	Single Unit	50 ~ 130 %

Note

1. The combination ratio is defined as the sum of indoor unit nominal capacity (kW) divided by the outdoor rated cooling capacity (kW).
2. LG guarantees the operation only within a maximum combination ratio of 130%.
3. If the client wants to go beyond 130%, please contact the local subsidiary and discuss the requirements. Please be aware that going over 130% may result in poor performance. If the total operating ratio of indoor unit exceeds 130%, the indoor unit is operated in low fan speed mode.
4. In case of 1:1 installation (i.e. one outdoor unit with one indoor unit), combination ratio cannot be exceed 105%.
5. For systems where special indoor units are involved, please refer to "Table. Combination Ratio for System with Special Indoor Units" in indoor unit PDB

■ INDOOR UNIT CAPACITY INDEX

Unit Capacity (Btu/h)	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	60k	76k	96k
Capacity Index	1.6	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	17.5	22.4	28.0

* Capacity Index is same as the capacity(kW).

Note

Detailed procedures used for model selection in LATS (LG Air Conditioner Technical Solution) software can be found on the B2B Partner Portal.
(*https://partner.lge.com* ; Select you Region ; Home > Doc. Library > Utility Download > Model Selection Tool > LATS HVAC > "Selection procedure of Cooling,Heating units")

Product Data

Multi V S

Multi V S

1. Specifications

1.1 Product

ZRUN030GSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	220-230-240, 1, 50
	Limit Range of Voltage(Case 1)	V	198~264
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	13.21 - 11.37 - 9.91
	Running Current by Voltage (Heating,Rated)	A	9.82 - 8.45 - 7.36
Cooling Capacity	Rated	kW	9.0
		Btu/h	30,700
Heating Capacity	Rated	kW	9.0
		Btu/h	30,700
	Max	kW	10.0
		Btu/h	34,100
Power Input(Cooling)	Rated	kW	2.81
Power Input(Heating)	Rated	kW	2.09
Efficiency	EER(Rated)	W/W	3.20
	COP(Rated)	W/W	4.30
	SEER	Wh/Wh	5.70
	SCOP	Wh/Wh	3.80
	ηs,c	%	-
	ηs,h	%	-
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	60
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	124 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	65
	Shipping	kg	74
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch

1. Specifications

Category		Unit	Specification
Major	**Minor**		
Protection Device	Frost Prevention	-	O
	Discharge Tempreature Control	-	O
	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	1.5
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.013
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	51.0 / 55.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	67.0 / 70.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm^2 × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	23.7
	Maximum Fuse Amperes (MFA)	A	32
	Total Over Current Amperes (TOCA)	A	26.1
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	12.1
	Comp_Rated Load Amperes (Heating)	A	11.3
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.5
Connectable indoor units number	Max. (Conditional)	Units	6

Note

■ Due to our policy of innovation some specifications may be changed without notification.
■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN030LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342 ~ 456
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	4.59 - 4.36 - 4.21
	Running Current by Voltage (Heating,Rated)	A	3.41 - 3.24 - 3.13
Cooling Capacity	Rated	kW	9.0
		Btu/h	30,700
Heating Capacity	Rated	kW	9.0
		Btu/h	30,700
	Max	kW	10.0
		Btu/h	34,100
Power Input(Cooling)	Rated	kW	2.81
Power Input(Heating)	Rated	kW	2.09
Efficiency	EER(Rated)	W/W	3.20
	COP(Rated)	W/W	4.30
	SEER	Wh/Wh	5.70
	SCOP	Wh/Wh	3.80
	ηs,c	%	
	ηs,h	%	
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	60
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	124 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	65
	Shipping	kg	74
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	1.5
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.013
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	51.0 / 55.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	67.0 / 70.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	13.2
	Maximum Fuse Amperes (MFA)	A	20
	Total Over Current Amperes (TOCA)	A	14.5
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	4.1
	Comp_Rated Load Amperes (Heating)	A	3.8
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.5
Connectable indoor units number	Max. (Conditional)	Units	6

Note

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■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN040GSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	220-230-240, 1, 50
	Limit Range of Voltage(Case 1)	V	198~264
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	19.56 - 18.71 - 17.93
	Running Current by Voltage (Heating,Rated)	A	13.91 - 13.31 - 12.75
Cooling Capacity	Rated	kW	12.1
		Btu/h	41,300
Heating Capacity	Rated	kW	12.1
		Btu/h	41,300
	Max	kW	14.2
		Btu/h	48,400
Power Input(Cooling)	Rated	kW	4.26
Power Input(Heating)	Rated	kW	3.03
Efficiency	EER(Rated)	W/W	2.84
	COP(Rated)	W/W	4.00
	SEER	Wh/Wh	6.69
	SCOP	Wh/Wh	4.00
	ηs,c	%	264.4
	ηs,h	%	157.3
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	60
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	124 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	65
	Shipping	kg	74
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	1.5
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.013
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	51.0 / 55.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	67.0 / 71.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	23.7
	Maximum Fuse Amperes (MFA)	A	32
	Total Over Current Amperes (TOCA)	A	26.1
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	18.2
	Comp_Rated Load Amperes (Heating)	A	16.4
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.5
Connectable indoor units number	Max. (Conditional)	Units	8

Note

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■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN040LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	ZRUN040LSS0
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3,50
	Limit Range of Voltage(Case 1)	V	342 ~ 456
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	6.96 - 6.61 - 6.37
	Running Current by Voltage (Heating,Rated)	A	4.95 - 4.70 - 4.53
Cooling Capacity	Rated	kW	12.1
		Btu/h	41,300
Heating Capacity	Rated	kW	12.1
		Btu/h	41,300
	Max	kW	14.2
		Btu/h	48,400
Power Input(Cooling)	Rated	kW	4.26
Power Input(Heating)	Rated	kW	3.03
Efficiency	EER(Rated)	W/W	2.84
	COP(Rated)	W/W	4.00
	SEER	Wh/Wh	6.69
	SCOP	Wh/Wh	4.00
	ηs,c	%	264.4
	ηs,h	%	157.3
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	60
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	124 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	65
	Shipping	kg	74
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	1.5
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.013
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	51.0 / 55.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	67.0 / 71.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	13.2
	Maximum Fuse Amperes (MFA)	A	20
	Total Over Current Amperes (TOCA)	A	14.5
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	6.1
	Comp_Rated Load Amperes (Heating)	A	5.5
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.5
Connectable indoor units number	Max. (Conditional)	Units	8

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■ MSC means the Max. current during the starting of compressor.
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- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN050GSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	220-230-240, 1, 50
	Limit Range of Voltage(Case 1)	V	198~264
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	22.47 - 21.50 - 20.60
	Running Current by Voltage (Heating,Rated)	A	15.98 - 15.28 - 14.65
Cooling Capacity	Rated	kW	14.0
		Btu/h	47,800
Heating Capacity	Rated	kW	14.0
		Btu/h	47,800
	Max	kW	16.0
		Btu/h	54,600
Power Input(Cooling)	Rated	kW	4.90
Power Input(Heating)	Rated	kW	3.48
Efficiency	EER(Rated)	W/W	2.86
	COP(Rated)	W/W	4.02
	SEER	Wh/Wh	6.44
	SCOP	Wh/Wh	4.01
	ηs,c	%	254.7
	ηs,h	%	157.5
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	80
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	198 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	72
	Shipping	kg	80
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	2.0
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.350
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	57.0 / 60.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	70.0 / 74.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	25.0
	Maximum Fuse Amperes (MFA)	A	32
	Total Over Current Amperes (TOCA)	A	27.6
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	20.6
	Comp_Rated Load Amperes (Heating)	A	18.1
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.9
Connectable indoor units number	Max. (Conditional)	Units	10

Note

■ Due to our policy of innovation some specifications may be changed without notification.
■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN050LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	ZRUN050LSS0
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342 ~ 456
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	8.00 - 7.60 - 7.32
	Running Current by Voltage (Heating,Rated)	A	5.69 - 5.40 - 5.21
Cooling Capacity	Rated	kW	14.0
		Btu/h	47,800
Heating Capacity	Rated	kW	14.0
		Btu/h	47,800
	Max	kW	16.0
		Btu/h	54,600
Power Input(Cooling)	Rated	kW	4.90
Power Input(Heating)	Rated	kW	3.48
Efficiency	EER(Rated)	W/W	2.86
	COP(Rated)	W/W	4.02
	SEER	Wh/Wh	6.44
	SCOP	Wh/Wh	4.01
	ηs,c	%	254.7
	ηs,h	%	157.5
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	80
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	198 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	72
	Shipping	kg	80
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	2.0
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.350
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ15.88 (5/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	57.0 / 60.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	70.0 / 74.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	13.9
	Maximum Fuse Amperes (MFA)	A	20
	Total Over Current Amperes (TOCA)	A	15.3
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	6.7
	Comp_Rated Load Amperes (Heating)	A	5.8
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.9
Connectable indoor units number	Max. (Conditional)	Units	10

Note

■ Due to our policy of innovation some specifications may be changed without notification.
■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN060GSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	220-230-240, 1, 50
	Limit Range of Voltage(Case 1)	V	198~264
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	25.88 - 24.75 - 23.72
	Running Current by Voltage (Heating,Rated)	A	18.14 - 17.35 - 16.62
Cooling Capacity	Rated	kW	15.5
		Btu/h	52,900
Heating Capacity	Rated	kW	15.5
		Btu/h	52,900
	Max	kW	18.0
		Btu/h	61,400
Power Input(Cooling)	Rated	kW	5.64
Power Input(Heating)	Rated	kW	3.95
Efficiency	EER(Rated)	W/W	2.75
	COP(Rated)	W/W	3.92
	SEER	Wh/Wh	6.59
	SCOP	Wh/Wh	4.07
	ηs,c	%	260.6
	ηs,h	%	159.8
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	80
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	198 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	71.6
	Shipping	kg	79.6
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	2.0
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.350
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ19.05 (3/4)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	57.0 / 60.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	71.0 / 75.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	26.4
	Maximum Fuse Amperes (MFA)	A	32
	Total Over Current Amperes (TOCA)	A	29.0
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	23.9
	Comp_Rated Load Amperes (Heating)	A	22.3
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.9
Connectable indoor units number	Max. (Conditional)	Units	13

Note

■ Due to our policy of innovation some specifications may be changed without notification.
■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN060LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U36A
	Combination Unit (1)	-	ZRUN060LSS0
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342 ~ 456
	Case 2	V, Phase, Hz	-
	Limit Range of Voltage(Case 2)	V	-
	Running Current by Voltage (Cooling,Rated)	A	9.21 - 8.75 - 8.43
	Running Current by Voltage (Heating,Rated)	A	6.45 - 6.13 - 5.91
Cooling Capacity	Rated	kW	15.5
		Btu/h	52,900
Heating Capacity	Rated	kW	15.5
		Btu/h	52,900
	Max	kW	18.0
		Btu/h	61,400
Power Input(Cooling)	Rated	kW	5.64
Power Input(Heating)	Rated	kW	3.95
Efficiency	EER(Rated)	W/W	2.75
	COP(Rated)	W/W	3.92
	SEER	Wh/Wh	6.59
	SCOP	Wh/Wh	4.07
	ηs,c	%	260.6
	ηs,h	%	159.8
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller Fan
	Air Flow Rate(High)	m^3/min	80
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	Axial Flow Fan
	Drive	-	DC INVERTER
	Output	W x No.	198 x 1
Compressor	Type	-	LG Inverter Scroll
	Piston Displacement	cm^3/rev	31.6
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	3198 x 1
	Starting Method	-	DC Inverter Starting
	Oil Type	-	FW68D(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	1
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 834 x 330
	Shipping(W x H x D)	mm	1,147 x 919 x 461
Weight	Net	kg	71.6
	Shipping	kg	79.6
Exterior	Color	-	WARM GRAY
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O
	Discharge Tempreature Control	-	O

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Overcurrent protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	2.0
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	1.350
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ19.05 (3/4)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Flare
	Gas	-	Flare
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	57.0 / 60.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	71.0 / 75.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	2C x 1.0 ~ 1.5
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	14.6
	Maximum Fuse Amperes (MFA)	A	20
	Total Over Current Amperes (TOCA)	A	16.1
	Comp_Maximum Starting Current (MSC)	A	-
	Comp_Rated Load Amperes (Cooling)	A	7.8
	Comp_Rated Load Amperes (Heating)	A	7.3
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	0.9
Connectable indoor units number	Max. (Conditional)	Units	13

Note

■ Due to our policy of innovation some specifications may be changed without notification.
■ Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
■ Power factor could vary less than ±1% according to the operating conditions.
■ Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
■ This product contains Fluorinated greenhouse gases.
■ Voltage supplied to the unit terminals should be within the minimum and maximum range.
■ Maximum allowable voltage unbalance between phase is 2%.
■ MSC means the Max. current during the starting of compressor.
■ MSC and RLA are measured as the compressor only test condition.
■ OFM are measured as the outdoor unit test condition.
■ TOCA means the total over current value of each outdoor unit.
■ Select the wire size based on the larger value among MCA or TOCA.
■ MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN080LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U60A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342-456
	Case 2	V, Phase, Hz	380, 3, 60
	Limit Range of Voltage(Case 2)	V	342-418
	Running Current by Voltage (Cooling,Rated)	A	12.79 - 12.15 - 11.71
	Running Current by Voltage (Heating,Rated)	A	9.51 - 9.03 - 8.71
Cooling Capacity	Rated	kW	22.4
		Btu/h	76,400
Heating Capacity	Rated	kW	22.4
		Btu/h	76,400
	Max	kW	24.5
		Btu/h	83,600
Power Input(Cooling)	Rated	kW	7.46
Power Input(Heating)	Rated	kW	5.81
Efficiency	EER(Rated)	W/W	3.00
	COP(Rated)	W/W	3.85
	SEER	Wh/Wh	7.54
	SCOP	Wh/Wh	4.76
	ηs,c	%	298.6
	ηs,h	%	187.4
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller fan
	Air Flow Rate(High)	m^3/min	140
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	BLDC
	Drive	-	DC Inverter
	Output	W x No.	124 x 2
Compressor	Type	-	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	43.8
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	4,200x1
	Starting Method	-	Inverter
	Oil Type	-	FW68L(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	2
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	950 x 1,380 x 330
	Shipping(W x H x D)	mm	1,140 x 1,549 x 466
Weight	Net	kg	114
	Shipping	kg	126
Exterior	Color	-	Warm Gray
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O (Logical)
	Discharge Tempreature Control	-	O (Logical)

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Over-current protection
	Inverter Protection	-	Over-heat protection / Over-current protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	3.2
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	2.160
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ19.05 (3/4)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Brazing
	Gas	-	Brazing
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	57.0 / 57.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	73.0 / 77.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	1.0~1.5x2C
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	18.2
	Maximum Fuse Amperes (MFA)	A	30
	Total Over Current Amperes (TOCA)	A	20.0
	Comp_Maximum Starting Current (MSC)	A	4.3
	Comp_Rated Load Amperes (Cooling)	A	8.4
	Comp_Rated Load Amperes (Heating)	A	8.6
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	1.0
Connectable indoor units number	Max. (Conditional)	Units	13

Note

■Due to our policy of innovation some specifications may be changed without notification.
■Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design.
Especially the power cable and circuit breaker should be selected in accordance with that.
■Power factor could vary less than ±1% according to the operating conditions.
■Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
Sound values of combination model are calculated values based on sound results of independent models.
Sound values can be increased owing to ambient or installation conditions during operation.
Sound values of system [dB(A)] = 10*log [10^(A1/10)+ ... +10^(An/10)] , A1~An means sound values of independent models.
■EUROVENT Test Condition :
-Performance values on the this PDB are based on Ceiling Mounted Cassette combination.
-Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
■Use appropriate power source refer to national standard.
■Voltage supplied to the unit terminals should be within the minimum and maximum range.
■Maximum allowable voltage unbalance between phase is 2%.
■MSC means the Max. current during the starting of compressor.
MSC and RLA are measured as the compressor only test condition.
OFM are measured as the outdoor unit test condition.
TOCA means the total over current value of each outdoor unit.
Select the wire size based on the larger value among MCA or TOCA.
MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
[circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN100LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U80A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342~456
	Case 2	V, Phase, Hz	380, 3, 60
	Limit Range of Voltage(Case 2)	V	342~418
	Running Current by Voltage (Cooling,Rated)	A	15.83 - 15.04 - 14.50
	Running Current by Voltage (Heating,Rated)	A	11.13 - 10.57 - 10.19
Cooling Capacity	Rated	kW	28.0
		Btu/h	95,900
Heating Capacity	Rated	kW	28.0
		Btu/h	95,900
	Max	kW	30.6
		Btu/h	104,400
Power Input(Cooling)	Rated	kW	9.33
Power Input(Heating)	Rated	kW	6.81
Efficiency	EER(Rated)	W/W	3.00
	COP(Rated)	W/W	4.11
	SEER	Wh/Wh	7.13
	SCOP	Wh/Wh	4.70
	ηs,c	%	282.2
	ηs,h	%	185
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller fan
	Air Flow Rate(High)	m^3/min	210
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	BLDC
	Drive	-	DC INVERTER
	Output	W x No.	250 x 2
Compressor	Type	-	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	5,300 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68L(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	2
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	1,090 x 1,625 x 380
	Shipping(W x H x D)	mm	1,215 x 1,795 x 500
Weight	Net	kg	138
	Shipping	kg	153
Exterior	Color	-	Warm Gray
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O (Logical)
	Discharge Tempreature Control	-	O (Logical)

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Over-current protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	3.9
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	2.633
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ22.22 (7/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Brazing
	Gas	-	Brazing
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	58.0 / 58.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	75.0 / 81.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	1.0~1.5 x 2
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	25.5
	Maximum Fuse Amperes (MFA)	A	30.0
	Total Over Current Amperes (TOCA)	A	28.0
	Comp_Maximum Starting Current (MSC)	A	5.9
	Comp_Rated Load Amperes (Cooling)	A	9.3
	Comp_Rated Load Amperes (Heating)	A	9.5
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	2.4
Connectable indoor units number	Max. (Conditional)	Units	16

Note

■Due to our policy of innovation some specifications may be changed without notification.
■Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design.
Especially the power cable and circuit breaker should be selected in accordance with that.
■Power factor could vary less than ±1% according to the operating conditions.
■Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
Sound values of combination model are calculated values based on sound results of independent models.
Sound values can be increased owing to ambient or installation conditions during operation.
Sound values of system [dB(A)] = 10*log [10^(A1/10)+ ... +10^(An/10)] , A1~An means sound values of independent models.
■EUROVENT Test Condition :
-Performance values on the this PDB are based on Ceiling Mounted Cassette combination.
-Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
■Use appropriate power source refer to national standard.
■Voltage supplied to the unit terminals should be within the minimum and maximum range.
■Maximum allowable voltage unbalance between phase is 2%.
■MSC means the Max. current during the starting of compressor.
MSC and RLA are measured as the compressor only test condition.
OFM are measured as the outdoor unit test condition.
TOCA means the total over current value of each outdoor unit.
Select the wire size based on the larger value among MCA or TOCA.
MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
[circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

1. Specifications

ZRUN120LSS0

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	U80A
	Combination Unit (1)	-	-
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342~456
	Case 2	V, Phase, Hz	380, 3, 60
	Limit Range of Voltage(Case 2)	V	342~418
	Running Current by Voltage (Cooling,Rated)	A	19.62 - 18.64 - 17.97
	Running Current by Voltage (Heating,Rated)	A	14.79 - 14.05 - 13.54
Cooling Capacity	Rated	kW	33.5
		Btu/h	114,700
Heating Capacity	Rated	kW	33.5
		Btu/h	114,700
	Max	kW	36.7
		Btu/h	125,200
Power Input(Cooling)	Rated	kW	11.63
Power Input(Heating)	Rated	kW	8.76
Efficiency	EER(Rated)	W/W	2.88
	COP(Rated)	W/W	3.82
	SEER	Wh/Wh	7.07
	SCOP	Wh/Wh	4.45
	ηs,c	%	279.8
	ηs,h	%	175
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller fan
	Air Flow Rate(High)	m^3/min	210
	Max. External Static Pressure	Pa	-
	Discharge direction(Side / Top)	-	Side
Outdoor Fan Motor	Type	-	BLDC
	Drive	-	DC INVERTER
	Output	W x No.	250 x 2
Compressor	Type	-	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	5,300 x 1
	Starting Method	-	Inverter
	Oil Type	-	FW68L(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	2
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	1,090 x 1,625 x 380
	Shipping(W x H x D)	mm	1,215 x 1,795 x 500
Weight	Net	kg	151
	Shipping	kg	165
Exterior	Color	-	Warm Gray
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O (Logical)
	Discharge Tempreature Control	-	O (Logical)

1. Specifications

Category		Unit	Specification
Major	Minor		
Protection Device	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Over-current protection
Refrigerant	Type	-	R32
	Precharged Amount	kg	4.7
	GWP(Global Warming Potential)	-	675
	t-CO_2 eq.	-	3.173
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ12.7 (1/2)
	Gas	mm(inch)	Φ28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	-
	High Pressure Gas (Heat Recovery)	mm(inch)	-
Piping Connection Type	Liquid	-	Brazing
	Gas	-	Brazing
	Low Pressure Gas (Heat Recovery)	-	-
	High Pressure Gas (Heat Recovery)	-	-
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	60.0 / 60.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	77.0 / 82.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm² × cores	1.0~1.5 x 2
Electrical Characteristic	Minimium Circuit Amperes (MCA)	A	25.5
	Maximum Fuse Amperes (MFA)	A	35
	Total Over Current Amperes (TOCA)	A	28.0
	Comp_Maximum Starting Current (MSC)	A	5.9
	Comp_Rated Load Amperes (Cooling)	A	12.0
	Comp_Rated Load Amperes (Heating)	A	13.5
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	2.4
Connectable indoor units number	Max. (Conditional)	Units	20

Note

■Due to our policy of innovation some specifications may be changed without notification.
■Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” should be considered for electrical work and design.
Especially the power cable and circuit breaker should be selected in accordance with that.
■Power factor could vary less than ±1% according to the operating conditions.
■Sound level values are depend on the ambient conditions and values are normally higher in actual operation.
Sound values of combination model are calculated values based on sound results of independent models.
Sound values can be increased owing to ambient or installation conditions during operation.
Sound values of system [dB(A)] = 10*log [10^(A1/10)+ ... +10^(An/10)] , A1~An means sound values of independent models.
■EUROVENT Test Condition :
-Performance values on the this PDB are based on Ceiling Mounted Cassette combination.
-Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
■Use appropriate power source refer to national standard.
■Voltage supplied to the unit terminals should be within the minimum and maximum range.
■Maximum allowable voltage unbalance between phase is 2%.
■MSC means the Max. current during the starting of compressor.
MSC and RLA are measured as the compressor only test condition.
OFM are measured as the outdoor unit test condition.
TOCA means the total over current value of each outdoor unit.
Select the wire size based on the larger value among MCA or TOCA.
MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
[circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].

■Performances are based on the following conditions :
- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. List of Functions

ZRUN030GSS0, ZRUN040GSS0, ZRUN050GSS0, ZRUN060GSS0

Category	Functions	Availability
Reliability	Defrost / Deicing	O
	High Pressure Switch	O
	Phase Protection	X
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
Convenience	Low Noise Operation	O
	Peak Control	X
	Mode Lock	X
	SLC (Smart Load Control)	X
Installation	Test Function	X
Special Functions	Comfort Cooling (Humidity Control)	X
	ODU Dry Contact Function	O
	High Static Pressure Compensation	O
	Convenient Energy Check	X
	Remote Software Upgrade	X

Note

■ O : Applied, X : Not applied

- Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
- Accessory line-ups varies by region, so check your local catalogue or local sales material.

2. List of Functions

ZRUN030LSS0, ZRUN040LSS0, ZRUN050LSS0, ZRUN060LSS0

Category	Functions	Availability
Reliability	Defrost / Deicing	O
	High Pressure Switch	O
	Phase Protection	O
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
Convenience	Low Noise Operation	O
	Peak Control	X
	Mode Lock	X
	SLC (Smart Load Control)	X
Installation	Test Function	X
Special Functions	Comfort Cooling (Humidity Control)	X
	ODU Dry Contact Function	O
	High Static Pressure Compensation	O
	Convenient Energy Check	X
	Remote Software Upgrade	X

Note

■ O : Applied, X : Not applied

- Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
- Accessory line-ups varies by region, so check your local catalogue or local sales material.

2. List of Functions

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0

Category	Functions	Availability
Reliability	Defrost / Deicing	O
	High Pressure Switch	O
	Phase Protection	O
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
Convenience	Low Noise Operation	O
	Peak Control	X
	Mode Lock	X
	SLC (Smart Load Control)	X
Installation	Test Function	X
Special Functions	Comfort Cooling (Humidity Control)	X
	ODU Dry Contact Function	O
	High Static Pressure Compensation	O
	Convenient Energy Check	X
	Remote Software Upgrade	X

Note

■ O : Applied, X : Not applied

- Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
- Accessory line-ups varies by region, so check your local catalogue or local sales material.

3. Accessory Compatibility List

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0

Category	Accessory Name	Model Name	Description	Compatibility
Central Controller	AC EZ	PQCSZ250S0	-	O
	AC EZ touch	PACEZA000	Touch type	O
	AC Smart 5	PACS5A000	Touch type	O
	ACP 5	PACP5A000	-	O
	AC Manager 5	PACM5A000	For Integrated Control	O
Gateway	ACP BACnet	PQNFB17C0	-	O
	Cloud Gateway	PWFMDB200	ThinQ, BECON cloud	-
	Modbus RTU Gateway	PMBUSB00A	To interwork with 3rd Party Controller or BMS for Multi V / ERV (DX) / AWHP / Hydrokit	O
Integration Device	IO Module	PVDSMN000	ODU Dry Contact	X
	AI Module	PACTLA000	For application of AI function	-
	Cool/Heat Selector	PRDSBM	-	X
	AHU comm. kit	PAHCMR000	For AHU Control (Multi V / Single ODU Communication)	O
		PAHCMS000	For AHU Control (Multi V / Single ODU Communication)	O
	AHU Controller Module	PAHCMC000	For AHU Control (Communication Module)	O
		PAHCMM000	For AHU Control (Main Module)	O
	AHU Control kit	PAHCNM000	Maximum Connectable ODU is 3 Units	-
	EEV Kit	PRLK048A0	Capacity Range(~ 28kW)	O
		PRLK096A0	Capacity Range(~ 56kW)	-
		PRLK396A0	Capacity Range(~ 112kW)	-
		PRLK594A0	Capacity Range(~ 168kW)	-
	Water comm. module	PAHCMW000	Water Communication Module	-
	PDI Standard	PPWRDB000	Power distributor 2port	O
	PDI Premium	PQNUD1S40	Power distributor 8port	O
ETC	DS(Data Saving) Module	PVDATN000	Data Saving Module	O

Note

■ O: Possible, X: Impossible, - : Unconfirmed or irrelevant, Embedded : Included with product.
■ * : Some advanced functions controlled by individual controller cannot be operated.
■ If there is a difference in development time between the product and the remote controller, some functions cannot be operated.
■ AC Manager requires ACP or AC Smart.
■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.
(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON))

3. Accessory Compatibility List

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0

Category	Accessory Name	Model Name	Description	Compatibility
Central Controller	AC EZ	PQCSZ250S0	-	O
	AC EZ touch	PACEZA000	Touch type	O
	AC Smart 5	PACS5A000	Touch type	O
	ACP 5	PACP5A000	-	O
	AC Manager 5	PACM5A000	For Integrated Control	O
Gateway	ACP BACnet	PQNFB17C0	-	O
	Cloud Gateway	PWFMDB200	ThinQ, BECON cloud	O
	Modbus RTU Gateway	PMBUSB00A	To interwork with 3rd Party Controller or BMS for Multi V / ERV (DX) / AWHP / Hydrokit	O
Integration Device	IO Module	PVDSMN000	ODU Dry Contact	O
	AI Module	PACTLA000	For application of AI function	X
	Cool/Heat Selector	PRDSBM	-	O
	AHU comm. kit	PAHCMR000	For AHU Control (Multi V / Single ODU Communication)	O
		PAHCMS000	For AHU Control (Multi V / Single ODU Communication)	O
	AHU Controller Module	PAHCMC000	For AHU Control (Communication Module)	O
		PAHCMM000	For AHU Control (Main Module)	O
	AHU Control kit	PAHCNM000	Maximum Connectable ODU is 3 Units	X
	EEV Kit	PRLK048A0	Capacity Range(~ 28kW)	O
		PRLK096A0	Capacity Range(~ 56kW)	O
		PRLK396A0	Capacity Range(~ 112kW)	X
		PRLK594A0	Capacity Range(~ 168kW)	X
	Water comm. module	PAHCMW000	Water Communication Module	X
	PDI Standard	PPWRDB000	Power distributor 2port	O
	PDI Premium	PQNUD1S40	Power distributor 8port	O
ETC	DS(Data Saving) Module	PVDATN000	Data Saving Module	O

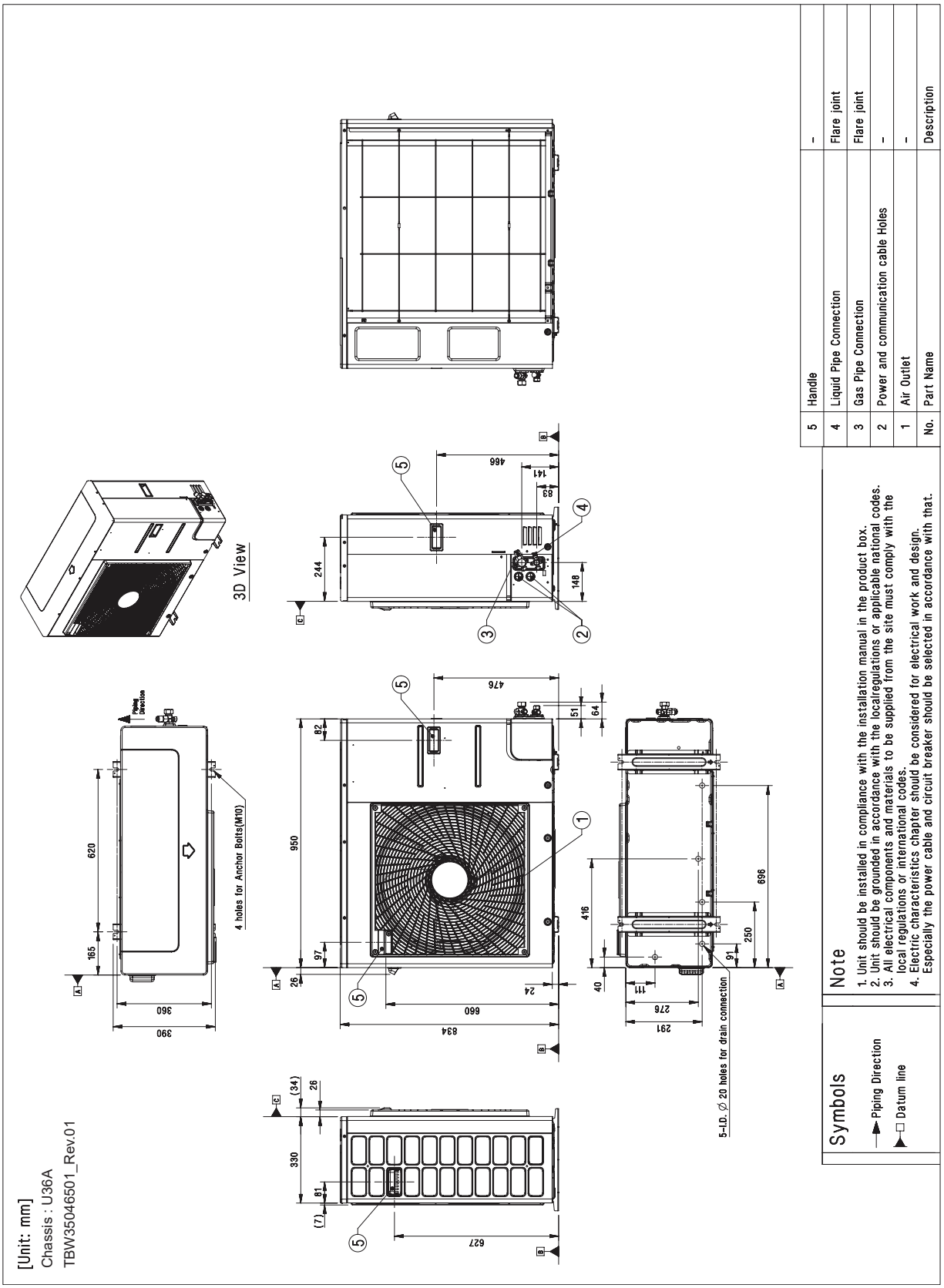
Note

■ O: Possible, X: Impossible, - : Unconfirmed or irrelevant, Embedded : Included with product.
■ * : Some advanced functions controlled by individual controller cannot be operated.
■ If there is a difference in development time between the product and the remote controller, some functions cannot be operated.
■ AC Manager requires ACP or AC Smart.
■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.
(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON))

4. Dimensions

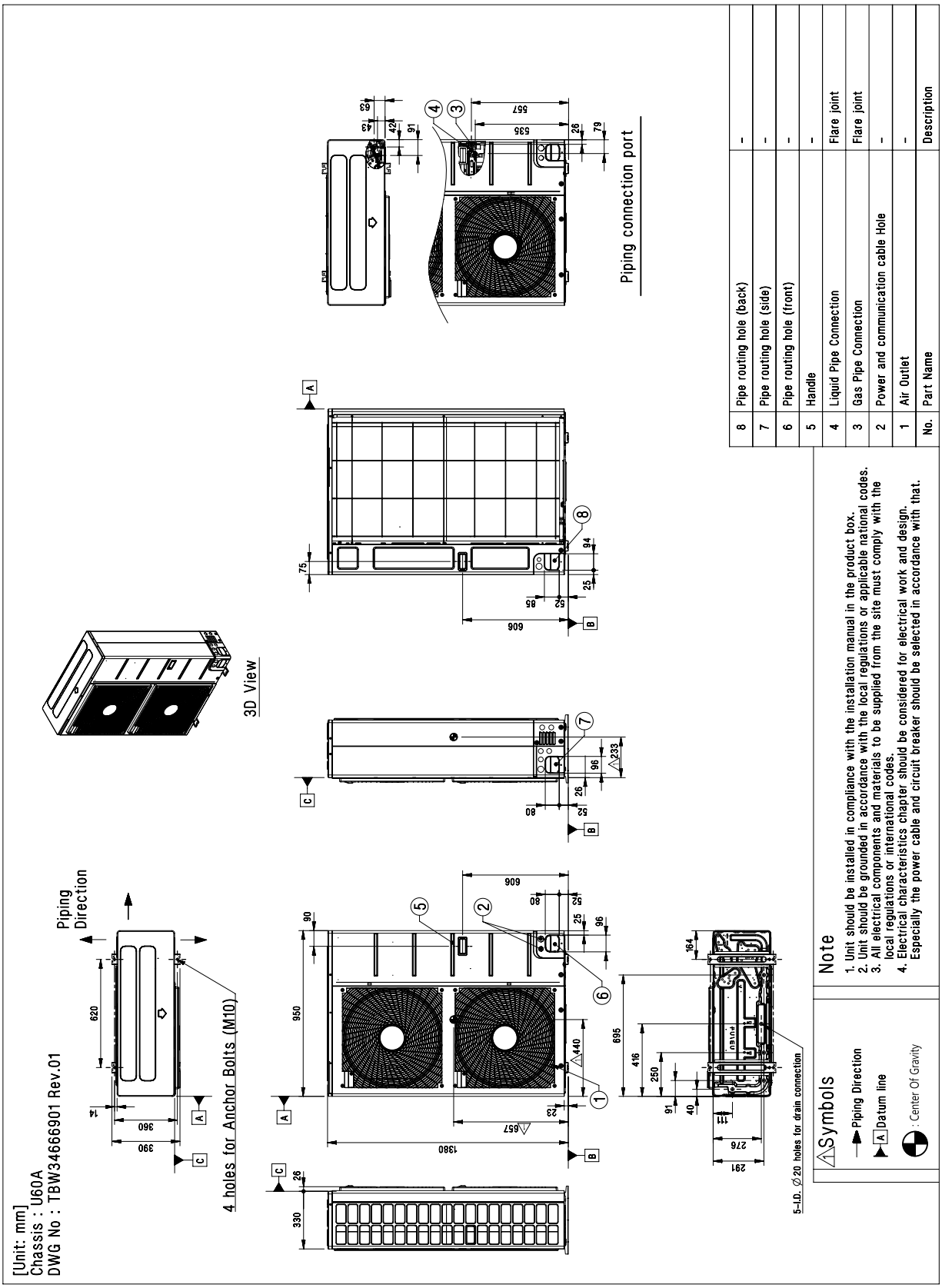
4.1 Dimensional Drawing

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0



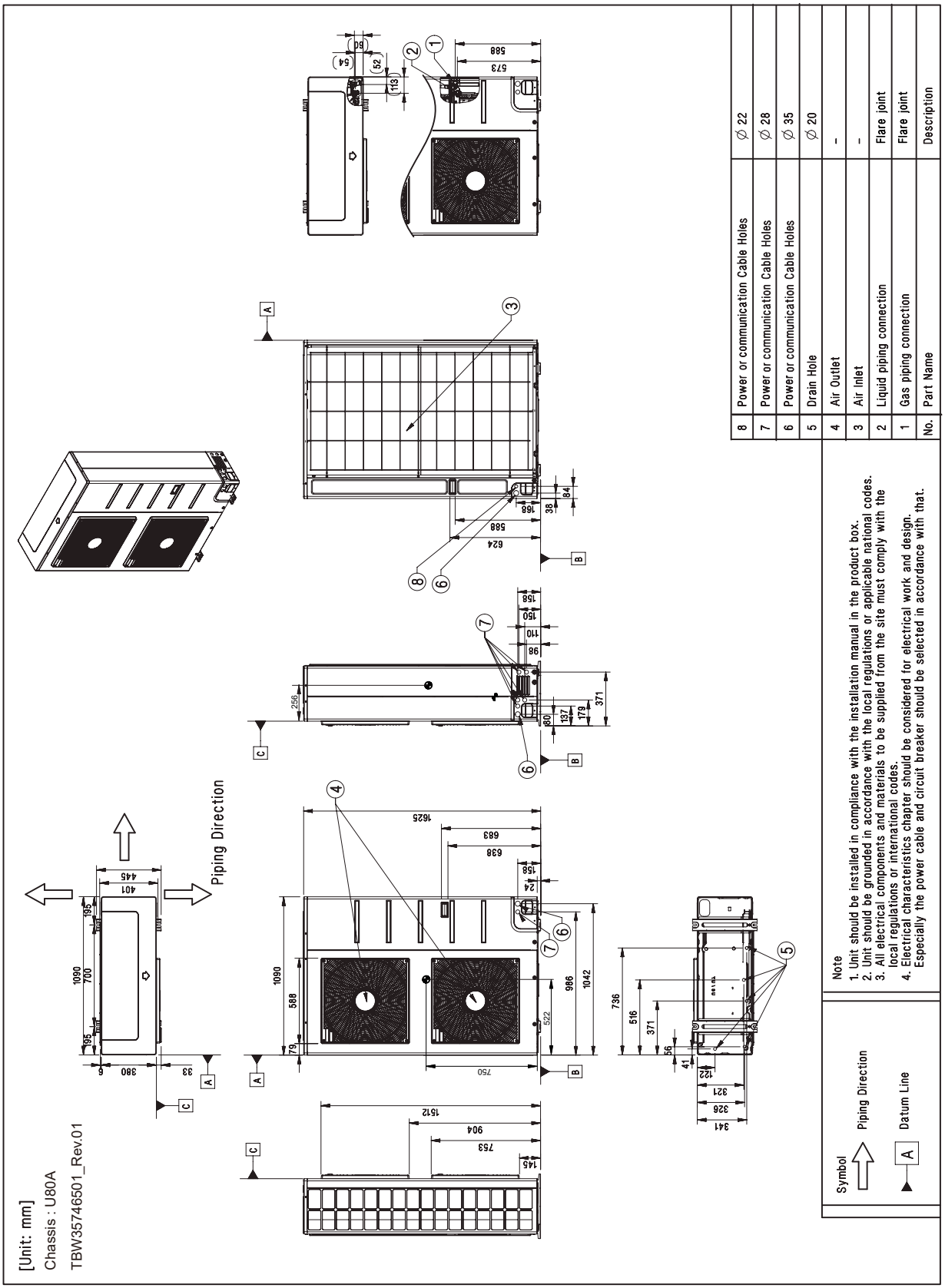
4. Dimensions

ZRUN080LSS0



4. Dimensions

ZRUN100LSS0, ZRUN120LSS0



4. Dimensions

4.2 Installation Space

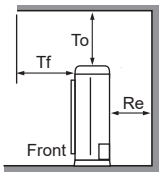
ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0, ZRUN080LSS0

For Side Discharge (capacity < 28.0 kW)

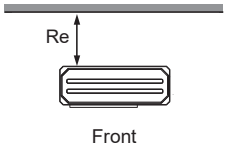
[Unit : mm(inch)]

Obstacle on the Suction side

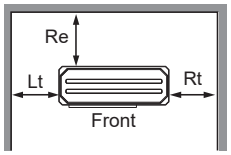
※ *Case 1 : No obstacle on top side*
Case 2 : Obstacle on top side



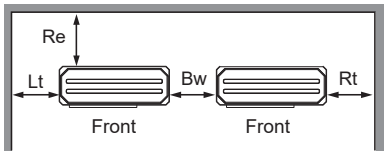
To ≥ 1,000(39-3/8)
Tf ≤ 500(19-11/16)



Case 1
Re ≥ 100(3-15/16)
Case 2
Re ≥ 300(11-13/16)



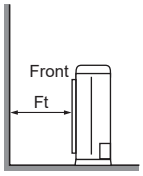
Case 1	*Case 2*
Re ≥ 100(3-15/16)	Re ≥ 300(11-13/16)
Lt ≥ 100(3-15/16)	Lt ≥ 150(5-29/32)
Rt ≥ 100(3-15/16)	Rt ≥ 150(5-29/32)

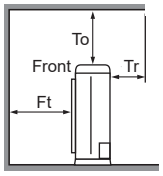


Case 1	*Case 2*
Re ≥ 300(11-13/16)	Re ≥ 300(11-13/16)
Lt ≥ 1,000(39-3/8)	Lt ≥ 1,000(39-3/8)
Rt ≥ 200(7-7/8)	Rt ≥ 200(7-7/8)
Bw ≥ 100(3-15/16)	Bw ≥ 100(3-15/16)

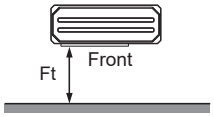
Obstacle on the Discharge side

※ ***For Rear Piping / External SVC Valve type / Side-CBOX type***
: Re,Lt ≥ 300(11-13/16) and Rt,Bw,Rb ≥ 600(23-5/8) for ALL CASE.

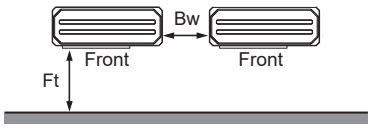




To ≥ 1,000(39-3/8)
Tr ≤ 500(19-11/16)



Case 1	*Case 2*
Ft ≥ 500(19-11/16)	Ft ≥ 500(19-11/16)

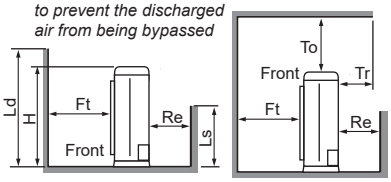


Case 1	*Case 2*
Ft ≥ 1,000(39-3/8)	Ft ≥ 1,000(39-3/8)
Bw ≥ 100(3-15/16)	Bw ≥ 100(3-15/16)

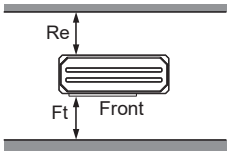
Obstacle on the Suction and Discharge side

Ld > H (Ls should be lower H.)

※ *Close the bottom of the installation frame to prevent the discharged air from being bypassed*

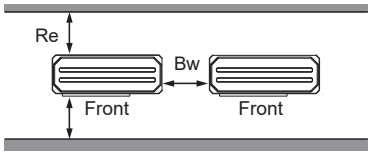


To ≥ 1,000(39-3/8)
Tf ≤ 500(19-11/16)



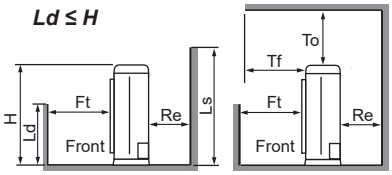
Case 1	*Case 2*
Ft ≥ 500(19-11/16)	Ft ≥ 1,000(39-3/8) *
Re ≥ 300(11-13/16)	Re ≥ 300(11-13/16)

** If Ls ≤ H/2, Ft ≥ 750(29-17/32)*



Case 1	*Case 2*
Ft ≥ 1,000(39-3/8)	Ft ≥ 1,250(49-7/32)
Re ≥ 300(11-13/16)	Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)	Bw ≥ 100(3-15/16)

Ld ≤ H



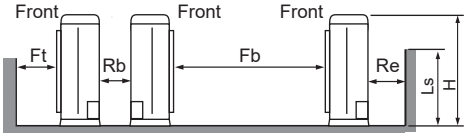
To ≥ 1,000(39-3/8)
Tf ≤ 500(19-11/16)

Case 1	*Case 2*
Ft ≥ 500(19-11/16)	Ft ≥ 1,000(39-3/8)
Re ≥ 300(11-13/16)	Re ≥ 300(11-13/16)

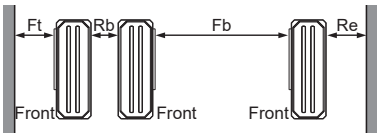
Case 1	*Case 2*
Ft ≥ 1,500(59-1/16)	Ft ≥ 1,500(59-1/16)
Re ≥ 300(11-13/16)	Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)	Bw ≥ 100(3-15/16)

※ *In case of series installation (2 Units or more) for 2 Fan models, Ld should be lower than H/2.*

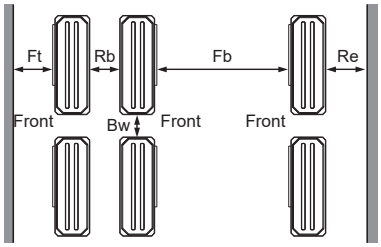
Collective/Continuous Installation (Multiple Columns)



※ *In case of Multiple columns/continuous installation, Ls should be lower than H.*



1 Column
Ft ≥ 1,000(39-3/8)
Rb ≥ 200(7-7/8)
Fb ≥ 2,000(78-3/4)
Re ≥ 100(3-15/16)



Multiple Columns
Ft ≥ 1,500(59-1/16)
Rb ≥ 600(23-5/8)
Fb ≥ 3,000(118-1/8)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

Note

- If there is a concern about product performance degradation due to group installation or interference with obstacles, secure an additional separation distance.
- Secure enough space for smooth service and maintenance.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.

4. Dimensions

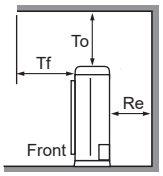
ZRUN100LSS0, ZRUN120LSS0

For Side Discharge (capacity ≥ 28.0 kW)

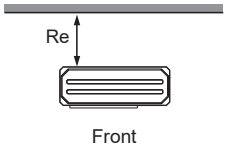
[Unit : mm(inch)]

Obstacle on the Suction side

※ *Case 1 : No obstacle on top side*
Case 2 : Obstacle on top side

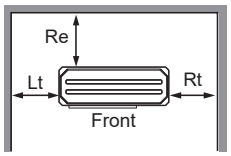


To ≥ 1,000(39-3/8)
Tf ≤ 500(19-11/16)



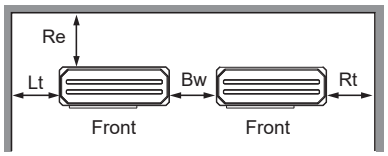
Case 1
Re ≥ 200(7-7/8)

Case 2
Re ≥ 300(11-13/16)



Case 1
Re ≥ 300(11-13/16)
Lt ≥ 100(3-15/16)
Rt ≥ 100(3-15/16)

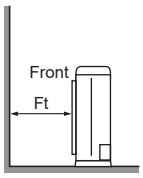
Case 2
Re ≥ 300(11-13/16)
Lt ≥ 150(5-29/32)
Rt ≥ 150(5-29/32)

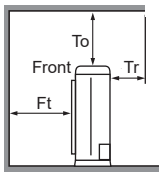


Case 1
Re ≥ 300(11-13/16)
Lt ≥ 1,000(39-3/8)
Rt ≥ 200(7-7/8)
Bw ≥ 100(3-15/16)

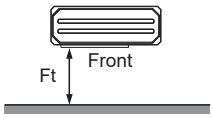
Case 2
Re ≥ 300(11-13/16)
Lt ≥ 1,000(39-3/8)
Rt ≥ 200(7-7/8)
Bw ≥ 100(3-15/16)

Obstacle on the Discharge side



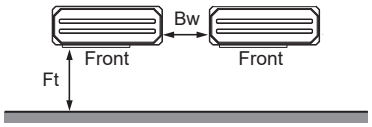


To ≥ 1,000(39-3/8)
Tr ≤ 500(19-11/16)



Case 1
Ft ≥ 700(27-9/16)

Case 2
Ft ≥ 700(27-9/16)



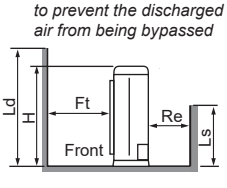
Case 1
Ft ≥ 1,000(39-3/8)
Bw ≥ 100(3-15/16)

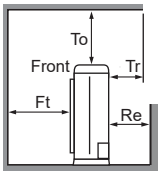
Case 2
Ft ≥ 1,000(39-3/8)
Bw ≥ 100(3-15/16)

Obstacle on the Suction and Discharge side

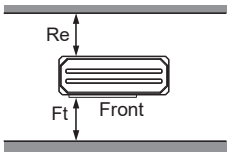
Ld > H (Ls should be lower H.)

※ *Close the bottom of the installation frame to prevent the discharged air from being bypassed*





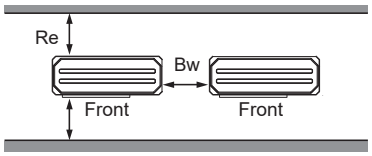
To ≥ 1,000(39-3/8)
Tr ≤ 500(19-11/16)



Case 1
Ft ≥ 700(27-9/16)
Re ≥ 300(11-13/16)

Case 2
Ft ≥ 1,000(39-3/8) *
Re ≥ 300(11-13/16)

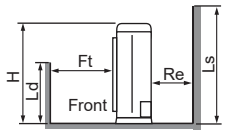
** If Ls ≤ H/2, Ft ≥ 750(29-17/32)*

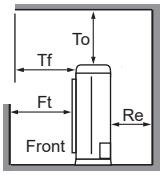


Case 1
Ft ≥ 1,000(39-3/8)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

Case 2
Ft ≥ 1,250(49-7/32)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

Ld ≤ H





Case 1
Ft ≥ 700(27-9/16)
Re ≥ 300(11-13/16)

Case 2
Ft ≥ 1,000(39-3/8)
Re ≥ 300(11-13/16)

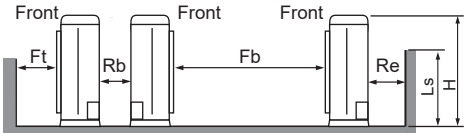
To ≥ 1,000(39-3/8)
Tf ≤ 500(19-11/16)

Case 1
Ft ≥ 1,500(59-1/16)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

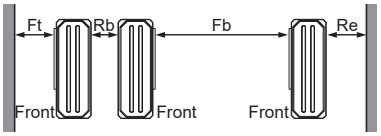
Case 2
Ft ≥ 1,500(59-1/16)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

※ *In case of series installation (2 Units or more) for 2 Fan models, Ld should be lower than H/2.*

Collective/Continuous Installation (Multiple Columns)

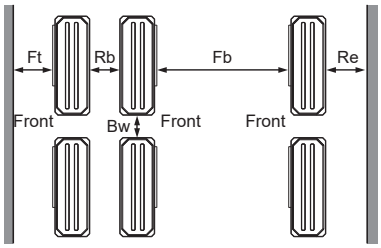


※ *In case of Multiple columns/continuous installation, Ls should be lower than H.*



1 Column

Ft ≥ 1,000(39-3/8)
Rb ≥ 200(7-7/8)
Fb ≥ 2,000(78-3/4)
Re ≥ 100(3-15/16)



Multiple Columns

Ft ≥ 1,500(59-1/16)
Rb ≥ 600(23-5/8)
Fb ≥ 3,000(118-1/8)
Re ≥ 300(11-13/16)
Bw ≥ 100(3-15/16)

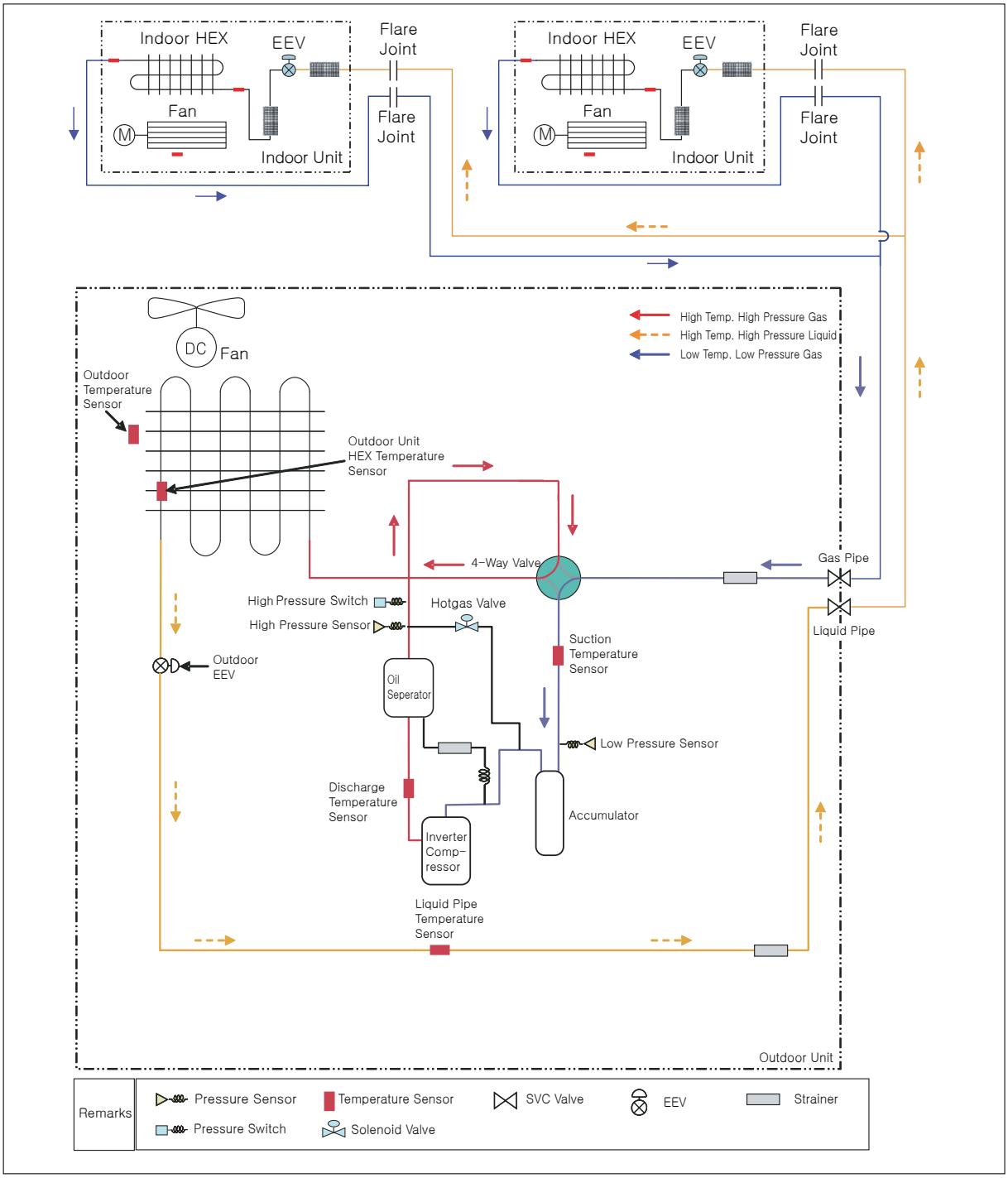
Note

- If there is a concern about product performance degradation due to group installation or interference with obstacles, secure an additional separation distance.
- Secure enough space for smooth service and maintenance.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.

5. Piping Diagrams

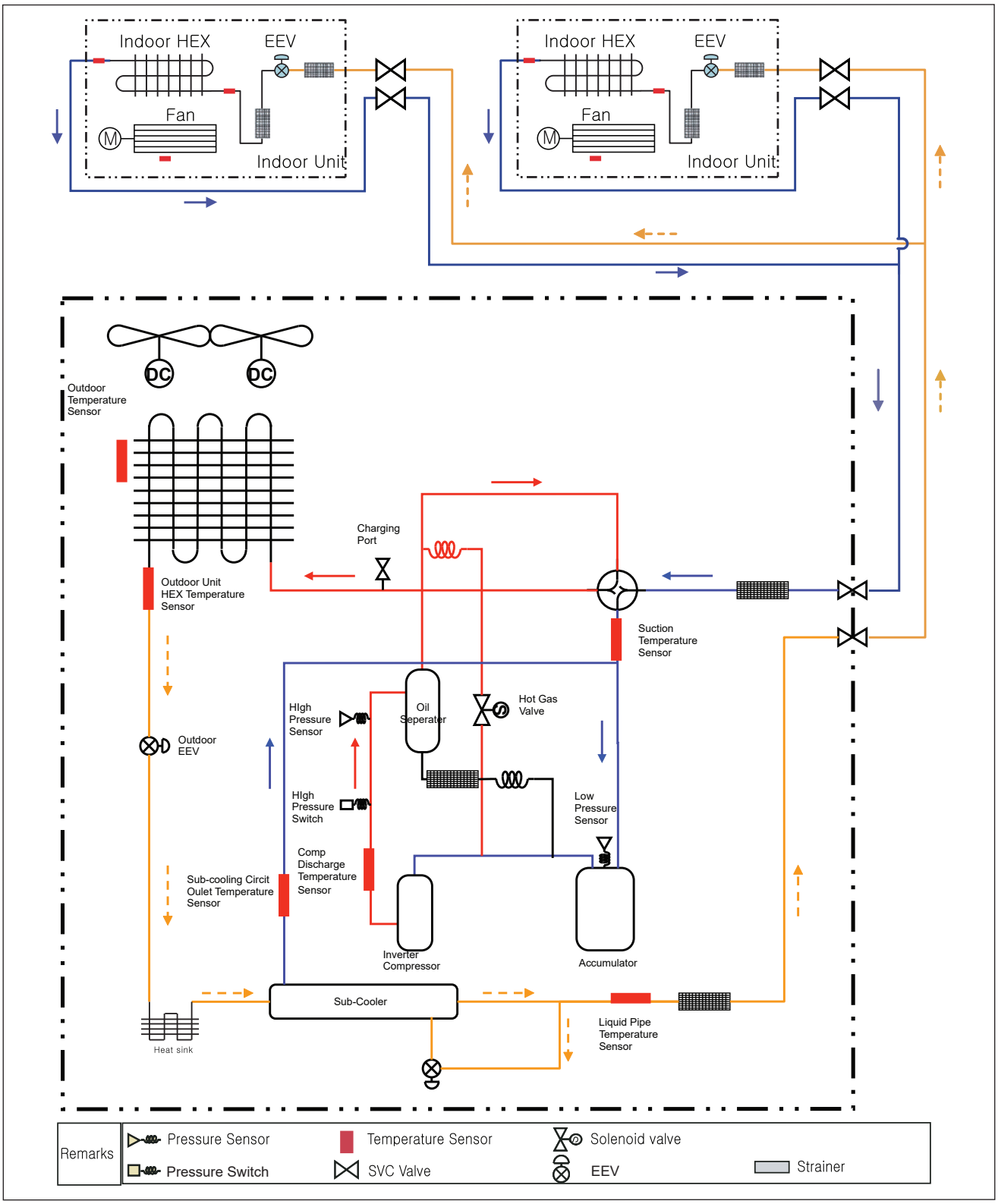
5.1 Cooling Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0



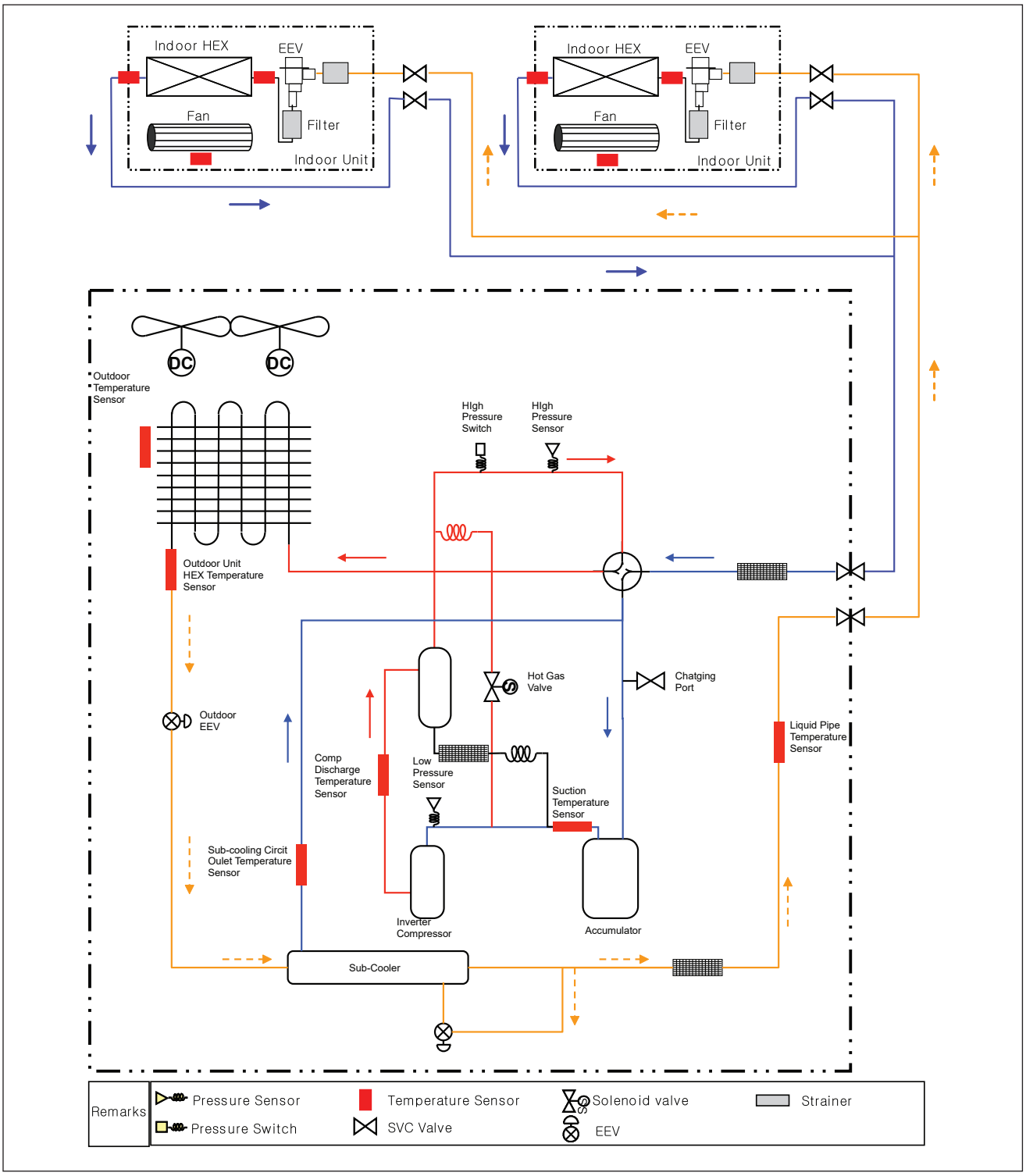
5. Piping Diagrams

ZRUN080LSS0



5. Piping Diagrams

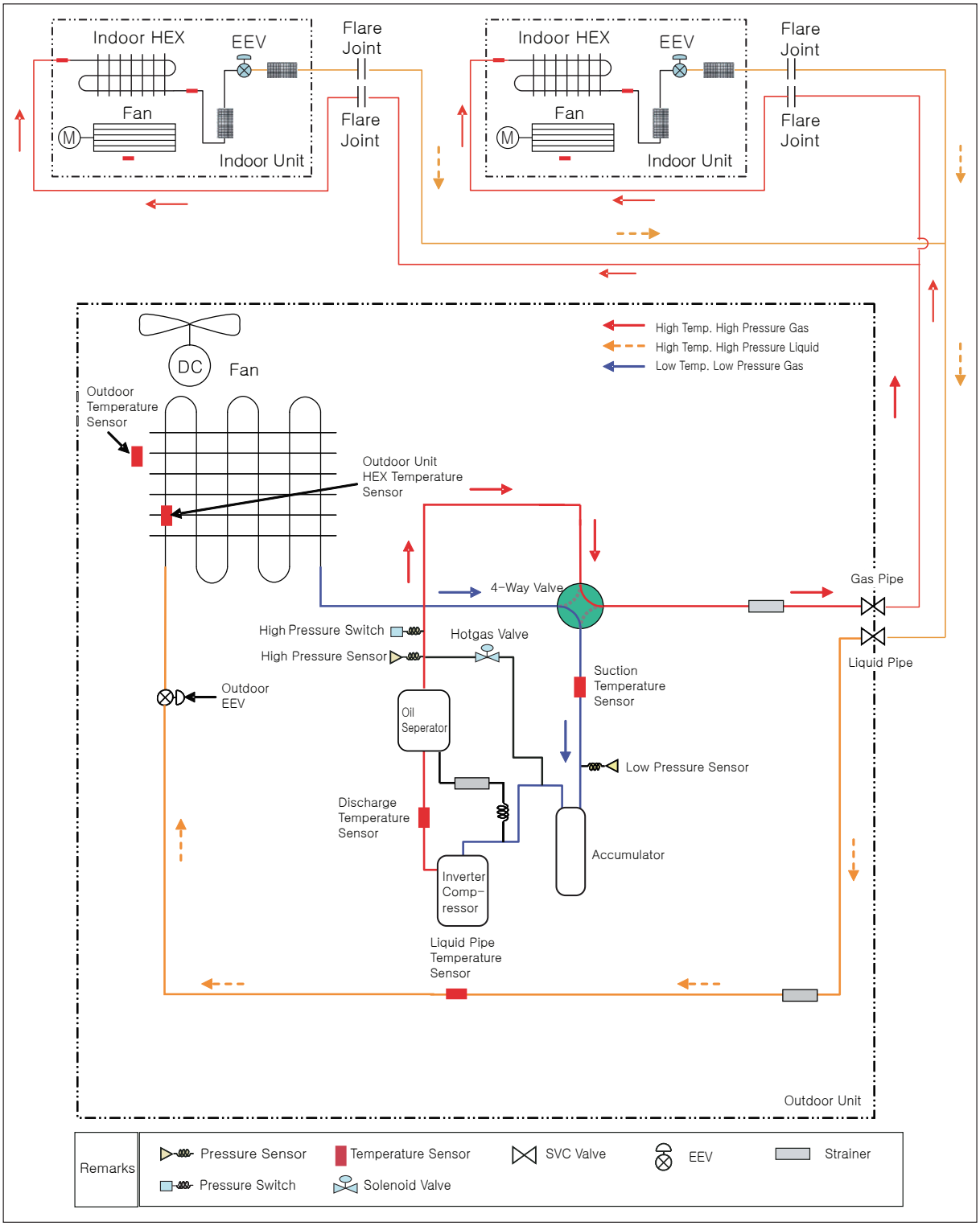
ZRUN100LSS0, ZRUN120LSS0



5. Piping Diagrams

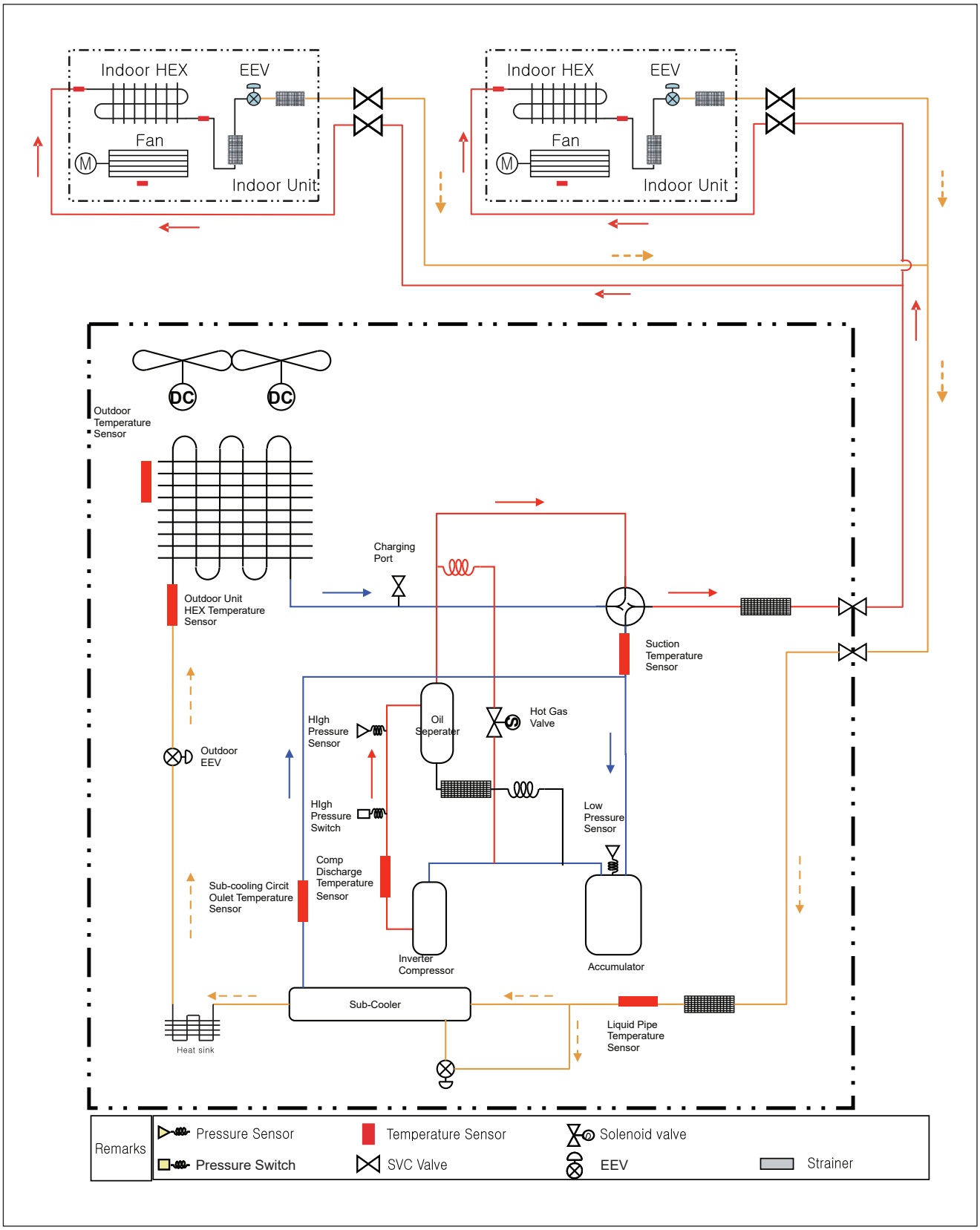
5.2 Heating Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0



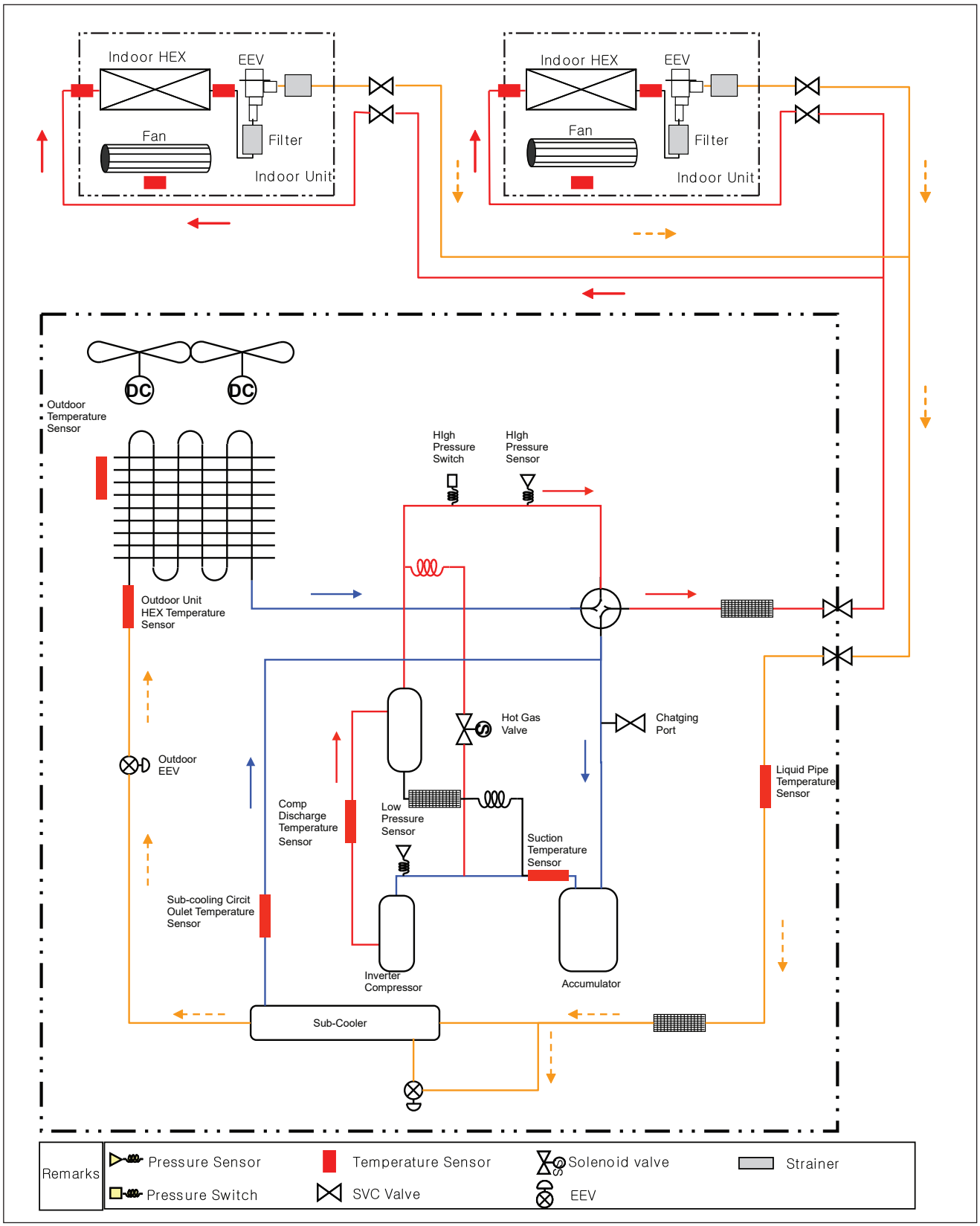
5. Piping Diagrams

ZRUN080LSS0



5. Piping Diagrams

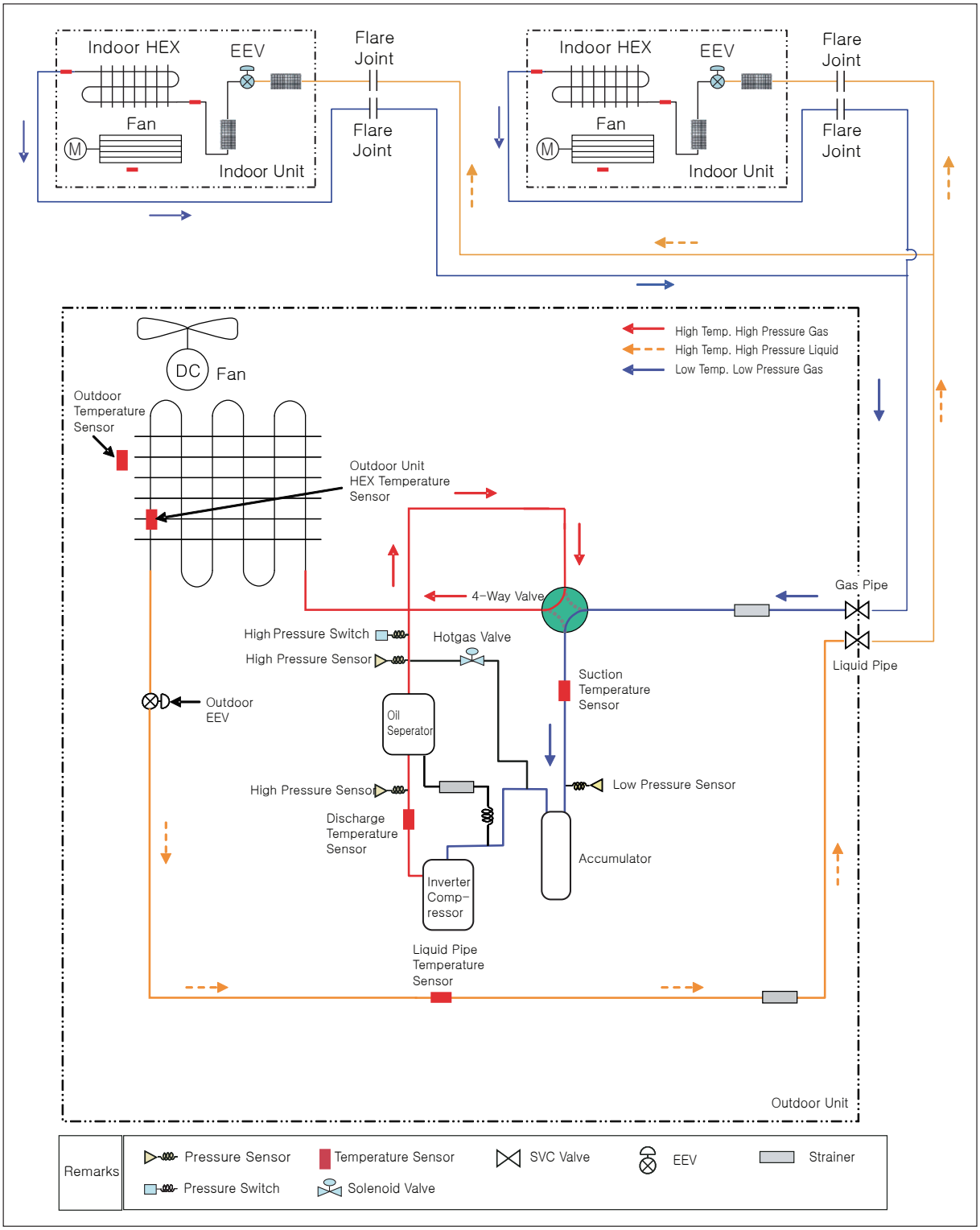
ZRUN100LSS0, ZRUN120LSS0



5. Piping Diagrams

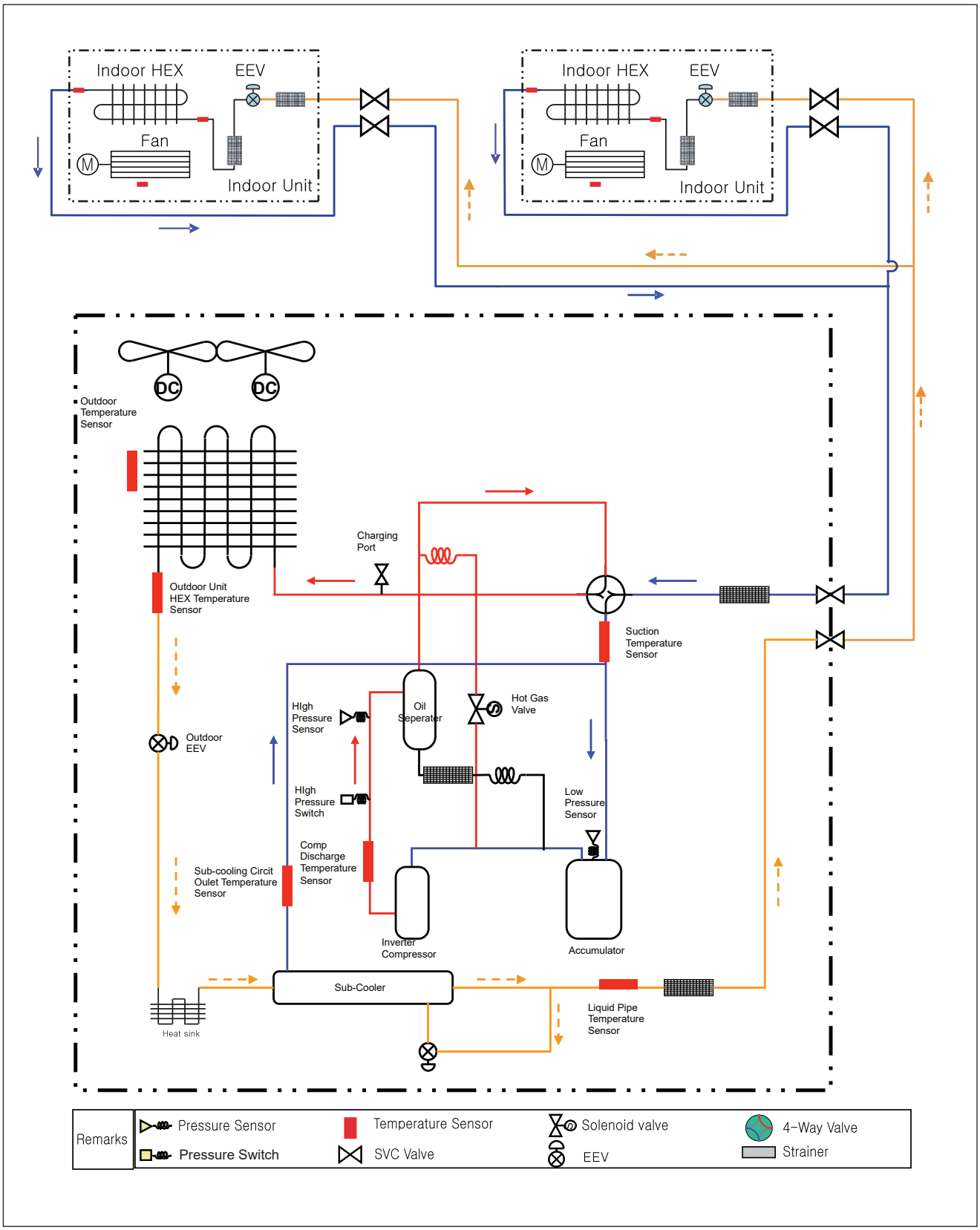
5.3 Defrost / Oil Return

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0



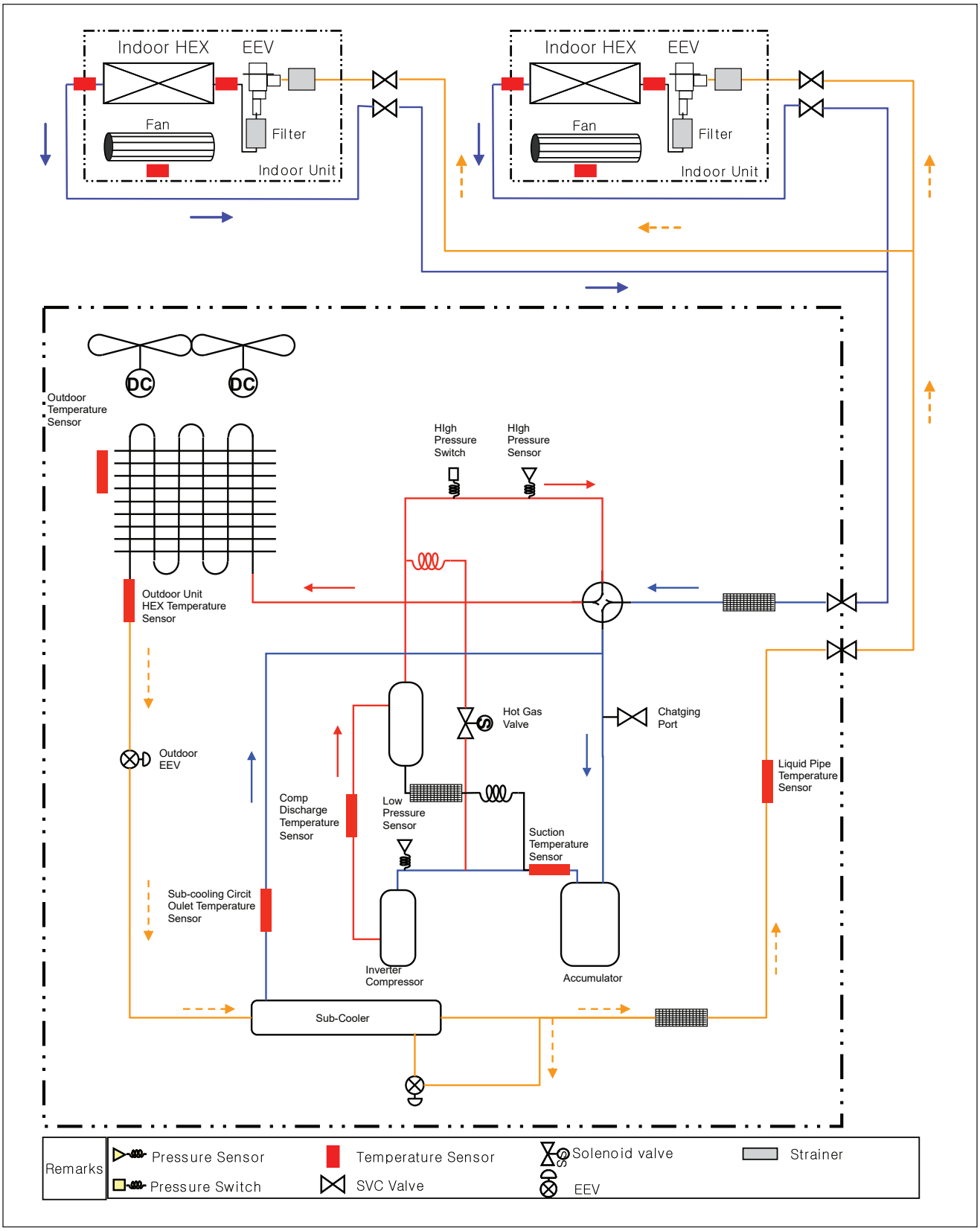
5. Piping Diagrams

ZRUN080LSS0



5. Piping Diagrams

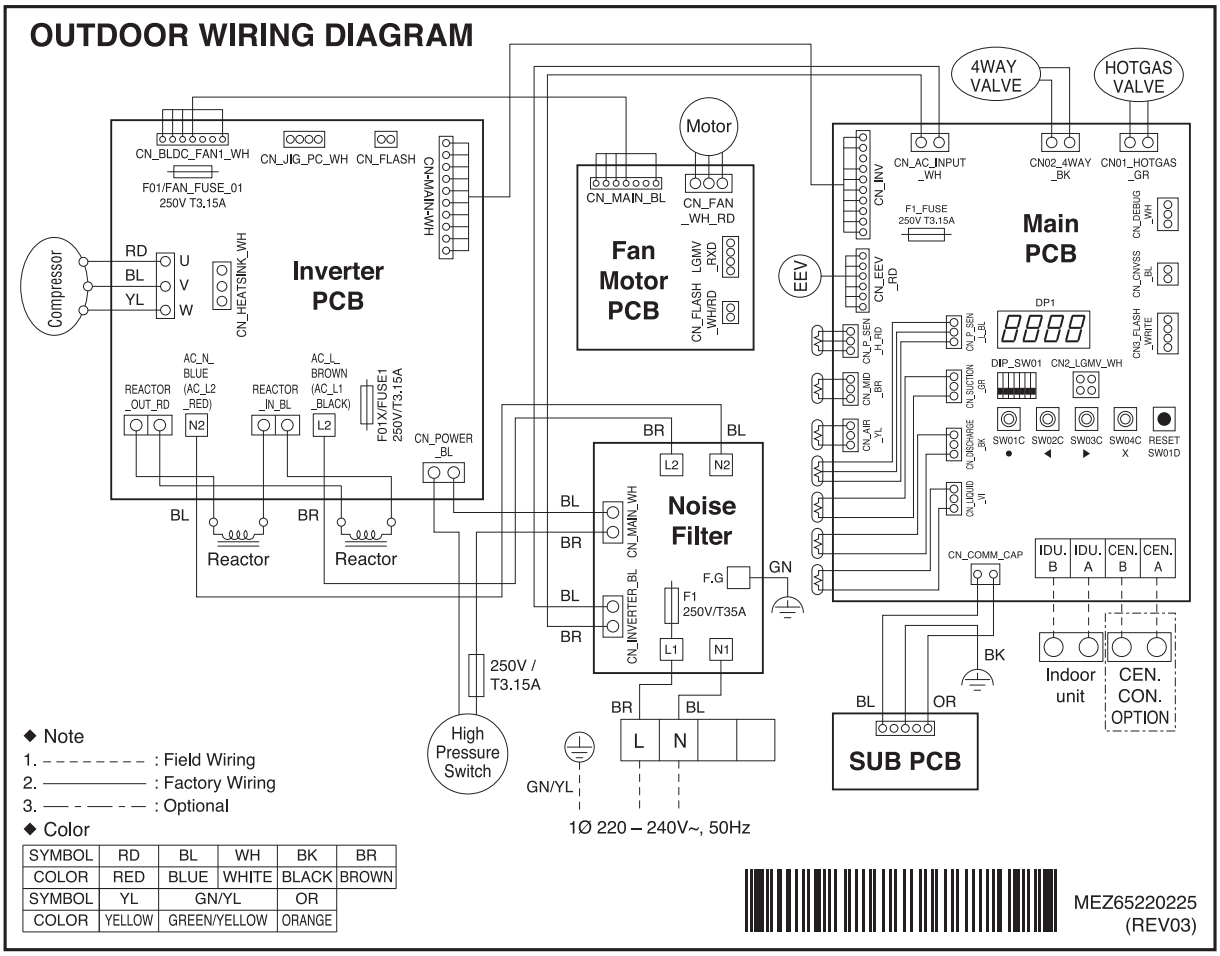
ZRUN100LSS0, ZRUN120LSS0



6. Wiring Diagrams

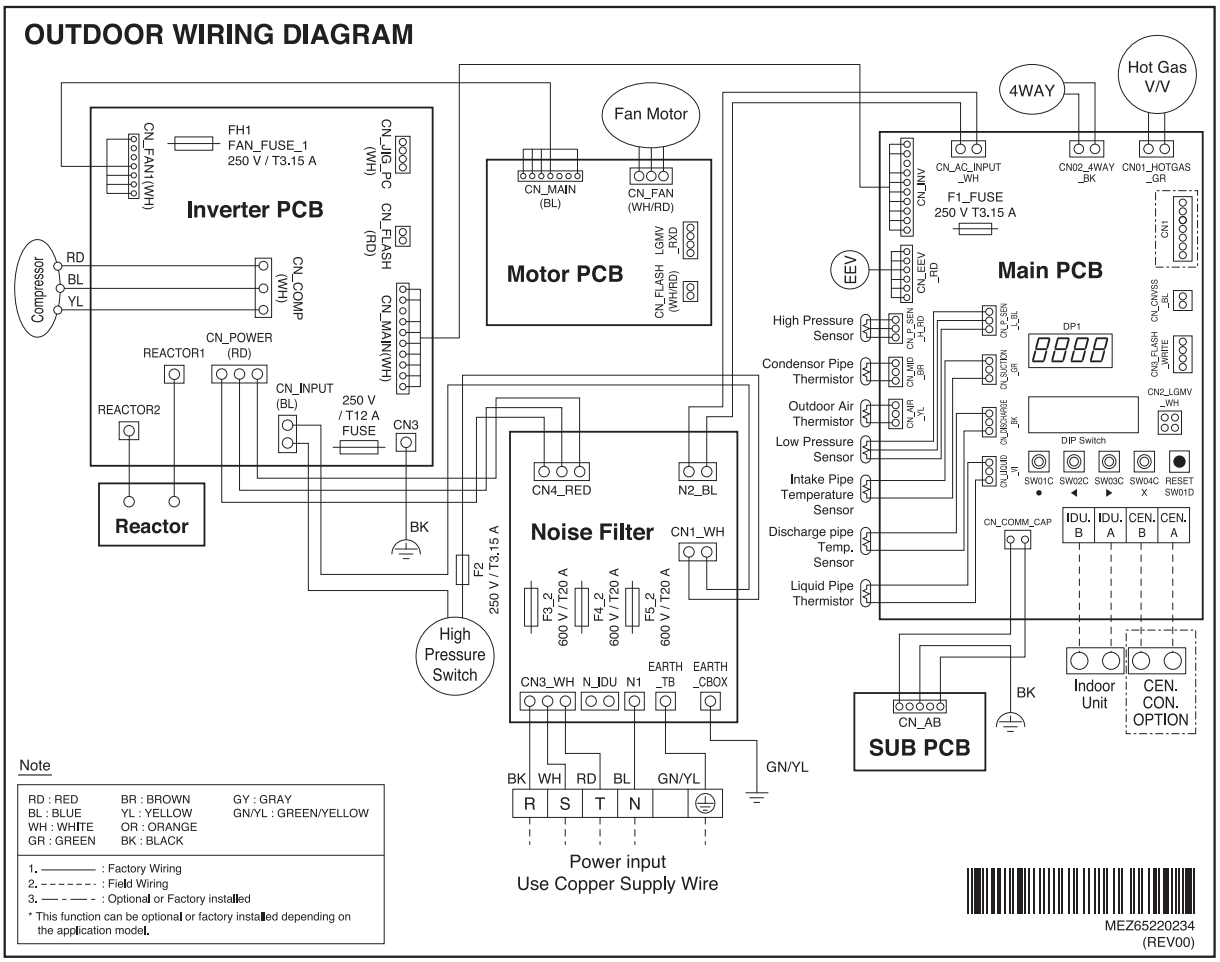
6.1 Product

ZRUN030GSS0, ZRUN040GSS0, ZRUN050GSS0, ZRUN060GSS0



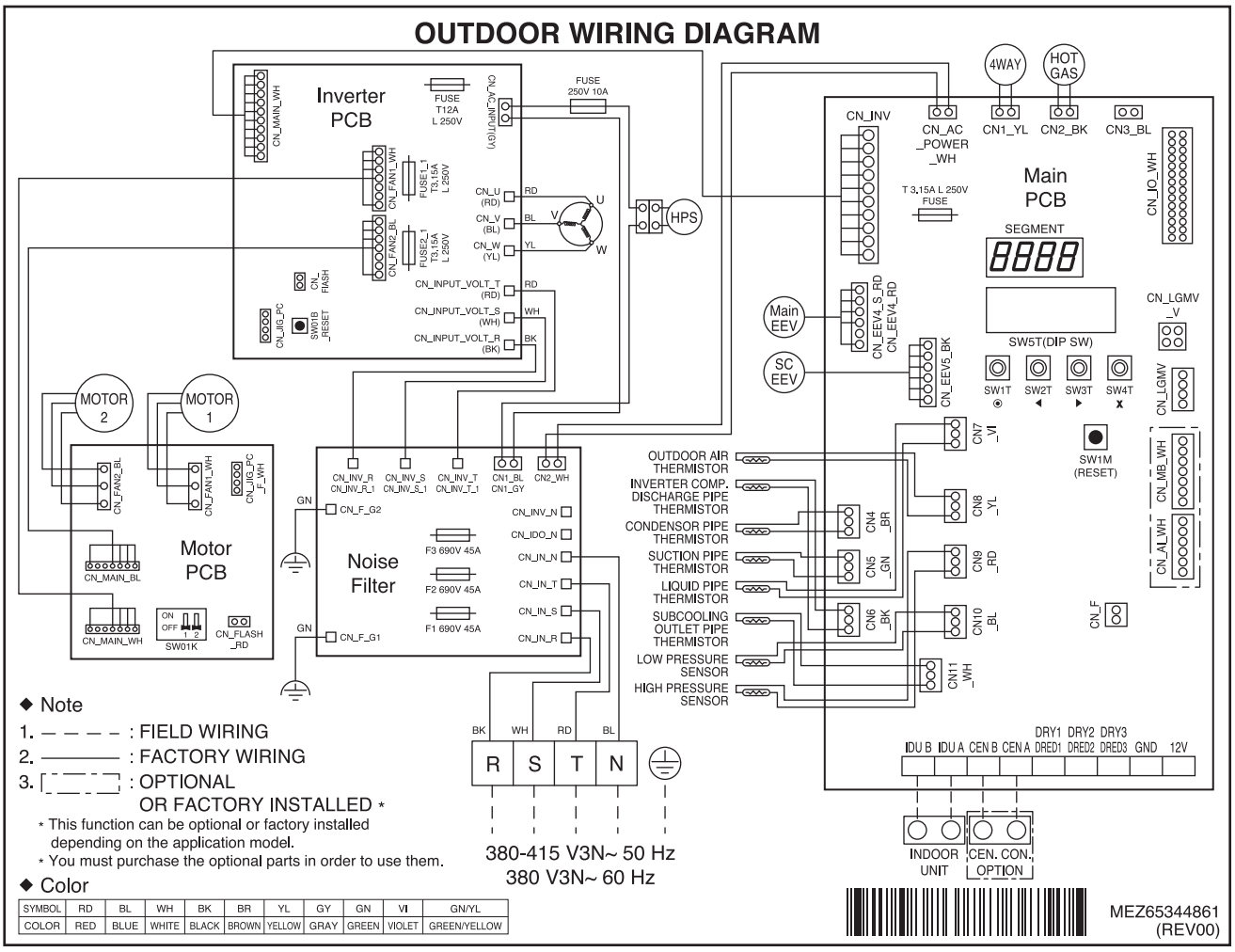
6. Wiring Diagrams

ZRUN030LSS0, ZRUN040LSS0, ZRUN050LSS0, ZRUN060LSS0



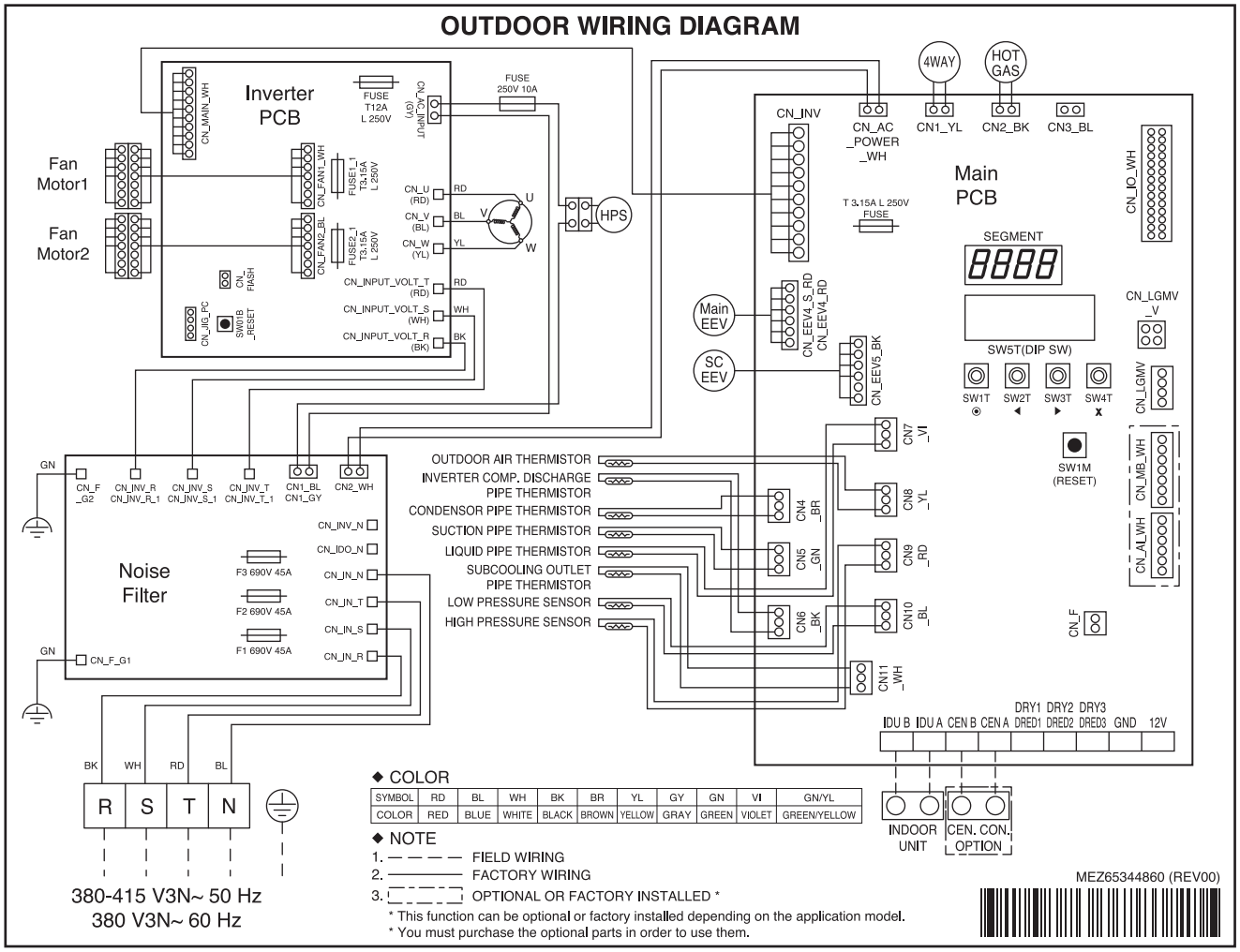
6. Wiring Diagrams

ZRUN080LSS0



6. Wiring Diagrams

ZRUN100LSS0, ZRUN120LSS0



7. Capacity Tables

7.1 Cooling Operation (Standard)

ZRUN030GSS0, ZRUN030LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	8.20	1.19	9.80	1.46	11.40	1.69	11.80	1.72	11.90	1.74	12.20	1.75	12.50	1.76
	12	8.20	1.22	9.80	1.51	11.40	1.76	11.60	1.77	11.80	1.81	12.10	1.82	12.40	1.83
	14	8.20	1.26	9.80	1.56	11.30	1.83	11.50	1.84	11.60	1.87	11.90	1.89	12.20	1.90
	16	8.20	1.31	9.80	1.62	11.20	1.91	11.30	1.93	11.50	1.94	11.80	1.96	12.10	1.97
	18	8.20	1.36	9.80	1.71	11.00	2.01	11.20	2.03	11.30	2.04	11.60	2.05	11.90	2.06
	20	8.20	1.42	9.80	1.82	10.90	2.11	11.10	2.13	11.20	2.14	11.50	2.15	11.80	2.16
	21	8.20	1.46	9.80	1.89	10.80	2.15	11.00	2.18	11.10	2.19	11.40	2.20	11.70	2.21
	23	8.20	1.57	9.80	2.03	10.70	2.25	10.80	2.27	11.00	2.29	11.20	2.30	11.50	2.31
	25	8.20	1.67	9.80	2.16	10.50	2.35	10.70	2.37	10.80	2.39	11.10	2.40	11.40	2.41
	27	8.20	1.79	9.80	2.31	10.40	2.45	10.50	2.47	10.70	2.49	11.00	2.50	11.20	2.51
	29	8.20	1.91	9.80	2.47	10.20	2.55	10.40	2.57	10.50	2.59	10.80	2.60	11.10	2.61
	31	8.20	2.04	9.80	2.61	10.00	2.65	10.20	2.67	10.40	2.68	10.60	2.70	10.90	2.71
	33	8.20	2.17	9.60	2.71	9.90	2.75	10.10	2.77	10.20	2.78	10.50	2.80	10.80	2.81
	35	8.20	2.31	9.40	2.80	9.70	2.85	9.90	2.87	10.10	2.88	10.30	2.90	10.60	2.92
	37	8.20	2.40	9.30	2.86	9.60	2.91	9.70	2.93	9.90	2.94	10.20	2.95	10.50	2.97
	39	8.20	2.48	9.10	2.91	9.40	2.97	9.60	2.99	9.70	3.00	10.00	3.01	10.30	3.03
	41	7.90	2.80	8.70	3.25	9.00	3.31	9.10	3.34	9.30	3.35	9.60	3.36	9.80	3.38
	43	7.80	2.97	8.40	3.41	8.70	3.47	8.80	3.49	9.00	3.50	9.30	3.51	9.50	3.54
	46	7.30	3.16	7.70	3.56	7.90	3.63	8.10	3.65	8.20	3.66	8.50	3.67	8.70	3.70
	48	6.50	2.72	6.60	3.04	6.90	3.09	7.00	3.10	7.20	3.11	7.40	3.12	7.60	3.14
120	10	7.60	1.07	9.00	1.31	10.50	1.56	11.30	1.69	11.80	1.72	12.10	1.72	12.30	1.73
	12	7.60	1.10	9.00	1.36	10.50	1.63	11.30	1.72	11.60	1.78	11.90	1.80	12.20	1.81
	14	7.60	1.14	9.00	1.41	10.50	1.69	11.30	1.79	11.50	1.84	11.80	1.87	12.00	1.89
	16	7.60	1.18	9.00	1.46	10.50	1.76	11.20	1.88	11.30	1.93	11.60	1.94	11.90	1.96
	18	7.60	1.23	9.00	1.53	10.50	1.86	11.00	1.99	11.20	2.03	11.40	2.04	11.70	2.04
	20	7.60	1.27	9.00	1.62	10.50	1.98	10.90	2.11	11.00	2.13	11.30	2.14	11.60	2.14
	21	7.60	1.31	9.00	1.68	10.50	2.06	10.80	2.15	10.90	2.18	11.20	2.19	11.50	2.19
	23	7.60	1.40	9.00	1.80	10.50	2.19	10.70	2.25	10.80	2.28	11.10	2.28	11.30	2.29
	25	7.60	1.50	9.00	1.92	10.40	2.31	10.50	2.35	10.60	2.37	10.90	2.38	11.20	2.39
	27	7.60	1.60	9.00	2.06	10.20	2.43	10.40	2.45	10.50	2.47	10.80	2.48	11.00	2.49
	29	7.60	1.71	9.00	2.20	10.10	2.53	10.20	2.55	10.30	2.57	10.60	2.58	10.90	2.59
	31	7.60	1.82	9.00	2.35	9.90	2.63	10.10	2.64	10.20	2.67	10.50	2.68	10.70	2.69
	33	7.60	1.94	9.00	2.50	9.80	2.73	9.90	2.75	10.00	2.77	10.30	2.78	10.60	2.79
	35	7.60	2.06	9.00	2.67	9.60	2.84	9.70	2.85	9.90	2.87	10.20	2.88	10.40	2.89
	37	7.60	2.15	9.00	2.73	9.50	2.88	9.60	2.90	9.70	2.91	10.00	2.93	10.30	2.94
	39	7.60	2.24	9.00	2.80	9.30	2.94	9.40	2.96	9.60	2.96	9.90	2.98	10.10	2.99
	41	7.30	2.55	8.50	3.13	8.80	3.27	9.00	3.29	9.10	3.30	9.30	3.32	9.60	3.33
	43	7.20	2.72	8.30	3.29	8.50	3.41	8.70	3.44	8.80	3.45	9.10	3.47	9.30	3.48
	46	6.80	2.93	7.50	3.46	7.80	3.56	7.90	3.59	8.00	3.61	8.30	3.62	8.50	3.63
	48	6.00	2.54	6.50	2.96	6.80	3.03	6.90	3.05	7.00	3.06	7.20	3.07	7.40	3.08
110	10	7.00	0.96	8.30	1.18	9.60	1.40	10.30	1.51	11.00	1.63	11.80	1.69	12.10	1.70
	12	7.00	0.99	8.30	1.22	9.60	1.45	10.30	1.55	11.00	1.69	11.70	1.76	11.90	1.78
	14	7.00	1.03	8.30	1.27	9.60	1.52	10.30	1.63	11.00	1.77	11.50	1.82	11.80	1.86
	16	7.00	1.06	8.30	1.32	9.60	1.58	10.30	1.70	11.00	1.88	11.40	1.93	11.60	1.94
	18	7.00	1.10	8.30	1.37	9.60	1.67	10.30	1.82	11.00	1.99	11.20	2.02	11.50	2.03
	20	7.00	1.14	8.30	1.44	9.60	1.78	10.30	1.93	10.80	2.10	11.10	2.12	11.30	2.13
	21	7.00	1.17	8.30	1.48	9.60	1.84	10.30	2.00	10.70	2.15	11.00	2.17	11.20	2.18
	23	7.00	1.24	8.30	1.59	9.60	1.97	10.30	2.12	10.60	2.25	10.80	2.27	11.10	2.28

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	25	7.00	1.33	8.30	1.70	9.60	2.11	10.30	2.25	10.40	2.35	10.70	2.37	10.90	2.38
	27	7.00	1.42	8.30	1.81	9.60	2.26	10.10	2.38	10.30	2.46	10.50	2.47	10.80	2.48
	29	7.00	1.51	8.30	1.94	9.60	2.41	10.00	2.48	10.10	2.56	10.40	2.57	10.60	2.58
	31	7.00	1.61	8.30	2.06	9.60	2.58	9.80	2.59	10.00	2.65	10.20	2.67	10.50	2.68
	33	7.00	1.72	8.30	2.20	9.60	2.72	9.70	2.70	9.80	2.75	10.10	2.76	10.30	2.78
	35	7.00	1.82	8.30	2.35	9.40	2.82	9.50	2.83	9.70	2.85	9.90	2.86	10.20	2.87
	37	7.00	1.89	8.30	2.42	9.30	2.87	9.40	2.87	9.50	2.89	9.80	2.91	10.00	2.92
	39	7.00	1.97	8.30	2.49	9.10	2.91	9.20	2.92	9.40	2.94	9.60	2.96	9.90	2.96
	41	6.70	2.23	8.00	2.80	8.60	3.24	8.80	3.24	8.90	3.27	9.10	3.29	9.40	3.30
	43	6.60	2.38	7.90	2.96	8.40	3.38	8.50	3.38	8.60	3.41	8.90	3.43	9.10	3.44
	46	6.20	2.55	7.40	3.13	7.60	3.51	7.80	3.53	7.90	3.54	8.10	3.56	8.30	3.57
	48	5.50	2.20	6.40	2.69	6.60	2.98	6.70	3.00	6.80	3.01	7.00	3.02	7.20	3.03
100	10	6.10	0.87	7.20	1.06	8.40	1.25	9.00	1.35	9.60	1.45	10.80	1.62	11.80	1.63
	12	6.10	0.90	7.20	1.10	8.40	1.29	9.00	1.39	9.60	1.50	10.80	1.71	11.70	1.72
	14	6.10	0.92	7.20	1.14	8.40	1.35	9.00	1.45	9.60	1.57	10.80	1.80	11.50	1.82
	16	6.10	0.95	7.20	1.18	8.40	1.41	9.00	1.52	9.60	1.65	10.80	1.89	11.40	1.91
	18	6.10	0.98	7.20	1.22	8.40	1.46	9.00	1.59	9.60	1.75	10.80	1.99	11.20	2.01
	20	6.10	1.02	7.20	1.27	8.40	1.55	9.00	1.71	9.60	1.87	10.80	2.09	11.10	2.11
	21	6.10	1.04	7.20	1.30	8.40	1.60	9.00	1.76	9.60	1.94	10.80	2.14	11.00	2.16
	23	6.10	1.10	7.20	1.39	8.40	1.72	9.00	1.89	9.60	2.08	10.60	2.24	10.90	2.26
	25	6.10	1.17	7.20	1.48	8.40	1.83	9.00	2.03	9.60	2.22	10.50	2.33	10.70	2.35
	27	6.10	1.25	7.20	1.58	8.40	1.96	9.00	2.16	9.60	2.36	10.30	2.44	10.50	2.46
	29	6.10	1.33	7.20	1.69	8.40	2.10	9.00	2.31	9.60	2.50	10.20	2.54	10.40	2.56
	31	6.10	1.42	7.20	1.80	8.40	2.23	9.00	2.47	9.60	2.63	10.00	2.64	10.20	2.66
	33	6.10	1.50	7.20	1.92	8.40	2.38	9.00	2.63	9.60	2.73	9.90	2.74	10.10	2.76
	35	6.10	1.60	7.20	2.04	8.40	2.54	9.00	2.81	9.40	2.83	9.70	2.84	9.90	2.86
	37	6.10	1.66	7.20	2.13	8.40	2.61	9.00	2.86	9.30	2.87	9.50	2.88	9.80	2.91
	39	6.10	1.73	7.20	2.21	8.40	2.68	9.00	2.90	9.10	2.92	9.40	2.93	9.60	2.96
	41	5.90	1.96	7.00	2.52	8.10	3.01	8.60	3.23	8.70	3.24	8.70	3.26	9.10	3.29
	43	5.80	2.09	6.90	2.68	8.00	3.17	8.30	3.37	8.40	3.38	8.60	3.40	8.90	3.43
	46	5.40	2.23	6.40	2.87	7.50	3.34	7.60	3.51	7.60	3.52	7.90	3.53	8.10	3.57
	48	4.80	1.93	5.70	2.49	6.50	2.86	6.60	2.98	6.60	2.99	6.90	3.00	7.00	3.02
90	10	5.50	0.78	6.50	0.94	7.60	1.10	8.10	1.19	8.60	1.28	9.70	1.43	10.70	1.59
	12	5.50	0.79	6.50	0.95	7.60	1.12	8.10	1.21	8.60	1.31	9.70	1.46	10.70	1.62
	14	5.50	0.80	6.50	0.97	7.60	1.15	8.10	1.24	8.60	1.33	9.70	1.49	10.70	1.66
	16	5.50	0.82	6.50	0.99	7.60	1.17	8.10	1.26	8.60	1.36	9.70	1.52	10.70	1.68
	18	5.50	0.83	6.50	1.01	7.60	1.19	8.10	1.29	8.60	1.39	9.70	1.55	10.70	1.77
	20	5.50	0.85	6.50	1.03	7.60	1.21	8.10	1.31	8.60	1.44	9.70	1.66	10.70	1.85
	21	5.50	0.86	6.50	1.04	7.60	1.24	8.10	1.36	8.60	1.49	9.70	1.72	10.70	1.90
	23	5.50	0.87	6.50	1.08	7.60	1.32	8.10	1.46	8.60	1.60	9.70	1.85	10.60	1.98
	25	5.50	0.92	6.50	1.15	7.60	1.41	8.10	1.56	8.60	1.71	9.70	1.97	10.40	2.07
	27	5.50	0.98	6.50	1.23	7.60	1.51	8.10	1.66	8.60	1.83	9.70	2.10	10.30	2.17
	29	5.50	1.04	6.50	1.31	7.60	1.62	8.10	1.78	8.60	1.95	9.70	2.25	10.10	2.25
	31	5.50	1.10	6.50	1.40	7.60	1.72	8.10	1.89	8.60	2.08	9.70	2.33	10.00	2.34
	33	5.50	1.18	6.50	1.49	7.60	1.84	8.10	2.02	8.60	2.21	9.70	2.42	9.80	2.43
	35	5.50	1.25	6.50	1.58	7.60	1.95	8.10	2.15	8.60	2.34	9.50	2.51	9.70	2.52
	37	5.50	1.32	6.50	1.68	7.60	2.08	8.10	2.28	8.60	2.47	9.40	2.60	9.50	2.60
	39	5.50	1.40	6.50	1.78	7.60	2.20	8.10	2.41	8.60	2.60	9.20	2.68	9.40	2.69
	41	5.30	1.62	6.30	2.06	7.30	2.54	7.80	2.77	8.30	2.95	8.70	3.03	8.90	3.04
	43	5.20	1.75	6.20	2.23	7.20	2.75	7.70	2.98	8.20	3.13	8.50	3.22	8.60	3.22
	46	4.90	1.91	5.80	2.43	6.80	3.01	7.20	3.25	7.40	3.34	7.70	3.42	7.90	3.43

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	48	4.30	1.67	5.10	2.13	6.00	2.63	6.40	2.83	6.50	2.88	6.70	2.95	6.80	2.95
80	10	4.90	0.68	5.80	0.82	6.70	0.96	7.20	1.04	7.70	1.11	8.60	1.27	9.50	1.38
	12	4.90	0.69	5.80	0.83	6.70	0.98	7.20	1.05	7.70	1.13	8.60	1.29	9.50	1.40
	14	4.90	0.70	5.80	0.85	6.70	0.99	7.20	1.07	7.70	1.15	8.60	1.31	9.50	1.43
	16	4.90	0.71	5.80	0.86	6.70	1.01	7.20	1.09	7.70	1.17	8.60	1.34	9.50	1.46
	18	4.90	0.73	5.80	0.87	6.70	1.03	7.20	1.11	7.70	1.20	8.60	1.37	9.50	1.49
	20	4.90	0.74	5.80	0.89	6.70	1.05	7.20	1.13	7.70	1.22	8.60	1.42	9.50	1.59
	21	4.90	0.75	5.80	0.90	6.70	1.06	7.20	1.15	7.70	1.25	8.60	1.46	9.50	1.65
	23	4.90	0.76	5.80	0.92	6.70	1.11	7.20	1.22	7.70	1.33	8.60	1.54	9.50	1.77
	25	4.90	0.79	5.80	0.98	6.70	1.19	7.20	1.30	7.70	1.43	8.60	1.65	9.50	1.89
	27	4.90	0.84	5.80	1.04	6.70	1.27	7.20	1.39	7.70	1.52	8.60	1.76	9.50	2.01
	29	4.90	0.89	5.80	1.11	6.70	1.35	7.20	1.48	7.70	1.63	8.60	1.88	9.50	2.15
	31	4.90	0.95	5.80	1.18	6.70	1.44	7.20	1.58	7.70	1.73	8.60	2.00	9.50	2.24
	33	4.90	1.00	5.80	1.26	6.70	1.54	7.20	1.69	7.70	1.84	8.60	2.10	9.50	2.32
	35	4.90	1.06	5.80	1.33	6.70	1.64	7.20	1.80	7.70	1.97	8.60	2.23	9.40	2.41
	37	4.90	1.13	5.80	1.42	6.70	1.73	7.20	1.91	7.70	2.09	8.60	2.35	9.30	2.49
	39	4.90	1.19	5.80	1.50	6.70	1.84	7.20	2.01	7.70	2.22	8.60	2.46	9.10	2.58
	41	4.70	1.37	5.60	1.73	6.50	2.12	6.90	2.32	7.40	2.57	8.30	2.83	8.70	2.91
	43	4.60	1.48	5.50	1.87	6.40	2.29	6.80	2.50	7.30	2.78	8.20	3.02	8.40	3.09
	46	4.30	1.61	5.20	2.04	6.00	2.51	6.40	2.73	6.80	3.04	7.50	3.23	7.70	3.29
	48	3.80	1.41	4.60	1.78	5.30	2.19	5.70	2.38	6.10	2.66	6.50	2.80	6.70	2.83
70	10	4.20	0.56	5.10	0.67	5.90	0.77	6.30	0.84	6.70	0.89	7.50	1.02	8.40	1.14
	12	4.20	0.57	5.10	0.68	5.90	0.79	6.30	0.85	6.70	0.91	7.50	1.04	8.40	1.16
	14	4.20	0.58	5.10	0.69	5.90	0.81	6.30	0.86	6.70	0.92	7.50	1.06	8.40	1.18
	16	4.20	0.59	5.10	0.70	5.90	0.82	6.30	0.88	6.70	0.94	7.50	1.07	8.40	1.21
	18	4.20	0.60	5.10	0.71	5.90	0.84	6.30	0.90	6.70	0.96	7.50	1.09	8.40	1.23
	20	4.20	0.61	5.10	0.73	5.90	0.85	6.30	0.92	6.70	0.98	7.50	1.12	8.40	1.27
	21	4.20	0.61	5.10	0.73	5.90	0.86	6.30	0.92	6.70	0.99	7.50	1.14	8.40	1.31
	23	4.20	0.62	5.10	0.75	5.90	0.88	6.30	0.96	6.70	1.04	7.50	1.22	8.40	1.39
	25	4.20	0.63	5.10	0.77	5.90	0.93	6.30	1.02	6.70	1.11	7.50	1.30	8.40	1.48
	27	4.20	0.67	5.10	0.83	5.90	1.00	6.30	1.08	6.70	1.19	7.50	1.39	8.40	1.58
	29	4.20	0.71	5.10	0.88	5.90	1.06	6.30	1.15	6.70	1.26	7.50	1.48	8.40	1.69
	31	4.20	0.76	5.10	0.93	5.90	1.13	6.30	1.23	6.70	1.34	7.50	1.58	8.40	1.79
	33	4.20	0.80	5.10	0.99	5.90	1.20	6.30	1.31	6.70	1.43	7.50	1.68	8.40	1.89
	35	4.20	0.84	5.10	1.05	5.90	1.27	6.30	1.39	6.70	1.52	7.50	1.79	8.40	2.00
	37	4.20	0.90	5.10	1.12	5.90	1.35	6.30	1.48	6.70	1.62	7.50	1.91	8.40	2.12
	39	4.20	0.94	5.10	1.18	5.90	1.43	6.30	1.56	6.70	1.71	7.50	2.02	8.40	2.21
	41	4.10	1.09	4.90	1.36	5.70	1.65	6.10	1.80	6.50	1.98	7.30	2.33	8.10	2.54
	43	4.00	1.17	4.80	1.46	5.60	1.79	6.00	1.95	6.40	2.14	7.10	2.52	7.90	2.72
	46	3.80	1.28	4.50	1.60	5.20	1.95	5.60	2.12	6.00	2.34	6.70	2.76	7.40	2.91
	48	3.30	1.11	4.00	1.39	4.60	1.71	5.00	1.86	5.30	2.05	5.90	2.42	6.60	2.51
60	10	3.60	0.45	4.30	0.53	5.00	0.62	5.40	0.66	5.80	0.70	6.50	0.80	7.20	0.89
	12	3.60	0.46	4.30	0.54	5.00	0.63	5.40	0.67	5.80	0.72	6.50	0.81	7.20	0.91
	14	3.60	0.47	4.30	0.55	5.00	0.64	5.40	0.68	5.80	0.73	6.50	0.83	7.20	0.93
	16	3.60	0.47	4.30	0.56	5.00	0.65	5.40	0.70	5.80	0.75	6.50	0.84	7.20	0.94
	18	3.60	0.48	4.30	0.57	5.00	0.66	5.40	0.71	5.80	0.76	6.50	0.86	7.20	0.96
	20	3.60	0.49	4.30	0.58	5.00	0.67	5.40	0.72	5.80	0.77	6.50	0.87	7.20	0.98
	21	3.60	0.49	4.30	0.58	5.00	0.68	5.40	0.73	5.80	0.78	6.50	0.89	7.20	0.99
	23	3.60	0.50	4.30	0.59	5.00	0.69	5.40	0.74	5.80	0.80	6.50	0.92	7.20	1.05
	25	3.60	0.51	4.30	0.61	5.00	0.72	5.40	0.78	5.80	0.84	6.50	0.98	7.20	1.13
	27	3.60	0.53	4.30	0.64	5.00	0.76	5.40	0.83	5.80	0.90	6.50	1.04	7.20	1.20

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	29	3.60	0.56	4.30	0.68	5.00	0.81	5.40	0.88	5.80	0.96	6.50	1.11	7.20	1.29
	31	3.60	0.59	4.30	0.72	5.00	0.86	5.40	0.94	5.80	1.02	6.50	1.19	7.20	1.37
	33	3.60	0.63	4.30	0.76	5.00	0.91	5.40	1.00	5.80	1.08	6.50	1.26	7.20	1.46
	35	3.60	0.66	4.30	0.81	5.00	0.97	5.40	1.06	5.80	1.15	6.50	1.34	7.20	1.55
	37	3.60	0.70	4.30	0.86	5.00	1.03	5.40	1.12	5.80	1.22	6.50	1.43	7.20	1.65
	39	3.60	0.74	4.30	0.90	5.00	1.09	5.40	1.19	5.80	1.29	6.50	1.51	7.20	1.75
	41	3.50	0.84	4.20	1.04	4.90	1.26	5.20	1.37	5.60	1.48	6.20	1.75	6.90	2.02
	43	3.50	0.90	4.10	1.12	4.80	1.36	5.10	1.48	5.50	1.60	6.10	1.89	6.80	2.18
	46	3.20	0.98	3.90	1.22	4.50	1.48	4.80	1.61	5.10	1.75	5.80	2.06	6.40	2.39
	48	2.90	0.86	3.40	1.06	4.00	1.29	4.30	1.41	4.50	1.53	5.10	1.80	5.60	2.09
50	10	3.00	0.36	3.60	0.42	4.20	0.48	4.50	0.51	4.80	0.54	5.40	0.61	6.00	0.68
	12	3.00	0.37	3.60	0.42	4.20	0.48	4.50	0.52	4.80	0.55	5.40	0.62	6.00	0.69
	14	3.00	0.37	3.60	0.43	4.20	0.49	4.50	0.53	4.80	0.56	5.40	0.63	6.00	0.70
	16	3.00	0.38	3.60	0.44	4.20	0.50	4.50	0.54	4.80	0.57	5.40	0.64	6.00	0.71
	18	3.00	0.38	3.60	0.44	4.20	0.51	4.50	0.55	4.80	0.58	5.40	0.65	6.00	0.73
	20	3.00	0.39	3.60	0.45	4.20	0.52	4.50	0.55	4.80	0.59	5.40	0.66	6.00	0.74
	21	3.00	0.39	3.60	0.45	4.20	0.52	4.50	0.56	4.80	0.60	5.40	0.67	6.00	0.75
	23	3.00	0.40	3.60	0.46	4.20	0.53	4.50	0.57	4.80	0.61	5.40	0.68	6.00	0.77
	25	3.00	0.40	3.60	0.47	4.20	0.54	4.50	0.58	4.80	0.63	5.40	0.72	6.00	0.82
	27	3.00	0.41	3.60	0.48	4.20	0.57	4.50	0.62	4.80	0.66	5.40	0.77	6.00	0.87
	29	3.00	0.43	3.60	0.52	4.20	0.61	4.50	0.66	4.80	0.71	5.40	0.81	6.00	0.93
	31	3.00	0.45	3.60	0.55	4.20	0.64	4.50	0.69	4.80	0.75	5.40	0.87	6.00	0.99
	33	3.00	0.48	3.60	0.58	4.20	0.68	4.50	0.74	4.80	0.80	5.40	0.92	6.00	1.05
	35	3.00	0.51	3.60	0.61	4.20	0.72	4.50	0.78	4.80	0.84	5.40	0.97	6.00	1.12
	37	3.00	0.54	3.60	0.64	4.20	0.76	4.50	0.83	4.80	0.89	5.40	1.04	6.00	1.19
	39	3.00	0.56	3.60	0.68	4.20	0.81	4.50	0.87	4.80	0.94	5.40	1.09	6.00	1.26
	41	2.90	0.65	3.50	0.78	4.10	0.93	4.30	1.01	4.60	1.08	5.20	1.26	5.80	1.45
	43	2.90	0.70	3.50	0.84	4.00	1.00	4.30	1.08	4.60	1.17	5.10	1.36	5.70	1.57
	46	2.70	0.76	3.20	0.91	3.80	1.09	4.00	1.18	4.30	1.27	4.80	1.49	5.30	1.71
	48	2.40	0.66	2.90	0.80	3.30	0.95	3.50	1.03	3.80	1.11	4.20	1.30	4.70	1.49

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN040GSS0, ZRUN040LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	11.10	1.81	13.20	2.21	15.30	2.56	15.90	2.61	16.10	2.64	16.50	2.66	16.90	2.67
	12	11.10	1.85	13.20	2.29	15.30	2.67	15.60	2.68	15.90	2.74	16.20	2.76	16.60	2.78
	14	11.10	1.91	13.20	2.37	15.20	2.77	15.50	2.79	15.60	2.84	16.10	2.86	16.50	2.88
	16	11.10	1.98	13.20	2.45	15.10	2.89	15.20	2.92	15.40	2.94	15.80	2.97	16.20	2.99
	18	11.10	2.07	13.20	2.59	14.80	3.05	15.00	3.07	15.20	3.09	15.60	3.11	16.10	3.12
	20	11.10	2.16	13.20	2.76	14.60	3.19	14.90	3.22	15.00	3.24	15.40	3.26	15.80	3.28
	21	11.10	2.21	13.20	2.86	14.50	3.27	14.70	3.30	14.90	3.32	15.30	3.33	15.70	3.35
	23	11.10	2.38	13.20	3.07	14.30	3.41	14.50	3.44	14.70	3.47	15.10	3.48	15.50	3.51
	25	11.10	2.54	13.20	3.28	14.10	3.56	14.40	3.59	14.50	3.62	14.90	3.64	15.30	3.66
	27	11.10	2.72	13.20	3.51	13.90	3.71	14.10	3.74	14.40	3.77	14.70	3.79	15.10	3.81
	29	11.10	2.89	13.20	3.75	13.70	3.87	13.90	3.89	14.10	3.92	14.50	3.94	14.90	3.96
	31	11.10	3.09	13.10	3.95	13.50	4.02	13.70	4.05	13.90	4.07	14.30	4.09	14.70	4.11
	33	11.10	3.29	12.90	4.10	13.30	4.17	13.50	4.20	13.70	4.22	14.10	4.24	14.50	4.27
	35	11.10	3.51	12.70	4.25	13.10	4.33	13.30	4.35	13.50	4.37	13.90	4.39	14.30	4.42
	37	11.10	3.63	12.50	4.33	12.90	4.41	13.10	4.45	13.30	4.46	13.70	4.48	14.10	4.51
	39	11.10	3.76	12.30	4.42	12.70	4.50	12.90	4.53	13.10	4.55	13.50	4.56	13.90	4.60
	41	10.70	4.25	11.70	4.93	12.00	5.02	12.20	5.06	12.50	5.07	12.80	5.09	13.20	5.13
	43	10.50	4.50	11.30	5.16	11.70	5.26	11.80	5.29	12.10	5.31	12.50	5.32	12.80	5.36
	46	9.90	4.79	10.30	5.40	10.70	5.50	10.80	5.53	11.10	5.55	11.40	5.56	11.70	5.61
	48	8.70	4.13	8.90	4.61	9.30	4.69	9.40	4.70	9.60	4.71	9.90	4.74	10.20	4.77
120	10	10.20	1.63	12.20	1.99	14.10	2.37	15.10	2.56	15.90	2.60	16.20	2.61	16.60	2.62
	12	10.20	1.67	12.20	2.06	14.10	2.46	15.10	2.61	15.60	2.70	16.00	2.73	16.40	2.74
	14	10.20	1.73	12.20	2.13	14.10	2.56	15.10	2.71	15.40	2.80	15.80	2.84	16.20	2.86
	16	10.20	1.79	12.20	2.22	14.10	2.66	15.00	2.86	15.20	2.92	15.60	2.94	16.00	2.97
	18	10.20	1.86	12.20	2.32	14.10	2.82	14.80	3.02	15.00	3.07	15.40	3.09	15.80	3.10
	20	10.20	1.93	12.20	2.46	14.10	3.01	14.60	3.19	14.80	3.22	15.20	3.24	15.50	3.25
	21	10.20	1.99	12.20	2.55	14.10	3.12	14.50	3.27	14.70	3.30	15.10	3.31	15.50	3.33
	23	10.20	2.13	12.20	2.72	14.10	3.32	14.30	3.41	14.50	3.45	14.90	3.46	15.20	3.48
	25	10.20	2.27	12.20	2.92	13.90	3.50	14.10	3.56	14.30	3.60	14.70	3.61	15.00	3.63
	27	10.20	2.43	12.20	3.12	13.70	3.68	13.90	3.71	14.10	3.75	14.50	3.76	14.80	3.78
	29	10.20	2.59	12.20	3.33	13.50	3.83	13.70	3.86	13.90	3.90	14.20	3.92	14.60	3.93
	31	10.20	2.76	12.20	3.56	13.30	3.99	13.50	4.01	13.70	4.05	14.10	4.07	14.40	4.08
	33	10.20	2.93	12.20	3.79	13.10	4.14	13.30	4.16	13.50	4.20	13.80	4.22	14.20	4.23
	35	10.20	3.12	12.20	4.04	12.90	4.30	13.10	4.32	13.30	4.35	13.70	4.37	14.00	4.38
	37	10.20	3.26	12.20	4.14	12.70	4.37	12.90	4.40	13.10	4.42	13.40	4.45	13.80	4.46
	39	10.20	3.40	12.10	4.24	12.50	4.45	12.70	4.48	12.80	4.49	13.30	4.52	13.60	4.53
	41	9.90	3.87	11.50	4.75	11.90	4.96	12.00	4.99	12.20	5.00	12.60	5.04	12.90	5.05
	43	9.70	4.13	11.10	4.99	11.50	5.18	11.70	5.22	11.80	5.23	12.20	5.26	12.50	5.27
	46	9.10	4.44	10.10	5.25	10.50	5.40	10.70	5.45	10.80	5.47	11.10	5.49	11.50	5.50
	48	8.10	3.85	8.80	4.48	9.10	4.60	9.30	4.62	9.40	4.64	9.70	4.66	10.00	4.68
110	10	9.40	1.46	11.20	1.78	13.00	2.12	13.90	2.29	14.80	2.47	15.90	2.57	16.20	2.58
	12	9.40	1.51	11.20	1.84	13.00	2.20	13.90	2.36	14.80	2.56	15.70	2.67	16.00	2.70
	14	9.40	1.55	11.20	1.93	13.00	2.30	13.90	2.47	14.80	2.69	15.50	2.76	15.80	2.82
	16	9.40	1.61	11.20	2.00	13.00	2.40	13.90	2.58	14.80	2.85	15.30	2.92	15.60	2.94
	18	9.40	1.67	11.20	2.08	13.00	2.54	13.90	2.75	14.80	3.02	15.10	3.07	15.40	3.08
	20	9.40	1.73	11.20	2.18	13.00	2.69	13.90	2.93	14.50	3.18	14.90	3.22	15.20	3.23
	21	9.40	1.77	11.20	2.25	13.00	2.79	13.90	3.04	14.40	3.26	14.80	3.29	15.10	3.31
	23	9.40	1.88	11.20	2.41	13.00	2.99	13.90	3.22	14.20	3.41	14.60	3.44	14.90	3.46
	25	9.40	2.01	11.20	2.57	13.00	3.20	13.90	3.41	14.00	3.56	14.40	3.59	14.70	3.61
	27	9.40	2.15	11.20	2.75	13.00	3.43	13.60	3.60	13.80	3.72	14.20	3.74	14.50	3.76

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	29	9.40	2.30	11.20	2.93	13.00	3.65	13.50	3.75	13.60	3.87	14.00	3.89	14.30	3.91
	31	9.40	2.44	11.20	3.13	13.00	3.90	13.20	3.92	13.40	4.02	13.80	4.04	14.10	4.06
	33	9.40	2.60	11.20	3.33	12.90	4.12	13.10	4.10	13.20	4.17	13.50	4.19	13.90	4.21
	35	9.40	2.76	11.20	3.56	12.60	4.27	12.80	4.28	13.00	4.32	13.30	4.34	13.70	4.36
	37	9.40	2.87	11.20	3.66	12.50	4.34	12.60	4.35	12.80	4.39	13.10	4.41	13.50	4.43
	39	9.40	2.98	11.20	3.77	12.20	4.41	12.40	4.42	12.60	4.46	12.90	4.48	13.30	4.49
	41	9.00	3.39	10.80	4.25	11.60	4.91	11.80	4.92	11.90	4.95	12.30	4.98	12.60	5.00
	43	8.90	3.60	10.60	4.48	11.20	5.12	11.40	5.13	11.60	5.16	11.90	5.19	12.20	5.21
	46	8.30	3.86	9.90	4.75	10.20	5.33	10.40	5.34	10.60	5.37	10.90	5.40	11.20	5.42
	48	7.40	3.34	8.60	4.07	8.90	4.51	9.10	4.54	9.20	4.57	9.50	4.58	9.70	4.60
100	10	8.20	1.32	9.70	1.60	11.30	1.90	12.10	2.05	12.90	2.20	14.50	2.45	15.90	2.47
	12	8.20	1.36	9.70	1.67	11.30	1.96	12.10	2.11	12.90	2.27	14.50	2.59	15.70	2.61
	14	8.20	1.40	9.70	1.73	11.30	2.05	12.10	2.20	12.90	2.37	14.50	2.73	15.50	2.76
	16	8.20	1.44	9.70	1.79	11.30	2.13	12.10	2.30	12.90	2.50	14.50	2.86	15.30	2.90
	18	8.20	1.49	9.70	1.86	11.30	2.22	12.10	2.41	12.90	2.65	14.50	3.02	15.10	3.05
	20	8.20	1.54	9.70	1.93	11.30	2.34	12.10	2.59	12.90	2.84	14.50	3.17	14.90	3.19
	21	8.20	1.57	9.70	1.97	11.30	2.43	12.10	2.68	12.90	2.94	14.50	3.24	14.80	3.27
	23	8.20	1.67	9.70	2.11	11.30	2.60	12.10	2.87	12.90	3.15	14.30	3.39	14.60	3.42
	25	8.20	1.77	9.70	2.25	11.30	2.78	12.10	3.07	12.90	3.37	14.10	3.54	14.30	3.57
	27	8.20	1.89	9.70	2.40	11.30	2.97	12.10	3.28	12.90	3.58	13.90	3.71	14.20	3.74
	29	8.20	2.01	9.70	2.56	11.30	3.18	12.10	3.51	12.90	3.79	13.70	3.85	14.00	3.89
	31	8.20	2.15	9.70	2.73	11.30	3.39	12.10	3.74	12.90	3.99	13.40	4.00	13.70	4.04
	33	8.20	2.28	9.70	2.91	11.30	3.61	12.10	3.99	12.90	4.14	13.20	4.15	13.50	4.19
	35	8.20	2.43	9.70	3.10	11.30	3.85	12.10	4.26	12.70	4.29	13.00	4.30	13.30	4.34
	37	8.20	2.52	9.70	3.22	11.30	3.96	12.10	4.33	12.50	4.35	12.80	4.37	13.10	4.41
	39	8.20	2.62	9.70	3.35	11.30	4.06	12.10	4.40	12.30	4.42	12.60	4.44	12.90	4.48
	41	7.90	2.97	9.40	3.81	10.90	4.56	11.50	4.90	11.60	4.92	11.70	4.94	12.30	4.98
	43	7.80	3.16	9.20	4.06	10.80	4.80	11.10	5.11	11.30	5.13	11.60	5.15	11.90	5.20
	46	7.30	3.38	8.70	4.36	10.10	5.07	10.20	5.33	10.30	5.34	10.60	5.36	10.90	5.41
	48	6.40	2.92	7.70	3.77	8.70	4.33	8.80	4.52	8.90	4.53	9.20	4.54	9.50	4.58
90	10	7.30	0.94	8.80	1.13	10.20	1.33	10.90	1.43	11.60	1.54	13.00	1.73	14.40	1.92
	12	7.30	0.95	8.80	1.14	10.20	1.35	10.90	1.46	11.60	1.58	13.00	1.76	14.40	1.95
	14	7.30	0.97	8.80	1.17	10.20	1.38	10.90	1.49	11.60	1.60	13.00	1.79	14.40	1.99
	16	7.30	0.98	8.80	1.19	10.20	1.41	10.90	1.52	11.60	1.63	13.00	1.83	14.40	2.03
	18	7.30	1.00	8.80	1.21	10.20	1.43	10.90	1.55	11.60	1.67	13.00	1.87	14.40	2.13
	20	7.30	1.02	8.80	1.24	10.20	1.46	10.90	1.58	11.60	1.73	13.00	2.00	14.40	2.23
	21	7.30	1.03	8.80	1.25	10.20	1.49	10.90	1.63	11.60	1.79	13.00	2.07	14.40	2.28
	23	7.30	1.05	8.80	1.30	10.20	1.59	10.90	1.75	11.60	1.92	13.00	2.22	14.20	2.39
	25	7.30	1.10	8.80	1.39	10.20	1.70	10.90	1.87	11.60	2.05	13.00	2.37	14.00	2.49
	27	7.30	1.18	8.80	1.48	10.20	1.82	10.90	2.00	11.60	2.20	13.00	2.52	13.80	2.61
	29	7.30	1.25	8.80	1.58	10.20	1.94	10.90	2.14	11.60	2.35	13.00	2.70	13.60	2.71
	31	7.30	1.33	8.80	1.68	10.20	2.07	10.90	2.28	11.60	2.50	13.00	2.81	13.40	2.82
	33	7.30	1.41	8.80	1.79	10.20	2.21	10.90	2.43	11.60	2.65	13.00	2.91	13.20	2.92
	35	7.30	1.50	8.80	1.90	10.20	2.35	10.90	2.59	11.60	2.81	12.80	3.02	13.00	3.03
	37	7.30	1.59	8.80	2.02	10.20	2.50	10.90	2.75	11.60	2.97	12.60	3.12	12.80	3.13
	39	7.30	1.69	8.80	2.15	10.20	2.65	10.90	2.90	11.60	3.12	12.40	3.23	12.60	3.24
	41	7.10	1.95	8.50	2.48	9.80	3.06	10.50	3.33	11.20	3.55	11.70	3.65	11.90	3.66
	43	7.00	2.10	8.30	2.68	9.70	3.31	10.30	3.59	11.00	3.77	11.40	3.87	11.60	3.88
	46	6.50	2.29	7.80	2.93	9.10	3.62	9.70	3.91	10.00	4.02	10.40	4.12	10.60	4.13
	48	5.80	2.00	6.90	2.56	8.00	3.16	8.60	3.41	8.70	3.46	9.00	3.55	9.20	3.55
80	10	6.50	0.89	7.80	1.07	9.00	1.26	9.70	1.36	10.30	1.46	11.60	1.66	12.80	1.81

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80	12	6.50	0.91	7.80	1.09	9.00	1.29	9.70	1.38	10.30	1.48	11.60	1.69	12.80	1.84
	14	6.50	0.93	7.80	1.11	9.00	1.30	9.70	1.41	10.30	1.51	11.60	1.73	12.80	1.88
	16	6.50	0.94	7.80	1.13	9.00	1.33	9.70	1.43	10.30	1.54	11.60	1.76	12.80	1.91
	18	6.50	0.96	7.80	1.15	9.00	1.35	9.70	1.46	10.30	1.57	11.60	1.79	12.80	1.96
	20	6.50	0.97	7.80	1.17	9.00	1.38	9.70	1.49	10.30	1.60	11.60	1.86	12.80	2.09
	21	6.50	0.98	7.80	1.19	9.00	1.40	9.70	1.51	10.30	1.64	11.60	1.92	12.80	2.17
	23	6.50	1.00	7.80	1.20	9.00	1.46	9.70	1.60	10.30	1.75	11.60	2.03	12.80	2.33
	25	6.50	1.04	7.80	1.29	9.00	1.56	9.70	1.71	10.30	1.87	11.60	2.17	12.80	2.49
	27	6.50	1.10	7.80	1.37	9.00	1.67	9.70	1.83	10.30	2.00	11.60	2.31	12.80	2.61
	29	6.50	1.17	7.80	1.46	9.00	1.78	9.70	1.95	10.30	2.14	11.60	2.47	12.80	2.71
	31	6.50	1.24	7.80	1.55	9.00	1.89	9.70	2.08	10.30	2.27	11.60	2.62	12.80	2.82
	33	6.50	1.32	7.80	1.65	9.00	2.02	9.70	2.22	10.30	2.42	11.60	2.76	12.80	2.92
	35	6.50	1.40	7.80	1.75	9.00	2.15	9.70	2.36	10.30	2.58	11.60	2.93	12.70	3.03
	37	6.50	1.48	7.80	1.86	9.00	2.28	9.70	2.51	10.30	2.74	11.60	3.09	12.50	3.13
	39	6.50	1.56	7.80	1.97	9.00	2.41	9.70	2.64	10.30	2.92	11.60	3.23	12.30	3.24
	41	6.30	1.80	7.50	2.27	8.70	2.79	9.30	3.05	10.00	3.38	11.20	3.65	11.70	3.66
	43	6.20	1.94	7.40	2.45	8.60	3.01	9.20	3.29	9.80	3.65	11.00	3.87	11.30	3.88
	46	5.80	2.12	6.90	2.68	8.00	3.29	8.60	3.59	9.20	4.00	10.10	4.12	10.30	4.13
	48	5.10	1.85	6.10	2.34	7.10	2.88	7.60	3.13	8.10	3.46	8.70	3.55	9.00	3.55
70	10	5.70	0.81	6.80	0.96	7.90	1.11	8.50	1.20	9.00	1.29	10.10	1.46	11.20	1.64
	12	5.70	0.82	6.80	0.97	7.90	1.14	8.50	1.22	9.00	1.31	10.10	1.49	11.20	1.67
	14	5.70	0.83	6.80	0.99	7.90	1.16	8.50	1.24	9.00	1.33	10.10	1.52	11.20	1.70
	16	5.70	0.85	6.80	1.01	7.90	1.18	8.50	1.27	9.00	1.36	10.10	1.55	11.20	1.73
	18	5.70	0.86	6.80	1.02	7.90	1.20	8.50	1.29	9.00	1.38	10.10	1.57	11.20	1.77
	20	5.70	0.87	6.80	1.04	7.90	1.22	8.50	1.32	9.00	1.41	10.10	1.61	11.20	1.83
	21	5.70	0.88	6.80	1.05	7.90	1.23	8.50	1.33	9.00	1.43	10.10	1.64	11.20	1.89
	23	5.70	0.90	6.80	1.08	7.90	1.26	8.50	1.37	9.00	1.50	10.10	1.75	11.20	2.00
	25	5.70	0.91	6.80	1.11	7.90	1.34	8.50	1.47	9.00	1.60	10.10	1.87	11.20	2.14
	27	5.70	0.96	6.80	1.19	7.90	1.43	8.50	1.56	9.00	1.71	10.10	2.00	11.20	2.27
	29	5.70	1.02	6.80	1.26	7.90	1.52	8.50	1.66	9.00	1.81	10.10	2.13	11.20	2.43
	31	5.70	1.09	6.80	1.34	7.90	1.62	8.50	1.78	9.00	1.93	10.10	2.27	11.20	2.58
	33	5.70	1.15	6.80	1.42	7.90	1.72	8.50	1.88	9.00	2.06	10.10	2.42	11.20	2.72
	35	5.70	1.22	6.80	1.52	7.90	1.83	8.50	2.00	9.00	2.19	10.10	2.58	11.20	2.88
	37	5.70	1.29	6.80	1.60	7.90	1.95	8.50	2.13	9.00	2.33	10.10	2.74	11.20	3.04
	39	5.70	1.36	6.80	1.69	7.90	2.06	8.50	2.25	9.00	2.47	10.10	2.91	11.20	3.18
	41	5.50	1.56	6.60	1.95	7.60	2.38	8.20	2.59	8.70	2.85	9.80	3.36	10.80	3.65
	43	5.40	1.68	6.50	2.11	7.50	2.57	8.00	2.80	8.60	3.08	9.60	3.63	10.70	3.88
	46	5.10	1.83	6.10	2.30	7.00	2.81	7.50	3.06	8.00	3.37	9.00	3.97	10.00	4.13
	48	4.50	1.60	5.40	2.01	6.20	2.45	6.70	2.67	7.10	2.95	8.00	3.48	8.90	3.55
60	10	4.90	0.72	5.80	0.84	6.80	0.98	7.30	1.05	7.70	1.11	8.70	1.26	9.60	1.41
	12	4.90	0.73	5.80	0.85	6.80	0.99	7.30	1.06	7.70	1.13	8.70	1.28	9.60	1.44
	14	4.90	0.74	5.80	0.87	6.80	1.01	7.30	1.08	7.70	1.15	8.70	1.31	9.60	1.47
	16	4.90	0.75	5.80	0.89	6.80	1.02	7.30	1.10	7.70	1.18	8.70	1.34	9.60	1.49
	18	4.90	0.76	5.80	0.90	6.80	1.04	7.30	1.12	7.70	1.20	8.70	1.36	9.60	1.53
	20	4.90	0.78	5.80	0.91	6.80	1.06	7.30	1.14	7.70	1.22	8.70	1.38	9.60	1.56
	21	4.90	0.78	5.80	0.92	6.80	1.08	7.30	1.15	7.70	1.23	8.70	1.40	9.60	1.57
	23	4.90	0.80	5.80	0.94	6.80	1.09	7.30	1.17	7.70	1.26	8.70	1.45	9.60	1.67
	25	4.90	0.81	5.80	0.96	6.80	1.13	7.30	1.23	7.70	1.34	8.70	1.55	9.60	1.79
	27	4.90	0.83	5.80	1.01	6.80	1.21	7.30	1.31	7.70	1.42	8.70	1.65	9.60	1.90
	29	4.90	0.89	5.80	1.08	6.80	1.28	7.30	1.39	7.70	1.51	8.70	1.76	9.60	2.03
	31	4.90	0.94	5.80	1.14	6.80	1.36	7.30	1.49	7.70	1.61	8.70	1.88	9.60	2.16

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	33	4.90	0.99	5.80	1.21	6.80	1.45	7.30	1.58	7.70	1.71	8.70	1.99	9.60	2.31
	35	4.90	1.05	5.80	1.28	6.80	1.54	7.30	1.68	7.70	1.82	8.70	2.12	9.60	2.45
	37	4.90	1.11	5.80	1.36	6.80	1.63	7.30	1.78	7.70	1.93	8.70	2.26	9.60	2.61
	39	4.90	1.17	5.80	1.43	6.80	1.72	7.30	1.89	7.70	2.04	8.70	2.39	9.60	2.77
	41	4.70	1.33	5.60	1.64	6.50	1.99	7.00	2.17	7.50	2.35	8.40	2.76	9.30	3.20
	43	4.60	1.43	5.50	1.77	6.40	2.15	6.90	2.34	7.40	2.53	8.30	2.99	9.20	3.45
	46	4.30	1.56	5.20	1.93	6.00	2.34	6.50	2.55	6.90	2.77	7.70	3.26	8.60	3.78
	48	3.80	1.36	4.60	1.68	5.30	2.05	5.70	2.23	6.10	2.42	6.80	2.85	7.60	3.31
50	10	4.10	0.63	4.90	0.73	5.70	0.83	6.10	0.89	6.40	0.95	7.20	1.07	8.00	1.19
	12	4.10	0.64	4.90	0.74	5.70	0.85	6.10	0.91	6.40	0.97	7.20	1.09	8.00	1.21
	14	4.10	0.65	4.90	0.75	5.70	0.86	6.10	0.92	6.40	0.98	7.20	1.10	8.00	1.23
	16	4.10	0.66	4.90	0.77	5.70	0.87	6.10	0.94	6.40	0.99	7.20	1.12	8.00	1.25
	18	4.10	0.67	4.90	0.77	5.70	0.89	6.10	0.95	6.40	1.01	7.20	1.14	8.00	1.27
	20	4.10	0.67	4.90	0.79	5.70	0.91	6.10	0.97	6.40	1.03	7.20	1.16	8.00	1.30
	21	4.10	0.68	4.90	0.79	5.70	0.91	6.10	0.98	6.40	1.04	7.20	1.17	8.00	1.31
	23	4.10	0.69	4.90	0.81	5.70	0.93	6.10	0.99	6.40	1.06	7.20	1.19	8.00	1.34
	25	4.10	0.70	4.90	0.82	5.70	0.95	6.10	1.01	6.40	1.09	7.20	1.25	8.00	1.43
	27	4.10	0.71	4.90	0.85	5.70	1.00	6.10	1.08	6.40	1.16	7.20	1.34	8.00	1.53
	29	4.10	0.75	4.90	0.90	5.70	1.06	6.10	1.15	6.40	1.23	7.20	1.42	8.00	1.62
	31	4.10	0.79	4.90	0.95	5.70	1.13	6.10	1.21	6.40	1.31	7.20	1.51	8.00	1.73
	33	4.10	0.84	4.90	1.01	5.70	1.19	6.10	1.29	6.40	1.39	7.20	1.61	8.00	1.84
	35	4.10	0.89	4.90	1.07	5.70	1.26	6.10	1.37	6.40	1.47	7.20	1.70	8.00	1.96
	37	4.10	0.94	4.90	1.13	5.70	1.33	6.10	1.45	6.40	1.56	7.20	1.82	8.00	2.08
	39	4.10	0.98	4.90	1.19	5.70	1.42	6.10	1.53	6.40	1.64	7.20	1.91	8.00	2.20
	41	3.90	1.13	4.70	1.36	5.50	1.63	5.80	1.76	6.20	1.89	7.00	2.21	7.80	2.54
	43	3.90	1.22	4.60	1.47	5.40	1.75	5.70	1.90	6.10	2.04	6.90	2.38	7.60	2.74
	46	3.60	1.32	4.30	1.60	5.00	1.91	5.40	2.06	5.70	2.22	6.40	2.60	7.20	2.99
	48	3.20	1.15	3.80	1.39	4.50	1.66	4.80	1.80	5.10	1.94	5.70	2.27	6.30	2.61

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN050GSS0, ZRUN050LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	12.80	2.08	15.20	2.54	17.70	2.95	18.40	3.01	18.60	3.04	19.00	3.05	19.50	3.07
	12	12.80	2.13	15.20	2.63	17.70	3.07	18.10	3.09	18.40	3.15	18.80	3.18	19.30	3.19
	14	12.80	2.20	15.20	2.73	17.60	3.18	17.90	3.21	18.10	3.26	18.60	3.29	19.00	3.32
	16	12.80	2.28	15.20	2.82	17.40	3.33	17.60	3.36	17.80	3.38	18.30	3.41	18.80	3.44
	18	12.80	2.38	15.20	2.98	17.20	3.51	17.40	3.53	17.60	3.55	18.10	3.57	18.60	3.59
	20	12.80	2.48	15.20	3.18	16.90	3.67	17.20	3.71	17.40	3.73	17.80	3.75	18.30	3.77
	21	12.80	2.55	15.20	3.29	16.80	3.76	17.10	3.79	17.30	3.81	17.70	3.83	18.20	3.86
	23	12.80	2.73	15.20	3.53	16.60	3.92	16.80	3.96	17.10	3.99	17.50	4.01	18.00	4.03
	25	12.80	2.92	15.20	3.77	16.30	4.09	16.60	4.13	16.80	4.16	17.30	4.18	17.70	4.21
	27	12.80	3.12	15.20	4.04	16.10	4.27	16.30	4.30	16.60	4.33	17.10	4.36	17.50	4.38
	29	12.80	3.33	15.20	4.31	15.90	4.45	16.10	4.48	16.30	4.51	16.80	4.53	17.30	4.56
	31	12.80	3.55	15.20	4.54	15.60	4.62	15.90	4.65	16.10	4.68	16.50	4.70	17.00	4.73
	33	12.80	3.78	14.90	4.72	15.40	4.80	15.70	4.83	15.90	4.85	16.30	4.88	16.80	4.91
	35	12.80	4.04	14.70	4.89	15.10	4.98	15.40	5.01	15.70	5.03	16.10	5.05	16.50	5.08
	37	12.80	4.18	14.50	4.98	14.90	5.07	15.10	5.11	15.40	5.13	15.80	5.15	16.30	5.19
	39	12.80	4.32	14.20	5.08	14.70	5.18	14.90	5.21	15.10	5.23	15.60	5.25	16.10	5.29
	41	12.30	4.89	13.50	5.67	13.90	5.78	14.10	5.82	14.40	5.84	14.90	5.85	15.30	5.90
	43	12.20	5.18	13.00	5.94	13.50	6.05	13.70	6.09	14.00	6.10	14.40	6.12	14.80	6.17
	46	11.40	5.52	11.90	6.22	12.30	6.33	12.50	6.37	12.80	6.38	13.20	6.40	13.60	6.45
	48	10.10	4.75	10.30	5.30	10.70	5.39	10.90	5.41	11.10	5.42	11.50	5.45	11.80	5.48
120	10	11.80	1.87	14.10	2.29	16.40	2.72	17.50	2.94	18.40	2.99	18.80	3.00	19.20	3.02
	12	11.80	1.92	14.10	2.37	16.40	2.83	17.50	3.01	18.10	3.10	18.50	3.14	18.90	3.15
	14	11.80	1.99	14.10	2.45	16.40	2.95	17.50	3.12	17.80	3.22	18.30	3.26	18.70	3.29
	16	11.80	2.06	14.10	2.55	16.40	3.06	17.40	3.29	17.60	3.36	18.00	3.38	18.50	3.42
	18	11.80	2.14	14.10	2.67	16.40	3.25	17.20	3.47	17.40	3.54	17.80	3.55	18.30	3.57
	20	11.80	2.22	14.10	2.83	16.40	3.46	16.90	3.67	17.20	3.71	17.60	3.72	18.00	3.74
	21	11.80	2.29	14.10	2.93	16.40	3.58	16.80	3.76	17.00	3.80	17.50	3.81	17.90	3.83
	23	11.80	2.45	14.10	3.13	16.40	3.82	16.60	3.92	16.80	3.97	17.20	3.98	17.60	4.00
	25	11.80	2.61	14.10	3.36	16.10	4.03	16.30	4.10	16.50	4.14	17.00	4.16	17.40	4.17
	27	11.80	2.79	14.10	3.59	15.90	4.23	16.10	4.27	16.30	4.31	16.70	4.33	17.20	4.35
	29	11.80	2.98	14.10	3.83	15.60	4.41	15.90	4.44	16.10	4.49	16.50	4.50	16.90	4.52
	31	11.80	3.17	14.10	4.09	15.40	4.59	15.60	4.61	15.90	4.66	16.30	4.68	16.70	4.70
	33	11.80	3.38	14.10	4.36	15.20	4.76	15.40	4.79	15.60	4.83	16.00	4.85	16.40	4.87
	35	11.80	3.59	14.10	4.65	14.90	4.95	15.10	4.97	15.40	5.00	15.80	5.02	16.20	5.04
	37	11.80	3.75	14.10	4.76	14.70	5.03	14.90	5.06	15.10	5.08	15.50	5.11	16.00	5.13
	39	11.80	3.91	14.00	4.88	14.40	5.12	14.70	5.15	14.90	5.17	15.30	5.20	15.70	5.22
	41	11.40	4.45	13.30	5.46	13.70	5.70	13.90	5.74	14.10	5.76	14.50	5.79	14.90	5.81
	43	11.20	4.75	12.90	5.74	13.30	5.95	13.50	6.00	13.70	6.01	14.10	6.05	14.50	6.07
	46	10.50	5.11	11.70	6.04	12.10	6.21	12.30	6.27	12.50	6.29	12.90	6.31	13.30	6.33
	48	9.30	4.42	10.20	5.16	10.60	5.29	10.70	5.32	10.90	5.34	11.20	5.36	11.60	5.38
110	10	10.80	1.68	12.90	2.05	15.00	2.44	16.00	2.64	17.10	2.84	18.40	2.95	18.80	2.96
	12	10.80	1.73	12.90	2.12	15.00	2.54	16.00	2.71	17.10	2.94	18.20	3.07	18.50	3.11
	14	10.80	1.79	12.90	2.21	15.00	2.65	16.00	2.84	17.10	3.09	17.90	3.18	18.30	3.25
	16	10.80	1.85	12.90	2.30	15.00	2.76	16.00	2.97	17.10	3.28	17.70	3.36	18.10	3.38
	18	10.80	1.92	12.90	2.39	15.00	2.92	16.00	3.17	17.10	3.47	17.40	3.53	17.90	3.54
	20	10.80	1.99	12.90	2.51	15.00	3.10	16.00	3.37	16.80	3.66	17.20	3.70	17.60	3.72
	21	10.80	2.03	12.90	2.58	15.00	3.21	16.00	3.49	16.70	3.75	17.10	3.79	17.50	3.80
	23	10.80	2.17	12.90	2.77	15.00	3.44	16.00	3.70	16.50	3.92	16.90	3.96	17.20	3.98
	25	10.80	2.32	12.90	2.96	15.00	3.68	16.00	3.93	16.20	4.09	16.60	4.13	17.00	4.15
	27	10.80	2.47	12.90	3.16	15.00	3.94	15.80	4.14	16.00	4.28	16.40	4.30	16.80	4.32

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	29	10.80	2.64	12.90	3.38	15.00	4.20	15.60	4.32	15.80	4.46	16.10	4.48	16.60	4.49
	31	10.80	2.81	12.90	3.60	15.00	4.49	15.30	4.51	15.50	4.63	15.90	4.65	16.30	4.67
	33	10.80	2.99	12.90	3.83	14.90	4.74	15.10	4.71	15.30	4.80	15.70	4.82	16.10	4.84
	35	10.80	3.18	12.90	4.09	14.60	4.91	14.80	4.93	15.10	4.97	15.40	4.99	15.80	5.01
	37	10.80	3.30	12.90	4.22	14.40	5.00	14.60	5.00	14.80	5.05	15.20	5.08	15.60	5.09
	39	10.80	3.43	12.90	4.34	14.20	5.08	14.40	5.08	14.60	5.12	14.90	5.15	15.40	5.17
	41	10.40	3.90	12.50	4.89	13.40	5.64	13.60	5.66	13.80	5.70	14.20	5.73	14.60	5.75
	43	10.30	4.15	12.30	5.16	13.00	5.89	13.20	5.90	13.40	5.94	13.80	5.97	14.10	5.99
	46	9.60	4.44	11.50	5.46	11.90	6.13	12.10	6.15	12.20	6.18	12.60	6.22	12.90	6.23
	48	8.50	3.84	10.00	4.69	10.30	5.19	10.50	5.23	10.60	5.25	11.00	5.27	11.20	5.29
100	10	9.50	1.51	11.30	1.84	13.10	2.18	14.00	2.36	14.90	2.54	16.80	2.82	18.40	2.85
	12	9.50	1.56	11.30	1.92	13.10	2.26	14.00	2.42	14.90	2.62	16.80	2.97	18.20	3.00
	14	9.50	1.61	11.30	1.99	13.10	2.35	14.00	2.53	14.90	2.73	16.80	3.14	18.00	3.17
	16	9.50	1.66	11.30	2.06	13.10	2.45	14.00	2.65	14.90	2.88	16.80	3.29	17.70	3.34
	18	9.50	1.71	11.30	2.14	13.10	2.55	14.00	2.78	14.90	3.05	16.80	3.48	17.50	3.51
	20	9.50	1.77	11.30	2.22	13.10	2.70	14.00	2.98	14.90	3.26	16.80	3.65	17.20	3.67
	21	9.50	1.81	11.30	2.27	13.10	2.79	14.00	3.08	14.90	3.38	16.80	3.73	17.10	3.76
	23	9.50	1.92	11.30	2.43	13.10	2.99	14.00	3.30	14.90	3.63	16.50	3.90	16.90	3.94
	25	9.50	2.04	11.30	2.58	13.10	3.20	14.00	3.53	14.90	3.88	16.30	4.07	16.60	4.10
	27	9.50	2.18	11.30	2.76	13.10	3.42	14.00	3.77	14.90	4.12	16.00	4.26	16.40	4.30
	29	9.50	2.32	11.30	2.95	13.10	3.65	14.00	4.04	14.90	4.36	15.80	4.43	16.20	4.47
	31	9.50	2.47	11.30	3.14	13.10	3.90	14.00	4.30	14.90	4.58	15.60	4.61	15.90	4.64
	33	9.50	2.62	11.30	3.35	13.10	4.16	14.00	4.59	14.90	4.76	15.30	4.78	15.70	4.82
	35	9.50	2.79	11.30	3.56	13.10	4.43	14.00	4.90	14.70	4.93	15.10	4.95	15.40	4.99
	37	9.50	2.90	11.30	3.71	13.10	4.55	14.00	4.98	14.40	5.01	14.80	5.03	15.20	5.07
	39	9.50	3.01	11.30	3.86	13.10	4.67	14.00	5.07	14.20	5.09	14.60	5.11	15.00	5.15
	41	9.10	3.42	10.90	4.39	12.60	5.25	13.30	5.64	13.50	5.66	13.50	5.68	14.20	5.73
	43	9.00	3.64	10.70	4.67	12.40	5.53	12.90	5.88	13.00	5.90	13.40	5.92	13.80	5.98
	46	8.40	3.89	10.00	5.01	11.70	5.83	11.80	6.13	11.90	6.14	12.30	6.16	12.60	6.22
	48	7.40	3.36	8.90	4.34	10.10	4.99	10.20	5.20	10.30	5.21	10.70	5.23	11.00	5.27
90	10	8.50	1.08	10.20	1.30	11.80	1.53	12.60	1.65	13.40	1.77	15.10	1.98	16.70	2.21
	12	8.50	1.09	10.20	1.32	11.80	1.55	12.60	1.68	13.40	1.81	15.10	2.02	16.70	2.25
	14	8.50	1.11	10.20	1.34	11.80	1.59	12.60	1.71	13.40	1.85	15.10	2.06	16.70	2.29
	16	8.50	1.13	10.20	1.37	11.80	1.62	12.60	1.75	13.40	1.88	15.10	2.10	16.70	2.33
	18	8.50	1.15	10.20	1.40	11.80	1.65	12.60	1.79	13.40	1.92	15.10	2.15	16.70	2.45
	20	8.50	1.17	10.20	1.42	11.80	1.68	12.60	1.82	13.40	1.99	15.10	2.30	16.70	2.56
	21	8.50	1.18	10.20	1.44	11.80	1.71	12.60	1.88	13.40	2.06	15.10	2.38	16.70	2.62
	23	8.50	1.21	10.20	1.49	11.80	1.83	12.60	2.02	13.40	2.21	15.10	2.55	16.50	2.75
	25	8.50	1.27	10.20	1.59	11.80	1.96	12.60	2.16	13.40	2.36	15.10	2.73	16.20	2.86
	27	8.50	1.36	10.20	1.70	11.80	2.09	12.60	2.30	13.40	2.53	15.10	2.90	16.00	3.00
	29	8.50	1.44	10.20	1.81	11.80	2.24	12.60	2.46	13.40	2.70	15.10	3.11	15.80	3.12
	31	8.50	1.53	10.20	1.93	11.80	2.38	12.60	2.62	13.40	2.88	15.10	3.23	15.50	3.24
	33	8.50	1.63	10.20	2.06	11.80	2.54	12.60	2.79	13.40	3.05	15.10	3.35	15.30	3.36
	35	8.50	1.73	10.20	2.18	11.80	2.70	12.60	2.98	13.40	3.24	14.80	3.47	15.00	3.48
	37	8.50	1.83	10.20	2.32	11.80	2.88	12.60	3.16	13.40	3.42	14.60	3.59	14.80	3.60
	39	8.50	1.94	10.20	2.47	11.80	3.05	12.60	3.33	13.40	3.59	14.30	3.71	14.60	3.72
	41	8.20	2.24	9.80	2.85	11.40	3.52	12.20	3.83	12.90	4.08	13.60	4.20	13.80	4.21
	43	8.10	2.42	9.60	3.08	11.20	3.80	12.00	4.13	12.70	4.33	13.20	4.45	13.40	4.46
	46	7.60	2.64	9.00	3.37	10.50	4.16	11.20	4.49	11.60	4.62	12.00	4.74	12.20	4.75
	48	6.70	2.30	8.00	2.95	9.30	3.64	9.90	3.92	10.00	3.98	10.40	4.08	10.60	4.09
80	10	7.60	1.03	9.00	1.24	10.50	1.45	11.20	1.56	12.00	1.68	13.40	1.91	14.90	2.08

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80	12	7.60	1.05	9.00	1.25	10.50	1.48	11.20	1.59	12.00	1.71	13.40	1.95	14.90	2.12
	14	7.60	1.06	9.00	1.28	10.50	1.50	11.20	1.62	12.00	1.74	13.40	1.99	14.90	2.16
	16	7.60	1.08	9.00	1.30	10.50	1.53	11.20	1.65	12.00	1.77	13.40	2.03	14.90	2.20
	18	7.60	1.10	9.00	1.32	10.50	1.56	11.20	1.68	12.00	1.81	13.40	2.06	14.90	2.25
	20	7.60	1.12	9.00	1.35	10.50	1.59	11.20	1.71	12.00	1.84	13.40	2.14	14.90	2.41
	21	7.60	1.13	9.00	1.36	10.50	1.61	11.20	1.74	12.00	1.89	13.40	2.21	14.90	2.50
	23	7.60	1.15	9.00	1.39	10.50	1.68	11.20	1.84	12.00	2.01	13.40	2.33	14.90	2.67
	25	7.60	1.19	9.00	1.48	10.50	1.80	11.20	1.97	12.00	2.16	13.40	2.50	14.90	2.86
	27	7.60	1.26	9.00	1.57	10.50	1.92	11.20	2.11	12.00	2.30	13.40	2.65	14.90	3.00
	29	7.60	1.34	9.00	1.68	10.50	2.04	11.20	2.24	12.00	2.46	13.40	2.84	14.90	3.12
	31	7.60	1.43	9.00	1.78	10.50	2.18	11.20	2.39	12.00	2.61	13.40	3.02	14.90	3.24
	33	7.60	1.51	9.00	1.90	10.50	2.32	11.20	2.55	12.00	2.78	13.40	3.18	14.90	3.36
	35	7.60	1.61	9.00	2.01	10.50	2.47	11.20	2.71	12.00	2.97	13.40	3.37	14.70	3.48
	37	7.60	1.70	9.00	2.14	10.50	2.62	11.20	2.88	12.00	3.16	13.40	3.56	14.50	3.60
	39	7.60	1.80	9.00	2.26	10.50	2.78	11.20	3.04	12.00	3.36	13.40	3.71	14.20	3.72
	41	7.30	2.07	8.70	2.61	10.10	3.20	10.80	3.50	11.50	3.88	12.90	4.20	13.50	4.21
	43	7.20	2.23	8.60	2.82	9.90	3.46	10.60	3.78	11.40	4.20	12.70	4.45	13.10	4.46
	46	6.70	2.43	8.00	3.08	9.30	3.78	10.00	4.12	10.60	4.60	11.60	4.74	11.90	4.75
	48	5.90	2.13	7.10	2.70	8.20	3.31	8.80	3.60	9.40	3.98	10.10	4.08	10.40	4.09
70	10	6.60	0.93	7.90	1.11	9.20	1.28	9.80	1.38	10.50	1.48	11.70	1.68	13.00	1.88
	12	6.60	0.94	7.90	1.12	9.20	1.31	9.80	1.41	10.50	1.51	11.70	1.71	13.00	1.92
	14	6.60	0.96	7.90	1.13	9.20	1.33	9.80	1.43	10.50	1.53	11.70	1.75	13.00	1.95
	16	6.60	0.97	7.90	1.16	9.20	1.35	9.80	1.46	10.50	1.56	11.70	1.78	13.00	2.00
	18	6.60	0.99	7.90	1.18	9.20	1.38	9.80	1.49	10.50	1.59	11.70	1.81	13.00	2.03
	20	6.60	1.00	7.90	1.20	9.20	1.41	9.80	1.52	10.50	1.62	11.70	1.85	13.00	2.11
	21	6.60	1.02	7.90	1.21	9.20	1.42	9.80	1.53	10.50	1.64	11.70	1.88	13.00	2.17
	23	6.60	1.03	7.90	1.24	9.20	1.45	9.80	1.58	10.50	1.72	11.70	2.01	13.00	2.30
	25	6.60	1.05	7.90	1.28	9.20	1.54	9.80	1.69	10.50	1.84	11.70	2.15	13.00	2.46
	27	6.60	1.11	7.90	1.37	9.20	1.65	9.80	1.79	10.50	1.96	11.70	2.30	13.00	2.61
	29	6.60	1.18	7.90	1.45	9.20	1.75	9.80	1.91	10.50	2.09	11.70	2.45	13.00	2.80
	31	6.60	1.25	7.90	1.54	9.20	1.87	9.80	2.04	10.50	2.23	11.70	2.61	13.00	2.97
	33	6.60	1.32	7.90	1.63	9.20	1.98	9.80	2.17	10.50	2.36	11.70	2.78	13.00	3.13
	35	6.60	1.40	7.90	1.74	9.20	2.11	9.80	2.31	10.50	2.52	11.70	2.96	13.00	3.32
	37	6.60	1.49	7.90	1.85	9.20	2.24	9.80	2.45	10.50	2.68	11.70	3.15	13.00	3.50
	39	6.60	1.56	7.90	1.95	9.20	2.37	9.80	2.59	10.50	2.84	11.70	3.34	13.00	3.66
	41	6.40	1.80	7.60	2.25	8.80	2.74	9.50	2.98	10.10	3.28	11.30	3.86	12.50	4.20
	43	6.30	1.94	7.50	2.42	8.70	2.95	9.30	3.22	9.90	3.54	11.10	4.18	12.40	4.46
	46	5.90	2.11	7.00	2.64	8.10	3.23	8.70	3.51	9.30	3.87	10.40	4.57	11.60	4.75
	48	5.20	1.84	6.20	2.31	7.20	2.82	7.70	3.07	8.20	3.39	9.20	4.00	10.20	4.09
60	10	5.70	0.82	6.80	0.97	7.90	1.12	8.40	1.21	9.00	1.28	10.10	1.45	11.20	1.63
	12	5.70	0.84	6.80	0.98	7.90	1.14	8.40	1.22	9.00	1.30	10.10	1.48	11.20	1.66
	14	5.70	0.85	6.80	1.00	7.90	1.16	8.40	1.24	9.00	1.33	10.10	1.51	11.20	1.69
	16	5.70	0.86	6.80	1.02	7.90	1.18	8.40	1.27	9.00	1.36	10.10	1.54	11.20	1.72
	18	5.70	0.88	6.80	1.03	7.90	1.20	8.40	1.29	9.00	1.38	10.10	1.56	11.20	1.75
	20	5.70	0.89	6.80	1.05	7.90	1.22	8.40	1.31	9.00	1.40	10.10	1.59	11.20	1.79
	21	5.70	0.90	6.80	1.06	7.90	1.24	8.40	1.33	9.00	1.42	10.10	1.61	11.20	1.81
	23	5.70	0.91	6.80	1.08	7.90	1.25	8.40	1.35	9.00	1.45	10.10	1.67	11.20	1.92
	25	5.70	0.93	6.80	1.10	7.90	1.30	8.40	1.42	9.00	1.54	10.10	1.78	11.20	2.05
	27	5.70	0.96	6.80	1.16	7.90	1.39	8.40	1.51	9.00	1.63	10.10	1.90	11.20	2.19
	29	5.70	1.02	6.80	1.24	7.90	1.48	8.40	1.60	9.00	1.74	10.10	2.02	11.20	2.34
	31	5.70	1.08	6.80	1.31	7.90	1.57	8.40	1.71	9.00	1.85	10.10	2.16	11.20	2.49

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	33	5.70	1.14	6.80	1.39	7.90	1.66	8.40	1.81	9.00	1.97	10.10	2.29	11.20	2.65
	35	5.70	1.21	6.80	1.48	7.90	1.77	8.40	1.93	9.00	2.09	10.10	2.44	11.20	2.82
	37	5.70	1.27	6.80	1.56	7.90	1.87	8.40	2.05	9.00	2.22	10.10	2.59	11.20	3.00
	39	5.70	1.34	6.80	1.64	7.90	1.98	8.40	2.17	9.00	2.34	10.10	2.75	11.20	3.18
	41	5.50	1.53	6.50	1.89	7.60	2.29	8.10	2.50	8.60	2.70	9.70	3.18	10.80	3.68
	43	5.40	1.65	6.40	2.04	7.50	2.47	8.00	2.69	8.50	2.91	9.60	3.44	10.60	3.97
	46	5.00	1.79	6.00	2.22	7.00	2.69	7.50	2.94	8.00	3.18	9.00	3.75	9.90	4.35
	48	4.50	1.56	5.30	1.94	6.20	2.35	6.60	2.57	7.10	2.78	7.90	3.28	8.80	3.80
50	10	4.70	0.73	5.70	0.84	6.60	0.96	7.00	1.03	7.50	1.09	8.40	1.23	9.30	1.37
	12	4.70	0.74	5.70	0.85	6.60	0.97	7.00	1.04	7.50	1.11	8.40	1.25	9.30	1.39
	14	4.70	0.74	5.70	0.87	6.60	0.99	7.00	1.06	7.50	1.13	8.40	1.27	9.30	1.41
	16	4.70	0.76	5.70	0.88	6.60	1.01	7.00	1.08	7.50	1.14	8.40	1.29	9.30	1.44
	18	4.70	0.77	5.70	0.89	6.60	1.02	7.00	1.10	7.50	1.17	8.40	1.31	9.30	1.47
	20	4.70	0.78	5.70	0.91	6.60	1.04	7.00	1.11	7.50	1.19	8.40	1.34	9.30	1.50
	21	4.70	0.78	5.70	0.91	6.60	1.05	7.00	1.13	7.50	1.20	8.40	1.35	9.30	1.51
	23	4.70	0.80	5.70	0.93	6.60	1.07	7.00	1.14	7.50	1.22	8.40	1.37	9.30	1.54
	25	4.70	0.81	5.70	0.94	6.60	1.09	7.00	1.17	7.50	1.26	8.40	1.44	9.30	1.65
	27	4.70	0.82	5.70	0.97	6.60	1.15	7.00	1.24	7.50	1.34	8.40	1.54	9.30	1.76
	29	4.70	0.87	5.70	1.04	6.60	1.22	7.00	1.32	7.50	1.42	8.40	1.63	9.30	1.87
	31	4.70	0.91	5.70	1.10	6.60	1.30	7.00	1.40	7.50	1.51	8.40	1.74	9.30	1.99
	33	4.70	0.97	5.70	1.16	6.60	1.37	7.00	1.48	7.50	1.60	8.40	1.85	9.30	2.12
	35	4.70	1.02	5.70	1.23	6.60	1.45	7.00	1.57	7.50	1.70	8.40	1.96	9.30	2.25
	37	4.70	1.08	5.70	1.30	6.60	1.54	7.00	1.67	7.50	1.80	8.40	2.09	9.30	2.39
	39	4.70	1.13	5.70	1.36	6.60	1.63	7.00	1.76	7.50	1.89	8.40	2.20	9.30	2.53
	41	4.60	1.30	5.50	1.57	6.30	1.87	6.80	2.02	7.20	2.18	8.10	2.54	9.00	2.92
	43	4.50	1.40	5.40	1.69	6.20	2.02	6.70	2.18	7.10	2.34	7.90	2.74	8.80	3.15
	46	4.20	1.52	5.00	1.84	5.80	2.20	6.20	2.37	6.60	2.55	7.40	2.99	8.30	3.44
	48	3.70	1.32	4.50	1.60	5.20	1.91	5.50	2.07	5.90	2.23	6.60	2.61	7.30	3.01

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN060GSS0, ZRUN060LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	14.20	2.39	16.90	2.92	19.60	3.39	20.30	3.46	20.60	3.50	21.10	3.52	21.60	3.54
	12	14.20	2.45	16.90	3.03	19.60	3.53	20.00	3.55	20.40	3.62	20.80	3.66	21.30	3.68
	14	14.20	2.53	16.90	3.14	19.50	3.66	19.80	3.69	20.00	3.75	20.60	3.79	21.10	3.82
	16	14.20	2.63	16.90	3.25	19.30	3.83	19.50	3.86	19.80	3.89	20.30	3.93	20.80	3.96
	18	14.20	2.74	16.90	3.44	19.00	4.03	19.20	4.07	19.50	4.09	20.00	4.11	20.60	4.14
	20	14.20	2.86	16.90	3.66	18.70	4.23	19.00	4.27	19.20	4.29	19.80	4.31	20.30	4.34
	21	14.20	2.93	16.90	3.79	18.60	4.32	18.90	4.37	19.10	4.39	19.60	4.41	20.20	4.44
	23	14.20	3.15	16.90	4.07	18.40	4.51	18.60	4.55	18.90	4.59	19.40	4.61	19.90	4.64
	25	14.20	3.36	16.90	4.35	18.10	4.71	18.40	4.76	18.60	4.79	19.10	4.81	19.60	4.84
	27	14.20	3.60	16.90	4.64	17.90	4.91	18.10	4.95	18.40	4.99	18.90	5.01	19.40	5.04
	29	14.20	3.83	16.90	4.97	17.60	5.12	17.80	5.15	18.10	5.19	18.60	5.21	19.10	5.25
	31	14.20	4.09	16.80	5.23	17.30	5.32	17.60	5.36	17.80	5.39	18.30	5.42	18.80	5.45
	33	14.20	4.36	16.50	5.43	17.10	5.52	17.30	5.56	17.60	5.59	18.10	5.62	18.50	5.65
	35	14.20	4.64	16.20	5.63	16.80	5.73	17.10	5.76	17.30	5.79	17.80	5.82	18.30	5.85
	37	14.20	4.81	16.00	5.74	16.50	5.84	16.80	5.89	17.10	5.91	17.50	5.93	18.00	5.97
	39	14.20	4.97	15.70	5.85	16.20	5.96	16.50	6.00	16.80	6.02	17.30	6.04	17.80	6.08
	41	13.70	5.62	14.90	6.53	15.40	6.65	15.70	6.69	16.00	6.72	16.40	6.74	16.90	6.79
	43	13.50	5.96	14.40	6.84	14.90	6.96	15.20	7.01	15.50	7.03	16.00	7.05	16.40	7.10
	46	12.60	6.35	13.20	7.15	13.70	7.29	13.90	7.33	14.20	7.35	14.60	7.37	15.00	7.42
	48	11.20	5.46	11.40	6.10	11.90	6.21	12.10	6.22	12.30	6.24	12.70	6.27	13.10	6.31
120	10	13.10	2.15	15.60	2.64	18.10	3.14	19.40	3.39	20.30	3.44	20.80	3.46	21.20	3.47
	12	13.10	2.21	15.60	2.73	18.10	3.26	19.40	3.46	20.00	3.57	20.50	3.61	21.00	3.63
	14	13.10	2.29	15.60	2.82	18.10	3.39	19.40	3.59	19.70	3.70	20.30	3.76	20.70	3.79
	16	13.10	2.37	15.60	2.94	18.10	3.53	19.30	3.78	19.50	3.87	20.00	3.89	20.40	3.93
	18	13.10	2.46	15.60	3.07	18.10	3.74	19.00	4.00	19.20	4.07	19.70	4.09	20.20	4.10
	20	13.10	2.56	15.60	3.25	18.10	3.98	18.80	4.23	19.00	4.27	19.50	4.29	19.90	4.30
	21	13.10	2.63	15.60	3.37	18.10	4.12	18.60	4.32	18.80	4.37	19.30	4.39	19.80	4.40
	23	13.10	2.81	15.60	3.61	18.10	4.40	18.40	4.52	18.60	4.57	19.00	4.59	19.50	4.60
	25	13.10	3.01	15.60	3.86	17.80	4.64	18.10	4.72	18.30	4.77	18.80	4.78	19.30	4.80
	27	13.10	3.21	15.60	4.13	17.60	4.87	17.80	4.91	18.10	4.96	18.50	4.98	19.00	5.00
	29	13.10	3.42	15.60	4.41	17.30	5.08	17.50	5.12	17.80	5.16	18.20	5.18	18.80	5.20
	31	13.10	3.65	15.60	4.71	17.00	5.29	17.30	5.31	17.50	5.36	18.00	5.38	18.50	5.40
	33	13.10	3.88	15.60	5.02	16.80	5.48	17.00	5.51	17.30	5.56	17.70	5.58	18.20	5.60
	35	13.10	4.13	15.60	5.35	16.50	5.69	16.70	5.71	17.00	5.76	17.50	5.78	17.90	5.80
	37	13.10	4.31	15.60	5.48	16.30	5.79	16.50	5.83	16.70	5.85	17.20	5.89	17.70	5.90
	39	13.10	4.50	15.50	5.61	16.00	5.89	16.20	5.93	16.40	5.95	17.00	5.99	17.40	6.00
	41	12.60	5.12	14.70	6.29	15.20	6.56	15.40	6.61	15.60	6.62	16.10	6.67	16.50	6.68
	43	12.50	5.47	14.20	6.61	14.70	6.85	14.90	6.91	15.20	6.92	15.60	6.96	16.10	6.98
	46	11.70	5.88	13.00	6.95	13.40	7.15	13.60	7.21	13.80	7.24	14.30	7.26	14.70	7.28
	48	10.30	5.09	11.30	5.94	11.70	6.09	11.90	6.12	12.00	6.14	12.40	6.17	12.80	6.19
110	10	12.00	1.94	14.30	2.36	16.60	2.80	17.80	3.03	18.90	3.27	20.40	3.40	20.80	3.41
	12	12.00	2.00	14.30	2.44	16.60	2.92	17.80	3.12	18.90	3.39	20.10	3.53	20.50	3.58
	14	12.00	2.06	14.30	2.55	16.60	3.05	17.80	3.27	18.90	3.56	19.80	3.66	20.30	3.74
	16	12.00	2.13	14.30	2.64	16.60	3.18	17.80	3.42	18.90	3.77	19.60	3.86	20.00	3.89
	18	12.00	2.21	14.30	2.75	16.60	3.36	17.80	3.64	18.90	4.00	19.30	4.06	19.80	4.08
	20	12.00	2.29	14.30	2.89	16.60	3.56	17.80	3.88	18.60	4.22	19.10	4.26	19.50	4.28
	21	12.00	2.34	14.30	2.98	16.60	3.69	17.80	4.02	18.50	4.31	18.90	4.36	19.40	4.38
	23	12.00	2.49	14.30	3.19	16.60	3.96	17.80	4.26	18.20	4.52	18.70	4.56	19.10	4.58
	25	12.00	2.66	14.30	3.40	16.60	4.24	17.80	4.52	18.00	4.71	18.40	4.76	18.80	4.78
	27	12.00	2.85	14.30	3.64	16.60	4.54	17.50	4.77	17.70	4.93	18.20	4.95	18.60	4.97

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	29	12.00	3.04	14.30	3.88	16.60	4.84	17.20	4.97	17.50	5.13	17.90	5.15	18.30	5.17
	31	12.00	3.23	14.30	4.14	16.60	5.17	16.90	5.19	17.20	5.33	17.60	5.35	18.00	5.37
	33	12.00	3.45	14.30	4.41	16.50	5.46	16.70	5.42	16.90	5.53	17.40	5.55	17.80	5.57
	35	12.00	3.66	14.30	4.71	16.20	5.65	16.40	5.67	16.70	5.72	17.10	5.75	17.50	5.77
	37	12.00	3.80	14.30	4.85	16.00	5.75	16.20	5.76	16.40	5.81	16.80	5.84	17.20	5.86
	39	12.00	3.95	14.30	4.99	15.70	5.84	15.90	5.85	16.10	5.90	16.50	5.93	17.00	5.95
	41	11.60	4.49	13.80	5.62	14.90	6.50	15.10	6.51	15.30	6.56	15.70	6.60	16.10	6.61
	43	11.40	4.77	13.60	5.94	14.40	6.78	14.60	6.79	14.80	6.84	15.20	6.88	15.60	6.90
	46	10.70	5.11	12.70	6.29	13.10	7.05	13.40	7.08	13.50	7.12	13.90	7.15	14.30	7.17
	48	9.40	4.42	11.10	5.39	11.40	5.98	11.60	6.02	11.80	6.04	12.10	6.06	12.40	6.09
100	10	10.50	1.74	12.50	2.12	14.50	2.51	15.50	2.72	16.50	2.92	18.50	3.25	20.40	3.27
	12	10.50	1.80	12.50	2.21	14.50	2.60	15.50	2.79	16.50	3.01	18.50	3.42	20.10	3.46
	14	10.50	1.86	12.50	2.29	14.50	2.71	15.50	2.91	16.50	3.14	18.50	3.62	19.90	3.65
	16	10.50	1.91	12.50	2.37	14.50	2.82	15.50	3.05	16.50	3.31	18.50	3.79	19.60	3.84
	18	10.50	1.97	12.50	2.46	14.50	2.93	15.50	3.20	16.50	3.51	18.50	4.00	19.30	4.04
	20	10.50	2.04	12.50	2.55	14.50	3.10	15.50	3.42	16.50	3.76	18.50	4.20	19.00	4.23
	21	10.50	2.08	12.50	2.61	14.50	3.21	15.50	3.54	16.50	3.90	18.50	4.29	18.90	4.33
	23	10.50	2.20	12.50	2.79	14.50	3.45	15.50	3.80	16.50	4.17	18.30	4.49	18.70	4.53
	25	10.50	2.34	12.50	2.98	14.50	3.68	15.50	4.07	16.50	4.46	18.00	4.69	18.40	4.72
	27	10.50	2.50	12.50	3.18	14.50	3.94	15.50	4.35	16.50	4.74	17.80	4.91	18.20	4.95
	29	10.50	2.66	12.50	3.39	14.50	4.21	15.50	4.64	16.50	5.02	17.50	5.10	17.90	5.14
	31	10.50	2.85	12.50	3.62	14.50	4.48	15.50	4.96	16.50	5.28	17.20	5.30	17.60	5.34
	33	10.50	3.02	12.50	3.85	14.50	4.78	15.50	5.29	16.50	5.48	17.00	5.50	17.30	5.54
	35	10.50	3.21	12.50	4.10	14.50	5.09	15.50	5.64	16.20	5.67	16.70	5.70	17.10	5.74
	37	10.50	3.34	12.50	4.27	14.50	5.24	15.50	5.74	16.00	5.76	16.40	5.79	16.80	5.84
	39	10.50	3.47	12.50	4.44	14.50	5.38	15.50	5.83	15.70	5.86	16.20	5.88	16.60	5.93
	41	10.10	3.93	12.00	5.05	14.00	6.04	14.70	6.49	14.90	6.51	15.00	6.53	15.70	6.60
	43	9.90	4.18	11.80	5.38	13.80	6.36	14.30	6.77	14.40	6.79	14.90	6.81	15.30	6.88
	46	9.30	4.48	11.10	5.77	12.90	6.71	13.00	7.05	13.20	7.07	13.60	7.09	13.90	7.16
	48	8.20	3.87	9.80	4.99	11.20	5.74	11.30	5.98	11.40	6.00	11.80	6.01	12.10	6.06
90	10	9.40	1.24	11.20	1.49	13.10	1.76	14.00	1.90	14.80	2.04	16.70	2.28	18.50	2.54
	12	9.40	1.26	11.20	1.52	13.10	1.79	14.00	1.93	14.80	2.09	16.70	2.33	18.50	2.58
	14	9.40	1.28	11.20	1.55	13.10	1.83	14.00	1.97	14.80	2.12	16.70	2.37	18.50	2.64
	16	9.40	1.30	11.20	1.58	13.10	1.87	14.00	2.01	14.80	2.16	16.70	2.42	18.50	2.68
	18	9.40	1.32	11.20	1.61	13.10	1.90	14.00	2.06	14.80	2.21	16.70	2.47	18.50	2.82
	20	9.40	1.35	11.20	1.64	13.10	1.93	14.00	2.09	14.80	2.29	16.70	2.65	18.50	2.95
	21	9.40	1.36	11.20	1.65	13.10	1.97	14.00	2.16	14.80	2.38	16.70	2.74	18.50	3.02
	23	9.40	1.39	11.20	1.72	13.10	2.11	14.00	2.32	14.80	2.54	16.70	2.94	18.20	3.16
	25	9.40	1.46	11.20	1.83	13.10	2.25	14.00	2.48	14.80	2.72	16.70	3.14	18.00	3.30
	27	9.40	1.56	11.20	1.96	13.10	2.41	14.00	2.65	14.80	2.91	16.70	3.34	17.70	3.45
	29	9.40	1.65	11.20	2.09	13.10	2.57	14.00	2.83	14.80	3.11	16.70	3.58	17.40	3.59
	31	9.40	1.76	11.20	2.22	13.10	2.74	14.00	3.01	14.80	3.31	16.70	3.72	17.20	3.73
	33	9.40	1.87	11.20	2.37	13.10	2.92	14.00	3.21	14.80	3.51	16.70	3.86	16.90	3.87
	35	9.40	1.99	11.20	2.51	13.10	3.11	14.00	3.43	14.80	3.72	16.40	4.00	16.70	4.01
	37	9.40	2.11	11.20	2.67	13.10	3.31	14.00	3.64	14.80	3.93	16.10	4.14	16.40	4.15
	39	9.40	2.23	11.20	2.84	13.10	3.51	14.00	3.83	14.80	4.13	15.80	4.28	16.10	4.29
	41	9.10	2.58	10.80	3.28	12.60	4.05	13.50	4.41	14.30	4.70	15.00	4.83	15.30	4.84
	43	8.90	2.78	10.70	3.55	12.40	4.38	13.30	4.75	14.10	4.99	14.60	5.12	14.80	5.13
	46	8.40	3.04	10.00	3.88	11.60	4.79	12.40	5.17	12.80	5.32	13.30	5.46	13.50	5.46
	48	7.40	2.65	8.90	3.39	10.30	4.19	11.00	4.51	11.10	4.58	11.60	4.70	11.80	4.70
80	10	8.40	1.18	10.00	1.42	11.60	1.67	12.40	1.80	13.20	1.93	14.80	2.20	16.40	2.39

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80	12	8.40	1.21	10.00	1.44	11.60	1.70	12.40	1.83	13.20	1.96	14.80	2.24	16.40	2.44
	14	8.40	1.22	10.00	1.47	11.60	1.73	12.40	1.87	13.20	2.00	14.80	2.28	16.40	2.49
	16	8.40	1.24	10.00	1.50	11.60	1.76	12.40	1.90	13.20	2.04	14.80	2.33	16.40	2.53
	18	8.40	1.27	10.00	1.52	11.60	1.79	12.40	1.93	13.20	2.08	14.80	2.38	16.40	2.59
	20	8.40	1.29	10.00	1.55	11.60	1.83	12.40	1.97	13.20	2.12	14.80	2.47	16.40	2.77
	21	8.40	1.30	10.00	1.57	11.60	1.85	12.40	2.00	13.20	2.17	14.80	2.54	16.40	2.87
	23	8.40	1.32	10.00	1.59	11.60	1.93	12.40	2.12	13.20	2.32	14.80	2.69	16.40	3.08
	25	8.40	1.37	10.00	1.70	11.60	2.07	12.40	2.27	13.20	2.48	14.80	2.87	16.40	3.29
	27	8.40	1.45	10.00	1.81	11.60	2.21	12.40	2.42	13.20	2.65	14.80	3.05	16.40	3.45
	29	8.40	1.55	10.00	1.93	11.60	2.35	12.40	2.58	13.20	2.83	14.80	3.27	16.40	3.59
	31	8.40	1.64	10.00	2.05	11.60	2.51	12.40	2.75	13.20	3.01	14.80	3.47	16.40	3.73
	33	8.40	1.74	10.00	2.19	11.60	2.67	12.40	2.93	13.20	3.21	14.80	3.66	16.40	3.87
	35	8.40	1.85	10.00	2.32	11.60	2.84	12.40	3.12	13.20	3.42	14.80	3.88	16.30	4.01
	37	8.40	1.96	10.00	2.46	11.60	3.02	12.40	3.32	13.20	3.63	14.80	4.09	16.00	4.15
	39	8.40	2.07	10.00	2.61	11.60	3.19	12.40	3.50	13.20	3.87	14.80	4.28	15.70	4.29
	41	8.10	2.38	9.60	3.01	11.20	3.69	12.00	4.03	12.80	4.47	14.30	4.83	14.90	4.84
	43	7.90	2.57	9.50	3.25	11.00	3.99	11.80	4.35	12.60	4.83	14.10	5.12	14.50	5.13
	46	7.40	2.80	8.90	3.55	10.30	4.36	11.00	4.75	11.80	5.29	12.90	5.46	13.20	5.46
	48	6.60	2.45	7.90	3.10	9.10	3.81	9.80	4.15	10.40	4.58	11.20	4.70	11.50	4.70
70	10	7.30	1.07	8.70	1.27	10.10	1.47	10.90	1.59	11.60	1.70	13.00	1.94	14.40	2.17
	12	7.30	1.09	8.70	1.29	10.10	1.51	10.90	1.62	11.60	1.74	13.00	1.97	14.40	2.21
	14	7.30	1.10	8.70	1.31	10.10	1.53	10.90	1.64	11.60	1.76	13.00	2.01	14.40	2.25
	16	7.30	1.12	8.70	1.33	10.10	1.56	10.90	1.68	11.60	1.79	13.00	2.05	14.40	2.30
	18	7.30	1.14	8.70	1.36	10.10	1.59	10.90	1.71	11.60	1.83	13.00	2.08	14.40	2.34
	20	7.30	1.15	8.70	1.38	10.10	1.62	10.90	1.74	11.60	1.87	13.00	2.13	14.40	2.43
	21	7.30	1.17	8.70	1.39	10.10	1.63	10.90	1.76	11.60	1.89	13.00	2.17	14.40	2.50
	23	7.30	1.19	8.70	1.42	10.10	1.67	10.90	1.82	11.60	1.98	13.00	2.32	14.40	2.64
	25	7.30	1.20	8.70	1.47	10.10	1.78	10.90	1.95	11.60	2.11	13.00	2.48	14.40	2.83
	27	7.30	1.27	8.70	1.58	10.10	1.90	10.90	2.06	11.60	2.26	13.00	2.65	14.40	3.01
	29	7.30	1.36	8.70	1.67	10.10	2.01	10.90	2.20	11.60	2.40	13.00	2.82	14.40	3.22
	31	7.30	1.44	8.70	1.78	10.10	2.15	10.90	2.35	11.60	2.56	13.00	3.01	14.40	3.42
	33	7.30	1.52	8.70	1.88	10.10	2.28	10.90	2.49	11.60	2.72	13.00	3.20	14.40	3.60
	35	7.30	1.61	8.70	2.01	10.10	2.43	10.90	2.65	11.60	2.90	13.00	3.41	14.40	3.82
	37	7.30	1.71	8.70	2.12	10.10	2.58	10.90	2.82	11.60	3.08	13.00	3.63	14.40	4.03
	39	7.30	1.80	8.70	2.24	10.10	2.73	10.90	2.98	11.60	3.27	13.00	3.85	14.40	4.21
	41	7.00	2.07	8.40	2.58	9.80	3.15	10.50	3.43	11.20	3.77	12.50	4.45	13.90	4.83
	43	6.90	2.23	8.30	2.79	9.60	3.40	10.30	3.71	11.00	4.08	12.30	4.81	13.70	5.13
	46	6.50	2.43	7.80	3.04	9.00	3.72	9.70	4.05	10.30	4.46	11.50	5.26	12.80	5.46
	48	5.80	2.12	6.90	2.66	8.00	3.25	8.50	3.54	9.10	3.90	10.20	4.60	11.30	4.70
60	10	6.30	0.95	7.50	1.11	8.70	1.29	9.30	1.39	9.90	1.48	11.10	1.67	12.30	1.87
	12	6.30	0.97	7.50	1.13	8.70	1.31	9.30	1.41	9.90	1.50	11.10	1.70	12.30	1.91
	14	6.30	0.98	7.50	1.15	8.70	1.34	9.30	1.43	9.90	1.53	11.10	1.73	12.30	1.94
	16	6.30	0.99	7.50	1.17	8.70	1.35	9.30	1.46	9.90	1.56	11.10	1.77	12.30	1.98
	18	6.30	1.01	7.50	1.19	8.70	1.38	9.30	1.48	9.90	1.59	11.10	1.79	12.30	2.02
	20	6.30	1.03	7.50	1.21	8.70	1.41	9.30	1.51	9.90	1.61	11.10	1.83	12.30	2.06
	21	6.30	1.04	7.50	1.22	8.70	1.42	9.30	1.53	9.90	1.63	11.10	1.86	12.30	2.08
	23	6.30	1.05	7.50	1.24	8.70	1.44	9.30	1.55	9.90	1.67	11.10	1.92	12.30	2.21
	25	6.30	1.07	7.50	1.27	8.70	1.50	9.30	1.63	9.90	1.77	11.10	2.05	12.30	2.36
	27	6.30	1.10	7.50	1.34	8.70	1.60	9.30	1.73	9.90	1.88	11.10	2.18	12.30	2.52
	29	6.30	1.17	7.50	1.42	8.70	1.70	9.30	1.85	9.90	2.00	11.10	2.33	12.30	2.69
	31	6.30	1.24	7.50	1.51	8.70	1.80	9.30	1.97	9.90	2.13	11.10	2.49	12.30	2.86

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	33	6.30	1.31	7.50	1.60	8.70	1.92	9.30	2.09	9.90	2.27	11.10	2.64	12.30	3.05
	35	6.30	1.39	7.50	1.70	8.70	2.04	9.30	2.22	9.90	2.41	11.10	2.81	12.30	3.24
	37	6.30	1.47	7.50	1.79	8.70	2.16	9.30	2.36	9.90	2.55	11.10	2.99	12.30	3.45
	39	6.30	1.54	7.50	1.89	8.70	2.28	9.30	2.50	9.90	2.69	11.10	3.17	12.30	3.66
	41	6.00	1.76	7.20	2.18	8.40	2.63	9.00	2.88	9.60	3.11	10.70	3.66	11.90	4.23
	43	5.90	1.90	7.10	2.35	8.30	2.84	8.80	3.10	9.40	3.35	10.60	3.95	11.70	4.57
	46	5.60	2.06	6.70	2.56	7.70	3.10	8.30	3.38	8.80	3.66	9.90	4.32	11.00	5.00
	48	4.90	1.79	5.90	2.23	6.80	2.71	7.30	2.95	7.80	3.20	8.80	3.78	9.70	4.38
50	10	5.20	0.84	6.30	0.97	7.30	1.10	7.80	1.18	8.20	1.25	9.20	1.41	10.30	1.57
	12	5.20	0.85	6.30	0.98	7.30	1.12	7.80	1.20	8.20	1.28	9.20	1.44	10.30	1.60
	14	5.20	0.86	6.30	1.00	7.30	1.14	7.80	1.22	8.20	1.30	9.20	1.46	10.30	1.63
	16	5.20	0.87	6.30	1.02	7.30	1.16	7.80	1.25	8.20	1.32	9.20	1.48	10.30	1.65
	18	5.20	0.88	6.30	1.02	7.30	1.18	7.80	1.26	8.20	1.34	9.20	1.51	10.30	1.69
	20	5.20	0.89	6.30	1.04	7.30	1.20	7.80	1.28	8.20	1.37	9.20	1.54	10.30	1.72
	21	5.20	0.90	6.30	1.05	7.30	1.21	7.80	1.30	8.20	1.38	9.20	1.55	10.30	1.74
	23	5.20	0.92	6.30	1.07	7.30	1.23	7.80	1.32	8.20	1.40	9.20	1.58	10.30	1.78
	25	5.20	0.93	6.30	1.09	7.30	1.25	7.80	1.34	8.20	1.45	9.20	1.66	10.30	1.90
	27	5.20	0.95	6.30	1.12	7.30	1.33	7.80	1.43	8.20	1.54	9.20	1.78	10.30	2.02
	29	5.20	1.00	6.30	1.19	7.30	1.40	7.80	1.52	8.20	1.63	9.20	1.88	10.30	2.15
	31	5.20	1.05	6.30	1.26	7.30	1.49	7.80	1.61	8.20	1.74	9.20	2.01	10.30	2.29
	33	5.20	1.11	6.30	1.33	7.30	1.58	7.80	1.71	8.20	1.85	9.20	2.13	10.30	2.44
	35	5.20	1.18	6.30	1.41	7.30	1.67	7.80	1.81	8.20	1.95	9.20	2.25	10.30	2.59
	37	5.20	1.25	6.30	1.49	7.30	1.77	7.80	1.92	8.20	2.07	9.20	2.40	10.30	2.75
	39	5.20	1.30	6.30	1.57	7.30	1.87	7.80	2.02	8.20	2.17	9.20	2.53	10.30	2.91
	41	5.00	1.50	6.00	1.80	7.00	2.16	7.50	2.33	8.00	2.50	8.90	2.92	9.90	3.36
	43	5.00	1.61	5.90	1.94	6.90	2.32	7.40	2.51	7.80	2.70	8.80	3.15	9.80	3.62
	46	4.70	1.75	5.60	2.11	6.50	2.53	6.90	2.73	7.30	2.94	8.20	3.44	9.20	3.96
	48	4.10	1.52	4.90	1.84	5.70	2.20	6.10	2.39	6.50	2.56	7.30	3.01	8.10	3.46

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN080LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	17.50	1.65	22.10	2.46	27.00	3.83	29.10	4.50	31.40	5.26	33.40	5.97	35.00	6.56
	12	17.50	1.83	22.10	2.74	27.00	4.22	29.10	4.89	31.40	5.65	33.40	6.35	35.00	6.91
	14	17.50	2.04	22.10	3.05	27.00	4.64	29.10	5.31	31.40	6.08	33.40	6.76	35.00	7.29
	16	17.50	2.27	22.10	3.38	27.00	5.09	29.10	5.76	31.40	6.54	33.40	7.21	35.00	7.72
	18	17.50	2.52	22.10	3.75	27.00	5.56	29.10	6.25	31.40	7.03	33.40	7.69	35.00	8.18
	20	17.50	2.79	22.10	4.15	27.00	6.06	29.10	6.77	31.40	7.57	33.40	8.13	35.00	8.47
	21	17.50	2.94	22.10	4.37	27.00	6.33	29.10	7.05	31.40	7.76	33.40	8.26	35.00	8.58
	23	17.50	3.26	22.10	4.82	27.00	6.81	29.10	7.42	31.40	8.07	33.40	8.55	34.80	8.80
	25	17.50	3.61	22.10	5.29	27.00	7.16	29.10	7.77	31.40	8.41	33.40	8.87	34.50	9.04
	27	17.50	3.98	22.10	5.64	27.00	7.53	29.10	8.15	31.40	8.79	33.40	9.23	34.10	9.34
	29	17.50	4.25	22.10	6.01	27.00	7.92	29.10	8.56	31.40	9.21	33.20	9.60	33.70	9.68
	31	17.50	4.54	22.10	6.41	27.00	8.35	29.10	9.01	31.40	9.68	32.80	9.98	33.30	10.07
	33	17.50	4.85	22.10	6.84	27.00	8.81	29.10	9.50	31.40	10.21	32.40	10.42	32.80	10.51
	35	17.50	5.18	22.10	7.30	27.00	9.32	29.10	10.06	31.30	10.77	31.40	10.93	31.40	11.08
	37	17.50	5.54	22.10	7.81	27.00	9.88	29.10	10.69	29.30	10.77	29.30	10.77	29.30	10.78
	39	17.50	5.91	22.10	8.36	27.00	10.51	27.20	10.59	27.20	10.58	27.20	10.59	27.20	10.59
	41	17.50	6.32	22.10	8.92	25.10	10.31	25.10	10.30	25.10	10.32	25.10	10.31	25.10	10.32
	43	17.50	6.76	22.10	9.48	23.10	9.98	23.10	9.98	23.10	9.97	23.10	9.98	23.10	9.97
	46	17.50	7.48	20.20	9.33	20.20	9.30	20.20	9.31	20.20	9.29	20.20	9.32	20.10	9.29
	48	17.50	8.02	18.40	8.64	18.40	8.63	18.40	8.63	18.60	8.78	18.30	8.62	18.30	8.61
	50	16.70	8.02	16.70	8.02	16.60	8.01	16.60	8.00	16.60	8.00	16.60	7.99	16.60	7.98
	52	15.00	7.44	15.00	7.45	15.00	7.44	15.00	7.43	15.00	7.43	15.00	7.44	15.00	7.44
120	10	16.10	1.48	20.40	2.12	24.90	3.18	26.90	3.78	29.00	4.48	30.90	5.06	32.30	5.56
	12	16.10	1.63	20.40	2.36	24.90	3.52	26.90	4.16	29.00	4.87	30.90	5.46	32.30	5.95
	14	16.10	1.81	20.40	2.63	24.90	3.90	26.90	4.58	29.00	5.28	30.90	5.88	32.30	6.37
	16	16.10	2.01	20.40	2.92	24.90	4.30	26.90	5.03	29.00	5.73	30.90	6.34	32.30	6.83
	18	16.10	2.23	20.40	3.24	24.90	4.75	26.90	5.51	29.00	6.22	30.90	6.84	32.30	7.32
	20	16.10	2.47	20.40	3.60	24.90	5.23	26.90	6.01	29.00	6.74	30.90	7.38	32.30	7.84
	21	16.10	2.60	20.40	3.79	24.90	5.49	26.90	6.27	29.00	7.02	30.90	7.60	32.30	7.98
	23	16.10	2.88	20.40	4.19	24.90	6.04	26.90	6.76	29.00	7.40	30.90	7.92	32.30	8.29
	25	16.10	3.19	20.40	4.63	24.90	6.46	26.90	7.11	29.00	7.75	30.90	8.26	32.30	8.62
	27	16.10	3.53	20.40	4.98	24.90	6.87	26.90	7.48	29.00	8.13	30.90	8.64	32.30	9.00
	29	16.10	3.80	20.40	5.32	24.90	7.25	26.90	7.87	29.00	8.54	30.90	9.06	32.30	9.41
	31	16.10	4.07	20.40	5.67	24.90	7.66	26.90	8.30	29.00	8.99	30.90	9.52	32.30	9.88
	33	16.10	4.35	20.40	6.05	24.90	8.09	26.90	8.76	29.00	9.48	30.90	10.04	32.00	10.35
	35	16.10	4.64	20.40	6.46	24.90	8.56	26.90	9.26	29.00	10.03	30.90	10.64	31.40	10.84
	37	16.10	4.96	20.40	6.90	24.90	9.06	26.90	9.82	29.00	10.66	29.30	10.76	29.30	10.77
	39	16.10	5.30	20.40	7.38	24.90	9.61	26.90	10.44	27.20	10.59	27.20	10.59	27.20	10.59
	41	16.10	5.66	20.40	7.90	24.90	10.23	25.10	10.31	25.10	10.30	25.10	10.32	25.10	10.31
	43	16.10	6.05	20.40	8.48	23.10	9.97	23.10	9.97	23.10	9.98	23.10	9.97	23.10	9.97
	46	16.10	6.69	20.20	9.31	20.20	9.32	20.20	9.32	20.20	9.30	20.20	9.30	20.10	9.29
	48	16.10	7.16	18.40	8.63	18.40	8.64	18.40	8.62	18.40	8.63	18.30	8.62	18.30	8.60
	50	16.10	7.67	16.60	8.00	16.60	8.00	16.60	7.99	16.60	8.00	16.60	8.00	16.60	7.99
	52	15.00	7.46	15.00	7.45	15.00	7.44	15.00	7.43	15.00	7.45	15.00	7.44	15.00	7.43
110	10	14.80	1.33	18.70	1.83	22.90	2.64	24.60	3.09	26.60	3.69	28.30	4.26	29.60	4.66
	12	14.80	1.46	18.70	2.03	22.90	2.94	24.60	3.43	26.60	4.07	28.30	4.64	29.60	5.05
	14	14.80	1.61	18.70	2.26	22.90	3.26	24.60	3.79	26.60	4.48	28.30	5.05	29.60	5.47
	16	14.80	1.78	18.70	2.52	22.90	3.62	24.60	4.19	26.60	4.93	28.30	5.50	29.60	5.93
	18	14.80	1.97	18.70	2.80	22.90	4.00	24.60	4.63	26.60	5.42	28.30	5.98	29.60	6.42
	20	14.80	2.18	18.70	3.10	22.90	4.43	24.60	5.10	26.60	5.92	28.30	6.49	29.60	6.95

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	21	14.80	2.30	18.70	3.27	22.90	4.65	24.60	5.35	26.60	6.18	28.30	6.77	29.60	7.23
	23	14.80	2.54	18.70	3.62	22.90	5.14	24.60	5.90	26.60	6.68	28.30	7.19	29.60	7.57
	25	14.80	2.81	18.70	4.01	22.90	5.59	24.60	6.32	26.60	7.03	28.30	7.54	29.60	7.92
	27	14.80	3.11	18.70	4.37	22.90	5.96	24.60	6.72	26.60	7.40	28.30	7.91	29.60	8.30
	29	14.80	3.39	18.70	4.67	22.90	6.35	24.60	7.15	26.60	7.79	28.30	8.32	29.60	8.71
	31	14.80	3.62	18.70	4.99	22.90	6.77	24.60	7.55	26.60	8.21	28.30	8.76	29.60	9.16
	33	14.80	3.87	18.70	5.33	22.90	7.22	24.60	7.98	26.60	8.67	28.30	9.24	29.60	9.67
	35	14.80	4.14	18.70	5.69	22.90	7.71	24.60	8.44	26.60	9.17	28.30	9.77	29.60	10.23
	37	14.80	4.42	18.70	6.08	22.90	8.24	24.60	8.94	26.60	9.71	28.30	10.37	29.30	10.77
	39	14.80	4.73	18.70	6.49	22.90	8.74	24.60	9.48	26.60	10.33	27.20	10.59	27.20	10.59
	41	14.80	5.05	18.70	6.94	22.90	9.27	24.60	10.08	25.10	10.32	25.10	10.31	25.10	10.31
	43	14.80	5.40	18.70	7.43	22.90	9.86	23.10	9.99	23.10	9.98	23.10	9.97	23.10	9.97
	46	14.80	5.97	18.70	8.24	20.20	9.30	20.20	9.30	20.20	9.32	20.20	9.32	20.20	9.32
	48	14.80	6.38	18.40	8.64	18.40	8.64	18.40	8.64	18.40	8.63	18.30	8.62	18.30	8.62
	50	14.80	6.82	16.70	8.02	16.60	7.99	16.60	8.00	16.60	7.99	16.60	8.00	16.60	8.00
	52	14.80	7.30	15.00	7.45	15.00	7.43	15.00	7.44	15.00	7.45	14.60	7.17	15.00	7.44
100	10	13.50	1.20	17.00	1.58	20.80	2.19	22.40	2.53	24.20	2.97	25.70	3.41	26.90	3.80
	12	13.50	1.31	17.00	1.76	20.80	2.45	22.40	2.82	24.20	3.30	25.70	3.77	26.90	4.18
	14	13.50	1.44	17.00	1.95	20.80	2.72	22.40	3.13	24.20	3.65	25.70	4.16	26.90	4.60
	16	13.50	1.59	17.00	2.17	20.80	3.03	22.40	3.47	24.20	4.04	25.70	4.59	26.90	5.05
	18	13.50	1.75	17.00	2.40	20.80	3.36	22.40	3.85	24.20	4.46	25.70	5.05	26.90	5.52
	20	13.50	1.93	17.00	2.67	20.80	3.72	22.40	4.26	24.20	4.93	25.70	5.56	26.90	6.02
	21	13.50	2.02	17.00	2.81	20.80	3.92	22.40	4.48	24.20	5.17	25.70	5.83	26.90	6.29
	23	13.50	2.23	17.00	3.11	20.80	4.33	22.40	4.94	24.20	5.70	25.70	6.40	26.90	6.78
	25	13.50	2.47	17.00	3.45	20.80	4.79	22.40	5.41	24.20	6.13	25.70	6.75	26.90	7.12
	27	13.50	2.73	17.00	3.82	20.80	5.13	22.40	5.76	24.20	6.53	25.70	7.12	26.90	7.50
	29	13.50	3.00	17.00	4.08	20.80	5.47	22.40	6.14	24.20	6.95	25.70	7.51	26.90	7.89
	31	13.50	3.21	17.00	4.36	20.80	5.84	22.40	6.55	24.20	7.40	25.70	7.92	26.90	8.32
	33	13.50	3.43	17.00	4.66	20.80	6.23	22.40	6.99	24.20	7.82	25.70	8.36	26.90	8.78
	35	13.50	3.67	17.00	4.98	20.80	6.65	22.40	7.46	24.20	8.27	25.70	8.84	26.90	9.28
	37	13.50	3.92	17.00	5.32	20.80	7.11	22.40	7.98	24.20	8.76	25.70	9.37	26.90	9.84
	39	13.50	4.19	17.00	5.68	20.80	7.60	22.40	8.54	24.20	9.29	25.70	9.95	26.90	10.46
	41	13.50	4.48	17.00	6.07	20.80	8.15	22.40	9.06	24.20	9.88	25.10	10.31	25.10	10.32
	43	13.50	4.79	17.00	6.49	20.80	8.74	22.40	9.63	23.10	9.98	23.10	9.99	23.10	9.99
	46	13.50	5.29	17.00	7.18	20.20	9.33	20.20	9.32	20.20	9.31	20.20	9.31	20.20	9.31
	48	13.50	5.66	17.00	7.69	18.40	8.64	18.40	8.64	18.40	8.63	18.40	8.63	18.40	8.63
	50	13.50	6.05	16.70	8.02	16.60	8.00	16.60	8.00	16.60	7.99	16.60	7.99	16.60	8.01
	52	13.50	6.47	15.00	7.45	15.00	7.45	15.00	7.43	15.00	7.45	15.00	7.45	15.00	7.44
90	10	12.10	1.08	15.30	1.38	18.70	1.83	20.20	2.07	21.80	2.40	23.20	2.71	24.20	2.99
	12	12.10	1.19	15.30	1.52	18.70	2.04	20.20	2.31	21.80	2.67	23.20	3.01	24.20	3.31
	14	12.10	1.29	15.30	1.68	18.70	2.27	20.20	2.57	21.80	2.97	23.20	3.34	24.20	3.67
	16	12.10	1.41	15.30	1.86	18.70	2.52	20.20	2.86	21.80	3.29	23.20	3.70	24.20	4.06
	18	12.10	1.55	15.30	2.06	18.70	2.80	20.20	3.18	21.80	3.65	23.20	4.10	24.20	4.48
	20	12.10	1.70	15.30	2.28	18.70	3.11	20.20	3.53	21.80	4.04	23.20	4.53	24.20	4.94
	21	12.10	1.78	15.30	2.40	18.70	3.28	20.20	3.71	21.80	4.25	23.20	4.76	24.20	5.19
	23	12.10	1.96	15.30	2.66	18.70	3.63	20.20	4.11	21.80	4.70	23.20	5.25	24.20	5.72
	25	12.10	2.16	15.30	2.95	18.70	4.02	20.20	4.54	21.80	5.17	23.20	5.71	24.20	6.15
	27	12.10	2.38	15.30	3.26	18.70	4.38	20.20	4.89	21.80	5.51	23.20	6.08	24.20	6.54
	29	12.10	2.63	15.30	3.53	18.70	4.68	20.20	5.22	21.80	5.88	23.20	6.47	24.20	6.97
	31	12.10	2.82	15.30	3.78	18.70	5.00	20.20	5.57	21.80	6.27	23.20	6.90	24.20	7.42
	33	12.10	3.02	15.30	4.04	18.70	5.34	20.20	5.95	21.80	6.69	23.20	7.36	24.20	7.84

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	35	12.10	3.23	15.30	4.32	18.70	5.70	20.20	6.35	21.80	7.14	23.20	7.87	24.20	8.29
	37	12.10	3.45	15.30	4.62	18.70	6.09	20.20	6.78	21.80	7.63	23.20	8.35	24.20	8.78
	39	12.10	3.69	15.30	4.93	18.70	6.50	20.20	7.25	21.80	8.17	23.20	8.85	24.20	9.31
	41	12.10	3.95	15.30	5.27	18.70	6.95	20.20	7.76	21.80	8.77	23.20	9.40	24.20	9.89
	43	12.10	4.22	15.30	5.63	18.70	7.44	20.20	8.32	21.80	9.33	23.10	9.98	23.10	9.98
	46	12.10	4.67	15.30	6.22	18.70	8.26	20.20	9.28	20.20	9.33	20.20	9.32	20.20	9.30
	48	12.10	4.99	15.30	6.65	18.40	8.64	18.40	8.63	18.40	8.62	18.30	8.61	18.30	8.62
	50	12.10	5.34	15.30	7.12	16.70	8.02	16.60	8.01	16.60	8.01	16.60	8.00	16.60	8.00
	52	12.10	5.70	15.00	7.46	15.00	7.44	15.00	7.44	15.00	7.45	15.00	7.45	15.00	7.45
80	10	10.80	0.94	13.60	1.21	16.60	1.53	17.90	1.71	19.40	1.93	20.60	2.15	21.50	2.35
	12	10.80	1.08	13.60	1.33	16.60	1.70	17.90	1.90	19.40	2.16	20.60	2.40	21.50	2.61
	14	10.80	1.16	13.60	1.46	16.60	1.89	17.90	2.11	19.40	2.40	20.60	2.67	21.50	2.91
	16	10.80	1.26	13.60	1.60	16.60	2.10	17.90	2.35	19.40	2.67	20.60	2.97	21.50	3.23
	18	10.80	1.37	13.60	1.77	16.60	2.33	17.90	2.61	19.40	2.97	20.60	3.30	21.50	3.58
	20	10.80	1.49	13.60	1.95	16.60	2.58	17.90	2.90	19.40	3.29	20.60	3.66	21.50	3.97
	21	10.80	1.56	13.60	2.05	16.60	2.72	17.90	3.05	19.40	3.46	20.60	3.85	21.50	4.17
	23	10.80	1.71	13.60	2.26	16.60	3.01	17.90	3.38	19.40	3.84	20.60	4.26	21.50	4.61
	25	10.80	1.88	13.60	2.50	16.60	3.34	17.90	3.75	19.40	4.25	20.60	4.71	21.50	5.08
	27	10.80	2.07	13.60	2.77	16.60	3.69	17.90	4.11	19.40	4.61	20.60	5.05	21.50	5.42
	29	10.80	2.27	13.60	3.04	16.60	3.96	17.90	4.39	19.40	4.92	20.60	5.39	21.50	5.78
	31	10.80	2.46	13.60	3.25	16.60	4.23	17.90	4.69	19.40	5.25	20.60	5.75	21.50	6.17
	33	10.80	2.63	13.60	3.47	16.60	4.52	17.90	5.02	19.40	5.60	20.60	6.14	21.50	6.58
	35	10.80	2.82	13.60	3.71	16.60	4.83	17.90	5.36	19.40	5.98	20.60	6.55	21.50	7.02
	37	10.80	3.01	13.60	3.97	16.60	5.16	17.90	5.72	19.40	6.39	20.60	7.00	21.50	7.51
	39	10.80	3.22	13.60	4.25	16.60	5.52	17.90	6.11	19.40	6.83	20.60	7.49	21.50	8.03
	41	10.80	3.45	13.60	4.54	16.60	5.89	17.90	6.53	19.40	7.30	20.60	8.02	21.50	8.62
	43	10.80	3.69	13.60	4.85	16.60	6.30	17.90	6.98	19.40	7.82	20.60	8.60	21.50	9.22
	46	10.80	4.09	13.60	5.36	16.60	6.97	17.90	7.74	19.40	8.70	20.20	9.32	20.20	9.32
	48	10.80	4.37	13.60	5.73	16.60	7.46	17.90	8.30	18.40	8.64	18.40	8.63	18.40	8.63
	50	10.80	4.68	13.60	6.12	16.60	8.00	16.60	8.01	16.60	8.01	16.60	8.00	16.60	7.99
	52	10.80	5.00	13.60	6.55	15.00	7.46	15.00	7.45	15.00	7.45	15.00	7.44	15.00	7.44
70	10	9.40	0.82	11.90	1.06	14.60	1.30	15.70	1.42	16.90	1.57	18.00	1.72	18.80	1.85
	12	9.40	0.99	11.90	1.17	14.60	1.43	15.70	1.57	16.90	1.75	18.00	1.92	18.80	2.06
	14	9.40	1.05	11.90	1.27	14.60	1.58	15.70	1.74	16.90	1.94	18.00	2.13	18.80	2.30
	16	9.40	1.13	11.90	1.39	14.60	1.75	15.70	1.93	16.90	2.16	18.00	2.37	18.80	2.55
	18	9.40	1.22	11.90	1.52	14.60	1.93	15.70	2.14	16.90	2.39	18.00	2.63	18.80	2.84
	20	9.40	1.32	11.90	1.66	14.60	2.13	15.70	2.37	16.90	2.65	18.00	2.92	18.80	3.15
	21	9.40	1.37	11.90	1.74	14.60	2.24	15.70	2.49	16.90	2.80	18.00	3.08	18.80	3.32
	23	9.40	1.49	11.90	1.92	14.60	2.48	15.70	2.76	16.90	3.10	18.00	3.41	18.80	3.67
	25	9.40	1.63	11.90	2.11	14.60	2.75	15.70	3.05	16.90	3.43	18.00	3.78	18.80	4.06
	27	9.40	1.78	11.90	2.33	14.60	3.04	15.70	3.38	16.90	3.80	18.00	4.14	18.80	4.43
	29	9.40	1.96	11.90	2.57	14.60	3.31	15.70	3.65	16.90	4.06	18.00	4.43	18.80	4.73
	31	9.40	2.14	11.90	2.76	14.60	3.54	15.70	3.91	16.90	4.34	18.00	4.73	18.80	5.05
	33	9.40	2.28	11.90	2.95	14.60	3.79	15.70	4.17	16.90	4.64	18.00	5.05	18.80	5.39
	35	9.40	2.44	11.90	3.16	14.60	4.05	15.70	4.46	16.90	4.95	18.00	5.40	18.80	5.76
	37	9.40	2.60	11.90	3.38	14.60	4.33	15.70	4.77	16.90	5.29	18.00	5.76	18.80	6.15
	39	9.40	2.79	11.90	3.61	14.60	4.63	15.70	5.09	16.90	5.65	18.00	6.16	18.80	6.57
	41	9.40	2.99	11.90	3.87	14.60	4.94	15.70	5.44	16.90	6.04	18.00	6.58	18.80	7.03
	43	9.40	3.20	11.90	4.14	14.60	5.28	15.70	5.82	16.90	6.46	18.00	7.04	18.80	7.52
	46	9.40	3.55	11.90	4.57	14.60	5.84	15.70	6.43	16.90	7.14	18.00	7.80	18.80	8.35
	48	9.40	3.80	11.90	4.89	14.60	6.24	15.70	6.88	16.90	7.65	18.00	8.37	18.40	8.64

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70	50	9.40	4.07	11.90	5.23	14.60	6.67	15.70	7.36	16.70	8.01	16.70	8.01	16.60	8.01
	52	9.40	4.35	11.90	5.59	14.60	7.14	15.00	7.45	15.00	7.44	15.00	7.45	15.00	7.44
60	10	8.10	0.72	10.20	0.89	12.50	1.12	13.40	1.20	14.50	1.30	15.40	1.39	16.20	1.48
	12	8.10	0.91	10.20	1.04	12.50	1.22	13.40	1.31	14.50	1.43	15.40	1.54	16.20	1.64
	14	8.10	0.96	10.20	1.12	12.50	1.33	13.40	1.44	14.50	1.58	15.40	1.70	16.20	1.81
	16	8.10	1.02	10.20	1.20	12.50	1.46	13.40	1.58	14.50	1.74	15.40	1.89	16.20	2.01
	18	8.10	1.09	10.20	1.30	12.50	1.60	13.40	1.74	14.50	1.92	15.40	2.09	16.20	2.23
	20	8.10	1.16	10.20	1.42	12.50	1.76	13.40	1.92	14.50	2.13	15.40	2.31	16.20	2.47
	21	8.10	1.21	10.20	1.48	12.50	1.84	13.40	2.02	14.50	2.24	15.40	2.44	16.20	2.60
	23	8.10	1.30	10.20	1.62	12.50	2.03	13.40	2.23	14.50	2.47	15.40	2.70	16.20	2.89
	25	8.10	1.41	10.20	1.77	12.50	2.24	13.40	2.46	14.50	2.74	15.40	2.99	16.20	3.19
	27	8.10	1.53	10.20	1.94	12.50	2.47	13.40	2.72	14.50	3.03	15.40	3.30	16.20	3.53
	29	8.10	1.67	10.20	2.14	12.50	2.73	13.40	2.99	14.50	3.30	15.40	3.58	16.20	3.80
	31	8.10	1.83	10.20	2.32	12.50	2.92	13.40	3.20	14.50	3.53	15.40	3.83	16.20	4.07
	33	8.10	1.96	10.20	2.48	12.50	3.12	13.40	3.42	14.50	3.77	15.40	4.09	16.20	4.35
	35	8.10	2.09	10.20	2.65	12.50	3.34	13.40	3.66	14.50	4.04	15.40	4.37	16.20	4.65
	37	8.10	2.23	10.20	2.84	12.50	3.57	13.40	3.91	14.50	4.31	15.40	4.67	16.20	4.96
	39	8.10	2.39	10.20	3.04	12.50	3.82	13.40	4.18	14.50	4.61	15.40	4.99	16.20	5.30
	41	8.10	2.56	10.20	3.25	12.50	4.09	13.40	4.47	14.50	4.93	15.40	5.33	16.20	5.67
	43	8.10	2.74	10.20	3.48	12.50	4.37	13.40	4.78	14.50	5.27	15.40	5.70	16.20	6.06
	46	8.10	3.04	10.20	3.85	12.50	4.83	13.40	5.28	14.50	5.82	15.40	6.30	16.20	6.69
	48	8.10	3.26	10.20	4.12	12.50	5.17	13.40	5.65	14.50	6.22	15.40	6.74	16.20	7.16
	50	8.10	3.50	10.20	4.41	12.50	5.52	13.40	6.04	14.50	6.65	15.40	7.21	16.20	7.67
	52	8.10	3.75	10.20	4.72	12.50	5.90	13.40	6.45	14.50	7.12	15.00	7.44	15.00	7.46
50	10	6.70	0.59	8.50	0.75	10.40	0.90	11.20	0.98	12.10	1.08	12.90	1.15	13.50	1.20
	12	6.70	0.71	8.50	0.93	10.40	1.05	11.20	1.11	12.10	1.19	12.90	1.26	13.50	1.31
	14	6.70	0.83	8.50	0.99	10.40	1.13	11.20	1.20	12.10	1.29	12.90	1.37	13.50	1.44
	16	6.70	0.88	8.50	1.05	10.40	1.22	11.20	1.31	12.10	1.41	12.90	1.51	13.50	1.59
	18	6.70	0.93	8.50	1.13	10.40	1.33	11.20	1.42	12.10	1.54	12.90	1.65	13.50	1.75
	20	6.70	1.00	8.50	1.21	10.40	1.44	11.20	1.56	12.10	1.69	12.90	1.82	13.50	1.93
	21	6.70	1.03	8.50	1.26	10.40	1.51	11.20	1.63	12.10	1.78	12.90	1.91	13.50	2.02
	23	6.70	1.11	8.50	1.36	10.40	1.65	11.20	1.79	12.10	1.96	12.90	2.11	13.50	2.24
	25	6.70	1.19	8.50	1.48	10.40	1.81	11.20	1.96	12.10	2.15	12.90	2.33	13.50	2.47
	27	6.70	1.29	8.50	1.61	10.40	1.98	11.20	2.16	12.10	2.38	12.90	2.57	13.50	2.73
	29	6.70	1.41	8.50	1.76	10.40	2.18	11.20	2.38	12.10	2.62	12.90	2.84	13.50	3.00
	31	6.70	1.53	8.50	1.93	10.40	2.37	11.20	2.57	12.10	2.82	12.90	3.03	13.50	3.21
	33	6.70	1.65	8.50	2.05	10.40	2.53	11.20	2.75	12.10	3.01	12.90	3.24	13.50	3.43
	35	6.70	1.76	8.50	2.19	10.40	2.71	11.20	2.94	12.10	3.22	12.90	3.47	13.50	3.67
	37	6.70	1.88	8.50	2.34	10.40	2.90	11.20	3.15	12.10	3.44	12.90	3.71	13.50	3.92
	39	6.70	2.01	8.50	2.51	10.40	3.10	11.20	3.37	12.10	3.69	12.90	3.97	13.50	4.19
	41	6.70	2.16	8.50	2.69	10.40	3.32	11.20	3.61	12.10	3.94	12.90	4.24	13.50	4.48
	43	6.70	2.31	8.50	2.88	10.40	3.55	11.20	3.86	12.10	4.22	12.90	4.54	13.50	4.79
	46	6.70	2.57	8.50	3.19	10.40	3.93	11.20	4.27	12.10	4.66	12.90	5.01	13.50	5.30
	48	6.70	2.76	8.50	3.43	10.40	4.21	11.20	4.57	12.10	4.98	12.90	5.36	13.50	5.66
	50	6.70	2.97	8.50	3.67	10.40	4.50	11.20	4.88	12.10	5.33	12.90	5.73	13.50	6.05
	52	6.70	3.19	8.50	3.93	10.40	4.82	11.20	5.22	12.10	5.69	12.90	6.12	13.50	6.47

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN100LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	21.90	2.33	27.60	3.18	33.80	4.57	36.40	5.34	39.30	6.36	41.80	7.16	43.80	7.81
	12	21.90	2.54	27.60	3.51	33.80	5.04	36.40	5.87	39.30	6.95	41.80	7.75	43.80	8.41
	14	21.90	2.79	27.60	3.88	33.80	5.56	36.40	6.46	39.30	7.56	41.80	8.38	43.80	9.05
	16	21.90	3.06	27.60	4.28	33.80	6.13	36.40	7.09	39.30	8.22	41.80	9.07	43.80	9.75
	18	21.90	3.36	27.60	4.73	33.80	6.74	36.40	7.78	39.30	8.93	41.80	9.81	43.80	10.50
	20	21.90	3.69	27.60	5.21	33.80	7.42	36.40	8.54	39.30	9.69	41.80	10.60	43.80	11.21
	21	21.90	3.87	27.60	5.47	33.80	7.78	36.40	8.95	39.30	10.10	41.80	10.87	43.80	11.44
	23	21.90	4.25	27.60	6.03	33.80	8.55	36.40	9.67	39.30	10.60	41.80	11.36	43.80	11.93
	25	21.90	4.68	27.60	6.64	33.80	9.08	36.40	10.19	39.30	11.13	41.80	11.89	43.80	12.46
	27	21.90	5.15	27.60	7.10	33.80	9.65	36.40	10.73	39.30	11.69	41.80	12.47	43.80	13.04
	29	21.90	5.50	27.60	7.56	33.80	10.27	36.40	11.31	39.30	12.30	41.80	13.10	43.80	13.68
	31	21.90	5.87	27.60	8.06	33.80	10.94	36.40	11.93	39.30	12.95	41.80	13.79	43.80	14.40
	33	21.90	6.25	27.60	8.58	33.80	11.62	36.40	12.59	39.30	13.67	41.80	14.56	43.40	15.12
	35	21.90	6.67	27.60	9.15	33.80	12.28	36.40	13.31	39.30	14.47	40.40	14.90	40.40	14.90
	37	21.90	7.11	27.60	9.76	33.80	13.00	36.40	14.10	37.50	14.57	37.40	14.56	37.40	14.55
	39	21.90	7.58	27.60	10.41	33.80	13.78	34.50	14.13	34.50	14.12	34.50	14.13	34.50	14.12
	41	21.90	8.08	27.60	11.13	31.70	13.64	31.70	13.63	31.70	13.63	31.70	13.63	31.70	13.64
	43	21.90	8.62	27.60	11.91	29.00	12.86	29.00	12.85	29.00	12.86	29.00	12.85	29.00	12.86
	46	21.90	9.50	25.20	11.53	25.20	11.52	25.10	11.50	25.20	11.51	25.20	11.52	25.20	11.51
	48	21.90	10.14	22.80	10.71	22.80	10.73	22.80	10.71	23.20	10.99	22.80	10.71	22.80	10.72
	50	20.60	10.01	20.50	9.99	20.50	9.98	20.50	10.01	20.60	10.01	20.50	9.98	20.50	9.99
	52	18.50	9.37	18.40	9.36	18.40	9.35	18.40	9.36	18.40	9.35	18.40	9.34	18.40	9.35
120	10	20.20	2.15	25.50	2.82	31.20	3.92	33.60	4.52	36.30	5.31	38.60	6.09	40.40	6.71
	12	20.20	2.33	25.50	3.11	31.20	4.33	33.60	4.99	36.30	5.84	38.60	6.68	40.40	7.29
	14	20.20	2.54	25.50	3.43	31.20	4.78	33.60	5.50	36.30	6.42	38.60	7.31	40.40	7.91
	16	20.20	2.77	25.50	3.78	31.20	5.28	33.60	6.06	36.30	7.05	38.60	7.97	40.40	8.58
	18	20.20	3.04	25.50	4.17	31.20	5.82	33.60	6.67	36.30	7.74	38.60	8.68	40.40	9.30
	20	20.20	3.33	25.50	4.59	31.20	6.41	33.60	7.33	36.30	8.50	38.60	9.43	40.40	10.09
	21	20.20	3.48	25.50	4.82	31.20	6.73	33.60	7.69	36.30	8.90	38.60	9.83	40.40	10.44
	23	20.20	3.82	25.50	5.31	31.20	7.41	33.60	8.45	36.30	9.62	38.60	10.38	40.40	10.94
	25	20.20	4.20	25.50	5.85	31.20	8.00	33.60	9.00	36.30	10.16	38.60	10.90	40.40	11.47
	27	20.20	4.61	25.50	6.34	31.20	8.51	33.60	9.56	36.30	10.70	38.60	11.46	40.40	12.03
	29	20.20	4.98	25.50	6.75	31.20	9.06	33.60	10.17	36.30	11.28	38.60	12.06	40.40	12.65
	31	20.20	5.31	25.50	7.20	31.20	9.65	33.60	10.84	36.30	11.89	38.60	12.70	40.40	13.32
	33	20.20	5.66	25.50	7.67	31.20	10.28	33.60	11.54	36.30	12.56	38.60	13.41	40.40	14.06
	35	20.20	6.03	25.50	8.17	31.20	10.97	33.60	12.20	36.30	13.27	38.60	14.18	40.40	14.89
	37	20.20	6.43	25.50	8.71	31.20	11.72	33.60	12.91	36.30	14.06	37.50	14.57	37.50	14.57
	39	20.20	6.85	25.50	9.29	31.20	12.54	33.60	13.69	34.50	14.12	34.60	14.14	34.50	14.13
	41	20.20	7.31	25.50	9.92	31.20	13.37	31.70	13.64	31.70	13.64	31.70	13.63	31.70	13.65
	43	20.20	7.79	25.50	10.59	29.00	12.88	29.00	12.87	29.00	12.86	29.00	12.87	29.00	12.85
	46	20.20	8.58	25.20	11.52	25.20	11.52	25.20	11.52	25.20	11.51	25.10	11.50	25.20	11.53
	48	20.20	9.16	22.80	10.73	22.80	10.71	22.80	10.72	22.80	10.71	22.70	10.70	22.80	10.72
	50	20.20	9.77	20.50	9.99	20.50	10.00	20.50	10.00	20.50	10.00	19.90	9.60	20.50	9.99
	52	18.50	9.37	18.50	9.36	18.40	9.35	18.40	9.35	18.40	9.35	18.40	9.34	18.40	9.36
110	10	18.50	1.99	23.40	2.51	28.60	3.36	30.80	3.83	33.30	4.43	35.40	5.03	37.00	5.55
	12	18.50	2.14	23.40	2.76	28.60	3.72	30.80	4.23	33.30	4.89	35.40	5.54	37.00	6.10
	14	18.50	2.32	23.40	3.03	28.60	4.11	30.80	4.67	33.30	5.40	35.40	6.09	37.00	6.69
	16	18.50	2.52	23.40	3.33	28.60	4.53	30.80	5.16	33.30	5.95	35.40	6.70	37.00	7.35
	18	18.50	2.75	23.40	3.67	28.60	5.00	30.80	5.69	33.30	6.55	35.40	7.36	37.00	8.06
	20	18.50	3.00	23.40	4.04	28.60	5.52	30.80	6.27	33.30	7.20	35.40	8.09	37.00	8.84

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	21	18.50	3.14	23.40	4.24	28.60	5.80	30.80	6.58	33.30	7.56	35.40	8.48	37.00	9.26
	23	18.50	3.43	23.40	4.67	28.60	6.39	30.80	7.24	33.30	8.31	35.40	9.22	37.00	9.88
	25	18.50	3.76	23.40	5.14	28.60	7.01	30.80	7.85	33.30	8.86	35.40	9.79	37.00	10.40
	27	18.50	4.12	23.40	5.63	28.60	7.47	30.80	8.35	33.30	9.42	35.40	10.40	37.00	10.95
	29	18.50	4.49	23.40	6.00	28.60	7.95	30.80	8.89	33.30	10.02	35.40	10.96	37.00	11.53
	31	18.50	4.78	23.40	6.40	28.60	8.47	30.80	9.46	33.30	10.67	35.40	11.57	37.00	12.15
	33	18.50	5.09	23.40	6.82	28.60	9.03	30.80	10.08	33.30	11.38	35.40	12.21	37.00	12.83
	35	18.50	5.43	23.40	7.27	28.60	9.62	30.80	10.75	33.30	12.07	35.40	12.91	37.00	13.57
	37	18.50	5.79	23.40	7.75	28.60	10.27	30.80	11.49	33.30	12.78	35.40	13.67	37.00	14.38
	39	18.50	6.17	23.40	8.26	28.60	10.96	30.80	12.29	33.30	13.54	34.60	14.13	34.60	14.14
	41	18.50	6.58	23.40	8.81	28.60	11.72	30.80	13.18	31.70	13.63	31.70	13.64	31.70	13.64
	43	18.50	7.02	23.40	9.40	28.60	12.56	29.00	12.85	29.00	12.88	29.00	12.86	29.00	12.85
	46	18.50	7.73	23.40	10.37	25.20	11.51	25.20	11.50	25.20	11.53	25.20	11.53	25.20	11.53
	48	18.50	8.24	22.80	10.73	22.80	10.73	22.80	10.73	22.80	10.72	22.80	10.72	22.80	10.71
	50	18.50	8.79	20.50	10.00	20.50	10.00	20.50	10.01	20.50	9.99	20.50	9.99	20.50	9.98
	52	18.50	9.37	18.70	9.49	18.50	9.36	18.40	9.36	18.40	9.36	18.20	9.23	18.40	9.34
100	10	16.80	1.85	21.20	2.26	26.00	2.90	28.00	3.25	30.20	3.70	32.20	4.15	33.70	4.54
	12	16.80	1.98	21.20	2.46	26.00	3.20	28.00	3.59	30.20	4.09	32.20	4.58	33.70	5.01
	14	16.80	2.13	21.20	2.69	26.00	3.53	28.00	3.96	30.20	4.52	32.20	5.06	33.70	5.52
	16	16.80	2.30	21.20	2.95	26.00	3.89	28.00	4.38	30.20	4.99	32.20	5.58	33.70	6.08
	18	16.80	2.49	21.20	3.23	26.00	4.29	28.00	4.83	30.20	5.51	32.20	6.15	33.70	6.69
	20	16.80	2.71	21.20	3.55	26.00	4.73	28.00	5.33	30.20	6.07	32.20	6.77	33.70	7.36
	21	16.80	2.82	21.20	3.72	26.00	4.97	28.00	5.60	30.20	6.38	32.20	7.10	33.70	7.72
	23	16.80	3.08	21.20	4.09	26.00	5.48	28.00	6.17	30.20	7.02	32.20	7.82	33.70	8.49
	25	16.80	3.36	21.20	4.49	26.00	6.03	28.00	6.79	30.20	7.63	32.20	8.39	33.70	9.03
	27	16.80	3.68	21.20	4.94	26.00	6.51	28.00	7.24	30.20	8.12	32.20	8.93	33.70	9.59
	29	16.80	4.03	21.20	5.30	26.00	6.94	28.00	7.71	30.20	8.65	32.20	9.50	33.70	10.21
	31	16.80	4.29	21.20	5.65	26.00	7.39	28.00	8.22	30.20	9.21	32.20	10.12	33.70	10.87
	33	16.80	4.57	21.20	6.03	26.00	7.88	28.00	8.75	30.20	9.81	32.20	10.78	33.70	11.57
	35	16.80	4.87	21.20	6.42	26.00	8.40	28.00	9.33	30.20	10.46	32.20	11.51	33.70	12.23
	37	16.80	5.19	21.20	6.85	26.00	8.95	28.00	9.95	30.20	11.17	32.20	12.30	33.70	12.94
	39	16.80	5.53	21.20	7.30	26.00	9.55	28.00	10.62	30.20	11.94	32.20	13.04	33.70	13.72
	41	16.80	5.90	21.20	7.78	26.00	10.19	28.00	11.35	30.20	12.80	31.80	13.65	31.70	13.63
	43	16.80	6.29	21.20	8.30	26.00	10.89	28.00	12.16	29.00	12.87	29.00	12.85	29.00	12.88
	46	16.80	6.93	21.20	9.15	25.20	11.51	25.20	11.53	25.20	11.52	25.20	11.52	25.20	11.53
	48	16.80	7.39	21.20	9.76	22.80	10.74	22.80	10.74	22.80	10.73	22.80	10.73	22.80	10.73
	50	16.80	7.88	20.60	10.02	20.60	10.02	20.50	9.99	20.60	10.01	20.60	10.01	20.50	10.01
	52	16.80	8.41	18.50	9.37	18.20	9.20	18.40	9.34	18.50	9.36	18.50	9.37	18.40	9.36
90	10	15.10	1.61	19.10	2.04	23.40	2.52	25.20	2.77	27.20	3.11	28.90	3.43	30.30	3.72
	12	15.10	1.84	19.10	2.21	23.40	2.76	25.20	3.06	27.20	3.43	28.90	3.79	30.30	4.11
	14	15.10	1.97	19.10	2.40	23.40	3.04	25.20	3.37	27.20	3.79	28.90	4.19	30.30	4.54
	16	15.10	2.11	19.10	2.61	23.40	3.34	25.20	3.71	27.20	4.18	28.90	4.63	30.30	5.01
	18	15.10	2.26	19.10	2.85	23.40	3.68	25.20	4.09	27.20	4.62	28.90	5.11	30.30	5.53
	20	15.10	2.44	19.10	3.11	23.40	4.05	25.20	4.51	27.20	5.09	28.90	5.63	30.30	6.09
	21	15.10	2.54	19.10	3.26	23.40	4.25	25.20	4.74	27.20	5.35	28.90	5.92	30.30	6.39
	23	15.10	2.76	19.10	3.57	23.40	4.68	25.20	5.22	27.20	5.89	28.90	6.52	30.30	7.04
	25	15.10	3.00	19.10	3.92	23.40	5.15	25.20	5.75	27.20	6.49	28.90	7.14	30.30	7.65
	27	15.10	3.27	19.10	4.30	23.40	5.64	25.20	6.23	27.20	6.95	28.90	7.61	30.30	8.14
	29	15.10	3.57	19.10	4.66	23.40	6.01	25.20	6.64	27.20	7.41	28.90	8.10	30.30	8.67
	31	15.10	3.83	19.10	4.97	23.40	6.41	25.20	7.08	27.20	7.89	28.90	8.63	30.30	9.23
	33	15.10	4.07	19.10	5.29	23.40	6.83	25.20	7.55	27.20	8.41	28.90	9.19	30.30	9.84

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	35	15.10	4.34	19.10	5.64	23.40	7.28	25.20	8.04	27.20	8.96	28.90	9.80	30.30	10.49
	37	15.10	4.62	19.10	6.02	23.40	7.76	25.20	8.57	27.20	9.56	28.90	10.45	30.30	11.20
	39	15.10	4.93	19.10	6.41	23.40	8.27	25.20	9.14	27.20	10.20	28.90	11.17	30.30	11.98
	41	15.10	5.26	19.10	6.84	23.40	8.82	25.20	9.76	27.20	10.89	28.90	11.94	30.30	12.83
	43	15.10	5.61	19.10	7.29	23.40	9.41	25.20	10.42	27.20	11.65	28.90	12.81	29.00	12.86
	46	15.10	6.18	19.10	8.03	23.40	10.38	25.20	11.52	25.20	11.54	25.20	11.53	25.20	11.51
	48	15.10	6.59	19.10	8.57	22.80	10.75	22.80	10.74	22.80	10.73	22.80	10.72	22.80	10.73
	50	15.10	7.03	19.10	9.14	20.50	10.00	20.50	9.99	20.60	10.01	20.60	10.01	20.60	10.01
	52	15.10	7.50	18.50	9.37	18.50	9.37	18.50	9.37	18.50	9.36	18.50	9.36	18.40	9.36
80	10	13.50	1.37	17.00	1.86	20.80	2.21	22.40	2.39	24.20	2.63	25.70	2.86	26.90	3.06
	12	13.50	1.72	17.00	2.00	20.80	2.40	22.40	2.62	24.20	2.89	25.70	3.15	26.90	3.37
	14	13.50	1.82	17.00	2.15	20.80	2.63	22.40	2.87	24.20	3.18	25.70	3.47	26.90	3.73
	16	13.50	1.93	17.00	2.32	20.80	2.87	22.40	3.15	24.20	3.50	25.70	3.83	26.90	4.11
	18	13.50	2.06	17.00	2.52	20.80	3.15	22.40	3.46	24.20	3.86	25.70	4.23	26.90	4.54
	20	13.50	2.21	17.00	2.73	20.80	3.45	22.40	3.81	24.20	4.25	25.70	4.66	26.90	5.01
	21	13.50	2.29	17.00	2.85	20.80	3.62	22.40	3.99	24.20	4.46	25.70	4.89	26.90	5.26
	23	13.50	2.47	17.00	3.11	20.80	3.97	22.40	4.39	24.20	4.91	25.70	5.39	26.90	5.79
	25	13.50	2.67	17.00	3.40	20.80	4.37	22.40	4.83	24.20	5.41	25.70	5.94	26.90	6.38
	27	13.50	2.90	17.00	3.72	20.80	4.80	22.40	5.32	24.20	5.90	25.70	6.42	26.90	6.85
	29	13.50	3.16	17.00	4.07	20.80	5.16	22.40	5.67	24.20	6.29	25.70	6.84	26.90	7.29
	31	13.50	3.40	17.00	4.34	20.80	5.50	22.40	6.05	24.20	6.70	25.70	7.29	26.90	7.77
	33	13.50	3.62	17.00	4.62	20.80	5.87	22.40	6.45	24.20	7.14	25.70	7.77	26.90	8.28
	35	13.50	3.85	17.00	4.92	20.80	6.25	22.40	6.87	24.20	7.61	25.70	8.28	26.90	8.83
	37	13.50	4.10	17.00	5.25	20.80	6.67	22.40	7.33	24.20	8.11	25.70	8.83	26.90	9.41
	39	13.50	4.37	17.00	5.59	20.80	7.11	22.40	7.81	24.20	8.65	25.70	9.41	26.90	10.04
	41	13.50	4.66	17.00	5.97	20.80	7.58	22.40	8.33	24.20	9.23	25.70	10.05	26.90	10.72
	43	13.50	4.97	17.00	6.36	20.80	8.08	22.40	8.88	24.20	9.85	25.70	10.73	26.90	11.47
	46	13.50	5.48	17.00	7.01	20.80	8.90	22.40	9.79	24.20	10.88	25.20	11.51	25.20	11.54
	48	13.50	5.85	17.00	7.47	20.80	9.50	22.40	10.46	22.80	10.73	22.80	10.72	22.80	10.72
	50	13.50	6.24	17.00	7.97	20.60	10.02	20.60	10.01	20.60	10.00	20.50	10.00	20.50	10.00
	52	13.50	6.66	17.00	8.50	18.50	9.36	18.50	9.36	18.40	9.35	18.40	9.35	18.40	9.35
70	10	11.80	1.18	14.90	1.57	18.20	1.96	19.60	2.09	21.20	2.25	22.50	2.41	23.60	2.54
	12	11.80	1.62	14.90	1.82	18.20	2.11	19.60	2.26	21.20	2.45	22.50	2.63	23.60	2.79
	14	11.80	1.70	14.90	1.94	18.20	2.29	19.60	2.46	21.20	2.68	22.50	2.89	23.60	3.07
	16	11.80	1.78	14.90	2.08	18.20	2.48	19.60	2.68	21.20	2.93	22.50	3.17	23.60	3.37
	18	11.80	1.89	14.90	2.23	18.20	2.70	19.60	2.93	21.20	3.22	22.50	3.49	23.60	3.71
	20	11.80	2.01	14.90	2.40	18.20	2.94	19.60	3.21	21.20	3.53	22.50	3.83	23.60	4.09
	21	11.80	2.07	14.90	2.50	18.20	3.08	19.60	3.36	21.20	3.70	22.50	4.02	23.60	4.29
	23	11.80	2.22	14.90	2.71	18.20	3.36	19.60	3.68	21.20	4.07	22.50	4.43	23.60	4.72
	25	11.80	2.38	14.90	2.94	18.20	3.68	19.60	4.04	21.20	4.47	22.50	4.87	23.60	5.20
	27	11.80	2.57	14.90	3.21	18.20	4.04	19.60	4.44	21.20	4.92	22.50	5.36	23.60	5.69
	29	11.80	2.78	14.90	3.50	18.20	4.40	19.60	4.80	21.20	5.28	22.50	5.71	23.60	6.07
	31	11.80	3.01	14.90	3.76	18.20	4.69	19.60	5.12	21.20	5.63	22.50	6.09	23.60	6.47
	33	11.80	3.19	14.90	4.00	18.20	4.99	19.60	5.45	21.20	6.00	22.50	6.49	23.60	6.89
	35	11.80	3.39	14.90	4.26	18.20	5.32	19.60	5.81	21.20	6.40	22.50	6.92	23.60	7.35
	37	11.80	3.61	14.90	4.54	18.20	5.67	19.60	6.20	21.20	6.82	22.50	7.38	23.60	7.83
	39	11.80	3.84	14.90	4.84	18.20	6.05	19.60	6.61	21.20	7.27	22.50	7.87	23.60	8.35
	41	11.80	4.09	14.90	5.16	18.20	6.45	19.60	7.05	21.20	7.75	22.50	8.39	23.60	8.91
	43	11.80	4.37	14.90	5.50	18.20	6.88	19.60	7.51	21.20	8.27	22.50	8.94	23.60	9.50
	46	11.80	4.82	14.90	6.06	18.20	7.58	19.60	8.27	21.20	9.11	22.50	9.86	23.60	10.49
	48	11.80	5.15	14.90	6.47	18.20	8.08	19.60	8.83	21.20	9.72	22.50	10.54	22.80	10.73

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70	50	11.80	5.50	14.90	6.90	18.20	8.62	19.60	9.42	20.60	10.01	20.60	10.01	20.60	10.01
	52	11.80	5.87	14.90	7.36	18.20	9.20	18.50	9.36	18.50	9.37	18.50	9.36	18.40	9.36
60	10	10.10	0.97	12.70	1.28	15.60	1.69	16.80	1.85	18.10	1.96	19.30	2.06	20.20	2.15
	12	10.10	1.46	12.70	1.68	15.60	1.88	16.80	1.98	18.10	2.11	19.30	2.23	20.20	2.33
	14	10.10	1.54	12.70	1.77	15.60	2.01	16.80	2.13	18.10	2.28	19.30	2.42	20.20	2.54
	16	10.10	1.61	12.70	1.87	15.60	2.16	16.80	2.30	18.10	2.47	19.30	2.64	20.20	2.78
	18	10.10	1.70	12.70	1.99	15.60	2.32	16.80	2.49	18.10	2.69	19.30	2.88	20.20	3.04
	20	10.10	1.79	12.70	2.12	15.60	2.51	16.80	2.70	18.10	2.93	19.30	3.15	20.20	3.33
	21	10.10	1.85	12.70	2.20	15.60	2.61	16.80	2.82	18.10	3.07	19.30	3.29	20.20	3.48
	23	10.10	1.97	12.70	2.36	15.60	2.84	16.80	3.07	18.10	3.35	19.30	3.61	20.20	3.82
	25	10.10	2.11	12.70	2.55	15.60	3.09	16.80	3.35	18.10	3.67	19.30	3.96	20.20	4.20
	27	10.10	2.26	12.70	2.76	15.60	3.38	16.80	3.67	18.10	4.03	19.30	4.35	20.20	4.62
	29	10.10	2.44	12.70	2.99	15.60	3.69	16.80	4.02	18.10	4.39	19.30	4.71	20.20	4.98
	31	10.10	2.64	12.70	3.24	15.60	3.95	16.80	4.28	18.10	4.67	19.30	5.02	20.20	5.31
	33	10.10	2.80	12.70	3.43	15.60	4.20	16.80	4.56	18.10	4.98	19.30	5.35	20.20	5.66
	35	10.10	2.97	12.70	3.65	15.60	4.48	16.80	4.86	18.10	5.31	19.30	5.71	20.20	6.03
	37	10.10	3.15	12.70	3.88	15.60	4.77	16.80	5.18	18.10	5.66	19.30	6.08	20.20	6.43
	39	10.10	3.35	12.70	4.14	15.60	5.09	16.80	5.52	18.10	6.03	19.30	6.49	20.20	6.86
	41	10.10	3.57	12.70	4.41	15.60	5.43	16.80	5.89	18.10	6.43	19.30	6.92	20.20	7.31
	43	10.10	3.81	12.70	4.71	15.60	5.79	16.80	6.28	18.10	6.86	19.30	7.38	20.20	7.80
	46	10.10	4.21	12.70	5.19	15.60	6.38	16.80	6.92	18.10	7.55	19.30	8.12	20.20	8.59
	48	10.10	4.49	12.70	5.55	15.60	6.80	16.80	7.38	18.10	8.05	19.30	8.66	20.20	9.16
	50	10.10	4.80	12.70	5.92	15.60	7.26	16.80	7.87	18.10	8.59	19.30	9.24	20.20	9.78
	52	10.10	5.14	12.70	6.32	15.60	7.74	16.80	8.39	18.10	9.17	18.50	9.36	18.50	9.37
50	10	8.40	0.77	10.60	1.03	13.00	1.31	14.00	1.44	15.10	1.61	16.10	1.77	16.80	1.85
	12	8.40	1.04	10.60	1.52	13.00	1.69	14.00	1.76	15.10	1.84	16.10	1.92	16.80	1.98
	14	8.40	1.37	10.60	1.59	13.00	1.78	14.00	1.86	15.10	1.96	16.10	2.06	16.80	2.13
	16	8.40	1.43	10.60	1.67	13.00	1.89	14.00	1.99	15.10	2.10	16.10	2.21	16.80	2.30
	18	8.40	1.50	10.60	1.76	13.00	2.01	14.00	2.12	15.10	2.26	16.10	2.39	16.80	2.49
	20	8.40	1.58	10.60	1.86	13.00	2.15	14.00	2.28	15.10	2.44	16.10	2.59	16.80	2.71
	21	8.40	1.62	10.60	1.92	13.00	2.23	14.00	2.37	15.10	2.54	16.10	2.69	16.80	2.82
	23	8.40	1.72	10.60	2.05	13.00	2.40	14.00	2.56	15.10	2.75	16.10	2.93	16.80	3.08
	25	8.40	1.83	10.60	2.20	13.00	2.59	14.00	2.77	15.10	3.00	16.10	3.20	16.80	3.36
	27	8.40	1.95	10.60	2.36	13.00	2.81	14.00	3.02	15.10	3.27	16.10	3.49	16.80	3.68
	29	8.40	2.09	10.60	2.55	13.00	3.05	14.00	3.29	15.10	3.57	16.10	3.82	16.80	4.03
	31	8.40	2.25	10.60	2.76	13.00	3.29	14.00	3.54	15.10	3.82	16.10	4.08	16.80	4.29
	33	8.40	2.40	10.60	2.92	13.00	3.50	14.00	3.76	15.10	4.07	16.10	4.34	16.80	4.57
	35	8.40	2.54	10.60	3.10	13.00	3.72	14.00	4.00	15.10	4.33	16.10	4.63	16.80	4.87
	37	8.40	2.69	10.60	3.29	13.00	3.96	14.00	4.26	15.10	4.62	16.10	4.93	16.80	5.19
	39	8.40	2.86	10.60	3.50	13.00	4.22	14.00	4.54	15.10	4.92	16.10	5.26	16.80	5.53
	41	8.40	3.04	10.60	3.73	13.00	4.50	14.00	4.84	15.10	5.25	16.10	5.61	16.80	5.90
	43	8.40	3.25	10.60	3.98	13.00	4.80	14.00	5.17	15.10	5.60	16.10	5.98	16.80	6.29
	46	8.40	3.59	10.60	4.39	13.00	5.29	14.00	5.70	15.10	6.17	16.10	6.59	16.80	6.93
	48	8.40	3.85	10.60	4.69	13.00	5.65	14.00	6.08	15.10	6.59	16.10	7.03	16.80	7.39
	50	8.40	4.14	10.60	5.02	13.00	6.03	14.00	6.49	15.10	7.03	16.10	7.50	16.80	7.89
	52	8.40	4.45	10.60	5.36	13.00	6.44	14.00	6.92	15.10	7.49	16.10	8.00	16.80	8.41

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN120LSS0

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	10	26.20	2.80	33.00	4.11	40.40	6.31	43.50	7.28	47.00	8.44	50.00	9.49	52.30	10.35
	12	26.20	3.08	33.00	4.54	40.40	6.90	43.50	7.87	47.00	9.03	50.00	10.06	52.30	10.87
	14	26.20	3.39	33.00	5.01	40.40	7.51	43.50	8.51	47.00	9.68	50.00	10.68	52.30	11.44
	16	26.20	3.74	33.00	5.53	40.40	8.16	43.50	9.19	47.00	10.37	50.00	11.36	52.30	12.07
	18	26.20	4.13	33.00	6.09	40.40	8.87	43.50	9.93	47.00	11.13	50.00	12.00	52.30	12.47
	20	26.20	4.55	33.00	6.71	40.40	9.64	43.50	10.70	47.00	11.66	50.00	12.37	51.80	12.70
	21	26.20	4.77	33.00	7.04	40.40	10.02	43.50	10.93	47.00	11.88	50.00	12.57	51.60	12.84
	23	26.20	5.26	33.00	7.74	40.40	10.51	43.50	11.43	47.00	12.36	50.00	13.01	51.10	13.18
	25	26.20	5.79	33.00	8.30	40.40	11.04	43.50	11.96	47.00	12.89	49.90	13.48	50.60	13.59
	27	26.20	6.26	33.00	8.83	40.40	11.60	43.50	12.54	47.00	13.47	49.30	13.95	50.00	14.07
	29	26.20	6.67	33.00	9.39	40.40	12.20	43.50	13.17	47.00	14.13	48.70	14.48	49.30	14.62
	31	26.20	7.11	33.00	10.00	40.40	12.86	43.50	13.87	47.00	14.88	48.00	15.09	48.70	15.23
	33	26.20	7.57	33.00	10.66	40.40	13.58	43.50	14.66	46.50	15.57	47.30	15.76	48.00	15.91
	35	26.20	8.07	33.00	11.38	40.40	14.37	43.50	15.55	45.70	16.29	45.90	16.56	45.80	16.79
	37	26.20	8.61	33.00	12.17	40.40	15.27	43.00	16.36	43.00	16.37	43.00	16.37	43.00	16.36
	39	26.20	9.18	33.00	12.92	40.10	16.14	40.10	16.14	40.10	16.13	40.10	16.14	40.10	16.14
	41	26.20	9.79	33.00	13.72	37.30	15.79	37.20	15.78	37.20	15.77	37.20	15.77	37.20	15.77
	43	26.20	10.46	33.00	14.59	34.40	15.31	34.40	15.31	34.40	15.32	34.40	15.31	34.40	15.32
	46	26.20	11.57	30.40	14.54	30.40	14.54	30.30	14.53	30.30	14.54	30.30	14.54	30.30	14.53
	48	26.20	12.41	27.80	13.65	27.80	13.67	28.30	14.10	27.80	13.66	27.80	13.65	27.70	13.63
	50	25.40	12.74	25.40	12.74	25.30	12.72	25.30	12.72	25.30	12.70	25.30	12.73	24.80	12.33
	52	22.00	10.73	22.30	10.21	22.60	9.74	22.70	9.62	22.70	9.55	22.80	9.43	22.80	9.33
120	10	24.20	2.52	30.50	3.55	37.30	5.27	40.20	6.22	43.40	7.24	46.20	8.14	48.30	8.88
	12	24.20	2.76	30.50	3.93	37.30	5.79	40.20	6.81	43.40	7.83	46.20	8.74	48.30	9.47
	14	24.20	3.03	30.50	4.34	37.30	6.37	40.20	7.43	43.40	8.47	46.20	9.38	48.30	10.11
	16	24.20	3.34	30.50	4.79	37.30	7.00	40.20	8.09	43.40	9.15	46.20	10.08	48.30	10.80
	18	24.20	3.67	30.50	5.29	37.30	7.68	40.20	8.79	43.40	9.89	46.20	10.84	48.30	11.56
	20	24.20	4.04	30.50	5.83	37.30	8.43	40.20	9.55	43.40	10.67	46.20	11.43	48.30	11.99
	21	24.20	4.24	30.50	6.12	37.30	8.83	40.20	9.95	43.40	10.90	46.20	11.66	48.30	12.20
	23	24.20	4.67	30.50	6.74	37.30	9.53	40.20	10.44	43.40	11.39	46.20	12.14	48.30	12.66
	25	24.20	5.14	30.50	7.33	37.30	10.07	40.20	10.97	43.40	11.92	46.20	12.67	48.30	13.18
	27	24.20	5.61	30.50	7.81	37.30	10.61	40.20	11.52	43.40	12.50	46.20	13.26	48.30	13.76
	29	24.20	5.98	30.50	8.31	37.30	11.19	40.20	12.13	43.40	13.13	46.20	13.91	48.20	14.39
	31	24.20	6.38	30.50	8.85	37.30	11.80	40.20	12.78	43.40	13.83	46.20	14.65	47.50	14.99
	33	24.20	6.80	30.50	9.44	37.30	12.46	40.20	13.49	43.40	14.62	46.20	15.50	46.90	15.66
	35	24.20	7.24	30.50	10.06	37.30	13.17	40.20	14.28	43.40	15.51	45.50	16.25	45.90	16.42
	37	24.20	7.72	30.50	10.74	37.30	13.96	40.20	15.16	43.00	16.37	43.00	16.36	43.00	16.38
	39	24.20	8.23	30.50	11.48	37.30	14.83	40.10	16.14	40.10	16.13	40.10	16.13	40.10	16.13
	41	24.20	8.78	30.50	12.29	37.20	15.78	37.20	15.76	37.20	15.77	37.20	15.78	37.20	15.78
	43	24.20	9.37	30.50	13.19	34.40	15.32	34.40	15.34	34.40	15.32	34.40	15.30	34.40	15.33
	46	24.20	10.34	30.40	14.56	30.30	14.53	30.30	14.53	30.30	14.52	30.30	14.53	30.30	14.54
	48	24.20	11.05	27.80	13.66	27.80	13.63	27.80	13.64	27.70	13.62	27.80	13.66	27.70	13.63
	50	24.20	11.84	25.40	12.73	25.30	12.72	25.30	12.72	25.60	12.95	25.30	12.71	25.30	12.70
	52	21.90	10.88	22.20	10.40	22.50	9.93	22.50	9.79	22.60	9.70	22.70	9.57	22.70	9.47
110	10	22.10	2.28	28.00	3.08	34.20	4.40	36.80	5.12	39.80	6.08	42.30	6.90	44.30	7.52
	12	22.10	2.49	28.00	3.40	34.20	4.86	36.80	5.64	39.80	6.66	42.30	7.48	44.30	8.12
	14	22.10	2.72	28.00	3.76	34.20	5.35	36.80	6.20	39.80	7.30	42.30	8.11	44.30	8.76
	16	22.10	2.98	28.00	4.15	34.20	5.90	36.80	6.82	39.80	7.96	42.30	8.79	44.30	9.45
	18	22.10	3.27	28.00	4.57	34.20	6.50	36.80	7.49	39.80	8.66	42.30	9.52	44.30	10.20
	20	22.10	3.59	28.00	5.04	34.20	7.15	36.80	8.22	39.80	9.42	42.30	10.31	44.30	10.92

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	21	22.10	3.76	28.00	5.30	34.20	7.50	36.80	8.62	39.80	9.82	42.30	10.58	44.30	11.15
	23	22.10	4.13	28.00	5.84	34.20	8.24	36.80	9.32	39.80	10.32	42.30	11.08	44.30	11.64
	25	22.10	4.54	28.00	6.43	34.20	8.77	36.80	9.89	39.80	10.85	42.30	11.61	44.30	12.17
	27	22.10	4.99	28.00	6.87	34.20	9.32	36.80	10.46	39.80	11.40	42.30	12.18	44.30	12.75
	29	22.10	5.34	28.00	7.32	34.20	9.92	36.80	11.03	39.80	12.00	42.30	12.80	44.30	13.39
	31	22.10	5.69	28.00	7.80	34.20	10.57	36.80	11.63	39.80	12.65	42.30	13.48	44.30	14.11
	33	22.10	6.07	28.00	8.31	34.20	11.27	36.80	12.28	39.80	13.35	42.30	14.24	44.30	14.91
	35	22.10	6.47	28.00	8.86	34.20	11.97	36.80	12.99	39.80	14.13	42.30	15.10	44.30	15.84
	37	22.10	6.90	28.00	9.45	34.20	12.68	36.80	13.76	39.80	15.00	42.30	16.07	43.00	16.37
	39	22.10	7.35	28.00	10.08	34.20	13.44	36.80	14.61	39.80	15.99	40.10	16.14	40.10	16.13
	41	22.10	7.84	28.00	10.77	34.20	14.27	36.80	15.57	37.20	15.76	37.20	15.79	37.20	15.76
	43	22.10	8.36	28.00	11.52	34.20	15.20	34.40	15.33	34.40	15.32	34.40	15.31	34.40	15.32
	46	22.10	9.21	28.00	12.79	30.40	14.54	30.40	14.54	30.30	14.53	30.30	14.53	30.30	14.53
	48	22.10	9.84	27.80	13.66	27.80	13.67	27.80	13.67	27.80	13.65	27.80	13.64	27.70	13.63
	50	22.10	10.51	25.40	12.73	25.40	12.73	25.30	12.71	25.30	12.72	25.30	12.73	25.30	12.71
	52	21.90	11.02	22.30	10.61	22.30	10.14	22.40	10.00	22.50	9.86	22.60	9.66	22.70	9.53
100	10	20.10	2.07	25.40	2.69	31.10	3.68	33.50	4.22	36.20	4.93	38.50	5.63	40.30	6.25
	12	20.10	2.25	25.40	2.96	31.10	4.07	33.50	4.66	36.20	5.43	38.50	6.19	40.30	6.84
	14	20.10	2.44	25.40	3.25	31.10	4.49	33.50	5.14	36.20	5.98	38.50	6.79	40.30	7.46
	16	20.10	2.66	25.40	3.58	31.10	4.96	33.50	5.67	36.20	6.58	38.50	7.45	40.30	8.11
	18	20.10	2.91	25.40	3.95	31.10	5.47	33.50	6.25	36.20	7.23	38.50	8.17	40.30	8.82
	20	20.10	3.18	25.40	4.35	31.10	6.03	33.50	6.88	36.20	7.95	38.50	8.95	40.30	9.58
	21	20.10	3.33	25.40	4.57	31.10	6.33	33.50	7.21	36.20	8.33	38.50	9.34	40.30	9.97
	23	20.10	3.65	25.40	5.03	31.10	6.97	33.50	7.93	36.20	9.05	38.50	9.92	40.30	10.47
	25	20.10	4.00	25.40	5.54	31.10	7.56	33.50	8.48	36.20	9.60	38.50	10.44	40.30	10.99
	27	20.10	4.39	25.40	6.01	31.10	8.04	33.50	9.02	36.20	10.21	38.50	10.98	40.30	11.55
	29	20.10	4.75	25.40	6.41	31.10	8.56	33.50	9.59	36.20	10.81	38.50	11.57	40.30	12.15
	31	20.10	5.06	25.40	6.83	31.10	9.12	33.50	10.22	36.20	11.40	38.50	12.20	40.30	12.81
	33	20.10	5.39	25.40	7.28	31.10	9.72	33.50	10.89	36.20	12.05	38.50	12.88	40.30	13.52
	35	20.10	5.75	25.40	7.76	31.10	10.36	33.50	11.63	36.20	12.74	38.50	13.62	40.30	14.31
	37	20.10	6.13	25.40	8.27	31.10	11.06	33.50	12.38	36.20	13.49	38.50	14.44	40.30	15.20
	39	20.10	6.53	25.40	8.82	31.10	11.83	33.50	13.12	36.20	14.32	38.50	15.37	40.10	16.13
	41	20.10	6.97	25.40	9.41	31.10	12.68	33.50	13.93	36.20	15.24	37.20	15.77	37.20	15.78
	43	20.10	7.43	25.40	10.04	31.10	13.61	33.50	14.82	34.40	15.32	34.40	15.31	34.40	15.31
	46	20.10	8.18	25.40	11.10	30.40	14.55	30.40	14.55	30.40	14.55	30.40	14.54	30.40	14.55
	48	20.10	8.73	25.40	11.88	27.80	13.65	27.80	13.64	27.80	13.65	27.80	13.66	27.80	13.66
	50	20.10	9.31	25.40	12.73	25.40	12.72	25.30	12.72	25.30	12.71	25.30	12.70	25.30	12.73
	52	20.10	9.94	22.00	10.75	21.80	10.33	22.30	10.15	22.40	9.97	22.50	9.79	22.60	9.66
90	10	18.10	1.90	22.90	2.36	28.00	3.09	30.10	3.48	32.60	4.00	34.60	4.51	36.20	4.95
	12	18.10	2.05	22.90	2.58	28.00	3.41	30.10	3.85	32.60	4.42	34.60	4.97	36.20	5.45
	14	18.10	2.21	22.90	2.83	28.00	3.76	30.10	4.25	32.60	4.88	34.60	5.48	36.20	6.00
	16	18.10	2.39	22.90	3.10	28.00	4.15	30.10	4.70	32.60	5.38	34.60	6.04	36.20	6.60
	18	18.10	2.59	22.90	3.41	28.00	4.58	30.10	5.18	32.60	5.94	34.60	6.65	36.20	7.26
	20	18.10	2.82	22.90	3.74	28.00	5.05	30.10	5.71	32.60	6.54	34.60	7.31	36.20	7.97
	21	18.10	2.94	22.90	3.93	28.00	5.31	30.10	6.00	32.60	6.86	34.60	7.67	36.20	8.35
	23	18.10	3.22	22.90	4.32	28.00	5.85	30.10	6.61	32.60	7.55	34.60	8.42	36.20	9.07
	25	18.10	3.52	22.90	4.75	28.00	6.44	30.10	7.21	32.60	8.11	34.60	8.94	36.20	9.63
	27	18.10	3.85	22.90	5.23	28.00	6.88	30.10	7.67	32.60	8.63	34.60	9.51	36.20	10.24
	29	18.10	4.20	22.90	5.57	28.00	7.33	30.10	8.17	32.60	9.19	34.60	10.12	36.20	10.83
	31	18.10	4.47	22.90	5.94	28.00	7.81	30.10	8.70	32.60	9.78	34.60	10.77	36.20	11.43
	33	18.10	4.76	22.90	6.33	28.00	8.32	30.10	9.27	32.60	10.43	34.60	11.48	36.20	12.07

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	35	18.10	5.08	22.90	6.75	28.00	8.87	30.10	9.89	32.60	11.12	34.60	12.14	36.20	12.76
	37	18.10	5.41	22.90	7.19	28.00	9.46	30.10	10.55	32.60	11.89	34.60	12.85	36.20	13.51
	39	18.10	5.77	22.90	7.67	28.00	10.10	30.10	11.27	32.60	12.72	34.60	13.62	36.20	14.34
	41	18.10	6.15	22.90	8.17	28.00	10.79	30.10	12.06	32.60	13.49	34.60	14.47	36.20	15.27
	43	18.10	6.56	22.90	8.72	28.00	11.54	30.10	12.94	32.60	14.34	34.40	15.31	34.40	15.31
	46	18.10	7.23	22.90	9.61	28.00	12.81	30.10	14.40	30.40	14.55	30.40	14.54	30.40	14.54
	48	18.10	7.71	22.90	10.26	27.80	13.66	27.80	13.64	27.80	13.67	27.80	13.66	27.80	13.66
	50	18.10	8.22	22.90	10.97	25.40	12.76	25.40	12.75	25.40	12.74	25.30	12.73	25.30	12.72
	52	18.10	8.77	21.90	10.95	22.10	10.50	22.20	10.32	22.30	10.13	22.40	9.96	22.50	9.82
80	10	16.10	1.71	20.30	2.09	24.90	2.61	26.80	2.89	28.90	3.26	30.80	3.61	32.20	3.92
	12	16.10	1.87	20.30	2.27	24.90	2.87	26.80	3.19	28.90	3.60	30.80	3.99	32.20	4.33
	14	16.10	2.00	20.30	2.47	24.90	3.16	26.80	3.52	28.90	3.97	30.80	4.41	32.20	4.79
	16	16.10	2.15	20.30	2.69	24.90	3.48	26.80	3.88	28.90	4.39	30.80	4.87	32.20	5.28
	18	16.10	2.32	20.30	2.94	24.90	3.83	26.80	4.28	28.90	4.84	30.80	5.37	32.20	5.82
	20	16.10	2.50	20.30	3.22	24.90	4.22	26.80	4.72	28.90	5.34	30.80	5.92	32.20	6.41
	21	16.10	2.61	20.30	3.37	24.90	4.43	26.80	4.95	28.90	5.60	30.80	6.22	32.20	6.73
	23	16.10	2.83	20.30	3.69	24.90	4.87	26.80	5.46	28.90	6.18	30.80	6.85	32.20	7.41
	25	16.10	3.08	20.30	4.05	24.90	5.37	26.80	6.01	28.90	6.79	30.80	7.44	32.20	7.98
	27	16.10	3.36	20.30	4.45	24.90	5.84	26.80	6.47	28.90	7.23	30.80	7.92	32.20	8.49
	29	16.10	3.68	20.30	4.81	24.90	6.22	26.80	6.89	28.90	7.70	30.80	8.43	32.20	9.03
	31	16.10	3.93	20.30	5.12	24.90	6.63	26.80	7.34	28.90	8.20	30.80	8.98	32.20	9.62
	33	16.10	4.18	20.30	5.46	24.90	7.07	26.80	7.83	28.90	8.74	30.80	9.57	32.20	10.25
	35	16.10	4.45	20.30	5.82	24.90	7.54	26.80	8.34	28.90	9.31	30.80	10.20	32.20	10.94
	37	16.10	4.75	20.30	6.20	24.90	8.03	26.80	8.89	28.90	9.93	30.80	10.89	32.20	11.69
	39	16.10	5.06	20.30	6.61	24.90	8.56	26.80	9.49	28.90	10.61	30.80	11.64	32.20	12.52
	41	16.10	5.40	20.30	7.05	24.90	9.14	26.80	10.13	28.90	11.34	30.80	12.47	32.20	13.33
	43	16.10	5.76	20.30	7.52	24.90	9.75	26.80	10.82	28.90	12.14	30.80	13.39	32.20	14.17
	46	16.10	6.34	20.30	8.28	24.90	10.77	26.80	11.98	28.90	13.52	30.40	14.55	30.40	14.55
	48	16.10	6.77	20.30	8.83	24.90	11.52	26.80	12.86	27.80	13.67	27.80	13.64	27.80	13.64
	50	16.10	7.22	20.30	9.43	24.90	12.36	25.40	12.74	25.40	12.73	25.40	12.75	25.40	12.74
	52	16.10	7.70	20.30	10.07	22.00	10.74	22.10	10.55	22.20	10.35	22.30	10.17	22.40	10.03
70	10	14.10	1.41	17.80	1.88	21.80	2.24	23.40	2.43	25.30	2.68	26.90	2.92	28.20	3.12
	12	14.10	1.73	17.80	2.02	21.80	2.44	23.40	2.66	25.30	2.94	26.90	3.21	28.20	3.45
	14	14.10	1.83	17.80	2.17	21.80	2.66	23.40	2.92	25.30	3.24	26.90	3.55	28.20	3.81
	16	14.10	1.95	17.80	2.35	21.80	2.92	23.40	3.20	25.30	3.57	26.90	3.91	28.20	4.20
	18	14.10	2.08	17.80	2.54	21.80	3.20	23.40	3.52	25.30	3.93	26.90	4.31	28.20	4.64
	20	14.10	2.23	17.80	2.77	21.80	3.51	23.40	3.87	25.30	4.33	26.90	4.76	28.20	5.11
	21	14.10	2.31	17.80	2.89	21.80	3.67	23.40	4.06	25.30	4.54	26.90	4.99	28.20	5.37
	23	14.10	2.49	17.80	3.15	21.80	4.04	23.40	4.47	25.30	5.01	26.90	5.50	28.20	5.91
	25	14.10	2.70	17.80	3.44	21.80	4.44	23.40	4.92	25.30	5.51	26.90	6.06	28.20	6.51
	27	14.10	2.93	17.80	3.77	21.80	4.88	23.40	5.40	25.30	5.98	26.90	6.52	28.20	6.96
	29	14.10	3.19	17.80	4.12	21.80	5.23	23.40	5.75	25.30	6.38	26.90	6.94	28.20	7.41
	31	14.10	3.43	17.80	4.38	21.80	5.57	23.40	6.13	25.30	6.80	26.90	7.40	28.20	7.89
	33	14.10	3.65	17.80	4.67	21.80	5.94	23.40	6.53	25.30	7.24	26.90	7.88	28.20	8.41
	35	14.10	3.88	17.80	4.97	21.80	6.33	23.40	6.97	25.30	7.72	26.90	8.40	28.20	8.96
	37	14.10	4.13	17.80	5.30	21.80	6.75	23.40	7.42	25.30	8.23	26.90	8.96	28.20	9.56
	39	14.10	4.40	17.80	5.65	21.80	7.20	23.40	7.92	25.30	8.78	26.90	9.56	28.20	10.20
	41	14.10	4.70	17.80	6.03	21.80	7.67	23.40	8.44	25.30	9.36	26.90	10.20	28.20	10.90
	43	14.10	5.01	17.80	6.43	21.80	8.18	23.40	9.00	25.30	9.99	26.90	10.90	28.20	11.66
	46	14.10	5.52	17.80	7.08	21.80	9.01	23.40	9.93	25.30	11.04	26.90	12.08	28.20	12.96
	48	14.10	5.89	17.80	7.55	21.80	9.62	23.40	10.61	25.30	11.83	26.90	12.97	27.80	13.66

7. Capacity Tables

Combi.	Outdoor Air Temp. (°C,DB)	Indoor Air Temp. (°C, DB/WB)													
		20.0 / 14.0		23.0 / 16.0		26.0 / 18.0		27.0 / 19.0		28.0 / 20.0		30.0 / 22.0		32.0 / 24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70	50	14.10	6.29	17.80	8.05	21.80	10.28	23.40	11.35	25.30	12.69	25.40	12.72	25.40	12.74
	52	14.10	6.71	17.80	8.59	21.80	10.99	21.90	10.86	22.10	10.64	22.20	10.46	22.20	10.32
60	10	12.10	1.18	15.20	1.57	18.70	1.95	20.10	2.07	21.70	2.23	23.10	2.39	24.20	2.52
	12	12.10	1.61	15.20	1.81	18.70	2.10	20.10	2.24	21.70	2.43	23.10	2.61	24.20	2.76
	14	12.10	1.69	15.20	1.93	18.70	2.27	20.10	2.44	21.70	2.66	23.10	2.86	24.20	3.04
	16	12.10	1.77	15.20	2.06	18.70	2.46	20.10	2.66	21.70	2.91	23.10	3.14	24.20	3.34
	18	12.10	1.87	15.20	2.21	18.70	2.67	20.10	2.90	21.70	3.18	23.10	3.45	24.20	3.67
	20	12.10	1.99	15.20	2.38	18.70	2.91	20.10	3.17	21.70	3.49	23.10	3.79	24.20	4.04
	21	12.10	2.05	15.20	2.48	18.70	3.04	20.10	3.32	21.70	3.66	23.10	3.98	24.20	4.24
	23	12.10	2.20	15.20	2.68	18.70	3.33	20.10	3.64	21.70	4.02	23.10	4.38	24.20	4.67
	25	12.10	2.36	15.20	2.91	18.70	3.64	20.10	3.99	21.70	4.42	23.10	4.81	24.20	5.14
	27	12.10	2.55	15.20	3.17	18.70	3.99	20.10	4.38	21.70	4.86	23.10	5.29	24.20	5.62
	29	12.10	2.76	15.20	3.46	18.70	4.34	20.10	4.74	21.70	5.21	23.10	5.64	24.20	5.99
	31	12.10	2.98	15.20	3.71	18.70	4.63	20.10	5.05	21.70	5.55	23.10	6.01	24.20	6.38
	33	12.10	3.16	15.20	3.95	18.70	4.93	20.10	5.38	21.70	5.92	23.10	6.40	24.20	6.80
	35	12.10	3.35	15.20	4.20	18.70	5.25	20.10	5.74	21.70	6.31	23.10	6.83	24.20	7.25
	37	12.10	3.56	15.20	4.48	18.70	5.60	20.10	6.12	21.70	6.73	23.10	7.28	24.20	7.73
	39	12.10	3.80	15.20	4.77	18.70	5.97	20.10	6.52	21.70	7.17	23.10	7.76	24.20	8.24
	41	12.10	4.05	15.20	5.09	18.70	6.37	20.10	6.95	21.70	7.65	23.10	8.27	24.20	8.78
	43	12.10	4.32	15.20	5.43	18.70	6.79	20.10	7.41	21.70	8.15	23.10	8.82	24.20	9.37
	46	12.10	4.76	15.20	5.99	18.70	7.48	20.10	8.16	21.70	8.98	23.10	9.73	24.20	10.34
	48	12.10	5.09	15.20	6.39	18.70	7.97	20.10	8.71	21.70	9.59	23.10	10.39	24.20	11.06
	50	12.10	5.43	15.20	6.81	18.70	8.50	20.10	9.29	21.70	10.24	23.10	11.12	24.20	11.84
	52	12.10	5.80	15.20	7.27	18.70	9.07	20.10	9.92	21.70	10.95	21.90	10.87	22.00	10.72
50	10	10.10	0.93	12.70	1.24	15.50	1.62	16.70	1.80	18.10	1.90	19.20	2.00	20.10	2.08
	12	10.10	1.39	12.70	1.65	15.50	1.83	16.70	1.93	18.10	2.04	19.20	2.15	20.10	2.25
	14	10.10	1.50	12.70	1.73	15.50	1.95	16.70	2.06	18.10	2.20	19.20	2.33	20.10	2.44
	16	10.10	1.57	12.70	1.82	15.50	2.09	16.70	2.22	18.10	2.38	19.20	2.54	20.10	2.66
	18	10.10	1.65	12.70	1.93	15.50	2.25	16.70	2.40	18.10	2.59	19.20	2.76	20.10	2.91
	20	10.10	1.74	12.70	2.06	15.50	2.42	16.70	2.60	18.10	2.82	19.20	3.02	20.10	3.18
	21	10.10	1.80	12.70	2.13	15.50	2.52	16.70	2.71	18.10	2.94	19.20	3.15	20.10	3.33
	23	10.10	1.91	12.70	2.29	15.50	2.73	16.70	2.95	18.10	3.21	19.20	3.45	20.10	3.65
	25	10.10	2.04	12.70	2.46	15.50	2.97	16.70	3.22	18.10	3.51	19.20	3.78	20.10	4.00
	27	10.10	2.19	12.70	2.66	15.50	3.24	16.70	3.51	18.10	3.85	19.20	4.15	20.10	4.40
	29	10.10	2.35	12.70	2.89	15.50	3.54	16.70	3.85	18.10	4.19	19.20	4.50	20.10	4.75
	31	10.10	2.55	12.70	3.12	15.50	3.79	16.70	4.10	18.10	4.46	19.20	4.79	20.10	5.06
	33	10.10	2.70	12.70	3.31	15.50	4.03	16.70	4.36	18.10	4.76	19.20	5.11	20.10	5.40
	35	10.10	2.86	12.70	3.51	15.50	4.29	16.70	4.65	18.10	5.07	19.20	5.45	20.10	5.75
	37	10.10	3.04	12.70	3.74	15.50	4.57	16.70	4.95	18.10	5.40	19.20	5.81	20.10	6.13
	39	10.10	3.24	12.70	3.98	15.50	4.87	16.70	5.28	18.10	5.76	19.20	6.19	20.10	6.54
	41	10.10	3.45	12.70	4.24	15.50	5.20	16.70	5.63	18.10	6.14	19.20	6.60	20.10	6.97
	43	10.10	3.68	12.70	4.53	15.50	5.55	16.70	6.01	18.10	6.55	19.20	7.04	20.10	7.43
	46	10.10	4.06	12.70	4.99	15.50	6.11	16.70	6.62	18.10	7.22	19.20	7.75	20.10	8.18
	48	10.10	4.34	12.70	5.33	15.50	6.52	16.70	7.06	18.10	7.69	19.20	8.26	20.10	8.73
	50	10.10	4.64	12.70	5.69	15.50	6.95	16.70	7.53	18.10	8.21	19.20	8.82	20.10	9.31
	52	10.10	4.96	12.70	6.08	15.50	7.42	16.70	8.03	18.10	8.75	19.20	9.41	20.10	9.95

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

7.2 Heating Operation (Standard)

ZRUN030GSS0, ZRUN030LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	8.00	4.16	8.00	4.19	7.90	4.21	7.90	4.24	7.90	4.28	7.80	4.33
	-18.8	-19	8.10	4.18	8.10	4.20	8.10	4.23	8.10	4.26	8.10	4.30	7.90	4.35
	-16.7	-17	8.50	4.21	8.50	4.24	8.50	4.26	8.50	4.30	8.50	4.34	8.30	4.39
	-13.7	-15	9.10	4.27	9.10	4.30	9.00	4.32	9.00	4.36	9.00	4.39	8.90	4.19
	-11.8	-13	9.40	4.30	9.40	4.33	9.30	4.35	9.30	4.39	9.30	4.25	9.20	4.07
	-9.8	-11	9.70	4.34	9.70	4.37	9.70	4.39	9.70	4.24	9.70	4.11	9.60	3.94
	-9.5	-10	9.80	4.34	9.80	4.37	9.70	4.37	9.70	4.22	9.70	4.09	9.60	3.92
	-8.5	-9.1	10.00	4.36	10.00	4.39	9.90	4.29	9.90	4.15	9.90	4.02	9.80	3.85
	-7	-7.6	10.20	4.39	10.20	4.27	10.20	4.17	10.20	4.04	10.20	3.91	10.10	3.75
	-5	-5.6	10.60	4.23	10.60	4.12	10.50	4.02	10.50	3.89	10.50	3.77	10.50	3.62
	-3	-3.7	11.00	4.08	11.00	3.96	10.90	3.87	10.90	3.74	10.90	3.63	10.80	3.49
	0	-0.7	11.50	3.84	11.50	3.73	11.50	3.64	11.50	3.52	11.50	3.42	11.30	3.29
	3	2.2	12.10	3.61	12.10	3.50	12.00	3.41	12.00	3.30	12.00	3.20	11.30	3.09
	5	4.1	12.40	3.45	12.40	3.35	12.40	3.25	12.40	3.16	12.10	3.06	11.30	2.96
	7	6	12.80	3.30	12.80	3.19	12.70	3.10	12.60	3.01	12.10	2.92	11.30	2.83
	9	7.9	12.90	3.17	12.90	3.06	12.90	2.97	12.60	2.89	12.10	2.80	11.30	2.72
	11	9.8	12.90	3.06	12.90	2.96	12.90	2.88	12.60	2.79	12.10	2.71	11.30	2.63
	13	11.8	12.90	2.95	12.90	2.85	12.90	2.77	12.60	2.69	12.10	2.61	11.30	2.53
	15	13.7	12.90	2.83	12.90	2.74	12.90	2.66	12.60	2.58	12.10	2.50	11.30	2.43
120	-19.8	-20	7.90	4.19	7.90	4.21	7.90	4.24	7.90	4.28	7.90	4.33	7.70	4.37
	-18.8	-19	8.10	4.20	8.10	4.23	8.00	4.26	8.00	4.30	8.00	4.35	7.90	4.39
	-16.7	-17	8.50	4.24	8.50	4.26	8.40	4.30	8.40	4.34	8.40	4.39	8.30	4.26
	-13.7	-15	9.00	4.30	9.00	4.32	9.00	4.36	9.00	4.39	9.00	4.20	8.80	4.08
	-11.8	-13	9.30	4.33	9.30	4.35	9.30	4.39	9.30	4.25	9.30	4.08	9.10	3.97
	-9.8	-11	9.60	4.37	9.60	4.39	9.60	4.24	9.60	4.11	9.60	3.95	9.50	3.85
	-9.5	-10	9.70	4.37	9.70	4.37	9.60	4.22	9.60	4.09	9.60	3.93	9.60	3.83
	-8.5	-9.1	9.90	4.39	9.90	4.28	9.80	4.14	9.80	4.02	9.80	3.87	9.70	3.77
	-7	-7.6	10.20	4.27	10.20	4.16	10.10	4.03	10.10	3.91	10.10	3.77	10.00	3.68
	-5	-5.6	10.50	4.10	10.50	4.00	10.50	3.87	10.50	3.77	10.50	3.65	10.40	3.56
	-3	-3.7	10.90	3.94	10.90	3.84	10.80	3.72	10.80	3.62	10.80	3.52	10.60	3.43
	0	-0.7	11.40	3.69	11.40	3.59	11.40	3.50	11.40	3.41	11.40	3.33	10.60	3.25
	3	2.2	12.00	3.44	12.00	3.35	11.90	3.27	11.80	3.20	11.40	3.14	10.60	3.07
	5	4.1	12.40	3.28	12.40	3.19	12.20	3.12	11.80	3.05	11.40	3.01	10.60	2.95
	7	6	12.70	3.11	12.70	3.03	12.20	2.97	11.80	2.91	11.40	2.88	10.60	2.83
	9	7.9	12.80	2.98	12.70	2.90	12.20	2.84	11.80	2.79	11.40	2.76	10.60	2.71
	11	9.8	12.80	2.88	12.70	2.80	12.20	2.74	11.80	2.69	11.40	2.67	10.60	2.62
	13	11.8	12.80	2.77	12.70	2.69	12.20	2.64	11.80	2.59	11.40	2.56	10.60	2.52
	15	13.7	12.80	2.65	12.70	2.58	12.20	2.53	11.80	2.48	11.40	2.45	10.60	2.41
110	-19.8	-20	7.90	4.21	7.90	4.24	7.80	4.28	7.80	4.33	7.80	4.37	7.70	4.39
	-18.8	-19	8.00	4.23	8.00	4.26	8.00	4.30	8.00	4.35	8.00	4.39	7.80	4.32
	-16.7	-17	8.40	4.26	8.40	4.30	8.40	4.34	8.40	4.39	8.40	4.25	8.20	4.19
	-13.7	-15	9.00	4.32	9.00	4.36	8.90	4.39	8.90	4.18	8.90	4.06	8.90	3.99
	-11.8	-13	9.30	4.35	9.30	4.39	9.20	4.24	9.20	4.05	9.20	3.94	9.20	3.87
	-9.8	-11	9.60	4.39	9.60	4.22	9.50	4.09	9.50	3.92	9.50	3.81	9.50	3.74

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-9.5	-10	9.60	4.36	9.60	4.20	9.60	4.07	9.60	3.90	9.60	3.79	9.50	3.72
	-8.5	-9.1	9.80	4.27	9.80	4.12	9.80	3.99	9.80	3.83	9.80	3.73	9.50	3.65
	-7	-7.6	10.10	4.14	10.10	3.99	10.00	3.87	10.00	3.72	10.00	3.63	9.50	3.56
	-5	-5.6	10.50	3.96	10.50	3.83	10.40	3.72	10.40	3.59	10.20	3.50	9.50	3.43
	-3	-3.7	10.80	3.78	10.80	3.66	10.80	3.57	10.60	3.45	10.20	3.37	9.50	3.30
	0	-0.7	11.40	3.51	11.40	3.41	10.90	3.34	10.60	3.25	10.20	3.18	9.50	3.10
	3	2.2	11.90	3.24	11.70	3.16	10.90	3.11	10.60	3.04	10.20	2.99	9.50	2.91
	5	4.1	12.30	3.06	11.70	3.00	10.90	2.95	10.60	2.90	10.20	2.86	9.50	2.78
	7	6	12.30	2.87	11.70	2.83	10.90	2.80	10.60	2.77	10.20	2.73	9.50	2.65
	9	7.9	12.30	2.74	11.70	2.70	10.90	2.67	10.60	2.64	10.20	2.61	9.50	2.53
	11	9.8	12.30	2.64	11.70	2.60	10.90	2.57	10.60	2.54	10.20	2.50	9.50	2.43
	13	11.8	12.30	2.52	11.70	2.48	10.90	2.46	10.60	2.43	10.20	2.39	9.50	2.32
	15	13.7	12.30	2.40	11.70	2.36	10.90	2.34	10.60	2.31	10.20	2.28	9.50	2.21
100	-19.8	-20	7.80	4.50	7.80	4.48	7.80	4.43	7.80	4.43	7.80	4.42	7.60	4.39
	-18.8	-19	8.00	4.49	8.00	4.47	8.00	4.45	8.00	4.41	8.00	4.39	7.80	4.31
	-16.7	-17	8.30	4.47	8.30	4.45	8.30	4.49	8.30	4.39	8.30	4.23	8.10	4.15
	-13.7	-15	8.90	4.43	8.90	4.41	8.90	4.39	8.90	4.15	8.90	4.00	8.70	3.92
	-11.8	-13	9.20	4.41	9.20	4.39	9.20	4.23	9.20	4.01	9.20	3.86	8.70	3.78
	-9.8	-11	9.50	4.39	9.50	4.21	9.50	4.06	9.50	3.85	9.40	3.70	8.70	3.62
	-9.5	-10	9.60	4.36	9.60	4.18	9.50	4.04	9.50	3.83	9.40	3.68	8.70	3.60
	-8.5	-9.1	9.80	4.27	9.80	4.09	9.70	3.95	9.70	3.75	9.40	3.61	8.70	3.52
	-7	-7.6	10.20	4.12	10.20	3.96	10.00	3.83	9.70	3.63	9.40	3.49	8.70	3.41
	-5	-5.6	10.70	3.93	10.60	3.78	10.00	3.66	9.70	3.47	9.40	3.34	8.70	3.25
	-3	-3.7	11.00	3.74	10.60	3.60	10.00	3.49	9.70	3.32	9.40	3.19	8.70	3.10
	0	-0.7	11.30	3.45	10.60	3.33	10.00	3.24	9.70	3.08	9.40	2.96	8.70	2.87
	3	2.2	11.30	3.17	10.60	3.06	10.00	2.99	9.70	2.85	9.40	2.73	8.70	2.64
	5	4.1	11.30	2.97	10.60	2.88	10.00	2.82	9.70	2.69	9.40	2.58	8.70	2.49
	7	6	11.30	2.78	10.60	2.70	10.00	2.65	9.70	2.53	9.40	2.42	8.70	2.33
	9	7.9	11.30	2.64	10.60	2.56	10.00	2.51	9.70	2.40	9.40	2.30	8.70	2.21
	11	9.8	11.30	2.52	10.60	2.44	10.00	2.39	9.70	2.29	9.40	2.19	8.70	2.11
	13	11.8	11.30	2.39	10.60	2.31	10.00	2.27	9.70	2.17	9.40	2.08	8.70	2.00
	15	13.7	11.30	2.25	10.60	2.18	10.00	2.14	9.70	2.05	9.40	1.96	8.70	1.88
90	-19.8	-20	7.80	4.14	7.80	4.20	7.70	4.23	7.70	4.25	7.70	4.11	7.60	3.92
	-18.8	-19	8.00	4.16	8.00	4.22	7.90	4.25	7.90	4.18	7.90	4.04	7.80	3.85
	-16.7	-17	8.30	4.20	8.30	4.25	8.30	4.10	8.30	4.03	8.30	3.90	8.00	3.71
	-13.7	-15	8.90	4.25	8.90	4.03	8.90	3.89	8.90	3.81	8.60	3.69	8.00	3.51
	-11.8	-13	9.20	4.10	9.20	3.88	9.10	3.75	8.90	3.68	8.60	3.56	8.00	3.38
	-9.8	-11	9.50	3.93	9.50	3.73	9.10	3.61	8.90	3.53	8.60	3.42	8.00	3.25
	-9.5	-10	9.60	3.91	9.60	3.71	9.10	3.58	8.90	3.51	8.60	3.40	8.00	3.23
	-8.5	-9.1	9.80	3.82	9.70	3.63	9.10	3.51	8.90	3.44	8.60	3.33	8.00	3.16
	-7	-7.6	10.20	3.70	9.70	3.52	9.10	3.40	8.90	3.33	8.60	3.22	8.00	3.06
	-5	-5.6	10.30	3.53	9.70	3.37	9.10	3.26	8.90	3.18	8.60	3.08	8.00	2.92
	-3	-3.7	10.30	3.37	9.70	3.22	9.10	3.12	8.90	3.04	8.60	2.94	8.00	2.79
	0	-0.7	10.30	3.12	9.70	2.99	9.10	2.90	8.90	2.82	8.60	2.74	8.00	2.59
	3	2.2	10.30	2.87	9.70	2.77	9.10	2.69	8.90	2.61	8.60	2.53	8.00	2.39
	5	4.1	10.30	2.71	9.70	2.62	9.10	2.54	8.90	2.46	8.60	2.39	8.00	2.25
	7	6	10.30	2.54	9.70	2.46	9.10	2.40	8.90	2.32	8.60	2.25	8.00	2.12

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	9	7.9	10.30	2.39	9.70	2.32	9.10	2.26	8.90	2.18	8.60	2.11	8.00	1.99
	11	9.8	10.30	2.24	9.70	2.17	9.10	2.11	8.90	2.04	8.60	1.98	8.00	1.87
	13	11.8	10.30	2.09	9.70	2.02	9.10	1.97	8.90	1.90	8.60	1.84	8.00	1.74
	15	13.7	10.30	1.93	9.70	1.87	9.10	1.82	8.90	1.76	8.60	1.71	8.00	1.61
80	-19.8	-20	7.70	3.66	7.70	3.72	7.70	3.77	7.70	3.65	7.70	3.48	7.10	3.31
	-18.8	-19	7.90	3.68	7.90	3.77	7.90	3.71	7.90	3.58	7.70	3.42	7.10	3.26
	-16.7	-17	8.20	3.77	8.20	3.64	8.20	3.57	7.90	3.45	7.70	3.29	7.10	3.14
	-13.7	-15	8.20	3.57	8.20	3.44	8.20	3.38	7.90	3.26	7.70	3.12	7.10	2.97
	-11.8	-13	8.20	3.44	8.20	3.32	8.20	3.25	7.90	3.14	7.70	3.00	7.10	2.86
	-9.8	-11	8.20	3.30	8.20	3.19	8.20	3.13	7.90	3.02	7.70	2.88	7.10	2.75
	-9.5	-10	8.20	3.28	8.20	3.17	8.20	3.11	7.90	3.00	7.70	2.87	7.10	2.73
	-8.5	-9.1	8.70	3.22	8.70	3.11	8.20	3.04	7.90	2.93	7.70	2.81	7.10	2.68
	-7	-7.6	9.20	3.11	8.70	3.01	8.20	2.94	7.90	2.84	7.70	2.72	7.10	2.59
	-5	-5.6	9.20	2.98	8.70	2.88	8.20	2.82	7.90	2.71	7.70	2.60	7.10	2.48
	-3	-3.7	9.20	2.84	8.70	2.75	8.20	2.69	7.90	2.59	7.70	2.48	7.10	2.37
	0	-0.7	9.20	2.64	8.70	2.56	8.20	2.49	7.90	2.40	7.70	2.31	7.10	2.20
	3	2.2	9.20	2.44	8.70	2.36	8.20	2.30	7.90	2.21	7.70	2.13	7.10	2.03
	5	4.1	9.20	2.30	8.70	2.23	8.20	2.17	7.90	2.08	7.70	2.01	7.10	1.92
	7	6	9.20	2.17	8.70	2.10	8.20	2.04	7.90	1.96	7.70	1.89	7.10	1.81
	9	7.9	9.20	2.03	8.70	1.97	8.20	1.92	7.90	1.84	7.70	1.78	7.10	1.70
	11	9.8	9.20	1.89	8.70	1.83	8.20	1.78	7.90	1.70	7.70	1.65	7.10	1.57
	13	11.8	9.20	1.76	8.70	1.71	8.20	1.66	7.90	1.59	7.70	1.54	7.10	1.47
	15	13.7	9.20	1.66	8.70	1.61	8.20	1.56	7.90	1.50	7.70	1.45	7.10	1.38
70	-19.8	-20	7.70	3.66	7.40	3.68	7.00	3.55	6.70	3.37	6.50	3.20	6.10	3.03
	-18.8	-19	7.80	3.68	7.40	3.61	7.00	3.48	6.70	3.30	6.50	3.14	6.10	2.98
	-16.7	-17	7.80	3.54	7.40	3.47	7.00	3.34	6.70	3.17	6.50	3.02	6.10	2.86
	-13.7	-15	7.80	3.33	7.40	3.26	7.00	3.14	6.70	2.98	6.50	2.84	6.10	2.69
	-11.8	-13	7.80	3.20	7.40	3.12	7.00	3.01	6.70	2.86	6.50	2.73	6.10	2.58
	-9.8	-11	7.80	3.06	7.40	2.98	7.00	2.88	6.70	2.73	6.50	2.61	6.10	2.47
	-9.5	-10	7.80	3.04	7.40	2.96	7.00	2.86	6.70	2.71	6.50	2.59	6.10	2.45
	-8.5	-9.1	7.80	2.97	7.40	2.89	7.00	2.79	6.70	2.65	6.50	2.53	6.10	2.40
	-7	-7.6	7.80	2.86	7.40	2.79	7.00	2.69	6.70	2.56	6.50	2.44	6.10	2.31
	-5	-5.6	7.80	2.72	7.40	2.65	7.00	2.56	6.70	2.43	6.50	2.33	6.10	2.20
	-3	-3.7	7.80	2.58	7.40	2.51	7.00	2.42	6.70	2.30	6.50	2.21	6.10	2.09
	0	-0.7	7.80	2.37	7.40	2.30	7.00	2.22	6.70	2.11	6.50	2.03	6.10	1.92
	3	2.2	7.80	2.16	7.40	2.09	7.00	2.02	6.70	1.92	6.50	1.86	6.10	1.75
	5	4.1	7.80	2.03	7.40	1.95	7.00	1.88	6.70	1.80	6.50	1.74	6.10	1.64
	7	6	7.80	1.89	7.40	1.81	7.00	1.75	6.70	1.67	6.50	1.62	6.10	1.52
	9	7.9	7.80	1.70	7.40	1.63	7.00	1.58	6.70	1.51	6.50	1.46	6.10	1.38
	11	9.8	7.80	1.59	7.40	1.52	7.00	1.47	6.70	1.40	6.50	1.36	6.10	1.28
	13	11.8	7.80	1.48	7.40	1.42	7.00	1.38	6.70	1.31	6.50	1.27	6.10	1.20
	15	13.7	7.80	1.40	7.40	1.34	7.00	1.30	6.70	1.24	6.50	1.20	6.10	1.13
60	-19.8	-20	6.70	3.63	6.40	3.49	6.00	3.29	5.80	3.11	5.60	2.95	5.20	2.78
	-18.8	-19	6.70	3.56	6.40	3.41	6.00	3.23	5.80	3.05	5.60	2.89	5.20	2.73
	-16.7	-17	6.70	3.40	6.40	3.26	6.00	3.09	5.80	2.92	5.60	2.77	5.20	2.61
	-13.7	-15	6.70	3.18	6.40	3.05	6.00	2.88	5.80	2.73	5.60	2.59	5.20	2.44
	-11.8	-13	6.70	3.05	6.40	2.91	6.00	2.76	5.80	2.61	5.60	2.48	5.20	2.34

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-9.8	-11	6.70	2.90	6.40	2.77	6.00	2.62	5.80	2.49	5.60	2.36	5.20	2.22
	-9.5	-10	6.70	2.88	6.40	2.75	6.00	2.60	5.80	2.47	5.60	2.34	5.20	2.21
	-8.5	-9.1	6.70	2.80	6.40	2.68	6.00	2.53	5.80	2.41	5.60	2.29	5.20	2.15
	-7	-7.6	6.70	2.69	6.40	2.57	6.00	2.43	5.80	2.31	5.60	2.20	5.20	2.07
	-5	-5.6	6.70	2.55	6.40	2.43	6.00	2.30	5.80	2.19	5.60	2.08	5.20	1.95
	-3	-3.7	6.70	2.40	6.40	2.28	6.00	2.17	5.80	2.06	5.60	1.96	5.20	1.84
	0	-0.7	6.70	2.18	6.40	2.07	6.00	1.96	5.80	1.87	5.60	1.79	5.20	1.67
	3	2.2	6.70	1.97	6.40	1.85	6.00	1.76	5.80	1.69	5.60	1.61	5.20	1.51
	5	4.1	6.70	1.82	6.40	1.71	6.00	1.63	5.80	1.56	5.60	1.49	5.20	1.39
	7	6	6.70	1.67	6.40	1.57	6.00	1.49	5.80	1.44	5.60	1.38	5.20	1.28
	9	7.9	6.70	1.49	6.40	1.40	6.00	1.33	5.80	1.28	5.60	1.23	5.20	1.14
	11	9.8	6.70	1.39	6.40	1.31	6.00	1.24	5.80	1.20	5.60	1.15	5.20	1.07
	13	11.8	6.70	1.31	6.40	1.22	6.00	1.17	5.80	1.12	5.60	1.08	5.20	1.00
	15	13.7	6.70	1.23	6.40	1.16	6.00	1.10	5.80	1.06	5.60	1.02	5.20	0.94
50	-19.8	-20	5.60	3.01	5.30	2.84	5.00	2.68	4.80	2.53	4.70	2.40	4.30	2.27
	-18.8	-19	5.60	2.95	5.30	2.78	5.00	2.63	4.80	2.48	4.70	2.35	4.30	2.22
	-16.7	-17	5.60	2.82	5.30	2.66	5.00	2.51	4.80	2.37	4.70	2.25	4.30	2.12
	-13.7	-15	5.60	2.63	5.30	2.48	5.00	2.35	4.80	2.22	4.70	2.11	4.30	1.99
	-11.8	-13	5.60	2.51	5.30	2.37	5.00	2.24	4.80	2.12	4.70	2.02	4.30	1.90
	-9.8	-11	5.60	2.39	5.30	2.25	5.00	2.14	4.80	2.02	4.70	1.92	4.30	1.81
	-9.5	-10	5.60	2.37	5.30	2.23	5.00	2.12	4.80	2.00	4.70	1.91	4.30	1.80
	-8.5	-9.1	5.60	2.31	5.30	2.17	5.00	2.06	4.80	1.95	4.70	1.86	4.30	1.75
	-7	-7.6	5.60	2.22	5.30	2.09	5.00	1.98	4.80	1.88	4.70	1.79	4.30	1.68
	-5	-5.6	5.60	2.09	5.30	1.97	5.00	1.87	4.80	1.77	4.70	1.69	4.30	1.59
	-3	-3.7	5.60	1.97	5.30	1.85	5.00	1.76	4.80	1.67	4.70	1.60	4.30	1.50
	0	-0.7	5.60	1.78	5.30	1.67	5.00	1.60	4.80	1.52	4.70	1.45	4.30	1.36
	3	2.2	5.60	1.60	5.30	1.50	5.00	1.44	4.80	1.36	4.70	1.31	4.30	1.23
	5	4.1	5.60	1.47	5.30	1.38	5.00	1.33	4.80	1.26	4.70	1.22	4.30	1.14
	7	6	5.60	1.35	5.30	1.26	5.00	1.22	4.80	1.16	4.70	1.12	4.30	1.05
	9	7.9	5.60	1.22	5.30	1.14	5.00	1.10	4.80	1.04	4.70	1.01	4.30	0.94
	11	9.8	5.60	1.14	5.30	1.07	5.00	1.03	4.80	0.98	4.70	0.95	4.30	0.88
	13	11.8	5.60	1.07	5.30	1.00	5.00	0.97	4.80	0.92	4.70	0.89	4.30	0.83
	15	13.7	5.60	1.01	5.30	0.95	5.00	0.91	4.80	0.87	4.70	0.84	4.30	0.78

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN040GSS0, ZRUN040LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	11.30	6.03	11.30	6.07	11.20	6.10	11.20	6.15	11.20	6.20	11.00	6.28
	-18.8	-19	11.60	6.05	11.60	6.09	11.50	6.13	11.50	6.18	11.50	6.23	11.30	6.31
	-16.7	-17	12.10	6.11	12.10	6.15	12.10	6.18	12.10	6.24	12.10	6.29	11.80	6.36
	-13.7	-15	12.90	6.19	12.90	6.23	12.90	6.26	12.90	6.31	12.90	6.36	12.60	6.08
	-11.8	-13	13.40	6.24	13.40	6.28	13.30	6.31	13.30	6.36	13.30	6.17	13.10	5.90
	-9.8	-11	13.80	6.29	13.80	6.33	13.70	6.36	13.70	6.15	13.70	5.96	13.60	5.71
	-9.5	-10	13.90	6.30	13.90	6.34	13.80	6.33	13.80	6.12	13.80	5.93	13.70	5.68
	-8.5	-9.1	14.10	6.32	14.10	6.36	14.00	6.22	14.00	6.01	14.00	5.83	13.90	5.58
	-7	-7.6	14.50	6.36	14.50	6.20	14.40	6.05	14.40	5.85	14.40	5.67	14.30	5.44
	-5	-5.6	15.10	6.14	15.10	5.97	15.00	5.83	15.00	5.64	15.00	5.47	14.80	5.25
	-3	-3.7	15.60	5.91	15.60	5.75	15.50	5.61	15.50	5.43	15.50	5.26	15.40	5.06
	0	-0.7	16.40	5.57	16.40	5.41	16.30	5.27	16.30	5.11	16.30	4.95	16.00	4.77
	3	2.2	17.20	5.23	17.20	5.08	17.00	4.94	17.00	4.79	17.00	4.64	16.00	4.49
	5	4.1	17.70	5.01	17.70	4.85	17.60	4.72	17.60	4.57	17.20	4.44	16.00	4.30
	7	6	18.20	4.78	18.20	4.63	18.10	4.49	17.80	4.36	17.20	4.23	16.00	4.11
	9	7.9	18.40	4.59	18.40	4.44	18.30	4.31	17.80	4.19	17.20	4.06	16.00	3.94
	11	9.8	18.40	4.44	18.40	4.29	18.30	4.17	17.80	4.05	17.20	3.93	16.00	3.81
	13	11.8	18.40	4.27	18.40	4.14	18.30	4.02	17.80	3.90	17.20	3.78	16.00	3.67
	15	13.7	18.40	4.10	18.40	3.97	18.30	3.85	17.80	3.74	17.20	3.63	16.00	3.52
120	-19.8	-20	11.20	6.07	11.20	6.10	11.20	6.15	11.20	6.20	11.20	6.28	10.90	6.34
	-18.8	-19	11.50	6.09	11.50	6.13	11.40	6.18	11.40	6.23	11.40	6.31	11.20	6.36
	-16.7	-17	12.00	6.15	12.00	6.18	12.00	6.24	12.00	6.29	12.00	6.36	11.70	6.18
	-13.7	-15	12.80	6.23	12.80	6.26	12.80	6.31	12.80	6.36	12.80	6.09	12.50	5.92
	-11.8	-13	13.30	6.28	13.30	6.31	13.20	6.36	13.20	6.17	13.20	5.91	13.00	5.75
	-9.8	-11	13.70	6.33	13.70	6.36	13.60	6.14	13.60	5.96	13.60	5.73	13.50	5.58
	-9.5	-10	13.80	6.34	13.80	6.33	13.70	6.11	13.70	5.93	13.70	5.70	13.60	5.55
	-8.5	-9.1	14.00	6.36	14.00	6.21	13.90	6.00	13.90	5.82	13.90	5.61	13.80	5.46
	-7	-7.6	14.40	6.18	14.40	6.03	14.30	5.84	14.30	5.67	14.30	5.47	14.20	5.33
	-5	-5.6	14.90	5.95	14.90	5.80	14.90	5.62	14.90	5.46	14.90	5.29	14.70	5.16
	-3	-3.7	15.50	5.71	15.50	5.56	15.40	5.40	15.40	5.25	15.40	5.10	15.10	4.98
	0	-0.7	16.20	5.35	16.20	5.21	16.10	5.07	16.10	4.94	16.10	4.82	15.10	4.72
	3	2.2	17.00	4.99	17.00	4.86	16.90	4.74	16.70	4.63	16.20	4.55	15.10	4.45
	5	4.1	17.60	4.75	17.60	4.62	17.30	4.52	16.70	4.43	16.20	4.36	15.10	4.28
	7	6	18.10	4.51	18.00	4.39	17.30	4.30	16.70	4.22	16.20	4.18	15.10	4.10
	9	7.9	18.20	4.32	18.00	4.20	17.30	4.12	16.70	4.04	16.20	4.01	15.10	3.93
	11	9.8	18.20	4.17	18.00	4.06	17.30	3.98	16.70	3.90	16.20	3.86	15.10	3.80
	13	11.8	18.20	4.01	18.00	3.90	17.30	3.82	16.70	3.75	16.20	3.72	15.10	3.65
	15	13.7	18.20	3.84	18.00	3.74	17.30	3.66	16.70	3.59	16.20	3.56	15.10	3.50
110	-19.8	-20	11.20	6.10	11.20	6.15	11.10	6.20	11.10	6.28	11.10	6.34	10.90	6.36
	-18.8	-19	11.40	6.13	11.40	6.18	11.40	6.23	11.40	6.31	11.40	6.36	11.10	6.27
	-16.7	-17	12.00	6.18	12.00	6.24	11.90	6.29	11.90	6.36	11.90	6.17	11.70	6.07
	-13.7	-15	12.80	6.26	12.80	6.31	12.70	6.36	12.70	6.07	12.70	5.89	12.70	5.79
	-11.8	-13	13.20	6.31	13.20	6.36	13.10	6.15	13.10	5.88	13.10	5.71	13.10	5.61
	-9.8	-11	13.60	6.36	13.60	6.12	13.50	5.93	13.50	5.68	13.50	5.52	13.50	5.42
	-9.5	-10	13.70	6.32	13.70	6.09	13.60	5.90	13.60	5.65	13.60	5.50	13.60	5.39
	-8.5	-9.1	14.00	6.19	14.00	5.97	13.90	5.78	13.90	5.55	13.90	5.40	13.60	5.30

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-7	-7.6	14.30	6.00	14.30	5.79	14.30	5.62	14.30	5.40	14.30	5.26	13.60	5.16
	-5	-5.6	14.90	5.74	14.90	5.55	14.80	5.40	14.80	5.20	14.50	5.08	13.60	4.97
	-3	-3.7	15.40	5.47	15.40	5.31	15.30	5.17	15.00	5.00	14.50	4.89	13.60	4.78
	0	-0.7	16.20	5.08	16.20	4.95	15.50	4.84	15.00	4.70	14.50	4.61	13.60	4.50
	3	2.2	16.90	4.69	16.50	4.59	15.50	4.50	15.00	4.41	14.50	4.33	13.60	4.21
	5	4.1	17.50	4.43	16.50	4.35	15.50	4.28	15.00	4.21	14.50	4.14	13.60	4.02
	7	6	17.50	4.17	16.50	4.10	15.50	4.06	15.00	4.01	14.50	3.96	13.60	3.84
	9	7.9	17.50	3.98	16.50	3.92	15.50	3.87	15.00	3.83	14.50	3.78	13.60	3.66
	11	9.8	17.50	3.82	16.50	3.76	15.50	3.72	15.00	3.68	14.50	3.63	13.60	3.52
	13	11.8	17.50	3.66	16.50	3.60	15.50	3.56	15.00	3.52	14.50	3.47	13.60	3.36
	15	13.7	17.50	3.48	16.50	3.43	15.50	3.39	15.00	3.35	14.50	3.31	13.60	3.20
100	-19.8	-20	11.10	6.53	11.10	6.50	11.00	6.42	11.00	6.42	11.00	6.41	10.80	6.36
	-18.8	-19	11.40	6.51	11.30	6.48	11.30	6.45	11.30	6.40	11.30	6.36	11.10	6.25
	-16.7	-17	11.90	6.48	11.90	6.45	11.90	6.50	11.80	6.36	11.80	6.13	11.60	6.02
	-13.7	-15	12.70	6.43	12.70	6.40	12.60	6.36	12.60	6.02	12.60	5.80	12.40	5.68
	-11.8	-13	13.10	6.40	13.00	6.36	13.00	6.13	13.00	5.81	13.00	5.59	12.40	5.47
	-9.8	-11	13.50	6.36	13.50	6.10	13.50	5.89	13.50	5.58	13.30	5.37	12.40	5.25
	-9.5	-10	13.60	6.32	13.60	6.06	13.60	5.85	13.60	5.55	13.30	5.34	12.40	5.22
	-8.5	-9.1	13.90	6.18	13.90	5.93	13.80	5.73	13.70	5.43	13.30	5.23	12.40	5.11
	-7	-7.6	14.50	5.98	14.40	5.74	14.20	5.55	13.70	5.26	13.30	5.06	12.40	4.94
	-5	-5.6	15.10	5.70	15.00	5.48	14.20	5.30	13.70	5.04	13.30	4.84	12.40	4.72
	-3	-3.7	15.60	5.42	15.10	5.21	14.20	5.06	13.70	4.81	13.30	4.62	12.40	4.49
	0	-0.7	16.00	5.01	15.10	4.82	14.20	4.69	13.70	4.47	13.30	4.29	12.40	4.16
	3	2.2	16.00	4.59	15.10	4.43	14.20	4.33	13.70	4.13	13.30	3.96	12.40	3.83
	5	4.1	16.00	4.31	15.10	4.17	14.20	4.08	13.70	3.90	13.30	3.74	12.40	3.60
	7	6	16.00	4.03	15.10	3.91	14.20	3.84	13.70	3.67	13.30	3.51	12.40	3.38
	9	7.9	16.00	3.83	15.10	3.71	14.20	3.64	13.70	3.48	13.30	3.33	12.40	3.21
	11	9.8	16.00	3.65	15.10	3.53	14.20	3.47	13.70	3.32	13.30	3.18	12.40	3.06
	13	11.8	16.00	3.46	15.10	3.35	14.20	3.29	13.70	3.15	13.30	3.01	12.40	2.90
	15	13.7	16.00	3.26	15.10	3.16	14.20	3.10	13.70	2.97	13.30	2.84	12.40	2.73
90	-19.8	-20	11.10	6.01	11.10	6.08	11.00	6.14	11.00	6.17	11.00	5.96	10.80	5.68
	-18.8	-19	11.40	6.03	11.30	6.11	11.30	6.17	11.30	6.06	11.30	5.86	11.00	5.58
	-16.7	-17	11.90	6.09	11.90	6.17	11.80	5.95	11.80	5.84	11.80	5.65	11.30	5.38
	-13.7	-15	12.70	6.17	12.70	5.84	12.60	5.63	12.60	5.53	12.20	5.35	11.30	5.09
	-11.8	-13	13.10	5.94	13.00	5.63	13.00	5.44	12.60	5.33	12.20	5.16	11.30	4.90
	-9.8	-11	13.50	5.70	13.50	5.41	13.00	5.23	12.60	5.12	12.20	4.95	11.30	4.71
	-9.5	-10	13.60	5.66	13.60	5.38	13.00	5.20	12.60	5.09	12.20	4.92	11.30	4.68
	-8.5	-9.1	13.90	5.54	13.80	5.27	13.00	5.09	12.60	4.98	12.20	4.82	11.30	4.58
	-7	-7.6	14.50	5.36	13.80	5.10	13.00	4.94	12.60	4.83	12.20	4.67	11.30	4.43
	-5	-5.6	14.70	5.12	13.80	4.89	13.00	4.73	12.60	4.62	12.20	4.47	11.30	4.24
	-3	-3.7	14.70	4.88	13.80	4.67	13.00	4.52	12.60	4.41	12.20	4.27	11.30	4.05
	0	-0.7	14.70	4.53	13.80	4.34	13.00	4.21	12.60	4.09	12.20	3.97	11.30	3.75
	3	2.2	14.70	4.17	13.80	4.01	13.00	3.89	12.60	3.78	12.20	3.66	11.30	3.46
	5	4.1	14.70	3.93	13.80	3.79	13.00	3.69	12.60	3.57	12.20	3.46	11.30	3.27
	7	6	14.70	3.69	13.80	3.57	13.00	3.48	12.60	3.36	12.20	3.26	11.30	3.07
	9	7.9	14.70	3.47	13.80	3.36	13.00	3.27	12.60	3.16	12.20	3.06	11.30	2.89
	11	9.8	14.70	3.25	13.80	3.15	13.00	3.06	12.60	2.96	12.20	2.87	11.30	2.71

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	13	11.8	14.70	3.02	13.80	2.93	13.00	2.85	12.60	2.76	12.20	2.67	11.30	2.52
	15	13.7	14.70	2.80	13.80	2.72	13.00	2.64	12.60	2.55	12.20	2.48	11.30	2.34
80	-19.8	-20	11.00	5.31	11.00	5.39	11.00	5.47	11.00	5.28	10.90	5.04	10.10	4.80
	-18.8	-19	11.20	5.33	11.20	5.47	11.20	5.37	11.20	5.19	10.90	4.95	10.10	4.72
	-16.7	-17	11.60	5.47	11.60	5.27	11.60	5.18	11.30	5.00	10.90	4.77	10.10	4.55
	-13.7	-15	11.60	5.17	11.60	4.99	11.60	4.90	11.30	4.73	10.90	4.52	10.10	4.31
	-11.8	-13	11.60	4.99	11.60	4.81	11.60	4.72	11.30	4.55	10.90	4.35	10.10	4.15
	-9.8	-11	11.60	4.79	11.60	4.62	11.60	4.53	11.30	4.37	10.90	4.18	10.10	3.99
	-9.5	-10	11.60	4.76	11.60	4.60	11.60	4.50	11.30	4.34	10.90	4.16	10.10	3.96
	-8.5	-9.1	12.40	4.66	12.40	4.50	11.60	4.41	11.30	4.25	10.90	4.07	10.10	3.88
	-7	-7.6	13.10	4.52	12.40	4.36	11.60	4.27	11.30	4.12	10.90	3.94	10.10	3.76
	-5	-5.6	13.10	4.32	12.40	4.17	11.60	4.08	11.30	3.93	10.90	3.77	10.10	3.60
	-3	-3.7	13.10	4.12	12.40	3.99	11.60	3.90	11.30	3.75	10.90	3.60	10.10	3.43
	0	-0.7	13.10	3.83	12.40	3.71	11.60	3.61	11.30	3.48	10.90	3.34	10.10	3.19
	3	2.2	13.10	3.53	12.40	3.42	11.60	3.33	11.30	3.20	10.90	3.09	10.10	2.94
	5	4.1	13.10	3.34	12.40	3.24	11.60	3.15	11.30	3.02	10.90	2.91	10.10	2.78
	7	6	13.10	3.14	12.40	3.05	11.60	2.96	11.30	2.84	10.90	2.74	10.10	2.62
	9	7.9	13.10	2.95	12.40	2.86	11.60	2.78	11.30	2.66	10.90	2.58	10.10	2.46
	11	9.8	13.10	2.74	12.40	2.66	11.60	2.58	11.30	2.47	10.90	2.39	10.10	2.28
	13	11.8	13.10	2.55	12.40	2.48	11.60	2.41	11.30	2.31	10.90	2.23	10.10	2.13
	15	13.7	13.10	2.40	12.40	2.34	11.60	2.27	11.30	2.17	10.90	2.10	10.10	2.01
70	-19.8	-20	11.00	5.31	10.50	5.34	9.90	5.14	9.60	4.88	9.30	4.64	8.70	4.40
	-18.8	-19	11.10	5.34	10.50	5.24	9.90	5.05	9.60	4.79	9.30	4.55	8.70	4.32
	-16.7	-17	11.10	5.13	10.50	5.03	9.90	4.84	9.60	4.60	9.30	4.37	8.70	4.15
	-13.7	-15	11.10	4.82	10.50	4.72	9.90	4.55	9.60	4.32	9.30	4.12	8.70	3.90
	-11.8	-13	11.10	4.63	10.50	4.53	9.90	4.37	9.60	4.15	9.30	3.95	8.70	3.75
	-9.8	-11	11.10	4.43	10.50	4.33	9.90	4.17	9.60	3.96	9.30	3.78	8.70	3.58
	-9.5	-10	11.10	4.40	10.50	4.30	9.90	4.14	9.60	3.94	9.30	3.76	8.70	3.56
	-8.5	-9.1	11.10	4.30	10.50	4.19	9.90	4.05	9.60	3.84	9.30	3.67	8.70	3.48
	-7	-7.6	11.10	4.15	10.50	4.04	9.90	3.90	9.60	3.71	9.30	3.54	8.70	3.35
	-5	-5.6	11.10	3.95	10.50	3.84	9.90	3.70	9.60	3.52	9.30	3.37	8.70	3.19
	-3	-3.7	11.10	3.74	10.50	3.64	9.90	3.51	9.60	3.34	9.30	3.20	8.70	3.03
	0	-0.7	11.10	3.44	10.50	3.33	9.90	3.22	9.60	3.06	9.30	2.95	8.70	2.78
	3	2.2	11.10	3.14	10.50	3.03	9.90	2.93	9.60	2.79	9.30	2.69	8.70	2.54
	5	4.1	11.10	2.94	10.50	2.83	9.90	2.73	9.60	2.61	9.30	2.52	8.70	2.37
	7	6	11.10	2.73	10.50	2.62	9.90	2.54	9.60	2.42	9.30	2.35	8.70	2.21
	9	7.9	11.10	2.47	10.50	2.37	9.90	2.29	9.60	2.19	9.30	2.12	8.70	1.99
	11	9.8	11.10	2.30	10.50	2.21	9.90	2.13	9.60	2.04	9.30	1.98	8.70	1.86
	13	11.8	11.10	2.15	10.50	2.06	9.90	2.00	9.60	1.91	9.30	1.85	8.70	1.74
	15	13.7	11.10	2.03	10.50	1.95	9.90	1.88	9.60	1.80	9.30	1.74	8.70	1.64
60	-19.8	-20	9.60	5.26	9.00	5.05	8.50	4.77	8.20	4.52	7.90	4.27	7.40	4.04
	-18.8	-19	9.60	5.16	9.00	4.95	8.50	4.68	8.20	4.42	7.90	4.19	7.40	3.95
	-16.7	-17	9.60	4.93	9.00	4.73	8.50	4.47	8.20	4.23	7.90	4.01	7.40	3.78
	-13.7	-15	9.60	4.62	9.00	4.42	8.50	4.18	8.20	3.96	7.90	3.75	7.40	3.54
	-11.8	-13	9.60	4.41	9.00	4.22	8.50	4.00	8.20	3.79	7.90	3.59	7.40	3.39
	-9.8	-11	9.60	4.20	9.00	4.02	8.50	3.80	8.20	3.61	7.90	3.42	7.40	3.22
	-9.5	-10	9.60	4.17	9.00	3.98	8.50	3.77	8.20	3.58	7.90	3.40	7.40	3.20

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-8.5	-9.1	9.60	4.07	9.00	3.88	8.50	3.67	8.20	3.49	7.90	3.31	7.40	3.12
	-7	-7.6	9.60	3.91	9.00	3.73	8.50	3.53	8.20	3.35	7.90	3.19	7.40	3.00
	-5	-5.6	9.60	3.70	9.00	3.52	8.50	3.33	8.20	3.17	7.90	3.02	7.40	2.83
	-3	-3.7	9.60	3.48	9.00	3.31	8.50	3.14	8.20	2.99	7.90	2.85	7.40	2.67
	0	-0.7	9.60	3.17	9.00	3.00	8.50	2.85	8.20	2.72	7.90	2.59	7.40	2.43
	3	2.2	9.60	2.85	9.00	2.69	8.50	2.56	8.20	2.45	7.90	2.34	7.40	2.18
	5	4.1	9.60	2.64	9.00	2.48	8.50	2.36	8.20	2.26	7.90	2.17	7.40	2.02
	7	6	9.60	2.43	9.00	2.27	8.50	2.17	8.20	2.08	7.90	2.00	7.40	1.86
	9	7.9	9.60	2.16	9.00	2.03	8.50	1.93	8.20	1.86	7.90	1.78	7.40	1.66
	11	9.8	9.60	2.02	9.00	1.89	8.50	1.80	8.20	1.73	7.90	1.66	7.40	1.55
	13	11.8	9.60	1.89	9.00	1.77	8.50	1.69	8.20	1.62	7.90	1.56	7.40	1.45
	15	13.7	9.60	1.79	9.00	1.68	8.50	1.60	8.20	1.54	7.90	1.47	7.40	1.37
50	-19.8	-20	8.00	4.36	7.50	4.11	7.10	3.89	6.80	3.67	6.60	3.48	6.20	3.28
	-18.8	-19	8.00	4.27	7.50	4.03	7.10	3.81	6.80	3.60	6.60	3.41	6.20	3.22
	-16.7	-17	8.00	4.08	7.50	3.85	7.10	3.64	6.80	3.44	6.60	3.26	6.20	3.08
	-13.7	-15	8.00	3.81	7.50	3.59	7.10	3.40	6.80	3.22	6.60	3.06	6.20	2.88
	-11.8	-13	8.00	3.64	7.50	3.43	7.10	3.25	6.80	3.08	6.60	2.92	6.20	2.76
	-9.8	-11	8.00	3.46	7.50	3.26	7.10	3.10	6.80	2.93	6.60	2.79	6.20	2.62
	-9.5	-10	8.00	3.44	7.50	3.24	7.10	3.07	6.80	2.91	6.60	2.76	6.20	2.60
	-8.5	-9.1	8.00	3.35	7.50	3.15	7.10	2.99	6.80	2.83	6.60	2.70	6.20	2.54
	-7	-7.6	8.00	3.21	7.50	3.02	7.10	2.87	6.80	2.72	6.60	2.59	6.20	2.44
	-5	-5.6	8.00	3.03	7.50	2.85	7.10	2.72	6.80	2.57	6.60	2.45	6.20	2.31
	-3	-3.7	8.00	2.85	7.50	2.68	7.10	2.56	6.80	2.42	6.60	2.32	6.20	2.18
	0	-0.7	8.00	2.58	7.50	2.43	7.10	2.32	6.80	2.20	6.60	2.11	6.20	1.98
	3	2.2	8.00	2.32	7.50	2.17	7.10	2.08	6.80	1.97	6.60	1.90	6.20	1.78
	5	4.1	8.00	2.14	7.50	2.00	7.10	1.92	6.80	1.83	6.60	1.76	6.20	1.65
	7	6	8.00	1.96	7.50	1.83	7.10	1.76	6.80	1.68	6.60	1.62	6.20	1.52
	9	7.9	8.00	1.77	7.50	1.65	7.10	1.59	6.80	1.51	6.60	1.47	6.20	1.37
	11	9.8	8.00	1.65	7.50	1.55	7.10	1.49	6.80	1.42	6.60	1.37	6.20	1.28
	13	11.8	8.00	1.55	7.50	1.45	7.10	1.40	6.80	1.33	6.60	1.29	6.20	1.20
	15	13.7	8.00	1.47	7.50	1.38	7.10	1.32	6.80	1.26	6.60	1.22	6.20	1.14

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN050GSS0, ZRUN050LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	12.70	6.78	12.70	6.83	12.70	6.86	12.70	6.92	12.70	6.98	12.40	7.07
	-18.8	-19	13.00	6.81	13.00	6.86	13.00	6.89	13.00	6.95	13.00	7.01	12.70	7.10
	-16.7	-17	13.70	6.87	13.70	6.92	13.60	6.96	13.60	7.01	13.60	7.07	13.30	7.16
	-13.7	-15	14.60	6.96	14.60	7.01	14.50	7.04	14.50	7.10	14.50	7.16	14.20	6.84
	-11.8	-13	15.00	7.02	15.00	7.06	15.00	7.10	15.00	7.16	15.00	6.94	14.70	6.63
	-9.8	-11	15.50	7.08	15.50	7.12	15.40	7.16	15.40	6.92	15.40	6.71	15.30	6.42
	-9.5	-10	15.60	7.09	15.60	7.13	15.50	7.12	15.50	6.88	15.50	6.67	15.40	6.39
	-8.5	-9.1	15.90	7.11	15.90	7.16	15.80	7.00	15.80	6.76	15.80	6.56	15.70	6.28
	-7	-7.6	16.40	7.16	16.40	6.97	16.30	6.81	16.30	6.58	16.30	6.38	16.10	6.12
	-5	-5.6	17.00	6.90	17.00	6.72	16.90	6.56	16.90	6.34	16.90	6.15	16.70	5.90
	-3	-3.7	17.60	6.65	17.60	6.47	17.40	6.31	17.40	6.11	17.40	5.92	17.30	5.69
	0	-0.7	18.40	6.27	18.40	6.09	18.30	5.93	18.30	5.75	18.30	5.57	18.10	5.37
	3	2.2	19.30	5.89	19.30	5.71	19.20	5.56	19.20	5.39	19.20	5.22	18.10	5.05
	5	4.1	19.90	5.63	19.90	5.46	19.80	5.30	19.80	5.15	19.40	4.99	18.10	4.83
	7	6	20.50	5.38	20.50	5.21	20.40	5.05	20.10	4.91	19.40	4.76	18.10	4.62
	9	7.9	20.70	5.16	20.70	5.00	20.60	4.85	20.10	4.71	19.40	4.57	18.10	4.43
	11	9.8	20.70	4.99	20.70	4.83	20.60	4.69	20.10	4.55	19.40	4.42	18.10	4.29
	13	11.8	20.70	4.81	20.70	4.65	20.60	4.52	20.10	4.39	19.40	4.26	18.10	4.13
	15	13.7	20.70	4.61	20.70	4.47	20.60	4.34	20.10	4.21	19.40	4.08	18.10	3.96
120	-19.8	-20	12.60	6.83	12.60	6.86	12.60	6.92	12.60	6.98	12.60	7.07	12.30	7.13
	-18.8	-19	12.90	6.86	12.90	6.89	12.90	6.95	12.90	7.01	12.90	7.10	12.60	7.16
	-16.7	-17	13.60	6.92	13.60	6.96	13.50	7.01	13.50	7.07	13.50	7.16	13.20	6.95
	-13.7	-15	14.50	7.01	14.50	7.04	14.40	7.10	14.40	7.16	14.40	6.85	14.10	6.66
	-11.8	-13	14.90	7.06	14.90	7.10	14.80	7.16	14.80	6.94	14.80	6.65	14.60	6.47
	-9.8	-11	15.40	7.12	15.40	7.16	15.30	6.91	15.30	6.70	15.30	6.44	15.20	6.27
	-9.5	-10	15.50	7.13	15.50	7.12	15.40	6.88	15.40	6.67	15.40	6.41	15.30	6.24
	-8.5	-9.1	15.80	7.16	15.80	6.99	15.70	6.75	15.70	6.55	15.70	6.31	15.60	6.14
	-7	-7.6	16.30	6.96	16.30	6.79	16.20	6.57	16.20	6.38	16.20	6.15	16.00	6.00
	-5	-5.6	16.80	6.69	16.80	6.52	16.70	6.32	16.70	6.14	16.70	5.95	16.60	5.80
	-3	-3.7	17.40	6.42	17.40	6.26	17.30	6.07	17.30	5.91	17.30	5.74	17.00	5.60
	0	-0.7	18.30	6.02	18.30	5.86	18.20	5.70	18.20	5.56	18.20	5.43	17.00	5.31
	3	2.2	19.20	5.61	19.20	5.47	19.10	5.33	18.80	5.21	18.30	5.12	17.00	5.01
	5	4.1	19.80	5.34	19.80	5.20	19.50	5.09	18.80	4.98	18.30	4.91	17.00	4.81
	7	6	20.40	5.07	20.30	4.94	19.50	4.84	18.80	4.75	18.30	4.70	17.00	4.62
	9	7.9	20.50	4.86	20.30	4.73	19.50	4.64	18.80	4.55	18.30	4.51	17.00	4.43
	11	9.8	20.50	4.69	20.30	4.56	19.50	4.47	18.80	4.39	18.30	4.35	17.00	4.27
	13	11.8	20.50	4.51	20.30	4.39	19.50	4.30	18.80	4.22	18.30	4.18	17.00	4.11
	15	13.7	20.50	4.32	20.30	4.20	19.50	4.12	18.80	4.04	18.30	4.00	17.00	3.93
110	-19.8	-20	12.60	6.86	12.60	6.92	12.50	6.98	12.50	7.07	12.50	7.13	12.20	7.16
	-18.8	-19	12.90	6.89	12.90	6.95	12.80	7.01	12.80	7.10	12.80	7.16	12.50	7.05
	-16.7	-17	13.50	6.96	13.50	7.01	13.40	7.07	13.40	7.16	13.40	6.94	13.10	6.83
	-13.7	-15	14.40	7.04	14.40	7.10	14.30	7.16	14.30	6.82	14.30	6.62	14.30	6.51
	-11.8	-13	14.90	7.10	14.90	7.16	14.80	6.92	14.80	6.61	14.80	6.42	14.80	6.31
	-9.8	-11	15.30	7.16	15.30	6.89	15.30	6.67	15.30	6.39	15.30	6.22	15.20	6.10
	-9.5	-10	15.40	7.12	15.40	6.85	15.30	6.63	15.30	6.35	15.30	6.18	15.30	6.07
	-8.5	-9.1	15.70	6.97	15.70	6.71	15.60	6.51	15.60	6.24	15.60	6.08	15.30	5.96

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-7	-7.6	16.20	6.75	16.20	6.51	16.10	6.32	16.10	6.08	16.10	5.92	15.30	5.80
	-5	-5.6	16.80	6.45	16.80	6.24	16.60	6.07	16.60	5.85	16.40	5.71	15.30	5.59
	-3	-3.7	17.30	6.16	17.30	5.97	17.20	5.82	16.90	5.63	16.40	5.50	15.30	5.38
	0	-0.7	18.20	5.72	18.20	5.56	17.50	5.44	16.90	5.29	16.40	5.19	15.30	5.06
	3	2.2	19.10	5.28	18.60	5.16	17.50	5.07	16.90	4.96	16.40	4.87	15.30	4.74
	5	4.1	19.70	4.98	18.60	4.89	17.50	4.82	16.90	4.73	16.40	4.66	15.30	4.53
	7	6	19.70	4.69	18.60	4.62	17.50	4.57	16.90	4.51	16.40	4.45	15.30	4.32
	9	7.9	19.70	4.48	18.60	4.41	17.50	4.36	16.90	4.31	16.40	4.25	15.30	4.12
	11	9.8	19.70	4.30	18.60	4.23	17.50	4.19	16.90	4.14	16.40	4.08	15.30	3.96
	13	11.8	19.70	4.11	18.60	4.05	17.50	4.01	16.90	3.96	16.40	3.91	15.30	3.79
	15	13.7	19.70	3.92	18.60	3.86	17.50	3.81	16.90	3.77	16.40	3.72	15.30	3.60
100	-19.8	-20	12.50	7.35	12.50	7.31	12.40	7.23	12.40	7.22	12.40	7.21	12.20	7.16
	-18.8	-19	12.80	7.33	12.70	7.29	12.70	7.25	12.70	7.20	12.70	7.16	12.50	7.03
	-16.7	-17	13.40	7.29	13.40	7.25	13.40	7.32	13.30	7.16	13.30	6.90	13.00	6.77
	-13.7	-15	14.30	7.23	14.30	7.19	14.20	7.16	14.20	6.78	14.20	6.53	14.00	6.40
	-11.8	-13	14.80	7.20	14.70	7.16	14.70	6.90	14.70	6.53	14.70	6.29	14.00	6.16
	-9.8	-11	15.30	7.16	15.30	6.87	15.20	6.62	15.20	6.28	15.00	6.04	14.00	5.91
	-9.5	-10	15.40	7.11	15.40	6.82	15.30	6.58	15.30	6.24	15.00	6.00	14.00	5.87
	-8.5	-9.1	15.60	6.96	15.60	6.67	15.60	6.45	15.50	6.11	15.00	5.88	14.00	5.74
	-7	-7.6	16.40	6.72	16.30	6.45	16.00	6.24	15.50	5.92	15.00	5.69	14.00	5.56
	-5	-5.6	17.10	6.41	16.90	6.16	16.00	5.97	15.50	5.67	15.00	5.44	14.00	5.31
	-3	-3.7	17.60	6.10	17.00	5.87	16.00	5.69	15.50	5.41	15.00	5.20	14.00	5.06
	0	-0.7	18.00	5.63	17.00	5.43	16.00	5.28	15.50	5.03	15.00	4.82	14.00	4.68
	3	2.2	18.00	5.16	17.00	4.98	16.00	4.87	15.50	4.64	15.00	4.45	14.00	4.30
	5	4.1	18.00	4.85	17.00	4.69	16.00	4.59	15.50	4.39	15.00	4.20	14.00	4.05
	7	6	18.00	4.54	17.00	4.40	16.00	4.32	15.50	4.13	15.00	3.95	14.00	3.80
	9	7.9	18.00	4.30	17.00	4.17	16.00	4.10	15.50	3.92	15.00	3.75	14.00	3.61
	11	9.8	18.00	4.10	17.00	3.97	16.00	3.90	15.50	3.74	15.00	3.57	14.00	3.44
	13	11.8	18.00	3.89	17.00	3.77	16.00	3.70	15.50	3.54	15.00	3.39	14.00	3.26
	15	13.7	18.00	3.67	17.00	3.55	16.00	3.49	15.50	3.34	15.00	3.19	14.00	3.07
90	-19.8	-20	12.50	6.76	12.50	6.85	12.40	6.91	12.40	6.94	12.40	6.71	12.10	6.39
	-18.8	-19	12.80	6.79	12.70	6.87	12.70	6.94	12.70	6.82	12.70	6.60	12.40	6.28
	-16.7	-17	13.40	6.85	13.40	6.94	13.30	6.69	13.30	6.57	13.30	6.36	12.80	6.05
	-13.7	-15	14.30	6.94	14.30	6.57	14.20	6.34	14.20	6.22	13.70	6.02	12.80	5.72
	-11.8	-13	14.80	6.68	14.70	6.33	14.60	6.12	14.20	5.99	13.70	5.80	12.80	5.51
	-9.8	-11	15.30	6.41	15.30	6.09	14.60	5.88	14.20	5.76	13.70	5.57	12.80	5.30
	-9.5	-10	15.40	6.37	15.40	6.05	14.60	5.85	14.20	5.72	13.70	5.54	12.80	5.26
	-8.5	-9.1	15.60	6.24	15.50	5.93	14.60	5.73	14.20	5.61	13.70	5.43	12.80	5.15
	-7	-7.6	16.40	6.03	15.60	5.74	14.60	5.55	14.20	5.43	13.70	5.26	12.80	4.99
	-5	-5.6	16.50	5.76	15.60	5.50	14.60	5.32	14.20	5.19	13.70	5.03	12.80	4.77
	-3	-3.7	16.50	5.50	15.60	5.25	14.60	5.08	14.20	4.96	13.70	4.80	12.80	4.55
	0	-0.7	16.50	5.09	15.60	4.88	14.60	4.73	14.20	4.60	13.70	4.46	12.80	4.22
	3	2.2	16.50	4.69	15.60	4.51	14.60	4.38	14.20	4.25	13.70	4.12	12.80	3.90
	5	4.1	16.50	4.42	15.60	4.27	14.60	4.15	14.20	4.01	13.70	3.89	12.80	3.68
	7	6	16.50	4.15	15.60	4.02	14.60	3.91	14.20	3.78	13.70	3.67	12.80	3.46
	9	7.9	16.50	3.90	15.60	3.78	14.60	3.68	14.20	3.55	13.70	3.45	12.80	3.25
	11	9.8	16.50	3.65	15.60	3.54	14.60	3.44	14.20	3.33	13.70	3.23	12.80	3.04

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	13	11.8	16.50	3.40	15.60	3.30	14.60	3.21	14.20	3.10	13.70	3.01	12.80	2.84
	15	13.7	16.50	3.15	15.60	3.06	14.60	2.97	14.20	2.87	13.70	2.79	12.80	2.63
80	-19.8	-20	12.30	5.97	12.30	6.06	12.30	6.15	12.30	5.95	12.20	5.67	11.40	5.40
	-18.8	-19	12.60	6.00	12.60	6.15	12.60	6.05	12.60	5.84	12.20	5.57	11.40	5.31
	-16.7	-17	13.10	6.15	13.10	5.93	13.10	5.82	12.70	5.63	12.20	5.37	11.40	5.12
	-13.7	-15	13.10	5.82	13.10	5.61	13.10	5.51	12.70	5.32	12.20	5.08	11.40	4.84
	-11.8	-13	13.10	5.61	13.10	5.41	13.10	5.31	12.70	5.12	12.20	4.90	11.40	4.67
	-9.8	-11	13.10	5.39	13.10	5.20	13.10	5.10	12.70	4.92	12.20	4.71	11.40	4.49
	-9.5	-10	13.10	5.36	13.10	5.17	13.10	5.07	12.70	4.89	12.20	4.68	11.40	4.46
	-8.5	-9.1	13.90	5.25	13.90	5.06	13.10	4.96	12.70	4.78	12.20	4.58	11.40	4.37
	-7	-7.6	14.80	5.08	13.90	4.91	13.10	4.80	12.70	4.63	12.20	4.44	11.40	4.23
	-5	-5.6	14.80	4.86	13.90	4.70	13.10	4.59	12.70	4.42	12.20	4.24	11.40	4.05
	-3	-3.7	14.80	4.64	13.90	4.48	13.10	4.38	12.70	4.22	12.20	4.05	11.40	3.86
	0	-0.7	14.80	4.31	13.90	4.17	13.10	4.07	12.70	3.91	12.20	3.76	11.40	3.59
	3	2.2	14.80	3.97	13.90	3.85	13.10	3.75	12.70	3.60	12.20	3.47	11.40	3.31
	5	4.1	14.80	3.75	13.90	3.64	13.10	3.54	12.70	3.40	12.20	3.28	11.40	3.13
	7	6	14.80	3.53	13.90	3.43	13.10	3.33	12.70	3.19	12.20	3.09	11.40	2.95
	9	7.9	14.80	3.32	13.90	3.22	13.10	3.13	12.70	3.00	12.20	2.90	11.40	2.77
	11	9.8	14.80	3.08	13.90	2.99	13.10	2.90	12.70	2.78	12.20	2.69	11.40	2.57
	13	11.8	14.80	2.87	13.90	2.79	13.10	2.71	12.70	2.60	12.20	2.51	11.40	2.40
	15	13.7	14.80	2.71	13.90	2.63	13.10	2.55	12.70	2.44	12.20	2.36	11.40	2.26
70	-19.8	-20	12.30	5.98	11.80	6.01	11.10	5.79	10.80	5.49	10.40	5.22	9.70	4.95
	-18.8	-19	12.50	6.01	11.80	5.89	11.10	5.68	10.80	5.39	10.40	5.12	9.70	4.86
	-16.7	-17	12.50	5.77	11.80	5.65	11.10	5.45	10.80	5.17	10.40	4.92	9.70	4.66
	-13.7	-15	12.50	5.43	11.80	5.31	11.10	5.12	10.80	4.86	10.40	4.63	9.70	4.39
	-11.8	-13	12.50	5.21	11.80	5.10	11.10	4.91	10.80	4.67	10.40	4.45	9.70	4.21
	-9.8	-11	12.50	4.98	11.80	4.87	11.10	4.69	10.80	4.46	10.40	4.26	9.70	4.03
	-9.5	-10	12.50	4.95	11.80	4.83	11.10	4.66	10.80	4.43	10.40	4.23	9.70	4.00
	-8.5	-9.1	12.50	4.84	11.80	4.72	11.10	4.55	10.80	4.32	10.40	4.13	9.70	3.91
	-7	-7.6	12.50	4.67	11.80	4.55	11.10	4.39	10.80	4.17	10.40	3.99	9.70	3.77
	-5	-5.6	12.50	4.44	11.80	4.32	11.10	4.17	10.80	3.96	10.40	3.80	9.70	3.59
	-3	-3.7	12.50	4.21	11.80	4.09	11.10	3.95	10.80	3.76	10.40	3.60	9.70	3.40
	0	-0.7	12.50	3.87	11.80	3.75	11.10	3.62	10.80	3.45	10.40	3.31	9.70	3.13
	3	2.2	12.50	3.53	11.80	3.41	11.10	3.29	10.80	3.14	10.40	3.03	9.70	2.85
	5	4.1	12.50	3.30	11.80	3.18	11.10	3.07	10.80	2.93	10.40	2.83	9.70	2.67
	7	6	12.50	3.08	11.80	2.95	11.10	2.85	10.80	2.72	10.40	2.64	9.70	2.48
	9	7.9	12.50	2.78	11.80	2.67	11.10	2.58	10.80	2.46	10.40	2.39	9.70	2.24
	11	9.8	12.50	2.59	11.80	2.48	11.10	2.40	10.80	2.29	10.40	2.22	9.70	2.09
	13	11.8	12.50	2.42	11.80	2.32	11.10	2.25	10.80	2.14	10.40	2.08	9.70	1.95
	15	13.7	12.50	2.28	11.80	2.19	11.10	2.12	10.80	2.02	10.40	1.96	9.70	1.84
60	-19.8	-20	10.80	5.92	10.20	5.69	9.60	5.37	9.20	5.08	8.90	4.81	8.30	4.54
	-18.8	-19	10.80	5.80	10.20	5.57	9.60	5.26	9.20	4.98	8.90	4.71	8.30	4.45
	-16.7	-17	10.80	5.55	10.20	5.32	9.60	5.03	9.20	4.76	8.90	4.51	8.30	4.26
	-13.7	-15	10.80	5.19	10.20	4.97	9.60	4.70	9.20	4.46	8.90	4.22	8.30	3.98
	-11.8	-13	10.80	4.97	10.20	4.75	9.60	4.50	9.20	4.26	8.90	4.04	8.30	3.81
	-9.8	-11	10.80	4.73	10.20	4.52	9.60	4.28	9.20	4.06	8.90	3.85	8.30	3.63
	-9.5	-10	10.80	4.69	10.20	4.48	9.60	4.24	9.20	4.03	8.90	3.82	8.30	3.60

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-8.5	-9.1	10.80	4.57	10.20	4.37	9.60	4.13	9.20	3.93	8.90	3.73	8.30	3.51
	-7	-7.6	10.80	4.40	10.20	4.19	9.60	3.97	9.20	3.77	8.90	3.58	8.30	3.37
	-5	-5.6	10.80	4.16	10.20	3.96	9.60	3.75	9.20	3.57	8.90	3.39	8.30	3.19
	-3	-3.7	10.80	3.92	10.20	3.72	9.60	3.53	9.20	3.36	8.90	3.20	8.30	3.00
	0	-0.7	10.80	3.56	10.20	3.37	9.60	3.20	9.20	3.06	8.90	2.92	8.30	2.73
	3	2.2	10.80	3.21	10.20	3.02	9.60	2.87	9.20	2.75	8.90	2.63	8.30	2.46
	5	4.1	10.80	2.97	10.20	2.79	9.60	2.66	9.20	2.55	8.90	2.44	8.30	2.27
	7	6	10.80	2.73	10.20	2.56	9.60	2.44	9.20	2.34	8.90	2.25	8.30	2.09
	9	7.9	10.80	2.44	10.20	2.28	9.60	2.17	9.20	2.09	8.90	2.00	8.30	1.86
	11	9.8	10.80	2.27	10.20	2.13	9.60	2.03	9.20	1.95	8.90	1.87	8.30	1.74
	13	11.8	10.80	2.13	10.20	2.00	9.60	1.90	9.20	1.83	8.90	1.75	8.30	1.63
	15	13.7	10.80	2.01	10.20	1.89	9.60	1.80	9.20	1.73	8.90	1.66	8.30	1.54
50	-19.8	-20	9.00	4.90	8.50	4.63	8.00	4.37	7.70	4.13	7.50	3.91	6.90	3.70
	-18.8	-19	9.00	4.80	8.50	4.53	8.00	4.28	7.70	4.05	7.50	3.83	6.90	3.62
	-16.7	-17	9.00	4.59	8.50	4.33	8.00	4.10	7.70	3.87	7.50	3.67	6.90	3.47
	-13.7	-15	9.00	4.29	8.50	4.04	8.00	3.83	7.70	3.62	7.50	3.44	6.90	3.24
	-11.8	-13	9.00	4.10	8.50	3.86	8.00	3.66	7.70	3.46	7.50	3.29	6.90	3.10
	-9.8	-11	9.00	3.90	8.50	3.67	8.00	3.48	7.70	3.29	7.50	3.13	6.90	2.95
	-9.5	-10	9.00	3.87	8.50	3.64	8.00	3.46	7.70	3.27	7.50	3.11	6.90	2.93
	-8.5	-9.1	9.00	3.76	8.50	3.55	8.00	3.37	7.70	3.19	7.50	3.03	6.90	2.86
	-7	-7.6	9.00	3.61	8.50	3.40	8.00	3.23	7.70	3.06	7.50	2.92	6.90	2.74
	-5	-5.6	9.00	3.41	8.50	3.21	8.00	3.05	7.70	2.89	7.50	2.76	6.90	2.60
	-3	-3.7	9.00	3.21	8.50	3.02	8.00	2.88	7.70	2.72	7.50	2.61	6.90	2.45
	0	-0.7	9.00	2.91	8.50	2.73	8.00	2.61	7.70	2.47	7.50	2.37	6.90	2.22
	3	2.2	9.00	2.60	8.50	2.44	8.00	2.34	7.70	2.22	7.50	2.14	6.90	2.00
	5	4.1	9.00	2.40	8.50	2.25	8.00	2.16	7.70	2.05	7.50	1.98	6.90	1.85
	7	6	9.00	2.20	8.50	2.06	8.00	1.99	7.70	1.89	7.50	1.83	6.90	1.71
	9	7.9	9.00	1.99	8.50	1.86	8.00	1.79	7.70	1.70	7.50	1.65	6.90	1.54
	11	9.8	9.00	1.86	8.50	1.74	8.00	1.68	7.70	1.59	7.50	1.54	6.90	1.44
	13	11.8	9.00	1.75	8.50	1.64	8.00	1.58	7.70	1.50	7.50	1.45	6.90	1.35
	15	13.7	9.00	1.65	8.50	1.55	8.00	1.49	7.70	1.42	7.50	1.37	6.90	1.28

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN060GSS0, ZRUN060LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	14.30	8.30	14.30	8.36	14.20	8.41	14.20	8.48	14.20	8.55	14.00	8.65
	-18.8	-19	14.70	8.34	14.70	8.40	14.60	8.44	14.60	8.51	14.60	8.58	14.30	8.69
	-16.7	-17	15.40	8.42	15.40	8.47	15.30	8.52	15.30	8.59	15.30	8.66	15.00	8.77
	-13.7	-15	16.40	8.52	16.40	8.58	16.30	8.63	16.30	8.70	16.30	8.77	16.00	8.37
	-11.8	-13	16.90	8.59	16.90	8.65	16.80	8.69	16.80	8.77	16.80	8.50	16.60	8.12
	-9.8	-11	17.50	8.67	17.50	8.72	17.40	8.77	17.40	8.47	17.40	8.21	17.20	7.86
	-9.5	-10	17.60	8.68	17.60	8.73	17.50	8.72	17.50	8.43	17.50	8.17	17.30	7.82
	-8.5	-9.1	17.90	8.71	17.90	8.77	17.80	8.57	17.80	8.28	17.70	8.03	17.70	7.69
	-7	-7.6	18.40	8.77	18.40	8.54	18.30	8.34	18.30	8.06	18.30	7.82	18.20	7.49
	-5	-5.6	19.10	8.46	19.10	8.23	19.00	8.03	19.00	7.77	19.00	7.53	18.80	7.23
	-3	-3.7	19.70	8.14	19.70	7.92	19.60	7.72	19.60	7.48	19.60	7.25	19.50	6.97
	0	-0.7	20.70	7.68	20.70	7.45	20.60	7.26	20.60	7.04	20.60	6.82	20.30	6.57
	3	2.2	21.70	7.21	21.70	6.99	21.60	6.80	21.60	6.60	21.60	6.40	20.30	6.18
	5	4.1	22.40	6.90	22.40	6.68	22.30	6.50	22.30	6.30	21.80	6.11	20.30	5.92
	7	6	23.10	6.59	23.10	6.37	22.90	6.19	22.60	6.01	21.80	5.83	20.30	5.66
	9	7.9	23.30	6.32	23.30	6.12	23.20	5.94	22.60	5.77	21.80	5.60	20.30	5.43
	11	9.8	23.30	6.11	23.30	5.91	23.20	5.74	22.60	5.58	21.80	5.41	20.30	5.25
	13	11.8	23.30	5.89	23.30	5.70	23.20	5.53	22.60	5.37	21.80	5.21	20.30	5.06
	15	13.7	23.30	5.65	23.30	5.47	23.20	5.31	22.60	5.15	21.80	5.00	20.30	4.85
120	-19.8	-20	14.20	8.36	14.20	8.41	14.10	8.48	14.10	8.55	14.10	8.65	13.90	8.73
	-18.8	-19	14.60	8.40	14.60	8.44	14.50	8.51	14.50	8.58	14.50	8.69	14.20	8.77
	-16.7	-17	15.30	8.47	15.30	8.52	15.20	8.59	15.20	8.66	15.20	8.77	14.90	8.51
	-13.7	-15	16.30	8.58	16.30	8.63	16.20	8.70	16.20	8.77	16.20	8.39	15.80	8.15
	-11.8	-13	16.80	8.65	16.80	8.69	16.70	8.77	16.70	8.50	16.70	8.14	16.50	7.92
	-9.8	-11	17.40	8.72	17.40	8.77	17.30	8.46	17.30	8.21	17.30	7.89	17.10	7.68
	-9.5	-10	17.50	8.73	17.50	8.72	17.40	8.42	17.40	8.17	17.40	7.85	17.20	7.64
	-8.5	-9.1	17.80	8.77	17.80	8.56	17.70	8.27	17.70	8.02	17.70	7.73	17.50	7.52
	-7	-7.6	18.30	8.52	18.30	8.31	18.20	8.04	18.20	7.81	18.20	7.53	18.00	7.34
	-5	-5.6	18.90	8.19	18.90	7.99	18.80	7.74	18.80	7.52	18.80	7.28	18.70	7.10
	-3	-3.7	19.60	7.86	19.60	7.66	19.50	7.44	19.50	7.24	19.50	7.03	19.10	6.86
	0	-0.7	20.60	7.37	20.60	7.18	20.50	6.98	20.50	6.81	20.50	6.65	19.10	6.50
	3	2.2	21.60	6.87	21.60	6.69	21.50	6.53	21.20	6.38	20.50	6.26	19.10	6.14
	5	4.1	22.20	6.54	22.20	6.37	21.90	6.23	21.20	6.10	20.50	6.01	19.10	5.90
	7	6	22.90	6.21	22.80	6.04	21.90	5.92	21.20	5.81	20.50	5.76	19.10	5.65
	9	7.9	23.10	5.95	22.80	5.79	21.90	5.68	21.20	5.57	20.50	5.52	19.10	5.42
	11	9.8	23.10	5.75	22.80	5.59	21.90	5.48	21.20	5.37	20.50	5.32	19.10	5.23
	13	11.8	23.10	5.52	22.80	5.37	21.90	5.27	21.20	5.17	20.50	5.12	19.10	5.03
	15	13.7	23.10	5.29	22.80	5.15	21.90	5.05	21.20	4.95	20.50	4.90	19.10	4.81
110	-19.8	-20	14.20	8.41	14.20	8.48	14.10	8.55	14.10	8.65	14.10	8.73	13.80	8.77
	-18.8	-19	14.50	8.44	14.50	8.51	14.40	8.58	14.40	8.69	14.40	8.77	14.10	8.64
	-16.7	-17	15.20	8.52	15.20	8.59	15.10	8.66	15.10	8.77	15.10	8.50	14.80	8.36
	-13.7	-15	16.20	8.63	16.20	8.70	16.10	8.77	16.10	8.36	16.10	8.11	16.10	7.97
	-11.8	-13	16.70	8.69	16.70	8.77	16.60	8.48	16.60	8.10	16.60	7.87	16.60	7.73
	-9.8	-11	17.30	8.77	17.30	8.44	17.20	8.17	17.20	7.82	17.20	7.61	17.10	7.47
	-9.5	-10	17.40	8.71	17.40	8.39	17.30	8.12	17.30	7.78	17.30	7.57	17.20	7.43
	-8.5	-9.1	17.70	8.53	17.70	8.22	17.60	7.97	17.60	7.64	17.60	7.44	17.20	7.30

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-7	-7.6	18.20	8.26	18.20	7.97	18.10	7.74	18.10	7.44	18.10	7.25	17.20	7.10
	-5	-5.6	18.80	7.90	18.80	7.64	18.70	7.43	18.70	7.17	18.40	6.99	17.20	6.84
	-3	-3.7	19.50	7.54	19.50	7.31	19.40	7.13	19.00	6.89	18.40	6.74	17.20	6.58
	0	-0.7	20.50	7.00	20.50	6.81	19.70	6.67	19.00	6.48	18.40	6.35	17.20	6.19
	3	2.2	21.50	6.46	21.00	6.32	19.70	6.21	19.00	6.07	18.40	5.97	17.20	5.80
	5	4.1	22.10	6.10	21.00	5.99	19.70	5.90	19.00	5.80	18.40	5.71	17.20	5.54
	7	6	22.20	5.74	21.00	5.66	19.70	5.59	19.00	5.52	18.40	5.45	17.20	5.28
	9	7.9	22.20	5.48	21.00	5.40	19.70	5.34	19.00	5.27	18.40	5.21	17.20	5.04
	11	9.8	22.20	5.26	21.00	5.19	19.70	5.13	19.00	5.06	18.40	5.00	17.20	4.85
	13	11.8	22.20	5.04	21.00	4.96	19.70	4.90	19.00	4.85	18.40	4.78	17.20	4.64
	15	13.7	22.20	4.80	21.00	4.72	19.70	4.67	19.00	4.61	18.40	4.55	17.20	4.41
100	-19.8	-20	14.10	9.00	14.10	8.95	14.00	8.85	14.00	8.84	14.00	8.83	13.70	8.77
	-18.8	-19	14.40	8.97	14.30	8.93	14.30	8.88	14.30	8.81	14.30	8.77	14.00	8.61
	-16.7	-17	15.00	8.92	15.00	8.88	15.00	8.96	14.90	8.77	14.90	8.45	14.60	8.29
	-13.7	-15	16.10	8.86	16.10	8.81	16.00	8.77	16.00	8.30	16.00	7.99	15.70	7.83
	-11.8	-13	16.60	8.81	16.50	8.77	16.50	8.45	16.50	8.00	16.50	7.70	15.70	7.54
	-9.8	-11	17.20	8.77	17.20	8.41	17.10	8.11	17.10	7.69	16.80	7.40	15.70	7.23
	-9.5	-10	17.30	8.71	17.30	8.35	17.20	8.06	17.20	7.64	16.80	7.35	15.70	7.19
	-8.5	-9.1	17.60	8.52	17.60	8.17	17.50	7.89	17.40	7.48	16.80	7.20	15.70	7.03
	-7	-7.6	18.40	8.23	18.30	7.90	18.00	7.64	17.40	7.25	16.80	6.97	15.70	6.80
	-5	-5.6	19.20	7.85	19.00	7.54	18.00	7.31	17.40	6.94	16.80	6.67	15.70	6.50
	-3	-3.7	19.80	7.47	19.20	7.18	18.00	6.97	17.40	6.62	16.80	6.36	15.70	6.19
	0	-0.7	20.30	6.90	19.20	6.64	18.00	6.47	17.40	6.16	16.80	5.91	15.70	5.73
	3	2.2	20.30	6.32	19.20	6.10	18.00	5.96	17.40	5.69	16.80	5.45	15.70	5.27
	5	4.1	20.30	5.94	19.20	5.74	18.00	5.63	17.40	5.37	16.80	5.15	15.70	4.96
	7	6	20.30	5.56	19.20	5.38	18.00	5.29	17.40	5.06	16.80	4.84	15.70	4.66
	9	7.9	20.30	5.27	19.20	5.10	18.00	5.02	17.40	4.80	16.80	4.59	15.70	4.42
	11	9.8	20.30	5.02	19.20	4.87	18.00	4.78	17.40	4.57	16.80	4.38	15.70	4.21
	13	11.8	20.30	4.76	19.20	4.61	18.00	4.53	17.40	4.34	16.80	4.15	15.70	3.99
	15	13.7	20.30	4.49	19.20	4.35	18.00	4.27	17.40	4.09	16.80	3.91	15.70	3.76
90	-19.8	-20	14.00	8.27	14.00	8.38	13.90	8.46	13.90	8.49	13.90	8.22	13.70	7.82
	-18.8	-19	14.40	8.31	14.30	8.42	14.30	8.49	14.30	8.35	14.30	8.08	14.00	7.69
	-16.7	-17	15.00	8.39	15.00	8.49	15.00	8.19	15.00	8.05	15.00	7.79	14.30	7.41
	-13.7	-15	16.10	8.49	16.10	8.04	16.00	7.76	16.00	7.61	15.40	7.37	14.30	7.01
	-11.8	-13	16.60	8.18	16.50	7.76	16.50	7.49	16.00	7.34	15.40	7.10	14.30	6.75
	-9.8	-11	17.20	7.85	17.20	7.45	16.50	7.20	16.00	7.05	15.40	6.83	14.30	6.48
	-9.5	-10	17.30	7.80	17.30	7.41	16.50	7.16	16.00	7.01	15.40	6.78	14.30	6.44
	-8.5	-9.1	17.60	7.64	17.50	7.26	16.50	7.02	16.00	6.86	15.40	6.64	14.30	6.31
	-7	-7.6	18.40	7.39	17.50	7.03	16.50	6.80	16.00	6.65	15.40	6.44	14.30	6.11
	-5	-5.6	18.60	7.06	17.50	6.73	16.50	6.51	16.00	6.36	15.40	6.16	14.30	5.84
	-3	-3.7	18.60	6.73	17.50	6.43	16.50	6.23	16.00	6.07	15.40	5.88	14.30	5.57
	0	-0.7	18.60	6.23	17.50	5.98	16.50	5.80	16.00	5.64	15.40	5.46	14.30	5.17
	3	2.2	18.60	5.74	17.50	5.53	16.50	5.36	16.00	5.20	15.40	5.05	14.30	4.77
	5	4.1	18.60	5.41	17.50	5.22	16.50	5.08	16.00	4.92	15.40	4.77	14.30	4.50
	7	6	18.60	5.08	17.50	4.92	16.50	4.79	16.00	4.63	15.40	4.49	14.30	4.23
	9	7.9	18.60	4.78	17.50	4.63	16.50	4.50	16.00	4.35	15.40	4.22	14.30	3.98
	11	9.8	18.60	4.47	17.50	4.33	16.50	4.22	16.00	4.07	15.40	3.95	14.30	3.73

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	13	11.8	18.60	4.17	17.50	4.04	16.50	3.93	16.00	3.80	15.40	3.68	14.30	3.47
	15	13.7	18.60	3.86	17.50	3.74	16.50	3.64	16.00	3.52	15.40	3.41	14.30	3.22
80	-19.8	-20	13.90	7.31	13.90	7.42	13.90	7.53	13.90	7.28	13.80	6.94	12.80	6.62
	-18.8	-19	14.20	7.35	14.20	7.53	14.20	7.40	14.20	7.15	13.80	6.82	12.80	6.50
	-16.7	-17	14.70	7.53	14.70	7.26	14.70	7.13	14.30	6.89	13.80	6.58	12.80	6.27
	-13.7	-15	14.70	7.13	14.70	6.87	14.70	6.75	14.30	6.51	13.80	6.22	12.80	5.93
	-11.8	-13	14.70	6.87	14.70	6.63	14.70	6.50	14.30	6.27	13.80	6.00	12.80	5.72
	-9.8	-11	14.70	6.60	14.70	6.37	14.70	6.24	14.30	6.02	13.80	5.76	12.80	5.49
	-9.5	-10	14.80	6.56	14.80	6.33	14.70	6.20	14.30	5.98	13.80	5.73	12.80	5.46
	-8.5	-9.1	15.70	6.42	15.70	6.20	14.70	6.08	14.30	5.86	13.80	5.61	12.80	5.35
	-7	-7.6	16.60	6.22	15.70	6.01	14.70	5.88	14.30	5.67	13.80	5.43	12.80	5.18
	-5	-5.6	16.60	5.95	15.70	5.75	14.70	5.62	14.30	5.42	13.80	5.19	12.80	4.96
	-3	-3.7	16.60	5.68	15.70	5.49	14.70	5.37	14.30	5.17	13.80	4.96	12.80	4.73
	0	-0.7	16.60	5.27	15.70	5.10	14.70	4.98	14.30	4.79	13.80	4.60	12.80	4.39
	3	2.2	16.60	4.87	15.70	4.72	14.70	4.59	14.30	4.41	13.80	4.25	12.80	4.06
	5	4.1	16.60	4.60	15.70	4.46	14.70	4.33	14.30	4.16	13.80	4.01	12.80	3.83
	7	6	16.60	4.33	15.70	4.20	14.70	4.08	14.30	3.91	13.80	3.78	12.80	3.61
	9	7.9	16.60	4.06	15.70	3.94	14.70	3.83	14.30	3.67	13.80	3.55	12.80	3.39
	11	9.8	16.60	3.77	15.70	3.66	14.70	3.55	14.30	3.40	13.80	3.29	12.80	3.14
	13	11.8	16.60	3.52	15.70	3.42	14.70	3.32	14.30	3.18	13.80	3.07	12.80	2.94
	15	13.7	16.60	3.31	15.70	3.22	14.70	3.12	14.30	2.99	13.80	2.89	12.80	2.76
70	-19.8	-20	13.90	7.32	13.30	7.36	12.50	7.09	12.10	6.72	11.80	6.39	11.00	6.06
	-18.8	-19	14.10	7.36	13.30	7.22	12.50	6.95	12.10	6.60	11.80	6.27	11.00	5.95
	-16.7	-17	14.10	7.06	13.30	6.92	12.50	6.67	12.10	6.33	11.80	6.02	11.00	5.71
	-13.7	-15	14.10	6.65	13.30	6.50	12.50	6.27	12.10	5.95	11.80	5.67	11.00	5.37
	-11.8	-13	14.10	6.38	13.30	6.24	12.50	6.02	12.10	5.71	11.80	5.45	11.00	5.16
	-9.8	-11	14.10	6.10	13.30	5.96	12.50	5.75	12.10	5.46	11.80	5.21	11.00	4.93
	-9.5	-10	14.10	6.06	13.30	5.92	12.50	5.71	12.10	5.42	11.80	5.18	11.00	4.90
	-8.5	-9.1	14.10	5.92	13.30	5.78	12.50	5.57	12.10	5.30	11.80	5.06	11.00	4.79
	-7	-7.6	14.10	5.71	13.30	5.57	12.50	5.37	12.10	5.11	11.80	4.88	11.00	4.62
	-5	-5.6	14.10	5.44	13.30	5.29	12.50	5.10	12.10	4.85	11.80	4.65	11.00	4.39
	-3	-3.7	14.10	5.16	13.30	5.01	12.50	4.84	12.10	4.60	11.80	4.41	11.00	4.17
	0	-0.7	14.10	4.74	13.30	4.59	12.50	4.43	12.10	4.22	11.80	4.06	11.00	3.83
	3	2.2	14.10	4.32	13.30	4.17	12.50	4.03	12.10	3.84	11.80	3.71	11.00	3.49
	5	4.1	14.10	4.05	13.30	3.89	12.50	3.76	12.10	3.59	11.80	3.47	11.00	3.27
	7	6	14.10	3.77	13.30	3.62	12.50	3.49	12.10	3.34	11.80	3.24	11.00	3.04
	9	7.9	14.10	3.40	13.30	3.27	12.50	3.16	12.10	3.01	11.80	2.92	11.00	2.75
	11	9.8	14.10	3.17	13.30	3.04	12.50	2.94	12.10	2.81	11.80	2.72	11.00	2.56
	13	11.8	14.10	2.96	13.30	2.84	12.50	2.75	12.10	2.62	11.80	2.55	11.00	2.39
	15	13.7	14.10	2.79	13.30	2.68	12.50	2.59	12.10	2.47	11.80	2.40	11.00	2.26
60	-19.8	-20	12.10	7.25	11.50	6.96	10.80	6.58	10.40	6.22	10.00	5.89	9.40	5.56
	-18.8	-19	12.10	7.10	11.50	6.82	10.80	6.44	10.40	6.09	10.00	5.77	9.40	5.45
	-16.7	-17	12.10	6.80	11.50	6.52	10.80	6.16	10.40	5.83	10.00	5.52	9.40	5.21
	-13.7	-15	12.10	6.36	11.50	6.09	10.80	5.76	10.40	5.46	10.00	5.17	9.40	4.88
	-11.8	-13	12.10	6.08	11.50	5.82	10.80	5.50	10.40	5.22	10.00	4.95	9.40	4.66
	-9.8	-11	12.10	5.79	11.50	5.53	10.80	5.24	10.40	4.97	10.00	4.72	9.40	4.44
	-9.5	-10	12.10	5.75	11.50	5.49	10.80	5.20	10.40	4.93	10.00	4.68	9.40	4.41

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-8.5	-9.1	12.10	5.60	11.50	5.35	10.80	5.06	10.40	4.81	10.00	4.56	9.40	4.29
	-7	-7.6	12.10	5.38	11.50	5.13	10.80	4.86	10.40	4.62	10.00	4.39	9.40	4.13
	-5	-5.6	12.10	5.09	11.50	4.85	10.80	4.59	10.40	4.37	10.00	4.15	9.40	3.90
	-3	-3.7	12.10	4.80	11.50	4.56	10.80	4.32	10.40	4.12	10.00	3.92	9.40	3.68
	0	-0.7	12.10	4.36	11.50	4.13	10.80	3.92	10.40	3.74	10.00	3.57	9.40	3.34
	3	2.2	12.10	3.92	11.50	3.70	10.80	3.52	10.40	3.37	10.00	3.22	9.40	3.01
	5	4.1	12.10	3.63	11.50	3.42	10.80	3.25	10.40	3.12	10.00	2.99	9.40	2.78
	7	6	12.10	3.34	11.50	3.13	10.80	2.98	10.40	2.87	10.00	2.75	9.40	2.56
	9	7.9	12.10	2.98	11.50	2.79	10.80	2.66	10.40	2.56	10.00	2.45	9.40	2.28
	11	9.8	12.10	2.78	11.50	2.61	10.80	2.49	10.40	2.39	10.00	2.29	9.40	2.13
	13	11.8	12.10	2.61	11.50	2.44	10.80	2.33	10.40	2.24	10.00	2.15	9.40	2.00
	15	13.7	12.10	2.46	11.50	2.31	10.80	2.20	10.40	2.12	10.00	2.03	9.40	1.89
50	-19.8	-20	10.10	6.01	9.50	5.67	9.00	5.36	8.70	5.06	8.40	4.79	7.80	4.53
	-18.8	-19	10.10	5.88	9.50	5.55	9.00	5.25	8.70	4.96	8.40	4.69	7.80	4.43
	-16.7	-17	10.10	5.62	9.50	5.30	9.00	5.02	8.70	4.74	8.40	4.49	7.80	4.24
	-13.7	-15	10.10	5.25	9.50	4.95	9.00	4.69	8.70	4.43	8.40	4.21	7.80	3.97
	-11.8	-13	10.10	5.02	9.50	4.73	9.00	4.48	8.70	4.24	8.40	4.03	7.80	3.80
	-9.8	-11	10.10	4.77	9.50	4.49	9.00	4.26	8.70	4.03	8.40	3.84	7.80	3.62
	-9.5	-10	10.10	4.73	9.50	4.46	9.00	4.23	8.70	4.00	8.40	3.81	7.80	3.59
	-8.5	-9.1	10.10	4.61	9.50	4.34	9.00	4.12	8.70	3.90	8.40	3.71	7.80	3.50
	-7	-7.6	10.10	4.42	9.50	4.17	9.00	3.96	8.70	3.75	8.40	3.57	7.80	3.36
	-5	-5.6	10.10	4.18	9.50	3.93	9.00	3.74	8.70	3.54	8.40	3.38	7.80	3.18
	-3	-3.7	10.10	3.93	9.50	3.70	9.00	3.52	8.70	3.34	8.40	3.19	7.80	3.00
	0	-0.7	10.10	3.56	9.50	3.34	9.00	3.19	8.70	3.03	8.40	2.90	7.80	2.72
	3	2.2	10.10	3.19	9.50	2.99	9.00	2.87	8.70	2.72	8.40	2.62	7.80	2.45
	5	4.1	10.10	2.94	9.50	2.76	9.00	2.65	8.70	2.51	8.40	2.43	7.80	2.27
	7	6	10.10	2.70	9.50	2.52	9.00	2.43	8.70	2.31	8.40	2.24	7.80	2.09
	9	7.9	10.10	2.43	9.50	2.28	9.00	2.20	8.70	2.09	8.40	2.02	7.80	1.89
	11	9.8	10.10	2.28	9.50	2.13	9.00	2.05	8.70	1.95	8.40	1.89	7.80	1.76
	13	11.8	10.10	2.14	9.50	2.00	9.00	1.93	8.70	1.83	8.40	1.78	7.80	1.66
	15	13.7	10.10	2.02	9.50	1.89	9.00	1.82	8.70	1.73	8.40	1.68	7.80	1.57

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN080LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	19.54	10.91	19.40	11.02	19.26	11.13	19.19	11.18	19.12	11.23	18.98	11.33
	-18.8	-19	20.09	11.01	19.94	11.12	19.79	11.23	19.72	11.29	19.65	11.34	19.51	11.44
	-16.7	-17	21.22	11.22	21.06	11.34	20.91	11.45	20.84	11.50	20.76	11.56	20.61	11.67
	-15	-15.9	21.90	11.34	21.74	11.46	21.58	11.58	21.50	11.63	21.42	11.69	21.27	11.80
	-13.7	-15	22.56	11.46	22.40	11.58	22.25	11.70	22.17	11.76	22.10	11.81	21.94	11.93
	-11.8	-13	23.67	11.65	23.50	11.77	23.33	11.89	23.24	11.95	23.16	12.01	23.00	12.13
	-9.8	-11	24.95	11.87	24.76	11.99	24.58	12.12	24.50	12.18	24.41	12.24	24.23	12.35
	-9.5	-10	25.56	11.97	25.37	12.10	25.19	12.22	25.10	12.28	25.01	12.34	24.83	12.46
	-8.5	-9.1	26.17	12.07	25.98	12.20	25.79	12.32	25.70	12.38	25.61	12.45	25.42	12.57
	-7	-7.6	27.20	12.23	27.01	12.36	26.81	12.49	26.71	12.56	26.62	12.62	26.43	12.74
	-5	-5.6	28.64	12.46	28.43	12.59	28.22	12.72	28.12	12.79	28.02	12.85	27.81	12.98
	-3	-3.7	30.06	12.67	29.84	12.81	29.62	12.95	29.51	13.01	29.41	13.08	27.86	12.11
	0	-0.7	32.39	13.02	32.14	13.16	31.85	13.26	30.85	12.62	29.86	12.00	27.86	10.81
	3	2.2	34.71	13.36	33.84	13.03	31.85	11.87	30.85	11.31	29.86	10.76	27.86	9.70
	5	4.1	35.83	13.25	33.84	12.13	31.85	11.06	30.85	10.54	29.86	10.03	27.86	9.05
	7	6	35.83	12.32	33.84	11.28	31.85	10.28	30.85	9.80	29.86	9.33	27.86	8.41
	9	7.9	35.83	11.41	33.84	10.46	31.85	9.54	30.85	9.09	29.86	8.66	27.86	7.81
	11	9.8	35.83	10.57	33.84	9.69	31.85	8.84	30.85	8.43	29.86	8.03	27.86	7.26
	13	11.8	35.83	9.74	33.84	8.93	31.85	8.16	30.85	7.79	29.86	7.42	27.86	6.71
	15	13.7	35.83	9.01	33.84	8.27	31.85	7.56	30.85	7.21	29.86	6.87	27.86	6.22
120	-19.8	-20	19.43	10.99	19.29	11.10	19.15	11.21	19.08	11.26	19.01	11.31	18.88	11.41
	-18.8	-19	19.97	11.10	19.83	11.21	19.68	11.32	19.61	11.37	19.54	11.42	19.40	11.52
	-16.7	-17	21.09	11.32	20.94	11.43	20.79	11.54	20.71	11.59	20.64	11.65	20.49	11.75
	-15	-15.9	21.76	11.44	21.60	11.56	21.45	11.67	21.37	11.73	21.29	11.78	21.14	11.89
	-13.7	-15	22.42	11.57	22.26	11.69	22.11	11.80	22.04	11.86	21.96	11.91	21.81	12.02
	-11.8	-13	23.51	11.77	23.34	11.89	23.17	12.00	23.09	12.06	23.01	12.12	22.84	12.23
	-9.8	-11	24.76	11.99	24.59	12.11	24.41	12.23	24.32	12.29	24.23	12.35	24.06	12.47
	-9.5	-10	25.37	12.10	25.19	12.22	25.01	12.34	24.92	12.40	24.83	12.46	24.65	12.58
	-8.5	-9.1	25.97	12.20	25.78	12.33	25.60	12.45	25.51	12.51	25.41	12.57	25.24	12.69
	-7	-7.6	26.99	12.38	26.79	12.50	26.60	12.63	26.50	12.69	26.41	12.75	25.72	12.42
	-5	-5.6	28.39	12.61	28.19	12.74	27.98	12.87	27.88	12.94	27.56	12.80	25.72	11.52
	-3	-3.7	29.79	12.84	29.57	12.98	29.36	13.11	28.48	12.52	27.56	11.91	25.72	10.72
	0	-0.7	32.06	13.21	31.23	12.86	29.40	11.72	28.48	11.17	27.56	10.63	25.72	9.58
	3	2.2	33.07	12.58	31.23	11.53	29.40	10.51	28.48	10.02	27.56	9.54	25.72	8.61
	5	4.1	33.07	11.71	31.23	10.74	29.40	9.80	28.48	9.34	27.56	8.90	25.72	8.04
	7	6	33.07	10.89	31.23	9.98	29.40	9.11	28.48	8.69	27.56	8.28	25.72	7.47
	9	7.9	33.07	10.10	31.23	9.26	29.40	8.46	28.48	8.07	27.56	7.69	25.72	6.95
	11	9.8	33.07	9.36	31.23	8.59	29.40	7.85	28.48	7.49	27.56	7.14	25.72	6.46
	13	11.8	33.07	8.63	31.23	7.93	29.40	7.25	28.48	6.92	27.56	6.60	25.72	5.97
	15	13.7	33.07	7.99	31.23	7.34	29.40	6.72	28.48	6.42	27.56	6.12	25.72	5.54
110	-19.8	-20	19.31	11.09	19.17	11.19	19.03	11.30	18.96	11.35	18.89	11.40	18.76	11.50
	-18.8	-19	19.84	11.20	19.69	11.31	19.55	11.41	19.48	11.46	19.42	11.51	19.28	11.61
	-16.7	-17	20.94	11.43	20.79	11.54	20.64	11.65	20.57	11.70	20.50	11.75	20.35	11.85
	-15	-15.9	21.60	11.56	21.44	11.67	21.29	11.78	21.22	11.84	21.14	11.89	20.99	11.99
	-13.7	-15	22.26	11.69	22.11	11.81	21.95	11.92	21.88	11.98	21.81	12.03	21.66	12.14
	-11.8	-13	23.32	11.90	23.15	12.02	22.99	12.13	22.91	12.19	22.83	12.24	22.67	12.35

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-9.8	-11	24.56	12.14	24.38	12.26	24.21	12.37	24.12	12.43	24.03	12.49	23.58	12.32
	-9.5	-10	25.15	12.25	24.97	12.37	24.79	12.49	24.70	12.55	24.62	12.60	23.58	11.91
	-8.5	-9.1	25.74	12.36	25.55	12.48	25.37	12.60	25.28	12.66	25.19	12.72	23.58	11.51
	-7	-7.6	26.73	12.54	26.54	12.67	26.35	12.79	26.10	12.71	25.26	12.09	23.58	10.89
	-5	-5.6	28.11	12.79	27.91	12.92	26.95	12.37	26.10	11.79	25.26	11.22	23.58	10.11
	-3	-3.7	29.47	13.04	28.63	12.62	26.95	11.51	26.10	10.96	25.26	10.44	23.58	9.41
	0	-0.7	30.32	12.29	28.63	11.26	26.95	10.27	26.10	9.80	25.26	9.33	23.58	8.42
	3	2.2	30.32	11.01	28.63	10.10	26.95	9.22	26.10	8.80	25.26	8.38	23.58	7.58
	5	4.1	30.32	10.26	28.63	9.42	26.95	8.61	26.10	8.21	25.26	7.83	23.58	7.07
	7	6	30.32	9.54	28.63	8.76	26.95	8.00	26.10	7.64	25.26	7.28	23.58	6.58
	9	7.9	30.32	8.86	28.63	8.13	26.95	7.44	26.10	7.10	25.26	6.77	23.58	6.13
	11	9.8	30.32	8.22	28.63	7.55	26.95	6.91	26.10	6.60	25.26	6.29	23.58	5.70
	13	11.8	30.32	7.59	28.63	6.98	26.95	6.39	26.10	6.10	25.26	5.82	23.58	5.28
	15	13.7	30.32	7.03	28.63	6.47	26.95	5.93	26.10	5.66	25.26	5.40	23.58	4.90
100	-19.8	-20	19.15	11.20	19.02	11.30	18.88	11.40	18.82	11.45	18.75	11.50	18.62	11.60
	-18.8	-19	19.68	11.32	19.54	11.42	19.40	11.52	19.33	11.58	19.26	11.62	19.13	11.72
	-16.7	-17	20.76	11.56	20.62	11.66	20.47	11.77	20.40	11.82	20.33	11.87	20.19	11.97
	-15	-15.9	21.41	11.70	21.26	11.81	21.11	11.91	21.03	11.96	20.96	12.02	20.82	12.12
	-13.7	-15	22.06	11.84	21.92	11.95	21.77	12.06	21.70	12.11	21.62	12.17	21.43	12.22
	-11.8	-13	23.10	12.05	22.93	12.17	22.77	12.28	22.69	12.33	22.61	12.39	21.43	11.46
	-9.8	-11	24.31	12.30	24.13	12.42	23.96	12.53	23.73	12.44	22.97	11.84	21.43	10.68
	-9.5	-10	24.89	12.42	24.71	12.54	24.50	12.62	23.73	12.02	22.97	11.44	21.43	10.32
	-8.5	-9.1	25.46	12.54	25.28	12.66	24.50	12.20	23.73	11.63	22.97	11.07	21.43	9.98
	-7	-7.6	26.44	12.74	26.03	12.65	24.50	11.54	23.73	11.00	22.97	10.47	21.43	9.45
	-5	-5.6	27.56	12.80	26.03	11.73	24.50	10.71	23.73	10.21	22.97	9.72	21.43	8.78
	-3	-3.7	27.56	11.91	26.03	10.92	24.50	9.97	23.73	9.50	22.97	9.05	21.43	8.18
	0	-0.7	27.56	10.63	26.03	9.75	24.50	8.91	23.73	8.50	22.97	8.10	21.43	7.32
	3	2.2	27.56	9.54	26.03	8.76	24.50	8.01	23.73	7.65	22.97	7.29	21.43	6.60
	5	4.1	27.56	8.90	26.03	8.18	24.50	7.48	23.73	7.14	22.97	6.81	21.43	6.16
	7	6	27.56	8.28	26.03	7.61	24.50	6.96	23.73	6.65	22.97	6.34	21.43	5.74
	9	7.9	27.56	7.69	26.03	7.07	24.50	6.47	23.73	6.18	22.97	5.90	21.43	5.35
	11	9.8	27.56	7.14	26.03	6.57	24.50	6.02	23.73	5.75	22.97	5.49	21.43	4.98
	13	11.8	27.56	6.60	26.03	6.08	24.50	5.57	23.73	5.33	22.97	5.08	21.43	4.61
	15	13.7	27.56	6.12	26.03	5.64	24.50	5.17	23.73	4.95	22.97	4.72	21.43	4.29
90	-19.8	-20	18.97	11.34	18.84	11.44	18.71	11.53	18.64	11.58	18.58	11.63	18.45	11.72
	-18.8	-19	19.49	11.46	19.35	11.56	19.22	11.66	19.15	11.71	19.08	11.76	18.95	11.85
	-16.7	-17	20.55	11.71	20.41	11.82	20.26	11.92	20.19	11.97	20.12	12.02	19.29	11.37
	-15	-15.9	21.18	11.86	21.03	11.96	20.89	12.07	20.82	12.12	20.67	12.08	19.29	10.89
	-13.7	-15	21.83	12.01	21.69	12.12	21.54	12.22	21.36	12.16	20.67	11.56	19.29	10.42
	-11.8	-13	22.83	12.24	22.67	12.35	22.05	11.97	21.36	11.40	20.67	10.85	19.29	9.77
	-9.8	-11	24.01	12.50	23.43	12.20	22.05	11.14	21.36	10.62	20.67	10.11	19.29	9.13
	-9.5	-10	24.57	12.63	23.43	11.79	22.05	10.76	21.36	10.26	20.67	9.78	19.29	8.83
	-8.5	-9.1	24.80	12.43	23.43	11.40	22.05	10.41	21.36	9.93	20.67	9.46	19.29	8.54
	-7	-7.6	24.80	11.76	23.43	10.79	22.05	9.85	21.36	9.40	20.67	8.95	19.29	8.09
	-5	-5.6	24.80	10.91	23.43	10.01	22.05	9.15	21.36	8.73	20.67	8.32	19.29	7.52
	-3	-3.7	24.80	10.15	23.43	9.32	22.05	8.52	21.36	8.13	20.67	7.75	19.29	7.01
	0	-0.7	24.80	9.08	23.43	8.34	22.05	7.63	21.36	7.29	20.67	6.95	19.29	6.29

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	3	2.2	24.80	8.16	23.43	7.50	22.05	6.87	21.36	6.56	20.67	6.26	19.29	5.68
	5	4.1	24.80	7.62	23.43	7.01	22.05	6.42	21.36	6.13	20.67	5.85	19.29	5.30
	7	6	24.80	7.09	23.43	6.52	22.05	5.98	21.36	5.71	20.67	5.45	19.29	4.95
	9	7.9	24.80	6.59	23.43	6.07	22.05	5.57	21.36	5.32	20.67	5.08	19.29	4.61
	11	9.8	24.80	6.13	23.43	5.65	22.05	5.18	21.36	4.95	20.67	4.73	19.29	4.30
	13	11.8	24.80	5.67	23.43	5.23	22.05	4.80	21.36	4.59	20.67	4.39	19.29	3.99
	15	13.7	24.80	5.27	23.43	4.86	22.05	4.46	21.36	4.27	20.67	4.08	19.29	3.71
80	-19.8	-20	18.75	11.50	18.62	11.60	18.49	11.69	18.43	11.74	18.37	11.78	17.15	10.64
	-18.8	-19	19.26	11.63	19.12	11.73	18.99	11.82	18.92	11.87	18.37	11.37	17.15	10.27
	-16.7	-17	20.29	11.90	20.15	12.00	19.60	11.64	18.98	11.11	18.37	10.58	17.15	9.56
	-15	-15.9	20.90	12.05	20.76	12.16	19.60	11.15	18.98	10.63	18.37	10.12	17.15	9.13
	-13.7	-15	21.55	12.22	20.82	11.69	19.60	10.67	18.98	10.17	18.37	9.68	17.15	8.74
	-11.8	-13	22.05	11.97	20.82	10.97	19.60	10.01	18.98	9.54	18.37	9.08	17.15	8.20
	-9.8	-11	22.05	11.14	20.82	10.23	19.60	9.35	18.98	8.92	18.37	8.49	17.15	7.67
	-9.5	-10	22.05	10.76	20.82	9.88	19.60	9.04	18.98	8.62	18.37	8.22	17.15	7.44
	-8.5	-9.1	22.05	10.41	20.82	9.56	19.60	8.74	18.98	8.34	18.37	7.95	17.15	7.20
	-7	-7.6	22.05	9.85	20.82	9.05	19.60	8.28	18.98	7.90	18.37	7.53	17.15	6.82
	-5	-5.6	22.05	9.15	20.82	8.41	19.60	7.70	18.98	7.35	18.37	7.01	17.15	6.35
	-3	-3.7	22.05	8.52	20.82	7.84	19.60	7.18	18.98	6.85	18.37	6.54	17.15	5.92
	0	-0.7	22.05	7.63	20.82	7.02	19.60	6.44	18.98	6.15	18.37	5.87	17.15	5.32
	3	2.2	22.05	6.87	20.82	6.33	19.60	5.81	18.98	5.55	18.37	5.30	17.15	4.81
	5	4.1	22.05	6.42	20.82	5.91	19.60	5.42	18.98	5.19	18.37	4.95	17.15	4.50
	7	6	22.05	5.98	20.82	5.51	19.60	5.06	18.98	4.84	18.37	4.62	17.15	4.20
	9	7.9	22.05	5.57	20.82	5.13	19.60	4.71	18.98	4.51	18.37	4.31	17.15	3.92
	11	9.8	22.05	5.18	20.82	4.78	19.60	4.39	18.98	4.20	18.37	4.02	17.15	3.66
	13	11.8	22.05	4.80	20.82	4.43	19.60	4.08	18.98	3.90	18.37	3.73	17.15	3.40
	15	13.7	22.05	4.46	20.82	4.12	19.60	3.79	18.98	3.63	18.37	3.48	17.15	3.17
70	-19.8	-20	18.48	11.70	18.22	11.64	17.15	10.64	16.61	10.16	16.08	9.68	15.00	8.76
	-18.8	-19	18.96	11.84	18.22	11.23	17.15	10.27	16.61	9.80	16.08	9.34	15.00	8.45
	-16.7	-17	19.29	11.37	18.22	10.45	17.15	9.56	16.61	9.12	16.08	8.70	15.00	7.87
	-15	-15.9	19.29	10.89	18.22	9.99	17.15	9.13	16.61	8.71	16.08	8.30	15.00	7.50
	-13.7	-15	19.29	10.42	18.22	9.56	17.15	8.74	16.61	8.34	16.08	7.94	15.00	7.18
	-11.8	-13	19.29	9.77	18.22	8.97	17.15	8.20	16.61	7.82	16.08	7.45	15.00	6.74
	-9.8	-11	19.29	9.13	18.22	8.39	17.15	7.67	16.61	7.32	16.08	6.97	15.00	6.31
	-9.5	-10	19.29	8.83	18.22	8.12	17.15	7.44	16.61	7.10	16.08	6.78	15.00	6.14
	-8.5	-9.1	19.29	8.54	18.22	7.86	17.15	7.20	16.61	6.88	16.08	6.56	15.00	5.95
	-7	-7.6	19.29	8.09	18.22	7.44	17.15	6.82	16.61	6.52	16.08	6.22	15.00	5.64
	-5	-5.6	19.29	7.52	18.22	6.92	17.15	6.35	16.61	6.07	16.08	5.79	15.00	5.25
	-3	-3.7	19.29	7.01	18.22	6.46	17.15	5.92	16.61	5.66	16.08	5.41	15.00	4.91
	0	-0.7	19.29	6.29	18.22	5.80	17.15	5.32	16.61	5.09	16.08	4.86	15.00	4.42
	3	2.2	19.29	5.68	18.22	5.24	17.15	4.81	16.61	4.60	16.08	4.40	15.00	4.00
	5	4.1	19.29	5.30	18.22	4.89	17.15	4.50	16.61	4.30	16.08	4.11	15.00	3.74
	7	6	19.29	4.95	18.22	4.57	17.15	4.20	16.61	4.02	16.08	3.84	15.00	3.50
	9	7.9	19.29	4.61	18.22	4.26	17.15	3.92	16.61	3.75	16.08	3.59	15.00	3.27
	11	9.8	19.29	4.30	18.22	3.97	17.15	3.66	16.61	3.50	16.08	3.35	15.00	3.06
	13	11.8	19.29	3.99	18.22	3.69	17.15	3.40	16.61	3.26	16.08	3.12	15.00	2.85
	15	13.7	19.29	3.71	18.22	3.44	17.15	3.17	16.61	3.04	16.08	2.91	15.00	2.66

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-19.8	-20	16.54	10.09	15.62	9.28	14.70	8.50	14.24	8.12	13.78	7.75	12.86	7.02
	-18.8	-19	16.54	9.74	15.62	8.96	14.70	8.21	14.24	7.84	13.78	7.48	12.86	6.78
	-16.7	-17	16.54	9.06	15.62	8.34	14.70	7.64	14.24	7.30	13.78	6.97	12.86	6.32
	-15	-15.9	16.54	8.65	15.62	7.96	14.70	7.28	14.24	6.96	13.78	6.64	12.86	6.01
	-13.7	-15	16.54	8.28	15.62	7.61	14.70	6.97	14.24	6.66	13.78	6.35	12.86	5.76
	-11.8	-13	16.54	7.77	15.62	7.14	14.70	6.54	14.24	6.25	13.78	5.96	12.86	5.40
	-9.8	-11	16.54	7.27	15.62	6.68	14.70	6.12	14.24	5.85	13.78	5.58	12.86	5.06
	-9.5	-10	16.54	7.06	15.62	6.50	14.70	5.97	14.24	5.70	13.78	5.45	12.86	4.95
	-8.5	-9.1	16.54	6.83	15.62	6.30	14.70	5.78	14.24	5.52	13.78	5.28	12.86	4.79
	-7	-7.6	16.54	6.47	15.62	5.97	14.70	5.48	14.24	5.24	13.78	5.01	12.86	4.55
	-5	-5.6	16.54	6.03	15.62	5.56	14.70	5.11	14.24	4.88	13.78	4.67	12.86	4.24
	-3	-3.7	16.54	5.63	15.62	5.19	14.70	4.77	14.24	4.57	13.78	4.36	12.86	3.97
	0	-0.7	16.54	5.06	15.62	4.67	14.70	4.30	14.24	4.11	13.78	3.93	12.86	3.58
	3	2.2	16.54	4.57	15.62	4.23	14.70	3.89	14.24	3.73	13.78	3.57	12.86	3.25
	5	4.1	16.54	4.28	15.62	3.95	14.70	3.64	14.24	3.49	13.78	3.34	12.86	3.05
	7	6	16.54	3.99	15.62	3.70	14.70	3.41	14.24	3.26	13.78	3.12	12.86	2.85
	9	7.9	16.54	3.73	15.62	3.45	14.70	3.18	14.24	3.05	13.78	2.92	12.86	2.67
	11	9.8	16.54	3.48	15.62	3.23	14.70	2.98	14.24	2.85	13.78	2.73	12.86	2.50
	13	11.8	16.54	3.24	15.62	3.00	14.70	2.77	14.24	2.66	13.78	2.55	12.86	2.33
	15	13.7	16.54	3.02	15.62	2.80	14.70	2.59	14.24	2.48	13.78	2.38	12.86	2.18
50	-19.8	-20	13.78	7.75	13.01	7.14	12.25	6.55	11.87	6.27	11.48	5.99	10.72	5.44
	-18.8	-19	13.78	7.48	13.01	6.90	12.25	6.33	11.87	6.05	11.48	5.78	10.72	5.25
	-16.7	-17	13.78	6.97	13.01	6.43	12.25	5.90	11.87	5.64	11.48	5.39	10.72	4.90
	-15	-15.9	13.78	6.64	13.01	6.11	12.25	5.61	11.87	5.36	11.48	5.12	10.72	4.65
	-13.7	-15	13.78	6.35	13.01	5.85	12.25	5.37	11.87	5.14	11.48	4.91	10.72	4.46
	-11.8	-13	13.78	5.96	13.01	5.50	12.25	5.04	11.87	4.82	11.48	4.61	10.72	4.19
	-9.8	-11	13.78	5.58	13.01	5.14	12.25	4.72	11.87	4.52	11.48	4.32	10.72	3.92
	-9.5	-10	13.78	5.45	13.01	5.03	12.25	4.62	11.87	4.43	11.48	4.23	10.72	3.85
	-8.5	-9.1	13.78	5.28	13.01	4.87	12.25	4.48	11.87	4.29	11.48	4.10	10.72	3.74
	-7	-7.6	13.78	5.01	13.01	4.63	12.25	4.25	11.87	4.07	11.48	3.90	10.72	3.55
	-5	-5.6	13.78	4.67	13.01	4.31	12.25	3.97	11.87	3.80	11.48	3.64	10.72	3.32
	-3	-3.7	13.78	4.36	13.01	4.04	12.25	3.72	11.87	3.56	11.48	3.41	10.72	3.11
	0	-0.7	13.78	3.93	13.01	3.64	12.25	3.36	11.87	3.22	11.48	3.08	10.72	2.81
	3	2.2	13.78	3.57	13.01	3.30	12.25	3.05	11.87	2.92	11.48	2.80	10.72	2.56
	5	4.1	13.78	3.34	13.01	3.09	12.25	2.86	11.87	2.74	11.48	2.63	10.72	2.40
	7	6	13.78	3.12	13.01	2.90	12.25	2.68	11.87	2.57	11.48	2.46	10.72	2.25
	9	7.9	13.78	2.92	13.01	2.71	12.25	2.51	11.87	2.41	11.48	2.31	10.72	2.12
	11	9.8	13.78	2.73	13.01	2.54	12.25	2.35	11.87	2.26	11.48	2.16	10.72	1.99
	13	11.8	13.78	2.55	13.01	2.37	12.25	2.19	11.87	2.11	11.48	2.02	10.72	1.86
	15	13.7	13.78	2.38	13.01	2.22	12.25	2.05	11.87	1.97	11.48	1.90	10.72	1.74

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN100LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	24.38	13.07	24.20	13.19	24.01	13.32	23.93	13.38	23.83	13.44	23.66	13.56
	-18.8	-19	25.06	13.19	24.87	13.32	24.69	13.44	24.60	13.50	24.51	13.57	24.33	13.69
	-16.7	-17	26.48	13.43	26.28	13.56	26.09	13.69	25.99	13.76	25.89	13.82	25.70	13.95
	-15	-15.9	27.33	13.57	27.12	13.71	26.92	13.84	26.82	13.91	26.72	13.97	26.53	14.10
	-13.7	-15	28.19	13.71	27.99	13.85	27.79	13.99	27.69	14.06	27.59	14.12	27.40	14.26
	-11.8	-13	29.55	13.93	29.33	14.07	29.11	14.21	29.00	14.28	28.89	14.35	28.70	14.48
	-9.8	-11	31.14	14.18	30.91	14.32	30.68	14.47	30.57	14.54	30.46	14.61	30.23	14.75
	-9.5	-10	31.91	14.29	31.67	14.44	31.44	14.59	31.32	14.66	31.21	14.73	30.98	14.87
	-8.5	-9.1	32.67	14.41	32.43	14.56	32.19	14.71	32.07	14.78	31.95	14.85	31.72	14.99
	-7	-7.6	33.97	14.60	33.71	14.76	33.46	14.91	33.34	14.98	33.22	15.05	32.97	15.20
	-5	-5.6	35.75	14.86	35.49	15.02	35.22	15.17	35.09	15.25	34.96	15.32	34.71	15.47
	-3	-3.7	37.53	15.11	37.25	15.27	36.97	15.43	36.83	15.51	36.70	15.59	34.80	14.48
	0	-0.7	40.43	15.51	40.13	15.68	39.77	15.81	38.53	15.08	37.29	14.36	34.80	12.97
	3	2.2	43.32	15.90	42.26	15.55	39.77	14.21	38.53	13.56	37.29	12.92	34.80	11.69
	5	4.1	44.75	15.80	42.26	14.50	39.77	13.26	38.53	12.66	37.29	12.07	34.80	10.93
	7	6	44.75	14.71	42.26	13.51	39.77	12.36	38.53	11.80	37.29	11.25	34.80	10.19
	9	7.9	44.75	13.66	42.26	12.56	39.77	11.49	38.53	10.98	37.29	10.47	34.80	9.49
	11	9.8	44.75	12.68	42.26	11.67	39.77	10.69	38.53	10.21	37.29	9.74	34.80	8.84
	13	11.8	44.75	11.72	42.26	10.79	39.77	9.89	38.53	9.46	37.29	9.03	34.80	8.20
	15	13.7	44.75	10.87	42.26	10.02	39.77	9.19	38.53	8.79	37.29	8.40	34.80	7.64
120	-19.8	-20	24.24	13.16	24.06	13.29	23.88	13.41	23.79	13.47	23.70	13.53	23.53	13.65
	-18.8	-19	24.92	13.29	24.73	13.41	24.55	13.54	24.46	13.60	24.37	13.66	24.19	13.78
	-16.7	-17	26.32	13.54	26.12	13.67	25.93	13.80	25.83	13.86	25.74	13.92	25.55	14.05
	-15	-15.9	27.15	13.69	26.95	13.82	26.75	13.95	26.65	14.02	26.56	14.08	26.37	14.21
	-13.7	-15	28.01	13.84	27.81	13.97	27.61	14.11	27.52	14.17	27.42	14.24	27.23	14.37
	-11.8	-13	29.34	14.06	29.12	14.20	28.91	14.34	28.81	14.41	28.71	14.47	28.51	14.61
	-9.8	-11	30.91	14.32	30.68	14.47	30.46	14.61	30.35	14.68	30.24	14.74	30.02	14.88
	-9.5	-10	31.67	14.45	31.44	14.59	31.20	14.73	31.09	14.80	30.98	14.87	30.75	15.01
	-8.5	-9.1	32.42	14.57	32.18	14.71	31.94	14.86	31.83	14.93	31.71	15.00	31.48	15.13
	-7	-7.6	33.69	14.77	33.44	14.92	33.19	15.07	33.07	15.14	32.95	15.21	32.13	14.86
	-5	-5.6	35.45	15.04	35.18	15.20	34.92	15.35	34.79	15.42	34.42	15.29	32.13	13.81
	-3	-3.7	37.19	15.31	36.91	15.47	36.64	15.62	35.57	14.96	34.42	14.25	32.13	12.88
	0	-0.7	40.02	15.74	39.01	15.36	36.72	14.03	35.57	13.39	34.42	12.77	32.13	11.55
	3	2.2	41.31	15.03	39.01	13.80	36.72	12.63	35.57	12.06	34.42	11.50	32.13	10.42
	5	4.1	41.31	14.02	39.01	12.89	36.72	11.80	35.57	11.28	34.42	10.76	32.13	9.75
	7	6	41.31	13.06	39.01	12.01	36.72	11.00	35.57	10.51	34.42	10.03	32.13	9.10
	9	7.9	41.31	12.14	39.01	11.17	36.72	10.24	35.57	9.79	34.42	9.35	32.13	8.49
	11	9.8	41.31	11.28	39.01	10.39	36.72	9.53	35.57	9.12	34.42	8.71	32.13	7.91
	13	11.8	41.31	10.44	39.01	9.62	36.72	8.84	35.57	8.45	34.42	8.08	32.13	7.35
	15	13.7	41.31	9.70	39.01	8.94	36.72	8.22	35.57	7.87	34.42	7.52	32.13	6.85
110	-19.8	-20	24.08	13.27	23.90	13.40	23.72	13.52	23.64	13.57	23.55	13.63	23.38	13.75
	-18.8	-19	24.74	13.40	24.56	13.53	24.38	13.65	24.29	13.71	24.21	13.77	24.03	13.89
	-16.7	-17	26.12	13.67	25.93	13.80	25.74	13.92	25.65	13.98	25.56	14.04	25.38	14.16
	-15	-15.9	26.95	13.82	26.75	13.95	26.56	14.08	26.47	14.14	26.37	14.21	26.19	14.33
	-13.7	-15	27.80	13.98	27.60	14.11	27.41	14.25	27.32	14.31	27.22	14.37	27.04	14.50
	-11.8	-13	29.10	14.22	28.89	14.35	28.69	14.49	28.59	14.55	28.49	14.62	28.30	14.75

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-9.8	-11	30.64	14.49	30.42	14.63	30.20	14.77	30.09	14.83	29.98	14.90	29.45	14.74
	-9.5	-10	31.39	14.62	31.16	14.76	30.93	14.90	30.82	14.97	30.71	15.03	29.45	14.26
	-8.5	-9.1	32.12	14.75	31.89	14.89	31.66	15.03	31.54	15.10	31.43	15.17	29.45	13.80
	-7	-7.6	33.37	14.96	33.12	15.11	32.88	15.25	32.60	15.18	31.55	14.47	29.45	13.08
	-5	-5.6	35.08	15.25	34.83	15.40	33.66	14.79	32.60	14.11	31.55	13.45	29.45	12.17
	-3	-3.7	36.79	15.54	35.76	15.08	33.66	13.79	32.60	13.16	31.55	12.55	29.45	11.36
	0	-0.7	37.86	14.69	35.76	13.50	33.66	12.36	32.60	11.80	31.55	11.26	29.45	10.20
	3	2.2	37.86	13.21	35.76	12.15	33.66	11.14	32.60	10.64	31.55	10.16	29.45	9.22
	5	4.1	37.86	12.34	35.76	11.36	33.66	10.42	32.60	9.96	31.55	9.51	29.45	8.63
	7	6	37.86	11.50	35.76	10.59	33.66	9.71	32.60	9.29	31.55	8.87	29.45	8.06
	9	7.9	37.86	10.70	35.76	9.86	33.66	9.05	32.60	8.66	31.55	8.28	29.45	7.53
	11	9.8	37.86	9.96	35.76	9.18	33.66	8.44	32.60	8.08	31.55	7.72	29.45	7.03
	13	11.8	37.86	9.23	35.76	8.52	33.66	7.83	32.60	7.50	31.55	7.17	29.45	6.54
	15	13.7	37.86	8.58	35.76	7.93	33.66	7.29	32.60	6.99	31.55	6.69	29.45	6.10
100	-19.8	-20	23.88	13.41	23.71	13.52	23.54	13.64	23.45	13.70	23.37	13.75	23.21	13.87
	-18.8	-19	24.54	13.54	24.36	13.66	24.19	13.78	24.10	13.84	24.01	13.90	23.84	14.01
	-16.7	-17	25.90	13.82	25.71	13.94	25.53	14.07	25.43	14.13	25.34	14.18	25.16	14.30
	-15	-15.9	26.70	13.98	26.52	14.11	26.33	14.23	26.24	14.30	26.16	14.36	25.98	14.48
	-13.7	-15	27.55	14.15	27.36	14.28	27.18	14.41	27.08	14.47	26.99	14.53	26.77	14.62
	-11.8	-13	28.82	14.40	28.62	14.53	28.43	14.66	28.33	14.73	28.24	14.79	26.77	13.73
	-9.8	-11	30.33	14.69	30.11	14.82	29.89	14.95	29.64	14.89	28.68	14.19	26.77	12.83
	-9.5	-10	31.05	14.83	30.83	14.96	30.60	15.08	29.64	14.40	28.68	13.72	26.77	12.42
	-8.5	-9.1	31.77	14.96	31.54	15.10	30.60	14.60	29.64	13.93	28.68	13.28	26.77	12.02
	-7	-7.6	32.99	15.19	32.51	15.12	30.60	13.83	29.64	13.20	28.68	12.59	26.77	11.40
	-5	-5.6	34.42	15.29	32.51	14.05	30.60	12.86	29.64	12.28	28.68	11.72	26.77	10.62
	-3	-3.7	34.42	14.25	32.51	13.10	30.60	12.00	29.64	11.46	28.68	10.94	26.77	9.92
	0	-0.7	34.42	12.77	32.51	11.75	30.60	10.77	29.64	10.30	28.68	9.83	26.77	8.93
	3	2.2	34.42	11.50	32.51	10.60	30.60	9.73	29.64	9.30	28.68	8.89	26.77	8.08
	5	4.1	34.42	10.76	32.51	9.92	30.60	9.10	29.64	8.71	28.68	8.32	26.77	7.57
	7	6	34.42	10.03	32.51	9.25	30.60	8.50	29.64	8.13	28.68	7.78	26.77	7.08
	9	7.9	34.42	9.35	32.51	8.63	30.60	7.93	29.64	7.60	28.68	7.26	26.77	6.62
	11	9.8	34.42	8.71	32.51	8.04	30.60	7.40	29.64	7.09	28.68	6.78	26.77	6.19
	13	11.8	34.42	8.08	32.51	7.47	30.60	6.88	29.64	6.59	28.68	6.31	26.77	5.77
	15	13.7	34.42	7.52	32.51	6.96	30.60	6.42	29.64	6.15	28.68	5.89	26.77	5.39
90	-19.8	-20	23.66	13.56	23.49	13.68	23.32	13.79	23.24	13.85	23.15	13.90	22.99	14.01
	-18.8	-19	24.30	13.71	24.12	13.82	23.95	13.94	23.87	13.99	23.78	14.05	23.62	14.16
	-16.7	-17	25.63	14.00	25.44	14.12	25.26	14.24	25.17	14.29	25.09	14.35	24.09	13.65
	-15	-15.9	26.43	14.17	26.25	14.30	26.07	14.42	25.98	14.48	25.82	14.46	24.09	13.07
	-13.7	-15	27.26	14.35	27.07	14.48	26.89	14.60	26.68	14.54	25.82	13.85	24.09	12.52
	-11.8	-13	28.50	14.61	28.31	14.74	27.54	14.32	26.68	13.66	25.82	13.01	24.09	11.77
	-9.8	-11	29.95	14.92	29.26	14.61	27.54	13.37	26.68	12.77	25.82	12.18	24.09	11.03
	-9.5	-10	30.66	15.07	29.26	14.13	27.54	12.93	26.68	12.35	25.82	11.79	24.09	10.68
	-8.5	-9.1	30.98	14.87	29.26	13.67	27.54	12.52	26.68	11.96	25.82	11.41	24.09	10.35
	-7	-7.6	30.98	14.08	29.26	12.96	27.54	11.87	26.68	11.34	25.82	10.83	24.09	9.82
	-5	-5.6	30.98	13.10	29.26	12.06	27.54	11.05	26.68	10.56	25.82	10.09	24.09	9.16
	-3	-3.7	30.98	12.22	29.26	11.25	27.54	10.32	26.68	9.87	25.82	9.43	24.09	8.57
	0	-0.7	30.98	10.97	29.26	10.11	27.54	9.29	26.68	8.88	25.82	8.49	24.09	7.72

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	3	2.2	30.98	9.90	29.26	9.14	27.54	8.40	26.68	8.04	25.82	7.69	24.09	7.01
	5	4.1	30.98	9.27	29.26	8.56	27.54	7.87	26.68	7.54	25.82	7.21	24.09	6.57
	7	6	30.98	8.65	29.26	7.99	27.54	7.36	26.68	7.05	25.82	6.74	24.09	6.15
	9	7.9	30.98	8.07	29.26	7.46	27.54	6.87	26.68	6.59	25.82	6.31	24.09	5.76
	11	9.8	30.98	7.53	29.26	6.97	27.54	6.42	26.68	6.16	25.82	5.90	24.09	5.40
	13	11.8	30.98	7.00	29.26	6.48	27.54	5.98	26.68	5.74	25.82	5.50	24.09	5.03
	15	13.7	30.98	6.52	29.26	6.05	27.54	5.59	26.68	5.36	25.82	5.14	24.09	4.71
80	-19.8	-20	23.38	13.75	23.21	13.86	23.05	13.97	22.97	14.03	22.89	14.08	21.42	12.81
	-18.8	-19	24.00	13.90	23.83	14.02	23.67	14.13	23.58	14.18	22.95	13.66	21.42	12.37
	-16.7	-17	25.30	14.21	25.12	14.33	24.48	13.97	23.71	13.34	22.95	12.73	21.42	11.54
	-15	-15.9	26.09	14.40	25.91	14.52	24.48	13.38	23.71	12.77	22.95	12.18	21.42	11.03
	-13.7	-15	26.90	14.59	26.01	14.01	24.48	12.81	23.71	12.24	22.95	11.67	21.42	10.57
	-11.8	-13	27.54	14.32	26.01	13.16	24.48	12.04	23.71	11.50	22.95	10.97	21.42	9.94
	-9.8	-11	27.54	13.37	26.01	12.31	24.48	11.28	23.71	10.77	22.95	10.28	21.42	9.32
	-9.5	-10	27.54	12.93	26.01	11.91	24.48	10.93	23.71	10.45	22.95	9.98	21.42	9.06
	-8.5	-9.1	27.54	12.52	26.01	11.53	24.48	10.58	23.71	10.12	22.95	9.67	21.42	8.78
	-7	-7.6	27.54	11.87	26.01	10.94	24.48	10.04	23.71	9.60	22.95	9.18	21.42	8.34
	-5	-5.6	27.54	11.05	26.01	10.19	24.48	9.36	23.71	8.96	22.95	8.56	21.42	7.79
	-3	-3.7	27.54	10.32	26.01	9.53	24.48	8.76	23.71	8.38	22.95	8.01	21.42	7.30
	0	-0.7	27.54	9.29	26.01	8.58	24.48	7.89	23.71	7.56	22.95	7.23	21.42	6.60
	3	2.2	27.54	8.40	26.01	7.77	24.48	7.16	23.71	6.86	22.95	6.57	21.42	6.00
	5	4.1	27.54	7.87	26.01	7.28	24.48	6.71	23.71	6.43	22.95	6.16	21.42	5.63
	7	6	27.54	7.36	26.01	6.81	24.48	6.28	23.71	6.03	22.95	5.77	21.42	5.28
	9	7.9	27.54	6.87	26.01	6.37	24.48	5.88	23.71	5.64	22.95	5.41	21.42	4.95
	11	9.8	27.54	6.42	26.01	5.96	24.48	5.51	23.71	5.29	22.95	5.07	21.42	4.65
	13	11.8	27.54	5.98	26.01	5.55	24.48	5.14	23.71	4.93	22.95	4.73	21.42	4.35
	15	13.7	27.54	5.59	26.01	5.19	24.48	4.81	23.71	4.62	22.95	4.44	21.42	4.08
70	-19.8	-20	23.03	13.99	22.76	13.97	21.42	12.81	20.75	12.25	20.08	11.69	18.74	10.62
	-18.8	-19	23.63	14.15	22.76	13.49	21.42	12.37	20.75	11.83	20.08	11.30	18.74	10.26
	-16.7	-17	24.09	13.66	22.76	12.58	21.42	11.54	20.75	11.04	20.08	10.54	18.74	9.58
	-15	-15.9	24.09	13.07	22.76	12.03	21.42	11.03	20.75	10.54	20.08	10.07	18.74	9.14
	-13.7	-15	24.09	12.52	22.76	11.53	21.42	10.57	20.75	10.11	20.08	9.65	18.74	8.76
	-11.8	-13	24.09	11.77	22.76	10.84	21.42	9.94	20.75	9.50	20.08	9.07	18.74	8.24
	-9.8	-11	24.09	11.03	22.76	10.16	21.42	9.32	20.75	8.91	20.08	8.51	18.74	7.74
	-9.5	-10	24.09	10.69	22.76	9.86	21.42	9.06	20.75	8.68	20.08	8.30	18.74	7.55
	-8.5	-9.1	24.09	10.35	22.76	9.56	21.42	8.79	20.75	8.41	20.08	8.04	18.74	7.33
	-7	-7.6	24.09	9.82	22.76	9.07	21.42	8.34	20.75	7.99	20.08	7.64	18.74	6.97
	-5	-5.6	24.09	9.16	22.76	8.46	21.42	7.79	20.75	7.46	20.08	7.14	18.74	6.52
	-3	-3.7	24.09	8.57	22.76	7.92	21.42	7.30	20.75	6.99	20.08	6.70	18.74	6.11
	0	-0.7	24.09	7.72	22.76	7.15	21.42	6.60	20.75	6.32	20.08	6.06	18.74	5.54
	3	2.2	24.09	7.01	22.76	6.49	21.42	6.00	20.75	5.76	20.08	5.52	18.74	5.05
	5	4.1	24.09	6.57	22.76	6.09	21.42	5.63	20.75	5.40	20.08	5.18	18.74	4.75
	7	6	24.09	6.15	22.76	5.71	21.42	5.28	20.75	5.07	20.08	4.87	18.74	4.46
	9	7.9	24.09	5.76	22.76	5.35	21.42	4.95	20.75	4.76	20.08	4.57	18.74	4.20
	11	9.8	24.09	5.40	22.76	5.02	21.42	4.65	20.75	4.47	20.08	4.29	18.74	3.95
	13	11.8	24.09	5.03	22.76	4.68	21.42	4.35	20.75	4.18	20.08	4.02	18.74	3.70
	15	13.7	24.09	4.71	22.76	4.39	21.42	4.08	20.75	3.92	20.08	3.77	18.74	3.48

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-19.8	-20	20.65	12.17	19.51	11.23	18.36	10.32	17.78	9.87	17.21	9.44	16.06	8.59
	-18.8	-19	20.65	11.75	19.51	10.85	18.36	9.97	17.78	9.54	17.21	9.12	16.06	8.31
	-16.7	-17	20.65	10.97	19.51	10.12	18.36	9.31	17.78	8.91	17.21	8.52	16.06	7.77
	-15	-15.9	20.65	10.48	19.51	9.66	18.36	8.88	17.78	8.50	17.21	8.13	16.06	7.40
	-13.7	-15	20.65	10.04	19.51	9.27	18.36	8.52	17.78	8.15	17.21	7.79	16.06	7.10
	-11.8	-13	20.65	9.44	19.51	8.72	18.36	8.01	17.78	7.67	17.21	7.34	16.06	6.69
	-9.8	-11	20.65	8.85	19.51	8.17	18.36	7.52	17.78	7.20	17.21	6.89	16.06	6.28
	-9.5	-10	20.65	8.62	19.51	7.97	18.36	7.35	17.78	7.04	17.21	6.74	16.06	6.16
	-8.5	-9.1	20.65	8.36	19.51	7.73	18.36	7.13	17.78	6.83	17.21	6.54	16.06	5.98
	-7	-7.6	20.65	7.94	19.51	7.35	18.36	6.78	17.78	6.50	17.21	6.23	16.06	5.69
	-5	-5.6	20.65	7.42	19.51	6.87	18.36	6.34	17.78	6.08	17.21	5.83	16.06	5.34
	-3	-3.7	20.65	6.95	19.51	6.44	18.36	5.95	17.78	5.71	17.21	5.48	16.06	5.02
	0	-0.7	20.65	6.29	19.51	5.84	18.36	5.40	17.78	5.18	17.21	4.97	16.06	4.56
	3	2.2	20.65	5.72	19.51	5.32	18.36	4.92	17.78	4.73	17.21	4.54	16.06	4.17
	5	4.1	20.65	5.37	19.51	4.99	18.36	4.63	17.78	4.45	17.21	4.27	16.06	3.93
	7	6	20.65	5.04	19.51	4.69	18.36	4.35	17.78	4.19	17.21	4.02	16.06	3.71
	9	7.9	20.65	4.73	19.51	4.41	18.36	4.09	17.78	3.94	17.21	3.79	16.06	3.49
	11	9.8	20.65	4.44	19.51	4.14	18.36	3.85	17.78	3.71	17.21	3.57	16.06	3.29
	13	11.8	20.65	4.16	19.51	3.88	18.36	3.61	17.78	3.48	17.21	3.35	16.06	3.10
	15	13.7	20.65	3.90	19.51	3.65	18.36	3.40	17.78	3.27	17.21	3.15	16.06	2.92
50	-19.8	-20	17.21	9.44	16.25	8.73	15.30	8.04	14.82	7.71	14.34	7.38	13.39	6.74
	-18.8	-19	17.21	9.12	16.25	8.44	15.30	7.78	14.82	7.46	14.34	7.14	13.39	6.52
	-16.7	-17	17.21	8.52	16.25	7.89	15.30	7.28	14.82	6.98	14.34	6.68	13.39	6.11
	-15	-15.9	17.21	8.13	16.25	7.52	15.30	6.93	14.82	6.64	14.34	6.36	13.39	5.81
	-13.7	-15	17.21	7.80	16.25	7.21	15.30	6.65	14.82	6.38	14.34	6.11	13.39	5.58
	-11.8	-13	17.21	7.34	16.25	6.79	15.30	6.27	14.82	6.01	14.34	5.76	13.39	5.27
	-9.8	-11	17.21	6.89	16.25	6.38	15.30	5.89	14.82	5.65	14.34	5.41	13.39	4.96
	-9.5	-10	17.21	6.74	16.25	6.25	15.30	5.78	14.82	5.55	14.34	5.32	13.39	4.88
	-8.5	-9.1	17.21	6.54	16.25	6.07	15.30	5.61	14.82	5.39	14.34	5.17	13.39	4.74
	-7	-7.6	17.21	6.23	16.25	5.78	15.30	5.35	14.82	5.14	14.34	4.93	13.39	4.52
	-5	-5.6	17.21	5.83	16.25	5.42	15.30	5.02	14.82	4.82	14.34	4.63	13.39	4.25
	-3	-3.7	17.21	5.48	16.25	5.09	15.30	4.72	14.82	4.54	14.34	4.36	13.39	4.01
	0	-0.7	17.21	4.97	16.25	4.63	15.30	4.30	14.82	4.13	14.34	3.97	13.39	3.66
	3	2.2	17.21	4.54	16.25	4.23	15.30	3.94	14.82	3.79	14.34	3.65	13.39	3.36
	5	4.1	17.21	4.27	16.25	3.99	15.30	3.71	14.82	3.57	14.34	3.44	13.39	3.18
	7	6	17.21	4.02	16.25	3.76	15.30	3.50	14.82	3.37	14.34	3.25	13.39	3.01
	9	7.9	17.21	3.79	16.25	3.54	15.30	3.30	14.82	3.18	14.34	3.07	13.39	2.84
	11	9.8	17.21	3.57	16.25	3.34	15.30	3.12	14.82	3.01	14.34	2.90	13.39	2.69
	13	11.8	17.21	3.35	16.25	3.14	15.30	2.93	14.82	2.83	14.34	2.73	13.39	2.54
	15	13.7	17.21	3.15	16.25	2.96	15.30	2.77	14.82	2.68	14.34	2.58	13.39	2.41

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

7. Capacity Tables

ZRUN120LSS0

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-19.8	-20	29.27	19.14	29.06	19.33	28.86	19.51	28.76	19.60	28.66	19.69	28.46	19.87
	-18.8	-19	30.08	19.32	29.87	19.51	29.66	19.70	29.55	19.79	29.45	19.88	29.25	20.06
	-16.7	-17	31.76	19.68	31.54	19.88	31.32	20.07	31.21	20.17	31.10	20.26	30.89	20.45
	-15	-15.9	32.76	19.89	32.53	20.09	32.31	20.29	32.20	20.39	32.08	20.49	31.86	20.68
	-13.7	-15	33.67	20.08	33.44	20.28	33.22	20.49	33.11	20.59	33.00	20.69	32.79	20.89
	-11.8	-13	35.40	20.43	35.15	20.64	34.91	20.85	34.79	20.95	34.67	21.05	34.43	21.25
	-9.8	-11	37.29	20.80	37.03	21.02	36.78	21.23	36.65	21.34	36.52	21.44	36.28	21.64
	-9.5	-10	38.21	20.98	37.94	21.20	37.68	21.41	37.55	21.52	37.42	21.63	37.17	21.83
	-8.5	-9.1	39.11	21.15	38.84	21.37	38.57	21.59	38.44	21.70	38.31	21.81	38.05	22.02
	-7	-7.6	40.65	21.44	40.37	21.67	40.09	21.89	39.96	22.00	39.82	22.11	39.55	22.32
	-5	-5.6	42.79	21.83	42.49	22.06	42.20	22.29	42.05	22.41	41.91	22.52	41.62	22.74
	-3	-3.7	44.92	22.21	44.61	22.45	44.30	22.69	44.14	22.80	43.99	22.92	41.74	21.25
	0	-0.7	48.41	22.82	48.06	23.07	47.70	23.29	46.21	22.17	44.72	21.08	41.74	18.96
	3	2.2	51.90	23.42	50.69	22.91	47.70	20.85	46.21	19.86	44.72	18.89	41.74	17.02
	5	4.1	53.67	23.30	50.69	21.31	47.70	19.41	46.21	18.50	44.72	17.60	41.74	15.87
	7	6	53.67	21.66	50.69	19.83	47.70	18.07	46.21	17.22	44.72	16.38	41.74	14.78
	9	7.9	53.67	20.08	50.69	18.38	47.70	16.76	46.21	15.98	44.72	15.21	41.74	13.73
	11	9.8	53.67	18.59	50.69	17.03	47.70	15.54	46.21	14.82	44.72	14.11	41.74	12.75
	13	11.8	53.67	17.13	50.69	15.71	47.70	14.34	46.21	13.69	44.72	13.04	41.74	11.79
	15	13.7	53.67	15.84	50.69	14.54	47.70	13.29	46.21	12.68	44.72	12.09	41.74	10.94
120	-19.8	-20	29.11	19.28	28.91	19.47	28.71	19.65	28.61	19.74	28.51	19.83	28.31	20.00
	-18.8	-19	29.91	19.47	29.70	19.66	29.50	19.84	29.40	19.93	29.30	20.02	29.10	20.20
	-16.7	-17	31.57	19.84	31.35	20.04	31.14	20.23	31.03	20.32	30.93	20.42	30.72	20.60
	-15	-15.9	32.56	20.06	32.34	20.26	32.12	20.46	32.01	20.55	31.90	20.65	31.68	20.83
	-13.7	-15	33.47	20.26	33.25	20.47	33.03	20.67	32.92	20.76	32.82	20.86	32.61	21.05
	-11.8	-13	35.17	20.63	34.92	20.83	34.69	21.04	34.57	21.14	34.45	21.23	34.22	21.43
	-9.8	-11	37.03	21.02	36.78	21.23	36.53	21.44	36.40	21.54	36.28	21.64	36.04	21.84
	-9.5	-10	37.94	21.20	37.67	21.42	37.42	21.63	37.29	21.73	37.16	21.84	36.91	22.04
	-8.5	-9.1	38.83	21.38	38.56	21.60	38.30	21.82	38.17	21.92	38.04	22.02	37.78	22.23
	-7	-7.6	40.35	21.69	40.07	21.91	39.79	22.13	39.66	22.24	39.52	22.34	38.53	21.79
	-5	-5.6	42.45	22.10	42.15	22.33	41.86	22.55	41.72	22.66	41.28	22.47	38.53	20.21
	-3	-3.7	44.54	22.50	44.23	22.74	43.92	22.97	42.66	21.97	41.28	20.89	38.53	18.81
	0	-0.7	47.95	23.15	46.79	22.60	44.03	20.58	42.66	19.60	41.28	18.65	38.53	16.81
	3	2.2	49.54	22.11	46.79	20.24	44.03	18.45	42.66	17.58	41.28	16.74	38.53	15.10
	5	4.1	49.54	20.57	46.79	18.85	44.03	17.19	42.66	16.39	41.28	15.61	38.53	14.10
	7	6	49.54	19.14	46.79	17.54	44.03	16.01	42.66	15.26	41.28	14.54	38.53	13.13
	9	7.9	49.54	17.75	46.79	16.28	44.03	14.86	42.66	14.18	41.28	13.51	38.53	12.21
	11	9.8	49.54	16.45	46.79	15.10	44.03	13.80	42.66	13.16	41.28	12.55	38.53	11.35
	13	11.8	49.54	15.18	46.79	13.94	44.03	12.75	42.66	12.17	41.28	11.61	38.53	10.51
	15	13.7	49.54	14.05	46.79	12.91	44.03	11.82	42.66	11.29	41.28	10.77	38.53	9.77
110	-19.8	-20	28.93	19.45	28.73	19.63	28.53	19.81	28.43	19.90	28.33	19.98	28.15	20.16
	-18.8	-19	29.72	19.64	29.51	19.83	29.31	20.01	29.21	20.10	29.11	20.19	28.92	20.36
	-16.7	-17	31.36	20.04	31.14	20.23	30.93	20.41	30.83	20.51	30.72	20.60	30.52	20.78
	-15	-15.9	32.33	20.27	32.11	20.46	31.90	20.65	31.79	20.74	31.68	20.84	31.47	21.02
	-13.7	-15	33.24	20.48	33.02	20.67	32.81	20.87	32.70	20.97	32.60	21.06	32.39	21.25
	-11.8	-13	34.90	20.85	34.66	21.06	34.42	21.26	34.31	21.35	34.19	21.45	33.97	21.64

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
110	-9.8	-11	36.74	21.27	36.49	21.47	36.24	21.68	36.12	21.78	35.99	21.88	35.32	21.58
	-9.5	-10	37.62	21.46	37.36	21.67	37.11	21.88	36.99	21.98	36.86	22.08	35.32	20.86
	-8.5	-9.1	38.50	21.65	38.24	21.87	37.98	22.07	37.85	22.18	37.72	22.28	35.32	20.17
	-7	-7.6	39.99	21.97	39.71	22.19	39.44	22.40	39.10	22.29	37.84	21.19	35.32	19.08
	-5	-5.6	42.04	22.41	41.75	22.63	40.36	21.70	39.10	20.67	37.84	19.67	35.32	17.72
	-3	-3.7	44.09	22.84	42.89	22.16	40.36	20.19	39.10	19.23	37.84	18.30	35.32	16.50
	0	-0.7	45.41	21.58	42.89	19.76	40.36	18.02	39.10	17.18	37.84	16.36	35.32	14.77
	3	2.2	45.41	19.33	42.89	17.73	40.36	16.18	39.10	15.44	37.84	14.71	35.32	13.29
	5	4.1	45.41	18.01	42.89	16.53	40.36	15.10	39.10	14.41	37.84	13.73	35.32	12.42
	7	6	45.41	16.77	42.89	15.39	40.36	14.06	39.10	13.42	37.84	12.79	35.32	11.57
	9	7.9	45.41	15.56	42.89	14.29	40.36	13.07	39.10	12.48	37.84	11.90	35.32	10.78
	11	9.8	45.41	14.44	42.89	13.27	40.36	12.14	39.10	11.60	37.84	11.07	35.32	10.03
	13	11.8	45.41	13.34	42.89	12.27	40.36	11.24	39.10	10.74	37.84	10.25	35.32	9.30
	15	13.7	45.41	12.36	42.89	11.38	40.36	10.43	39.10	9.97	37.84	9.52	35.32	8.65
100	-19.8	-20	28.71	19.64	28.52	19.82	28.32	20.00	28.23	20.08	28.13	20.17	27.94	20.33
	-18.8	-19	29.49	19.85	29.29	20.03	29.09	20.21	28.99	20.29	28.90	20.38	28.71	20.55
	-16.7	-17	31.10	20.26	30.89	20.45	30.68	20.63	30.58	20.72	30.48	20.81	30.28	20.98
	-15	-15.9	32.07	20.50	31.85	20.69	31.63	20.88	31.53	20.97	31.42	21.06	31.21	21.23
	-13.7	-15	32.96	20.73	32.75	20.92	32.54	21.11	32.44	21.21	32.34	21.30	32.11	21.45
	-11.8	-13	34.58	21.12	34.35	21.32	34.12	21.51	34.00	21.61	33.89	21.70	32.11	20.09
	-9.8	-11	36.38	21.56	36.14	21.76	35.89	21.96	35.55	21.80	34.40	20.74	32.11	18.69
	-9.5	-10	37.25	21.76	37.00	21.97	36.70	22.11	35.55	21.06	34.40	20.04	32.11	18.07
	-8.5	-9.1	38.11	21.97	37.85	22.17	36.70	21.38	35.55	20.37	34.40	19.38	32.11	17.48
	-7	-7.6	39.56	22.31	38.99	22.19	36.70	20.22	35.55	19.27	34.40	18.34	32.11	16.55
	-5	-5.6	41.28	22.47	38.99	20.58	36.70	18.77	35.55	17.89	34.40	17.04	32.11	15.38
	-3	-3.7	41.28	20.89	38.99	19.15	36.70	17.47	35.55	16.66	34.40	15.87	32.11	14.33
	0	-0.7	41.28	18.65	38.99	17.11	36.70	15.63	35.55	14.91	34.40	14.21	32.11	12.85
	3	2.2	41.28	16.74	38.99	15.37	36.70	14.06	35.55	13.42	34.40	12.79	32.11	11.58
	5	4.1	41.28	15.61	38.99	14.35	36.70	13.13	35.55	12.54	34.40	11.96	32.11	10.83
	7	6	41.28	14.54	38.99	13.36	36.70	12.23	35.55	11.68	34.40	11.14	32.11	10.10
	9	7.9	41.28	13.51	38.99	12.42	36.70	11.38	35.55	10.88	34.40	10.38	32.11	9.42
	11	9.8	41.28	12.55	38.99	11.55	36.70	10.59	35.55	10.12	34.40	9.66	32.11	8.78
	13	11.8	41.28	11.61	38.99	10.69	36.70	9.81	35.55	9.38	34.40	8.96	32.11	8.15
	15	13.7	41.28	10.77	38.99	9.93	36.70	9.12	35.55	8.72	34.40	8.34	32.11	7.59
90	-19.8	-20	28.45	19.88	28.26	20.05	28.07	20.22	27.98	20.30	27.88	20.39	27.70	20.55
	-18.8	-19	29.22	20.09	29.02	20.27	28.83	20.44	28.73	20.52	28.64	20.61	28.45	20.77
	-16.7	-17	30.80	20.53	30.59	20.71	30.39	20.89	30.29	20.97	30.19	21.06	28.90	19.87
	-15	-15.9	31.74	20.78	31.53	20.97	31.32	21.15	31.21	21.24	30.96	21.14	28.90	19.06
	-13.7	-15	32.64	21.03	32.43	21.21	32.22	21.40	31.99	21.33	30.96	20.29	28.90	18.27
	-11.8	-13	34.20	21.44	33.97	21.63	33.03	20.96	31.99	19.98	30.96	19.03	28.90	17.15
	-9.8	-11	35.96	21.90	35.09	21.37	33.03	19.50	31.99	18.59	30.96	17.70	28.90	15.98
	-9.5	-10	36.80	22.12	35.09	20.65	33.03	18.85	31.99	17.97	30.96	17.11	28.90	15.46
	-8.5	-9.1	37.15	21.79	35.09	19.97	33.03	18.23	31.99	17.39	30.96	16.56	28.90	14.96
	-7	-7.6	37.15	20.61	35.09	18.90	33.03	17.26	31.99	16.46	30.96	15.68	28.90	14.17
	-5	-5.6	37.15	19.13	35.09	17.55	33.03	16.03	31.99	15.30	30.96	14.58	28.90	13.18
	-3	-3.7	37.15	17.80	35.09	16.34	33.03	14.94	31.99	14.26	30.96	13.59	28.90	12.30
	0	-0.7	37.15	15.92	35.09	14.63	33.03	13.39	31.99	12.78	30.96	12.19	28.90	11.05

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	3	2.2	37.15	14.31	35.09	13.17	33.03	12.06	31.99	11.53	30.96	11.00	28.90	9.98
	5	4.1	37.15	13.37	35.09	12.31	33.03	11.28	31.99	10.78	30.96	10.29	28.90	9.34
	7	6	37.15	12.45	35.09	11.47	33.03	10.51	31.99	10.05	30.96	9.60	28.90	8.72
	9	7.9	37.15	11.59	35.09	10.68	33.03	9.80	31.99	9.37	30.96	8.95	28.90	8.14
	11	9.8	37.15	10.78	35.09	9.94	33.03	9.13	31.99	8.73	30.96	8.35	28.90	7.59
	13	11.8	37.15	9.98	35.09	9.21	33.03	8.47	31.99	8.11	30.96	7.75	28.90	7.06
	15	13.7	37.15	9.28	35.09	8.57	33.03	7.88	31.99	7.55	30.96	7.22	28.90	6.58
80	-19.8	-20	28.14	20.16	27.95	20.33	27.76	20.49	27.67	20.58	27.52	20.57	25.69	18.58
	-18.8	-19	28.88	20.39	28.69	20.56	28.50	20.73	28.41	20.81	27.52	19.86	25.69	17.93
	-16.7	-17	30.43	20.85	30.22	21.03	29.36	20.35	28.44	19.41	27.52	18.48	25.69	16.70
	-15	-15.9	31.34	21.13	31.14	21.30	29.36	19.52	28.44	18.62	27.52	17.73	25.69	16.00
	-13.7	-15	32.23	21.39	31.19	20.52	29.36	18.71	28.44	17.83	27.52	16.98	25.69	15.32
	-11.8	-13	33.03	20.96	31.19	19.24	29.36	17.57	28.44	16.74	27.52	15.94	25.69	14.39
	-9.8	-11	33.03	19.50	31.19	17.90	29.36	16.36	28.44	15.61	27.52	14.88	25.69	13.46
	-9.5	-10	33.03	18.85	31.19	17.30	29.36	15.82	28.44	15.10	27.52	14.39	25.69	13.03
	-8.5	-9.1	33.03	18.23	31.19	16.74	29.36	15.31	28.44	14.61	27.52	13.93	25.69	12.61
	-7	-7.6	33.03	17.26	31.19	15.85	29.36	14.50	28.44	13.85	27.52	13.20	25.69	11.96
	-5	-5.6	33.03	16.03	31.19	14.74	29.36	13.49	28.44	12.88	27.52	12.29	25.69	11.14
	-3	-3.7	33.03	14.94	31.19	13.74	29.36	12.59	28.44	12.02	27.52	11.47	25.69	10.41
	0	-0.7	33.03	13.39	31.19	12.32	29.36	11.30	28.44	10.80	27.52	10.31	25.69	9.36
	3	2.2	33.03	12.06	31.19	11.12	29.36	10.20	28.44	9.76	27.52	9.32	25.69	8.48
	5	4.1	33.03	11.28	31.19	10.40	29.36	9.55	28.44	9.13	27.52	8.73	25.69	7.94
	7	6	33.03	10.51	31.19	9.70	29.36	8.91	28.44	8.53	27.52	8.15	25.69	7.42
	9	7.9	33.03	9.80	31.19	9.04	29.36	8.32	28.44	7.96	27.52	7.61	25.69	6.94
	11	9.8	33.03	9.13	31.19	8.43	29.36	7.76	28.44	7.43	27.52	7.11	25.69	6.49
	13	11.8	33.03	8.47	31.19	7.83	29.36	7.21	28.44	6.91	27.52	6.62	25.69	6.04
	15	13.7	33.03	7.88	31.19	7.29	29.36	6.72	28.44	6.45	27.52	6.17	25.69	5.64
70	-19.8	-20	27.74	20.52	27.29	20.32	25.69	18.58	24.88	17.73	24.08	16.90	22.48	15.29
	-18.8	-19	28.46	20.76	27.29	19.61	25.69	17.93	24.88	17.12	24.08	16.32	22.48	14.77
	-16.7	-17	28.90	19.87	27.29	18.26	25.69	16.70	24.88	15.94	24.08	15.20	22.48	13.76
	-15	-15.9	28.90	19.06	27.29	17.51	25.69	16.00	24.88	15.27	24.08	14.55	22.48	13.16
	-13.7	-15	28.90	18.27	27.29	16.77	25.69	15.32	24.88	14.62	24.08	13.94	22.48	12.61
	-11.8	-13	28.90	17.15	27.29	15.74	25.69	14.39	24.88	13.73	24.08	13.09	22.48	11.84
	-9.8	-11	28.90	15.99	27.29	14.70	25.69	13.47	24.88	12.86	24.08	12.26	22.48	11.10
	-9.5	-10	28.90	15.46	27.29	14.22	25.69	13.03	24.88	12.45	24.08	11.88	22.48	10.77
	-8.5	-9.1	28.90	14.96	27.29	13.77	25.69	12.61	24.88	12.05	24.08	11.50	22.48	10.44
	-7	-7.6	28.90	14.17	27.29	13.05	25.69	11.96	24.88	11.43	24.08	10.91	22.48	9.91
	-5	-5.6	28.90	13.19	27.29	12.14	25.69	11.14	24.88	10.65	24.08	10.17	22.48	9.24
	-3	-3.7	28.90	12.30	27.29	11.34	25.69	10.41	24.88	9.95	24.08	9.51	22.48	8.64
	0	-0.7	28.90	11.05	27.29	10.19	25.69	9.36	24.88	8.96	24.08	8.57	22.48	7.80
	3	2.2	28.90	9.98	27.29	9.21	25.69	8.48	24.88	8.12	24.08	7.76	22.48	7.08
	5	4.1	28.90	9.34	27.29	8.63	25.69	7.94	24.88	7.60	24.08	7.27	22.48	6.63
	7	6	28.90	8.72	27.29	8.06	25.69	7.42	24.88	7.11	24.08	6.81	22.48	6.21
	9	7.9	28.90	8.14	27.29	7.53	25.69	6.94	24.88	6.65	24.08	6.37	22.48	5.82
	11	9.8	28.90	7.60	27.29	7.03	25.69	6.49	24.88	6.22	24.08	5.96	22.48	5.45
	13	11.8	28.90	7.06	27.29	6.54	25.69	6.04	24.88	5.80	24.08	5.55	22.48	5.09
	15	13.7	28.90	6.59	27.29	6.11	25.69	5.64	24.88	5.42	24.08	5.20	22.48	4.76

7. Capacity Tables

Combi.	Outdoor Air Temp.		Indoor Air Temp. (°C, DB)											
			16.0		18.0		20.0		21.0		22.0		24.0	
	(°C, DB)	(°C, WB)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60	-19.8	-20	24.77	17.61	23.39	16.21	22.02	14.85	21.33	14.19	20.64	13.54	19.26	12.28
	-18.8	-19	24.77	17.00	23.39	15.65	22.02	14.34	21.33	13.70	20.64	13.08	19.26	11.86
	-16.7	-17	24.77	15.84	23.39	14.58	22.02	13.36	21.33	12.77	20.64	12.19	19.26	11.07
	-15	-15.9	24.77	15.16	23.39	13.95	22.02	12.77	21.33	12.20	20.64	11.64	19.26	10.56
	-13.7	-15	24.77	14.52	23.39	13.36	22.02	12.24	21.33	11.69	20.64	11.16	19.26	10.12
	-11.8	-13	24.77	13.64	23.39	12.55	22.02	11.50	21.33	10.99	20.64	10.49	19.26	9.51
	-9.8	-11	24.77	12.78	23.39	11.75	22.02	10.77	21.33	10.30	20.64	9.83	19.26	8.92
	-9.5	-10	24.77	12.37	23.39	11.40	22.02	10.47	21.33	10.01	20.64	9.57	19.26	8.70
	-8.5	-9.1	24.77	11.97	23.39	11.04	22.02	10.14	21.33	9.70	20.64	9.27	19.26	8.44
	-7	-7.6	24.77	11.36	23.39	10.48	22.02	9.63	21.33	9.21	20.64	8.81	19.26	8.02
	-5	-5.6	24.77	10.58	23.39	9.77	22.02	8.98	21.33	8.60	20.64	8.22	19.26	7.49
	-3	-3.7	24.77	9.89	23.39	9.13	22.02	8.40	21.33	8.05	20.64	7.70	19.26	7.02
	0	-0.7	24.77	8.91	23.39	8.23	22.02	7.58	21.33	7.27	20.64	6.96	19.26	6.35
	3	2.2	24.77	8.07	23.39	7.47	22.02	6.88	21.33	6.60	20.64	6.32	19.26	5.78
	5	4.1	24.77	7.56	23.39	7.00	22.02	6.46	21.33	6.19	20.64	5.93	19.26	5.43
	7	6	24.77	7.07	23.39	6.55	22.02	6.05	21.33	5.80	20.64	5.56	19.26	5.09
	9	7.9	24.77	6.61	23.39	6.13	22.02	5.67	21.33	5.44	20.64	5.22	19.26	4.78
	11	9.8	24.77	6.18	23.39	5.74	22.02	5.31	21.33	5.10	20.64	4.89	19.26	4.49
	13	11.8	24.77	5.76	23.39	5.35	22.02	4.96	21.33	4.76	20.64	4.57	19.26	4.20
	15	13.7	24.77	5.39	23.39	5.01	22.02	4.64	21.33	4.46	20.64	4.29	19.26	3.94
50	-19.8	-20	20.64	13.54	19.49	12.48	18.35	11.47	17.77	10.97	17.20	10.48	16.05	9.53
	-18.8	-19	20.64	13.08	19.49	12.06	18.35	11.08	17.77	10.60	17.20	10.13	16.05	9.22
	-16.7	-17	20.64	12.19	19.49	11.25	18.35	10.34	17.77	9.90	17.20	9.46	16.05	8.61
	-15	-15.9	20.64	11.64	19.49	10.74	18.35	9.86	17.77	9.43	17.20	9.01	16.05	8.20
	-13.7	-15	20.64	11.16	19.49	10.29	18.35	9.45	17.77	9.04	17.20	8.64	16.05	7.87
	-11.8	-13	20.64	10.49	19.49	9.67	18.35	8.89	17.77	8.51	17.20	8.13	16.05	7.40
	-9.8	-11	20.64	9.83	19.49	9.07	18.35	8.34	17.77	7.98	17.20	7.63	16.05	6.95
	-9.5	-10	20.64	9.57	19.49	8.84	18.35	8.14	17.77	7.80	17.20	7.47	16.05	6.81
	-8.5	-9.1	20.64	9.27	19.49	8.57	18.35	7.90	17.77	7.57	17.20	7.24	16.05	6.61
	-7	-7.6	20.64	8.81	19.49	8.15	18.35	7.51	17.77	7.20	17.20	6.89	16.05	6.29
	-5	-5.6	20.64	8.22	19.49	7.61	18.35	7.02	17.77	6.73	17.20	6.45	16.05	5.89
	-3	-3.7	20.64	7.70	19.49	7.13	18.35	6.58	17.77	6.31	17.20	6.05	16.05	5.53
	0	-0.7	20.64	6.96	19.49	6.45	18.35	5.96	17.77	5.72	17.20	5.49	16.05	5.03
	3	2.2	20.64	6.32	19.49	5.87	18.35	5.43	17.77	5.22	17.20	5.00	16.05	4.59
	5	4.1	20.64	5.93	19.49	5.51	18.35	5.10	17.77	4.90	17.20	4.70	16.05	4.32
	7	6	20.64	5.56	19.49	5.17	18.35	4.79	17.77	4.61	17.20	4.42	16.05	4.07
	9	7.9	20.64	5.22	19.49	4.85	18.35	4.50	17.77	4.33	17.20	4.16	16.05	3.83
	11	9.8	20.64	4.89	19.49	4.56	18.35	4.23	17.77	4.07	17.20	3.91	16.05	3.61
	13	11.8	20.64	4.57	19.49	4.26	18.35	3.96	17.77	3.81	17.20	3.67	16.05	3.39
	15	13.7	20.64	4.29	19.49	4.00	18.35	3.72	17.77	3.59	17.20	3.45	16.05	3.19

Note

■ TC: Total Capacity(kW), PI : Power Input(kW, Comp. + Outdoor fan motor)

■ Capacity tables show the average value of conditions which may occur.

8. Capacity Correction Factor

8.1 Cooling Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0

Level difference (=IDU-ODU) (m)	Capacity correction factor (%) by equivalent pipe length (m)																							
	7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	225
-50	-	-	-	-	-	-	92.0	89.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-40	-	-	-	-	94.0	93.0	92.0	89.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	-	94.0	93.0	92.0	90.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-20	-	-	-	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-10	-	99.0	98.0	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-7.5	100.0	99.0	98.0	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
0	100.0	99.0	98.0	97.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5	100.0	99.0	98.0	97.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	99.0	98.0	98.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	98.0	94.0	94.0	93.0	90.0	89.0	89.0	87.0	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	95.0	94.0	93.0	90.0	90.0	89.0	87.0	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	95.0	94.0	93.0	90.0	90.0	89.0	87.0	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	93.0	91.0	90.0	89.0	87.0	-	-	-	-	-	-	-	-	-	-	-	-	-

Note

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load under standard conditions. (Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.)
2. With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
3. If heat insulation of piping is insufficient, heat loss will become larger and capacity will decrease.
4. Method of calculating cooling / heating capacity : maximum cooling / heating capacity of outside units = cooling / heating capacity of outside units obtained from capacity table X capacity correction factor due to piping length to the farthest indoor unit
5. Equivalent piping length for Y Branch and other pipes can be calculated with following table.

mm(inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø25.4 (1)	Ø28.58 (1-1/8)	Ø31.8 (1-1/4)	Ø34.9 (1-3/8)	Ø38.1 (1-1/2)	Ø41.3 (1-5/8)	Ø44. (1-3/4
Elbow(m)	0.16	0.18	0.20	0.25	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
Y Branch(m)	0.5												
Header(m)	1												

6. When the any one (or both) of below conditions are satisfied, the diameter of main pipe must be increased.
- The equivalent length between outdoor unit and the farthest indoor unit is 90m or more (Liquid or Gas pipes are increased in accordance with below table)
- The level difference (Outdoor unit <-> Indoor unit) is 50m or more (Only liquid pipe is increased)

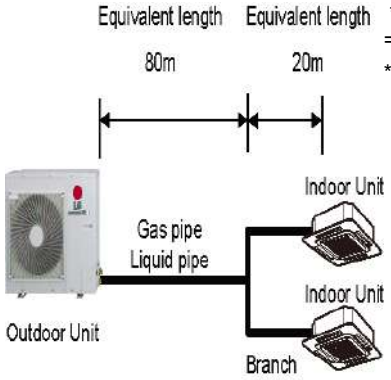
Refer to the table (Refrigerant pipe diameter from outdoor unit to first branch.) in the 'installation of outdoor units' part.

7. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length. : overall equivalent length = (equivalent length of main pipe) X correction factor + (equivalent length after first branching)

Rate of Change (object piping)	Correction factor	
	standard size	size increase

8. Capacity Correction Factor

Cooling(Gas pipe)	1	0.5
Heating(Liquid pipe)	1	0.2



* Overall equivalent length : Cooling : 80m x 0.5 + 20m = 60m / Heating : 80m x 0.2 + 20m = 36m
* The rate of change in
  Cooling capacity is thus approximately 0.93. (when HU = 0m)
  Heating capacity is thus approximately 1.00. (when HU = 0m)

8. Capacity Correction Factor

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0

Level difference (=IDU-ODU) (m)	Capacity correction factor (%) by equivalent pipe length (m)																							
	7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	225
-50	-	-	-	-	-	-	92.0	89.0	89.0	88.0	86.0	85.0	84.0	-	-	-	-	-	-	-	-	-	-	-
-40	-	-	-	-	94.0	93.0	92.0	89.0	89.0	88.0	86.0	85.0	84.0	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	-	94.0	93.0	92.0	90.0	89.0	88.0	86.0	85.0	84.0	-	-	-	-	-	-	-	-	-	-	-
-20	-	-	-	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
-10	-	99.0	98.0	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
-7.5	100.0	99.0	98.0	97.0	94.0	93.0	92.0	90.0	89.0	88.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
0	100.0	99.0	98.0	97.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
7.5	100.0	99.0	98.0	97.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
10	-	99.0	98.0	98.0	94.0	93.0	93.0	90.0	89.0	89.0	86.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	98.0	94.0	94.0	93.0	90.0	89.0	89.0	87.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	95.0	94.0	93.0	90.0	90.0	89.0	87.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	95.0	94.0	93.0	90.0	90.0	89.0	87.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	93.0	91.0	90.0	89.0	87.0	86.0	85.0	-	-	-	-	-	-	-	-	-	-	-

Note

■ These figures indicate the rate of change in capacity of a standard indoor unit system at maximum load under standard conditions.
(Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.)

■ With this outdoor(outside) unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.

■ If heat insulation of piping is insufficient, heat loss will become larger and capacity will decrease.

■ Method of calculating cooling / heating capacity = maximum cooling / heating capacity of outdoor(outside)units
= cooling / heating capacity of outdoor(outside) units obtained from capacity table x capacity correction factor due to piping length to the farthest indoor unit.

■ Equivalent piping length for Y Branch and other pipes can be calculated with following table.

Piping Diameter [mm(inch)]	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø25.4 (1)	Ø28.58 (1-1/8)	Ø31.8 (1-1/4)	Ø34.9 (1-3/8)	Ø38.1 (1-1/2)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
Elbow(m)	0.16	0.18	0.20	0.25	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.85
Y Branch(m)	0.50													
Header(m)	1.00													
HR unit(m)	2.5													

■ When the any one (or both) of below conditions are satisfied, the diameter of main pipe must be increased.
- The equivalent length between outdoor(outside) unit and the farthest indoor unit is 90m or more
(Liquid or Gas pipes are increased in accordance with below table)
- The level difference (outdoor(outside) unit <-> Indoor unit) is 50m or more (Only liquid pipe is increased)
Refer to the table (Refrigerant pipe diameter from outdoor(outside) unit to first branch.) in the 'installation of outdoor(outside) units' part.

■ Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (equivalent length of main pipe) x correction factor + (equivalent length after first branching)

Rate of Change (object piping)	Correction factor			
	standard size	size increase		
		Capacity Class ≤ 34HP	Capacity Class ≤ 60HP	Capacity Class ≥ 62HP
Cooling(Gas pipe)	1	0.5	0.5	-
Heating(Liquid pipe)	1	0.2	0.4	0.4

※ Accordance with product type(operation mode), target region, model line up could be different.
Apply the correction factor after selecting that according to the unit capacity.

■ Calculation Example for overall equivalent length

* Installation condition : Model capacity = 8HP, Main pipe length = 30m, Branch pipe length = 30m, HU=0m
(Maximum pipe length and limit condition will be different by each model. Use this example only for reference.)
: Overall equivalent pipe length for Cooling = 30m x 0.5 + 30m = 45m
: Overall equivalent pipe length for Heating = 30m x 0.2 + 30m = 36m

* The rate of change in
Read the correction factor value condition on length = 45m and HU = 0 in Cooling correction factor table.
Read the correction factor value condition on length = 36m and HU = 0 in Heating correction factor table.

8. Capacity Correction Factor

8.2 Heating Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0

Level difference (=IDU-ODU) (m)	Capacity correction factor (%) by equivalent pipe length (m)																							
	7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	225
-50	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-40	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-20	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-10	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-7.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load under standard conditions. (Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.)
2. With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
3. If heat insulation of piping is insufficient, heat loss will become larger and capacity will decrease.
4. Method of calculating cooling / heating capacity : maximum cooling / heating capacity of outside units = cooling / heating capacity of outside units obtained from capacity table X capacity correction factor due to piping length to the farthest indoor unit
5. Equivalent piping length for Y Branch and other pipes can be calculated with following table.

mm(inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø25.4 (1)	Ø28.58 (1-1/8)	Ø31.8 (1-1/4)	Ø34.9 (1-3/8)	Ø38.1 (1-1/2)	Ø41.3 (1-5/8)	Ø44. (1-3/4
Elbow(m)	0.16	0.18	0.20	0.25	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
Y Branch(m)	0.5												
Header(m)	1												

6. When the any one (or both) of below conditions are satisfied, the diameter of main pipe must be increased.
- The equivalent length between outdoor unit and the farthest indoor unit is 90m or more (Liquid or Gas pipes are increased in accordance with below table)
- The level difference (Outdoor unit <-> Indoor unit) is 50m or more (Only liquid pipe is increased)

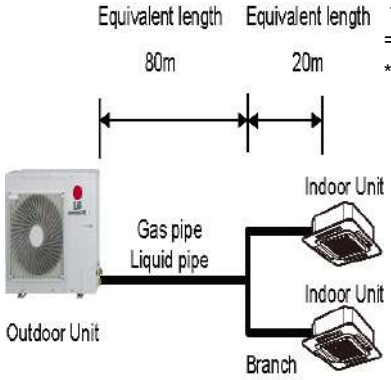
Refer to the table (Refrigerant pipe diameter from outdoor unit to first branch.) in the 'installation of outdoor units' part.

7. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length. : overall equivalent length = (equivalent length of main pipe) X correction factor + (equivalent length after first branching)

Rate of Change (object piping)	Correction factor	
	standard size	size increase

8. Capacity Correction Factor

Cooling(Gas pipe)	1	0.5
Heating(Liquid pipe)	1	0.2



* Overall equivalent length : Cooling : 80m x 0.5 + 20m = 60m / Heating : 80m x 0.2 + 20m = 36m

* The rate of change in

Cooling capacity is thus approximately 0.93. (when HU = 0m)

Heating capacity is thus approximately 1.00. (when HU = 0m)

8. Capacity Correction Factor

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0

Level difference (=IDU-ODU) (m)	Capacity correction factor (%) by equivalent pipe length (m)																							
	7.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	225
-50	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-40	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-20	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-10	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-7.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note

■ These figures indicate the rate of change in capacity of a standard indoor unit system at maximum load under standard conditions.
(Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.)

■ With this outdoor(outside) unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.

■ If heat insulation of piping is insufficient, heat loss will become larger and capacity will decrease.

■ Method of calculating cooling / heating capacity = maximum cooling / heating capacity of outdoor(outside)units
= cooling / heating capacity of outdoor(outside) units obtained from capacity table x capacity correction factor due to piping length to the farthest indoor unit.

■ Equivalent piping length for Y Branch and other pipes can be calculated with following table.

Piping Diameter [mm(inch)]	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø25.4 (1)	Ø28.58 (1-1/8)	Ø31.8 (1-1/4)	Ø34.9 (1-3/8)	Ø38.1 (1-1/2)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
Elbow(m)	0.16	0.18	0.20	0.25	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.85
Y Branch(m)	0.50													
Header(m)	1.00													
HR unit(m)	2.5													

■ When the any one (or both) of below conditions are satisfied, the diameter of main pipe must be increased.
- The equivalent length between outdoor(outside) unit and the farthest indoor unit is 90m or more
(Liquid or Gas pipes are increased in accordance with below table)
- The level difference (outdoor(outside) unit <-> Indoor unit) is 50m or more (Only liquid pipe is increased)
Refer to the table (Refrigerant pipe diameter from outdoor(outside) unit to first branch.) in the 'installation of outdoor(outside) units' part.

■ Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (equivalent length of main pipe) x correction factor + (equivalent length after first branching)

Rate of Change (object piping)	Correction factor			
	standard size	size increase		
		Capacity Class ≤ 34HP	Capacity Class ≤ 60HP	Capacity Class ≥ 62HP
Cooling(Gas pipe)	1	0.5	0.5	-
Heating(Liquid pipe)	1	0.2	0.4	0.4

※ Accordance with product type(operation mode), target region, model line up could be different.
Apply the correction factor after selecting that according to the unit capacity.

■ Calculation Example for overall equivalent length

* Installation condition : Model capacity = 8HP, Main pipe length = 30m, Branch pipe length = 30m, HU=0m
(Maximum pipe length and limit condition will be different by each model. Use this example only for reference.)
: Overall equivalent pipe length for Cooling = 30m x 0.5 + 30m = 45m
: Overall equivalent pipe length for Heating = 30m x 0.2 + 30m = 36m

* The rate of change in
Read the correction factor value condition on length = 45m and HU = 0 in Cooling correction factor table.
Read the correction factor value condition on length = 36m and HU = 0 in Heating correction factor table.

Defrosting Correction Factor for Heating Operation

The capacity table does not consider reduction in capacity when frost has accumulated or during defrosting.
The capacity values considered these factors, in other words the integrated heating capacity values, can be obtained as follows:
1.Fomula
■ Integrated heating capacity = A

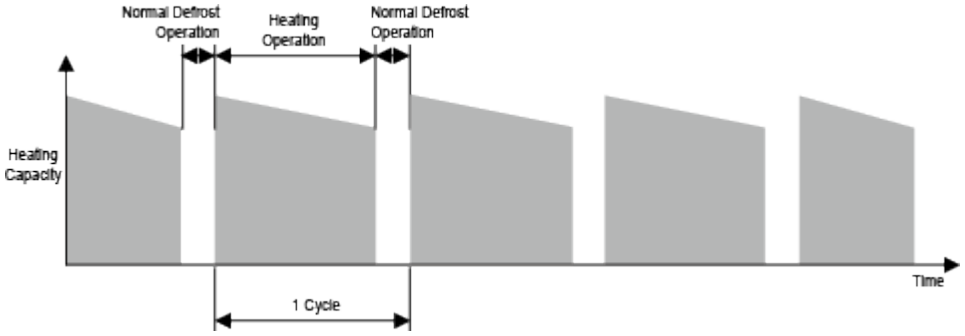
8. Capacity Correction Factor

- Value given in table of capacity characteristics = B
- Integrated correction factor for frost accumulation = C
- A = B x C

2. Correction Factor for Finding Integrated Heating Capacity

Integrated Correction Factor for Frost Accumulation	Inlet Air Temperature of Heat Exchanger (°C,RH 85%)						
	-7	-5	-3	0	3	5	7
Normal Defrost Operation	0.98	0.95	0.93	0.86	0.93	0.96	1.0

■ Normal Defrost Operation

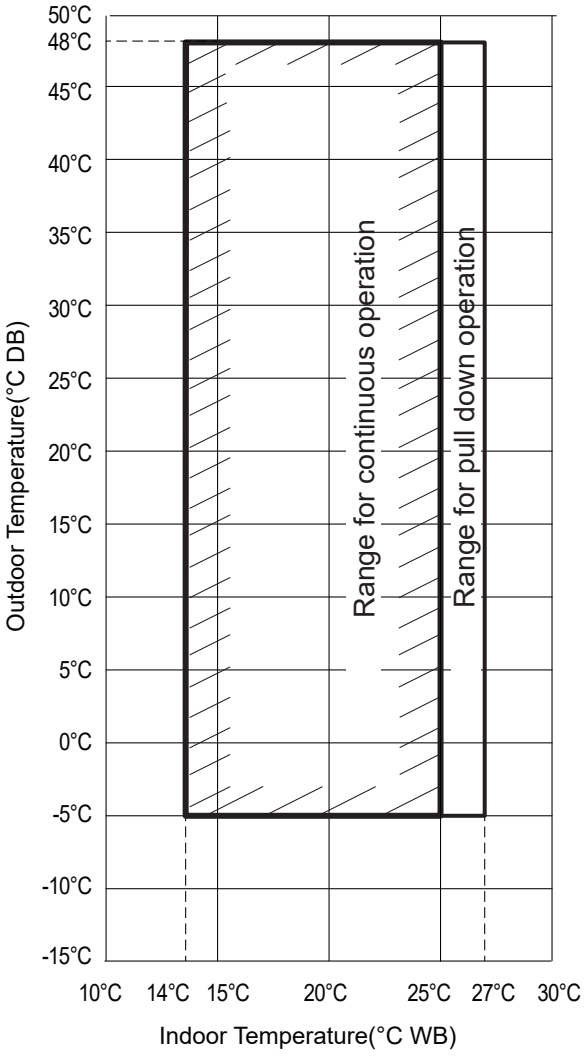


Please note that there will be temporary reduction in capacity when snow piles up on the outside surface of the heat exchanger.
Of course, it will be different in degree depending on a number of other factors, for example, the outdoor temperature(°CDB), the relative humidity(RH) and the frosting amount.

9. Operation Limits

9.1 Cooling Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0

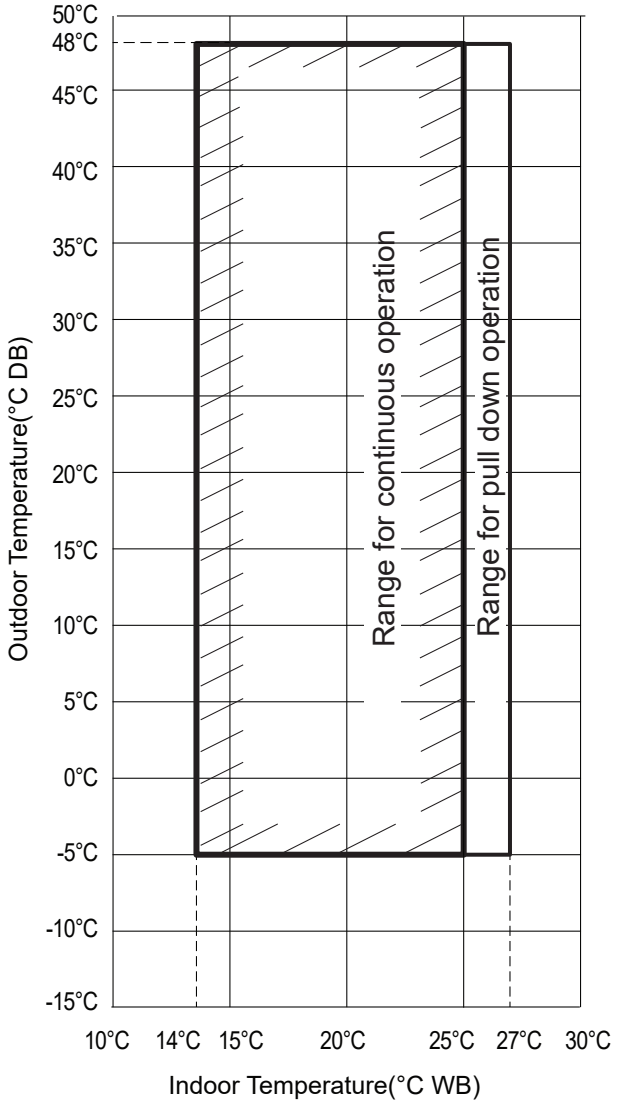


Note

- These figures assume the following operating conditions
  : Equivalent piping length is standard condition, and level differenc is 0m.
- Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
- Warming up operation means that the outdoor(outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

9. Operation Limits

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0



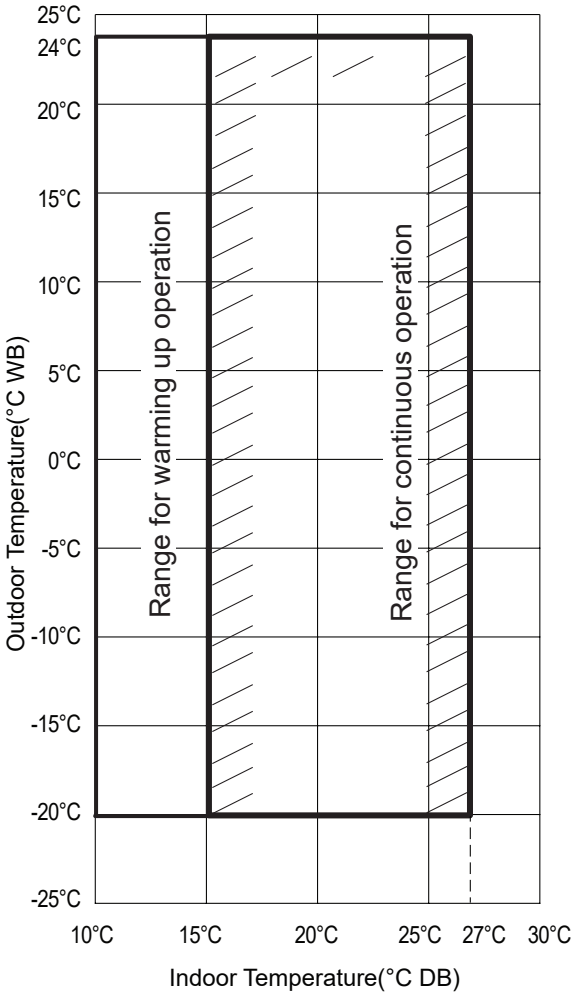
Note

- These figures assume the following operating conditions
  : Equivalent piping length is standard condition, and level differenc is 0m.
- Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
- Warming up operation means that the outdoor(outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

9. Operation Limits

9.2 Heating Operation

ZRUN030GSS0, ZRUN030LSS0, ZRUN040GSS0, ZRUN040LSS0, ZRUN050GSS0, ZRUN050LSS0, ZRUN060GSS0, ZRUN060LSS0

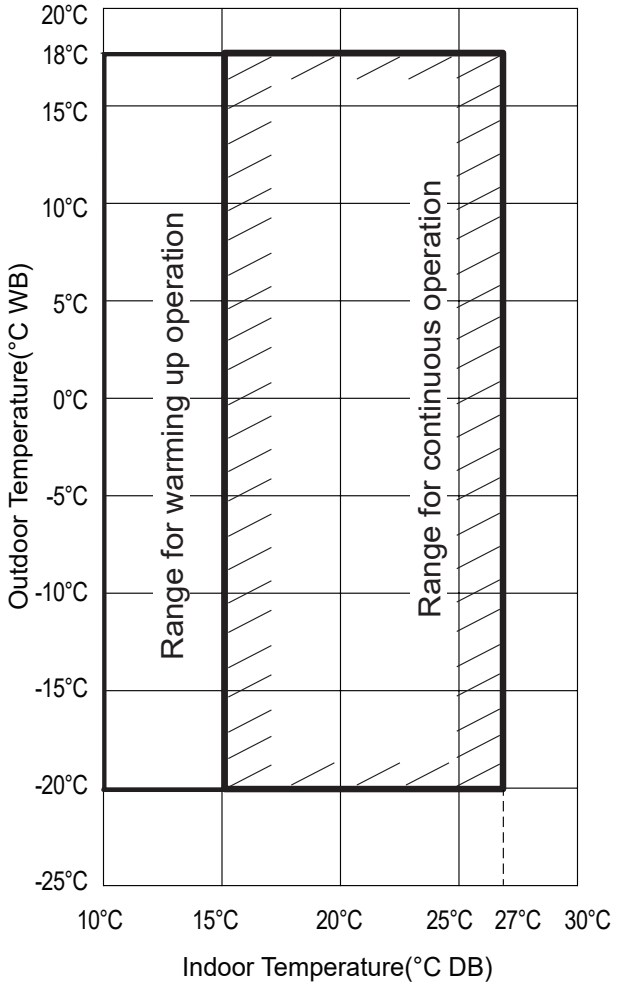


Note

- These figures assume the following operating conditions
  : Equivalent piping length is standard condition, and level differenc is 0m.
- Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
- Warming up operation means that the outdoor(outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

9. Operation Limits

ZRUN080LSS0, ZRUN100LSS0, ZRUN120LSS0



Note

■ These figures assume the following operating conditions
: Equivalent piping length is standard condition, and level differenc is 0m.

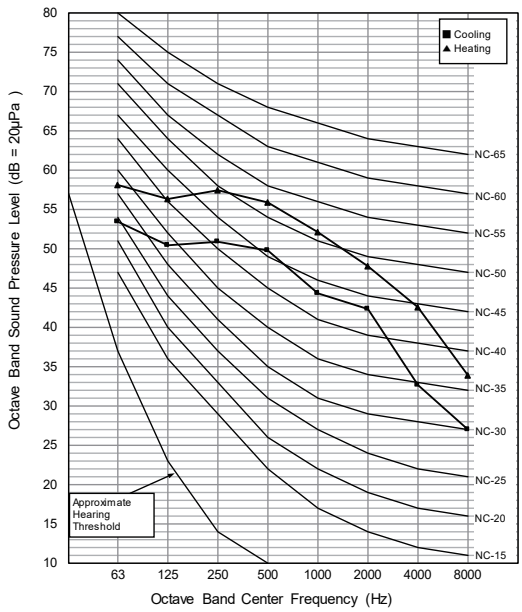
■ Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.

■ Warming up operation means that the outdoor(outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

10. Sound Levels

10.1 Pressure Levels

ZRUN030GSS0, ZRUN030LSS0

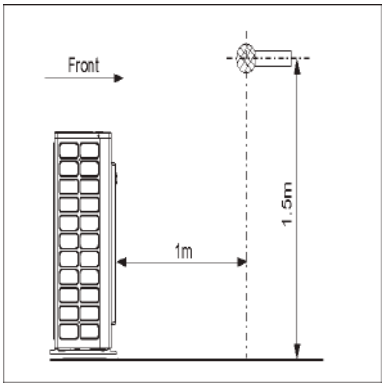


Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1-op3, op10	48.0	52.0	90	90
op4-op6, op11	47.0	51.0	80	80
op7-op9, op12	46.0	50.0	75	75

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	51.0 / 55.0

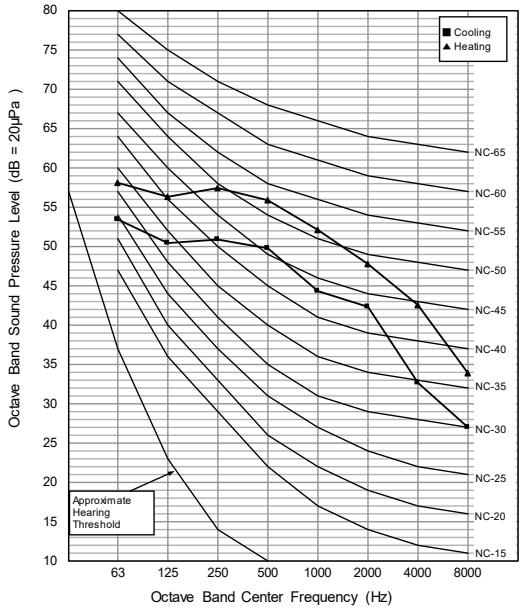
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition. Refer to the model specifications for nominal coditions.(Power source and Ambient temperature, etc)
- Reference accoustic pressure 0dB = 20μPa.
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 Standard. Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN040GSS0, ZRUN040LSS0

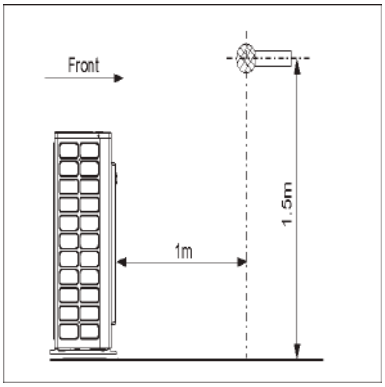


Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	48.0	52.0	80	80
op4~op6, op11	47.0	51.0	70	70
op7~op9, op12	46.0	50.0	65	65

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	51.0 / 55.0

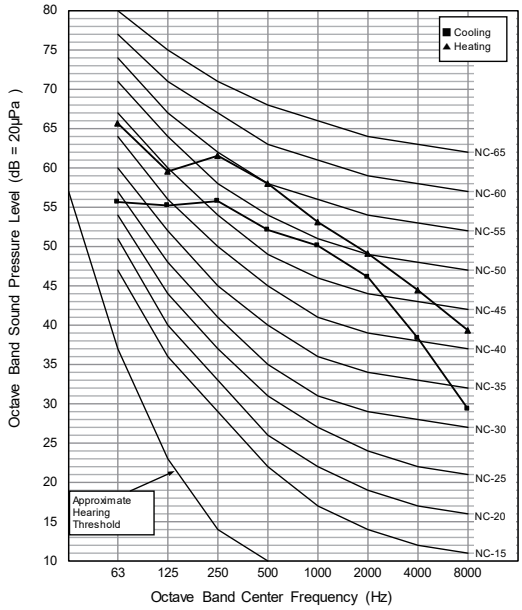
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition. Refer to the model specifications for nominal coditions.(Power source and Ambient temperature, etc)
- Reference accoustic pressure 0dB = 20μPa.
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 Standard. Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN050GSS0, ZRUN050LSS0

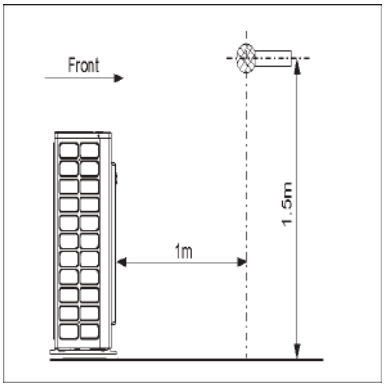


Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	51.0	54.0	70	70
op4~op6, op11	50.0	53.0	65	65
op7~op9, op12	49.0	52.0	60	60

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	57.0 / 60.0

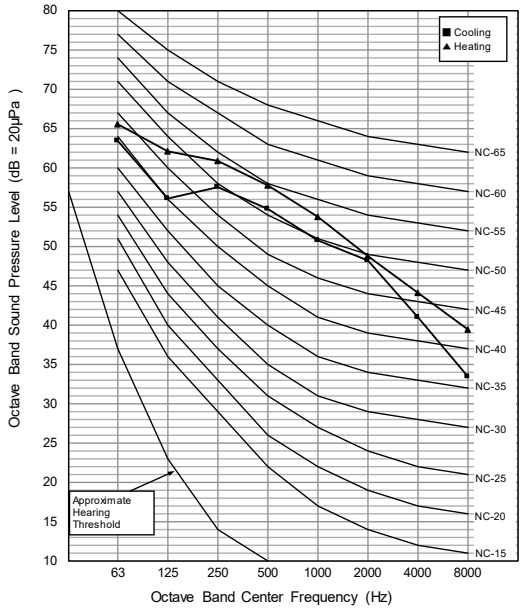
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition. Refer to the model specifications for nominal coditions.(Power source and Ambient temperature, etc)
- Reference accoustic pressure 0dB = 20μPa.
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 Standard. Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN060GSS0, ZRUN060LSS0

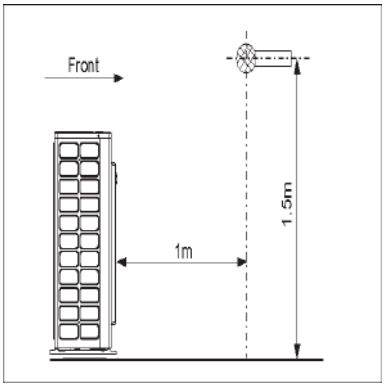


Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	51.0	54.0	65	65
op4~op6, op11	50.0	53.0	60	60
op7~op9, op12	49.0	52.0	55	55

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	57.0 / 60.0

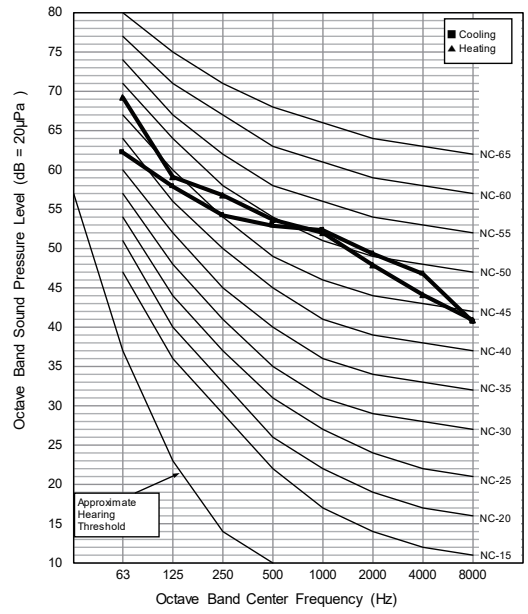
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition. Refer to the model specifications for nominal coditions.(Power source and Ambient temperature, etc)
- Reference accoustic pressure 0dB = 20μPa.
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 Standard. Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN080LSS0



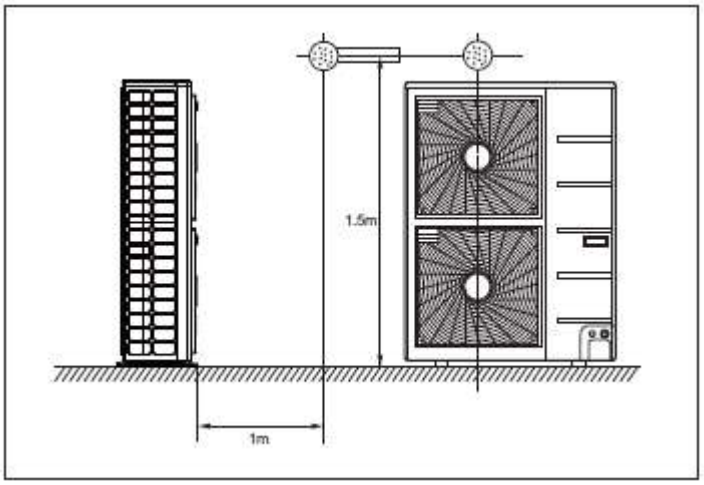
Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	62.2	57.8	54.2	52.8	52.3	49.3	46.7	40.6	*57.0*
Heating [dB]	69.2	59.1	56.8	53.7	52.0	47.9	44.1	40.9	*57.0*

Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	51.0	51.0	65	65
op4~op6, op11	50.0	50.0	60	60
op7~op9, op12	49.0	49.0	55	55

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	57.0 / 57.0

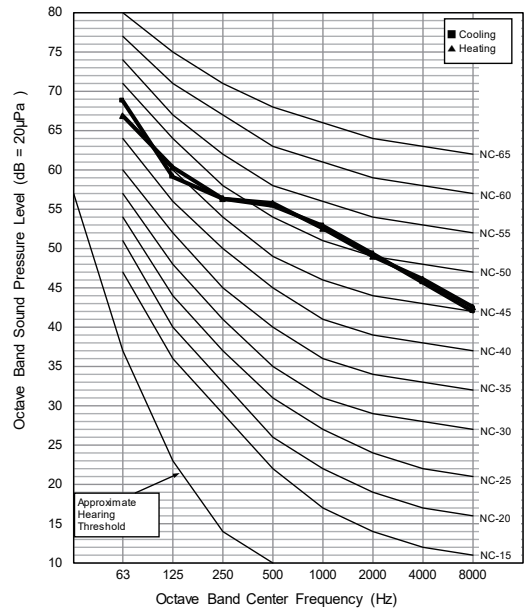
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference accoustic pressure 0dB = 20μPa.
- Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
  Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN100LSS0



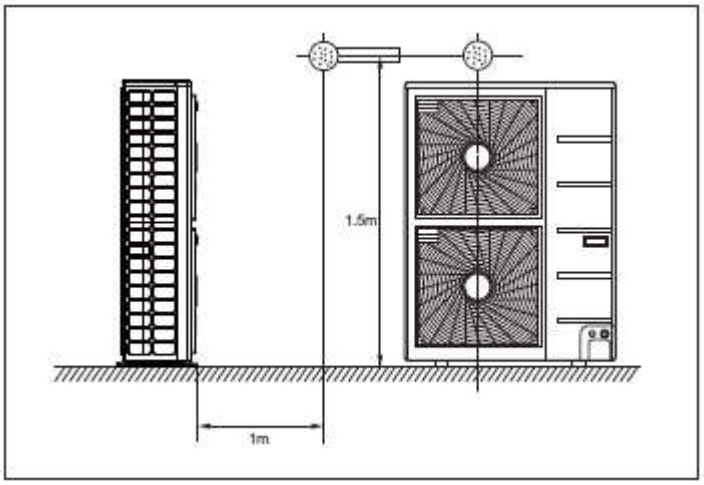
Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	68.8	59.1	56.3	55.5	52.9	49.3	45.7	42.0	*58.0*
Heating [dB]	66.9	60.3	56.3	55.8	52.6	49.0	46.1	42.6	*58.0*

Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	56.0	56.0	75	75
op4~op6, op11	55.5	55.5	70	70
op7~op9, op12	55.0	55.0	60	60

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	58.0 / 58.0

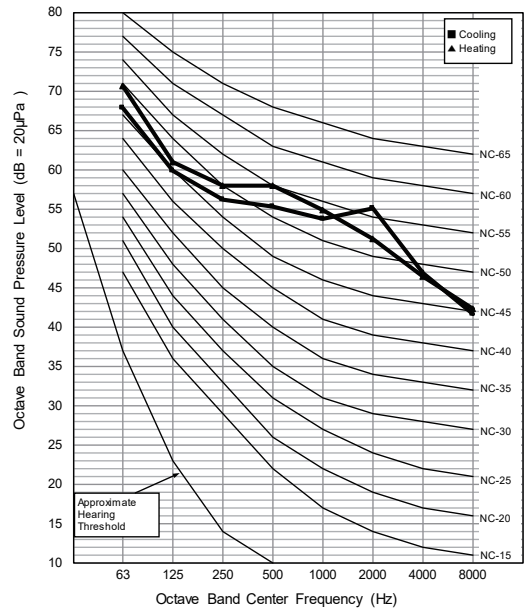
Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference accoustic pressure 0dB = 20μPa.
- Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

ZRUN120LSS0



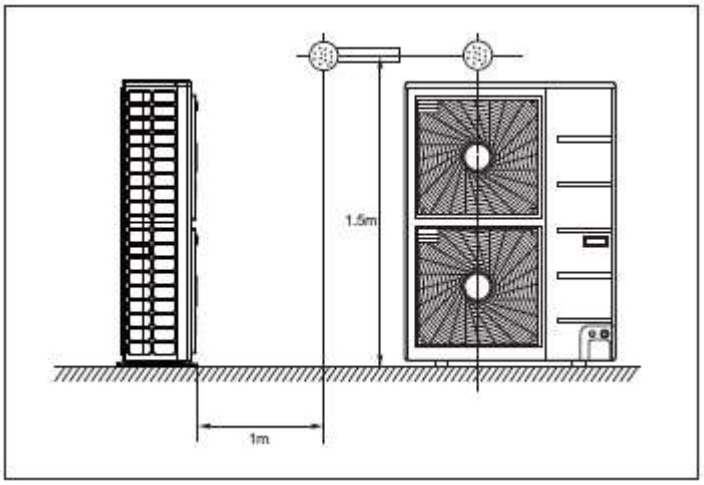
Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	67.9	59.9	56.2	55.4	53.8	55.1	46.9	41.7	*60.0*
Heating [dB]	70.6	60.9	57.9	58.0	54.8	51.2	46.4	42.3	*60.0*

Night Low Noise Control				
Dip Switch	SPL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	56.0	56.0	55	55
op4~op6, op11	55.5	55.5	50	50
op7~op9, op12	55.0	55.0	45	45

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	60.0 / 60.0

Note

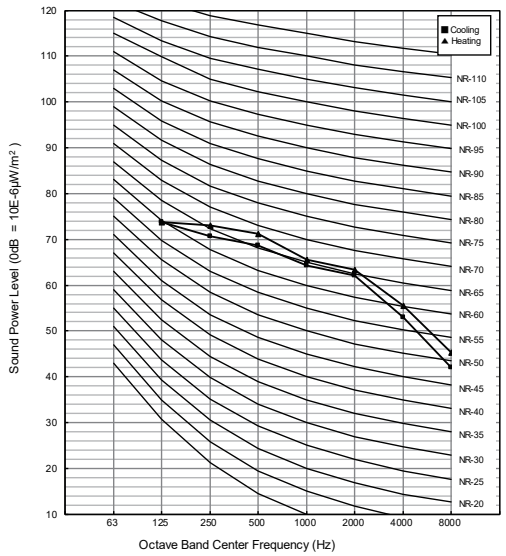
- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference accoustic pressure 0dB = 20μPa.
- Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
  Therefore, these values can be increased owing to ambient conditions during operation.



10. Sound Levels

10.2 Power Levels

ZRUN030GSS0, ZRUN030LSS0



Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	64.0	67.0	90	90
op4~op6, op11	63.0	66.0	80	80
op7~op9, op12	62.0	65.0	75	75

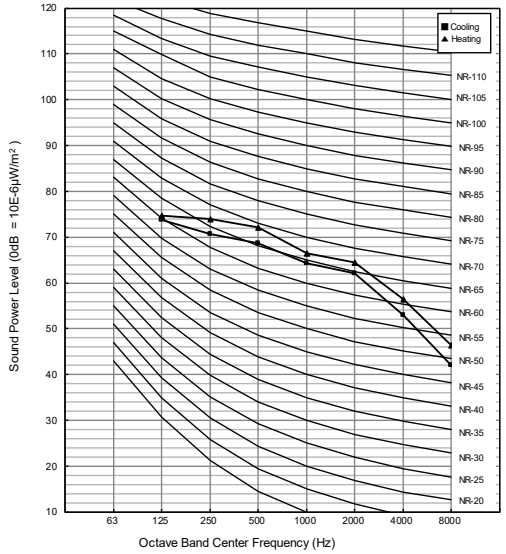
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	67.0 / 70.0

Notes

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m^2.
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN040GSS0, ZRUN040LSS0



Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	64.0	68.0	80	80
op4~op6, op11	63.0	67.0	70	70
op7~op9, op12	62.0	66.0	65	65

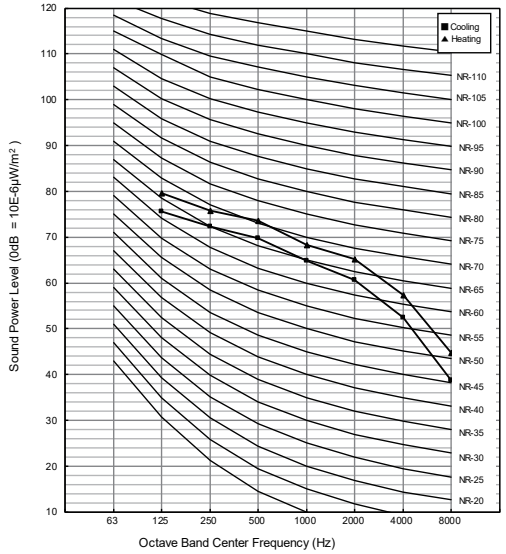
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	67.0 / 71.0

Notes

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m^2.
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN050GSS0, ZRUN050LSS0



Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1-op3, op10	64.0	68.0	70	70
op4-op6, op11	63.0	67.0	65	65
op7-op9, op12	62.0	66.0	60	60

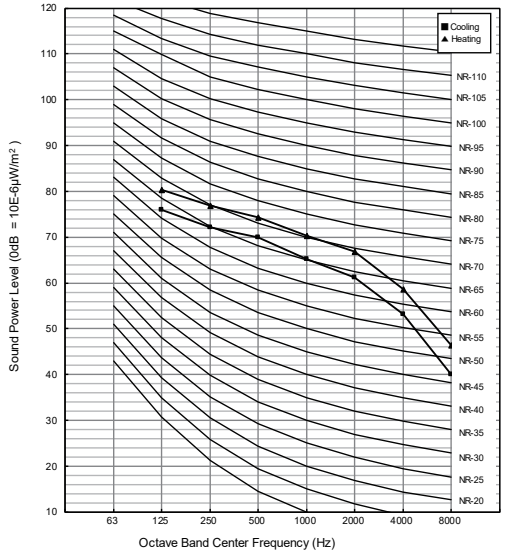
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	70.0 / 74.0

Notes

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m^2.
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN060GSS0, ZRUN060LSS0



Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	65.0	69.0	65	65
op4~op6, op11	64.0	68.0	60	60
op7~op9, op12	63.0	67.0	55	55

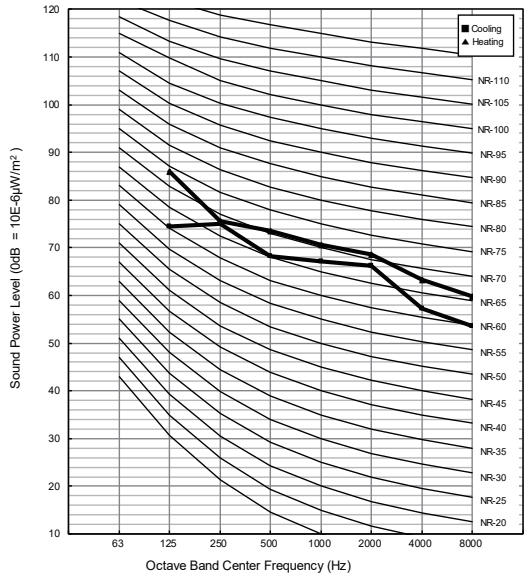
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	71.0 / 75.0

Notes

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m^2.
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN080LSS0



Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	-	74.4	75.0	68.3	67.1	66.3	57.2	53.6	*73.0*
Heating [dB]	-	85.9	75.5	73.6	70.6	68.5	63.3	59.8	*77.0*

Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	67.0	71.0	65	65
op4~op6, op11	66.0	70.0	60	60
op7~op9, op12	65.0	69.0	55	55

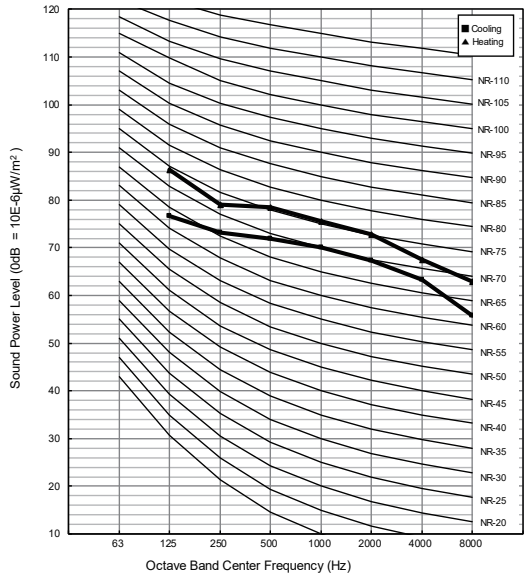
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	73.0 / 77.0

Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m2
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN100LSS0



Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	-	76.6	73.1	71.9	70.0	67.3	63.2	55.8	*75.0*
Heating [dB]	-	86.4	79.0	78.5	75.6	72.8	67.5	62.9	*81.0*

Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	73.0	79.0	75	75
op4~op6, op11	72.5	78.5	70	70
op7~op9, op12	72.0	78.0	60	60

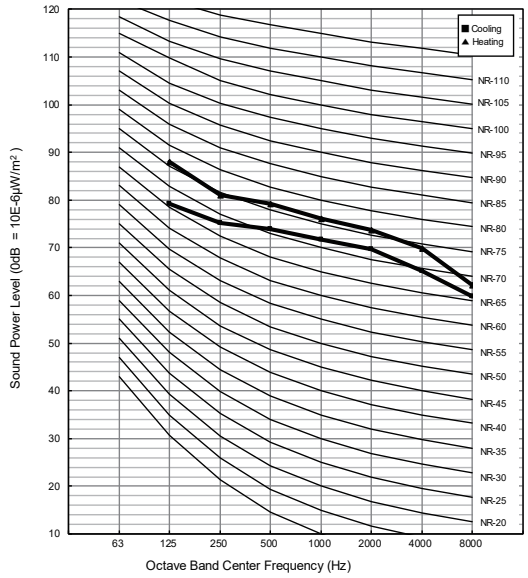
Sound level [dB(A), @ Standard condition]	
Cooling / Heating	75.0 / 81.0

Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m2
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

10. Sound Levels

ZRUN120LSS0



Octave Band [Hz]	63	125	250	500	1000	2000	4000	8000	*Overall [dB(A)]*
Cooling [dB]	-	79.2	75.1	73.8	71.6	69.7	65.1	59.7	*77.0*
Heating [dB]	-	88.0	81.0	79.3	76.1	73.7	69.9	62.2	*82.0*

Night Low Noise Control				
Dip Switch	PWL [dB(A)]		Capacity [%]	
	Cool	Heat	Cool	Heat
op1~op3, op10	73.0	78.0	55	55
op4~op6, op11	72.5	77.5	50	50
op7~op9, op12	72.0	77.0	45	45

Sound level [dB(A), @ Standard condition]	
Cooling / Heating	77.0 / 82.0

Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic intensity 0dB = 10E-6μW/m2
- Refer to the Model Specifications for nominal conditions. (Power source and Ambient temperature, etc)
- Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
- Sound levels can be increased in accordance with installation and operating conditions.
  (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

Accessory

SV Unit

SV Unit

1. Specifications
2. Dimensions
3. Parts Function
4. Piping Diagrams
5. Wiring Diagrams

1. Specifications

1.1 Product

PRHPZ010

Category		Unit	Specification
Major	**Minor**		
Connectable Indoor Units	Number of Indoor Units	EA	8
	Maximum capacity index	kBtu/h	-
Connectable Indoor Units of each branch	Number of Indoor Units	EA	8
	Maximum capacity index	kBtu/h	-
Input(Nominal)	Cooling	W	30
	Heating	W	30
Weight	Net	kg	6.75
	Shipping	kg	8.8
Dimensions	Net(W x H x D)	mm	587 x 223 x 290
	Net(W x H x D)(Not include pipe)	mm	330 x 223 x 290
	Shipping(W x H x D)	mm	674 x 303 x 369
Casing	-	-	Galvanized steel plate
Refrigerant piping diameter (To indoor Unit)	Liquid Pipe(Ø)	mm(inch)	Ø9.52(3/8) ~ Ø6.35(1/4)
	Gas Pipe(Ø)	mm(inch)	Ø15.88(5/8) ~ Ø12.7(1/2)
Refrigerant piping diameter (To outdoor unit)	Liquid(Ø)	mm(inch)	Ø9.52(3/8)
	Gas(Ø)	mm(inch)	Ø15.88(5/8)
Sound Absorbing Insulation Material	-	-	-
Current	Minimum Circuit Amps(MCA)	-	0.5
	Maximum Fuse Amps(MFA)	-	15
Power Supply	Case 1	-	220-230-240, 1, 50 / 220, 1, 60
	Voltage Range	V	198 ~ 264

Note

- Use appropriate power source refer to national standard.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA = 1.25 x FLA, MFA = 1.1 x MCA
  If MFA is smaller than minimum standard value, Use minimum standard value in region for selecting circuit breaker.
- Select wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
  Circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

1. Specifications

PRHPZ020

Category		Unit	Specification
Major	Minor		
Connectable Indoor Units	Number of Indoor Units	EA	16
	Maximum capacity index	kBtu/h	-
Connectable Indoor Units of each branch	Number of Indoor Units	EA	8
	Maximum capacity index	kBtu/h	-
Input(Nominal)	Cooling	W	49.2
	Heating	W	46.6
Weight	Net	kg	19.1
	Shipping	kg	25.4
Dimensions	Net(W x H x D)	mm	953 x 270 x 625.3
	Net(W x H x D)(Not include pipe)	mm	659 x 270 x 496
	Shipping(W x H x D)	mm	1,077 x 348 x 759
Casing	-	-	Galvanized steel plate
Refrigerant piping diameter (To indoor Unit)	Liquid Pipe(Ø)	mm(inch)	Ø9.52(3/8) ~ Ø6.35(1/4)
	Gas Pipe(Ø)	mm(inch)	Ø15.88(5/8) ~ Ø12.7(1/2)
Refrigerant piping diameter (To outdoor unit)	Liquid(Ø)	mm(inch)	Ø9.52(3/8)
	Gas(Ø)	mm(inch)	Ø22.2(7/8)
Sound Absorbing Insulation Material	-	-	-
Current	Minimum Circuit Amps(MCA)	-	0.875
	Maximum Fuse Amps(MFA)	-	15
Power Supply	Case 1	-	220-230-240, 1, 50 / 220, 1, 60
	Voltage Range	V	198 ~ 264

Note

- Use appropriate power source refer to national standard.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA = 1.25 x FLA, MFA = 1.1 x MCA
  If MFA is smaller than minimum standard value, Use minimum standard value in region for selecting circuit breaker.
- Select wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
  Circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

1. Specifications

PRHPZ030

Category		Unit	Specification
Major	**Minor**		
Connectable Indoor Units	Number of Indoor Units	EA	24
	Maximum capacity index	kBtu/h	-
Connectable Indoor Units of each branch	Number of Indoor Units	EA	8
	Maximum capacity index	kBtu/h	-
Input(Nominal)	Cooling	W	49.2
	Heating	W	46.6
Weight	Net	kg	20.6
	Shipping	kg	27.1
Dimensions	Net(W x H x D)	mm	953 x 270 x 625.3
	Net(W x H x D)(Not include pipe)	mm	659 x 270 x 496
	Shipping(W x H x D)	mm	1,077 x 348 x 759
Casing	-	-	Galvanized steel plate
Refrigerant piping diameter (To indoor Unit)	Liquid Pipe(Ø)	mm(inch)	Ø9.52(3/8) ~ Ø6.35(1/4)
	Gas Pipe(Ø)	mm(inch)	Ø15.88(5/8) ~ Ø12.7(1/2)
Refrigerant piping diameter (To outdoor unit)	Liquid(Ø)	mm(inch)	Ø12.7(1/2)
	Gas(Ø)	mm(inch)	Ø28.58(1-1/8)
Sound Absorbing Insulation Material	-	-	-
Current	Minimum Circuit Amps(MCA)	-	0.875
	Maximum Fuse Amps(MFA)	-	15
Power Supply	Case 1	-	220-230-240, 1, 50 / 220, 1, 60
	Voltage Range	V	198 ~ 264

Note

- Use appropriate power source refer to national standard.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA = 1.25 x FLA, MFA = 1.1 x MCA
  If MFA is smaller than minimum standard value, Use minimum standard value in region for selecting circuit breaker.
- Select wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
  Circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

1. Specifications

PRHPZ040

Category		Unit	Specification
Major	Minor		
Connectable Indoor Units	Number of Indoor Units	EA	32
	Maximum capacity index	kBtu/h	-
Connectable Indoor Units of each branch	Number of Indoor Units	EA	8
	Maximum capacity index	kBtu/h	-
Input(Nominal)	Cooling	W	49.2
	Heating	W	46.6
Weight	Net	kg	21.8
	Shipping	kg	28.3
Dimensions	Net(W x H x D)	mm	953 x 270 x 625.3
	Net(W x H x D)(Not include pipe)	mm	659 x 270 x 496
	Shipping(W x H x D)	mm	1,077 x 348 x 759
Casing	-	-	Galvanized steel plate
Refrigerant piping diameter (To indoor Unit)	Liquid Pipe(Ø)	mm(inch)	Ø9.52(3/8) ~ Ø6.35(1/4)
	Gas Pipe(Ø)	mm(inch)	Ø15.88(5/8) ~ Ø12.7(1/2)
Refrigerant piping diameter (To outdoor unit)	Liquid(Ø)	mm(inch)	Ø15.88(5/8)
	Gas(Ø)	mm(inch)	Ø28.58(1-1/8)
Sound Absorbing Insulation Material	-	-	-
Current	Minimum Circuit Amps(MCA)	-	0.875
	Maximum Fuse Amps(MFA)	-	15
Power Supply	Case 1	-	220-230-240, 1, 50 / 220, 1, 60
	Voltage Range	V	198 ~ 264

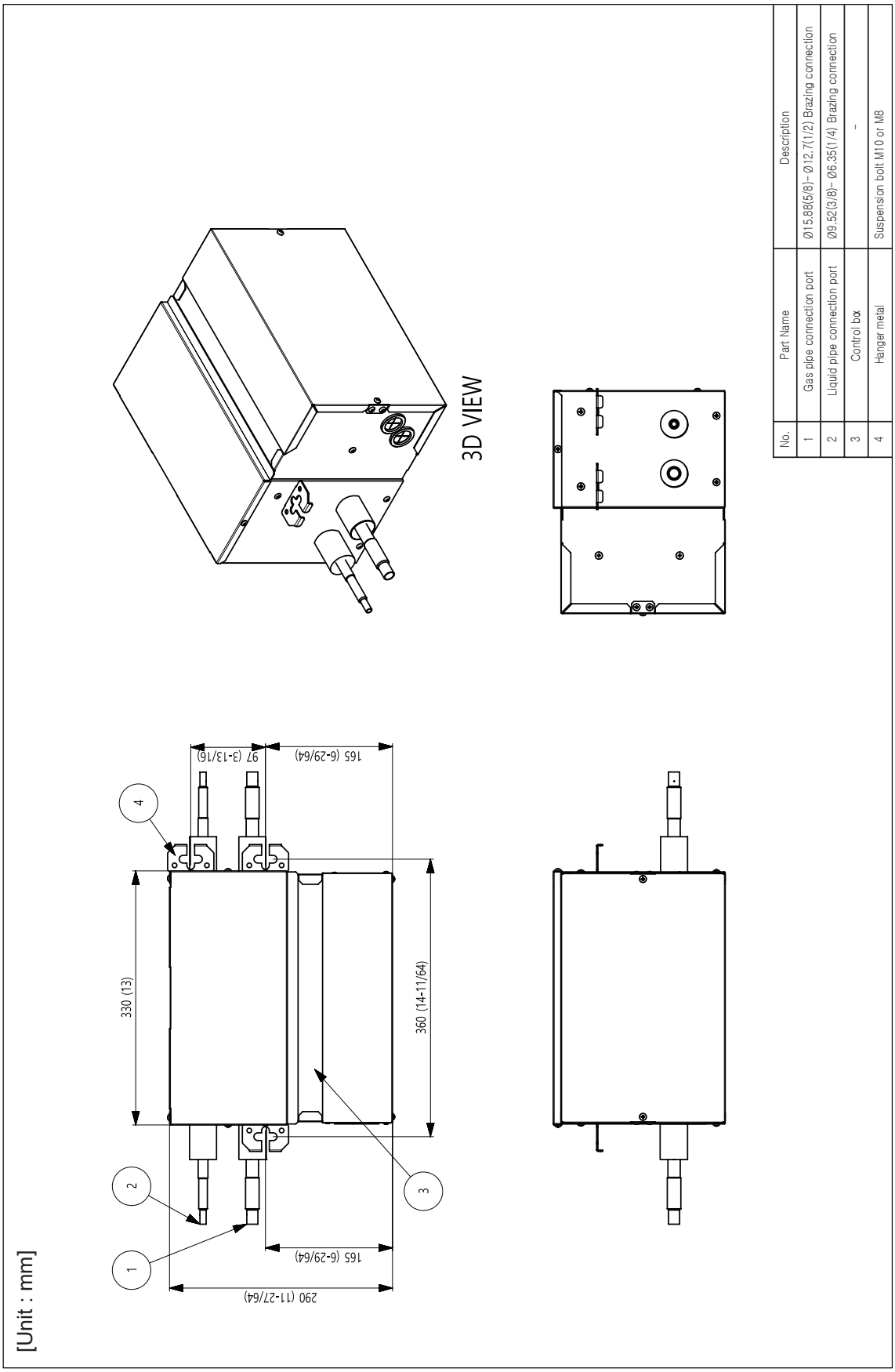
Note

- Use appropriate power source refer to national standard.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA = 1.25 x FLA, MFA = 1.1 x MCA
  If MFA is smaller than minimum standard value, Use minimum standard value in region for selecting circuit breaker.
- Select wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.
  Circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

2. Dimensions

2.1 Dimensional Drawing

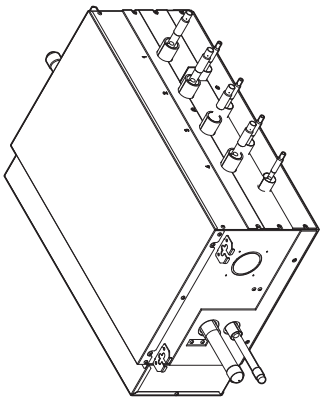
PRHPZ010



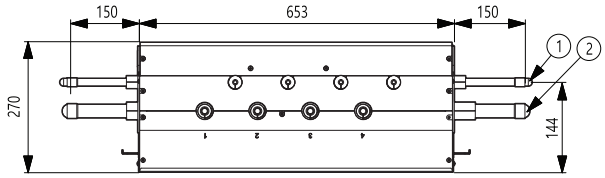
No.	Part Name	Description
1	Gas pipe connection port	Ø15.88(5/8)~ Ø12.7(1/2) Brazing connection
2	Liquid pipe connection port	Ø9.52(3/8)~ Ø6.35(1/4) Brazing connection
3	Control box	-
4	Hanger metal	Suspension bolt M10 or M8

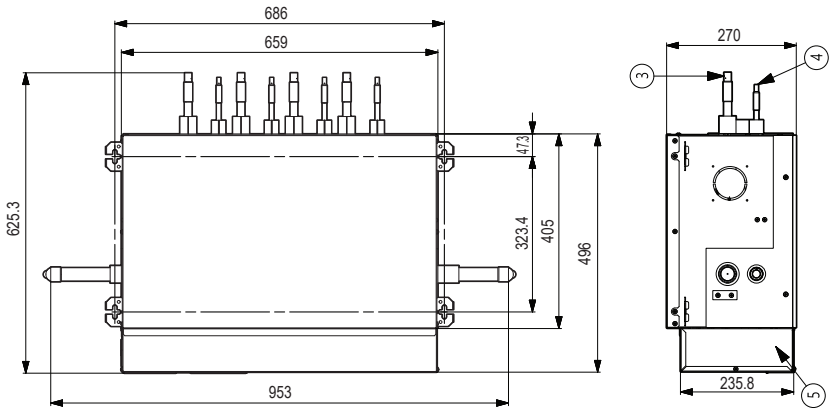
2. Dimensions

PRHPZ020, PRHPZ030, PRHPZ040



No.	Part Name	Description	2 port	3 port	4 port
5	Control box	-	-		
4	Liquid pipe to Indoor unit	-	Ø 9.52	-	Ø 6.35
3	Gas pipe to Indoor unit	-	Ø 15.88	-	Ø 12.7
2	Low pressure gas pipe	-	Ø 22.2	Ø 28.58	Ø 28.58
1	Liquid pipe to Outdoor unit	-	Ø 9.52	Ø 12.7	Ø 15.88





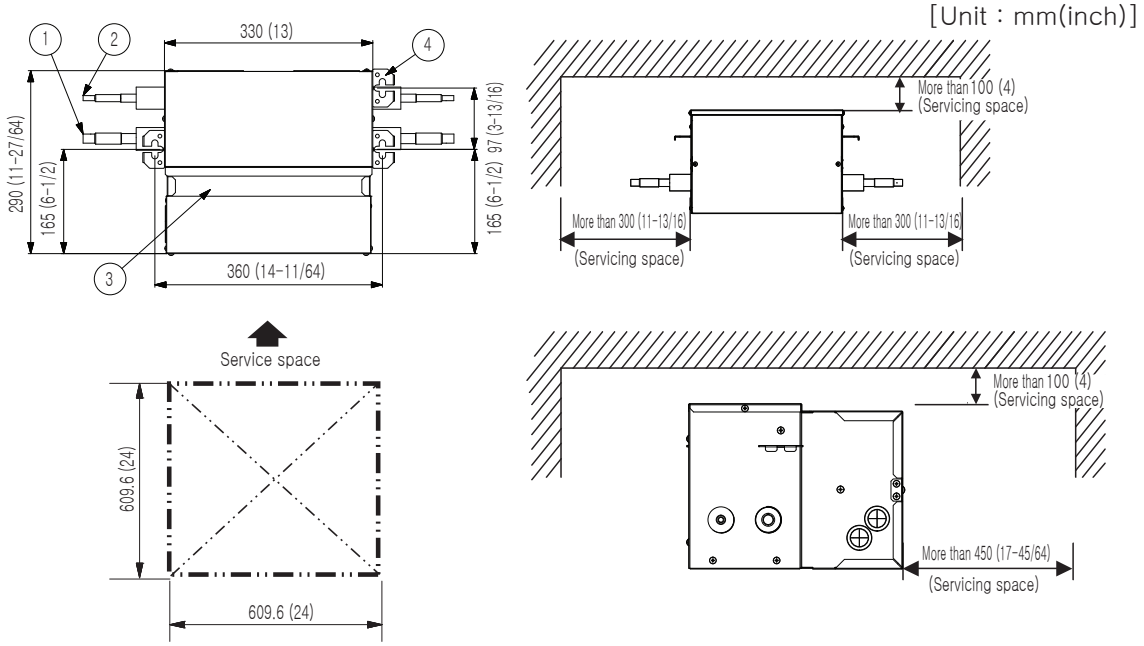
[Unit : mm]

2. Dimensions

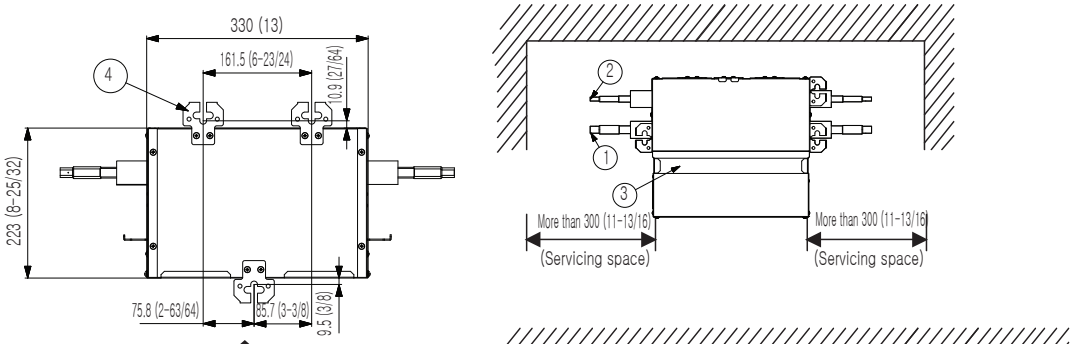
2.2 Installation Space

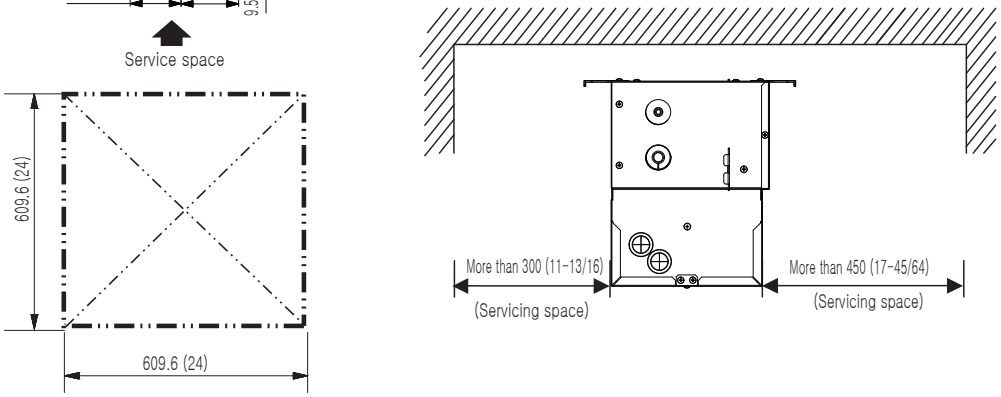
PRHPZ010

[Unit : mm(inch)]



* When the SV Kit is rotated 90 degrees to install





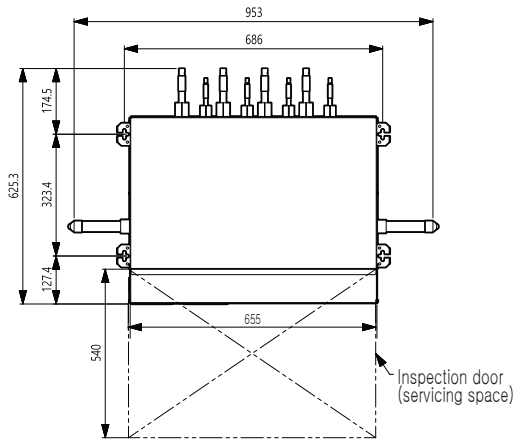
Note

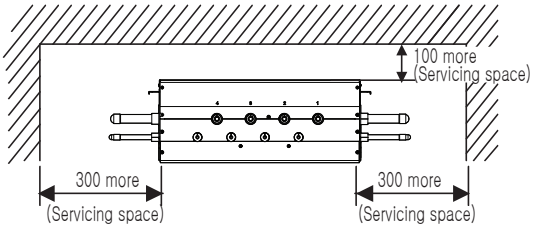
■ Be sure to install the inspection door at the electric control side.

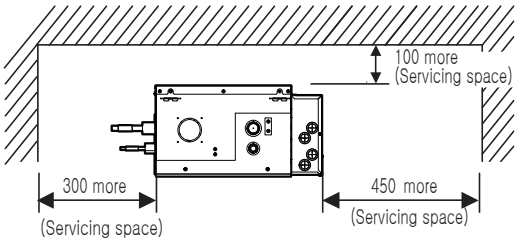
2. Dimensions

PRHPZ020, PRHPZ030, PRHPZ040

[Unit : mm]







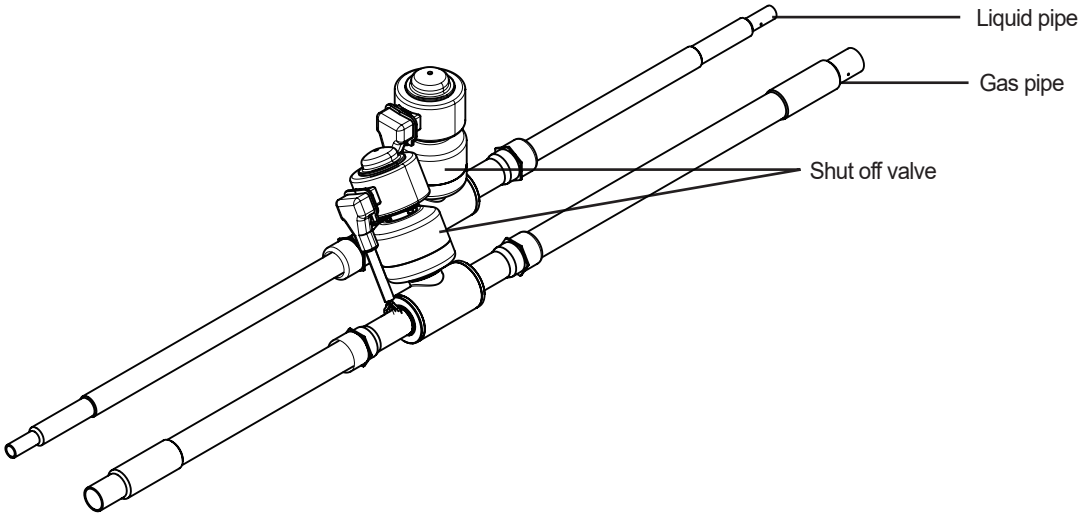
Note

■ Be sure to install the inspection door at the electric control side.

3. Parts Function

PRHPZ010

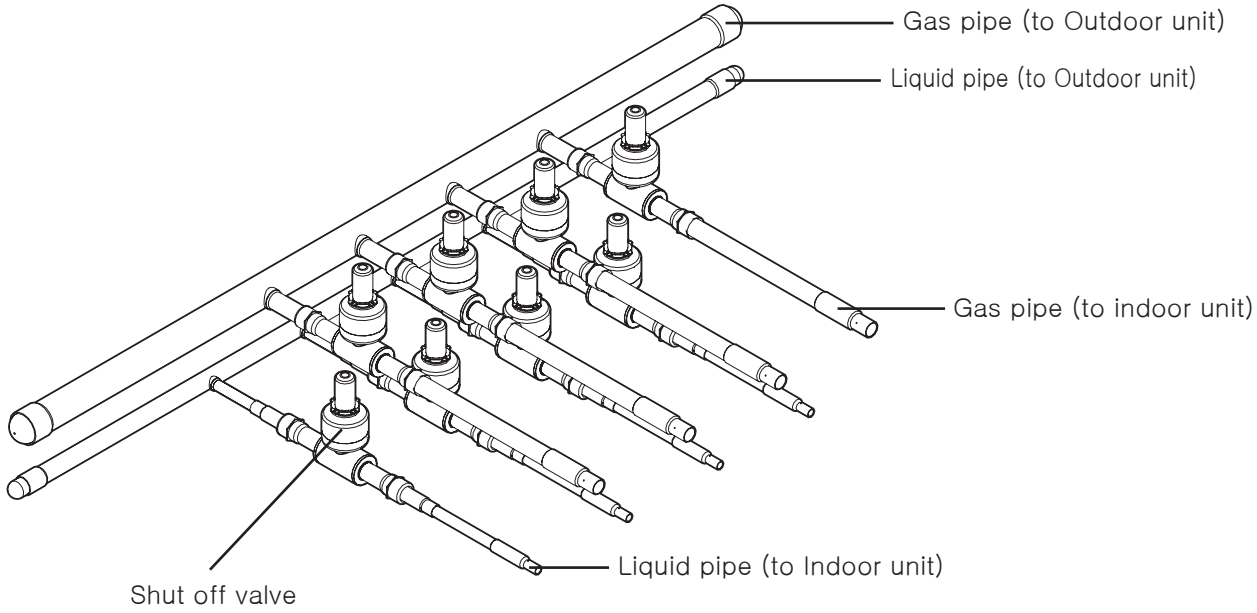
Parts name	Major function
Liquid pipe	Pipe for liquid
Gas pipe	Pipe for gas
Shut off valve	Refrigerant leakage blocking



3. Parts Function

PRHPZ020, PRHPZ030, PRHPZ040

Parts name	Major function
Gas pipe (to Outdoor unit)	Gas pipe connected with outdoor unit
Liquid pipe (to Outdoor unit)	Liquid pipe connected with outdoor unit
Gas pipe	Gas pipe connected with indoor unit
Liquid pipe (to Indoor unit)	Liquid pipe connected with indoor unit
Shut off valve	Refrigerant leakage blocking

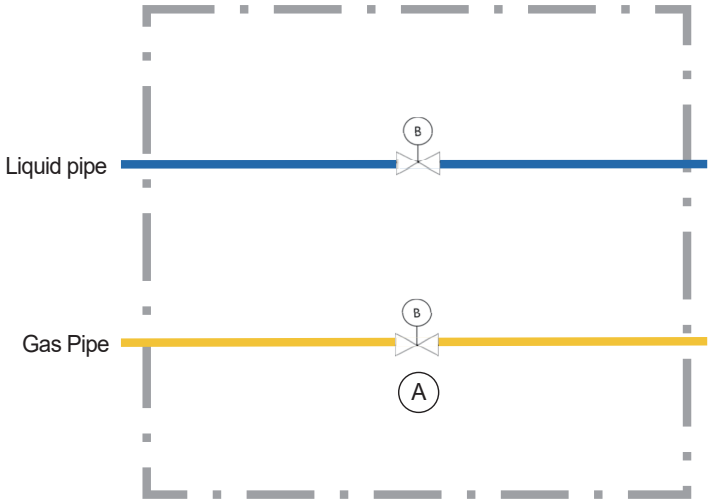


[PRHPZ040]

4. Piping Diagrams

4.1 Normal

PRHPZ010

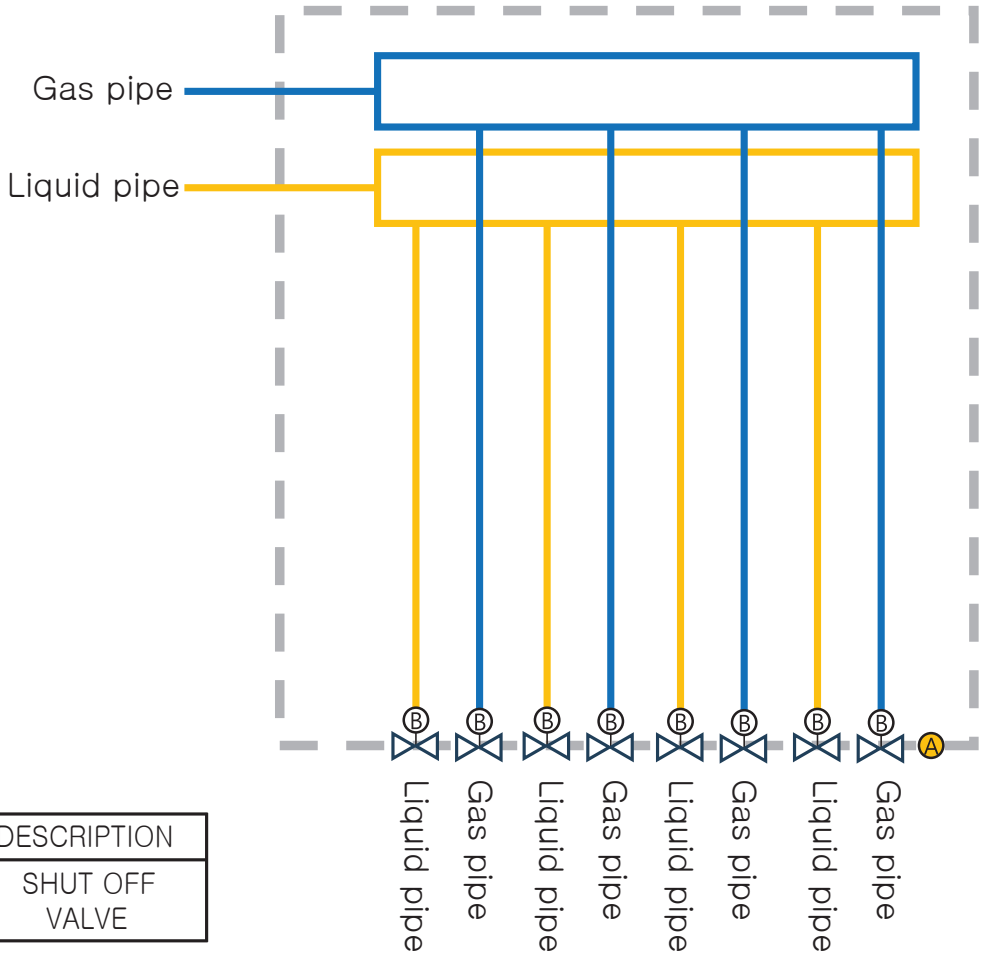


SYMBOL	DESCRIPTION
Ⓑ	SHUT OFF VALVE

Ⓐ : To be blocked the flow of refrigerant (When detecting a refrigerant leak).

4. Piping Diagrams

PRHPZ020, PRHPZ030, PRHPZ040



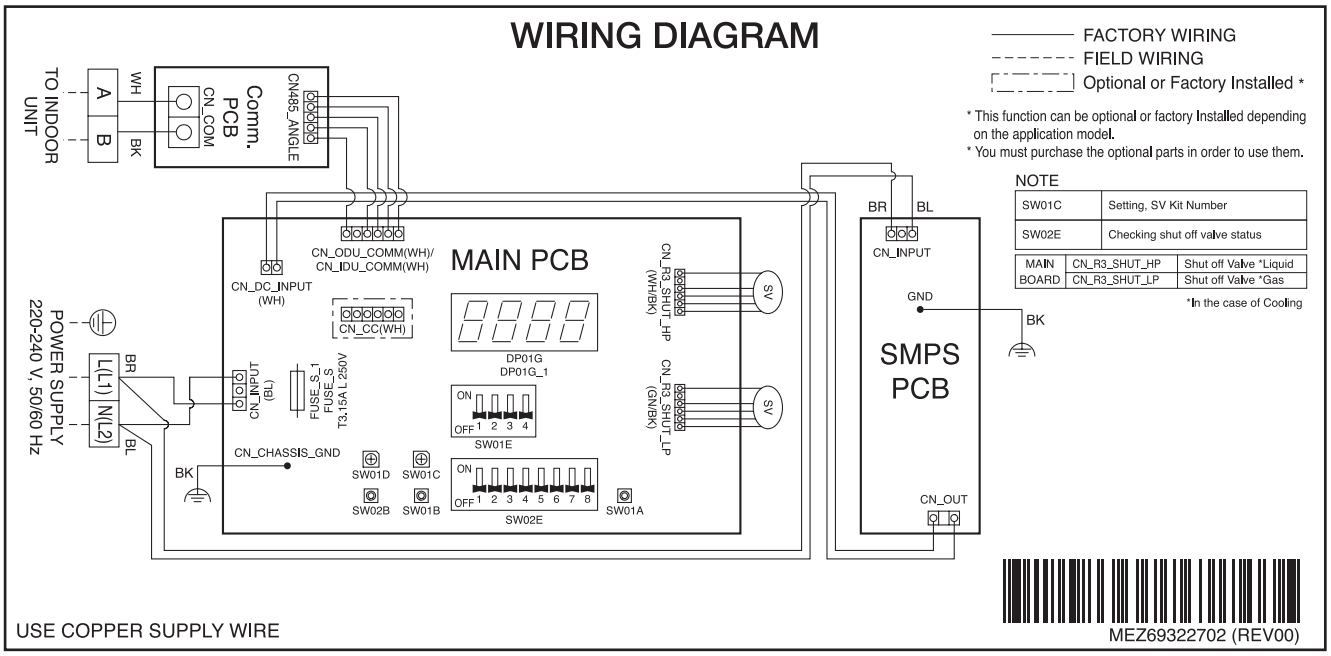
SYMBOL	DESCRIPTION
Ⓑ	SHUT OFF VALVE

Ⓐ : To be blocked the flow of refrigerant (When detecting a refrigerant leak)

5. Wiring Diagrams

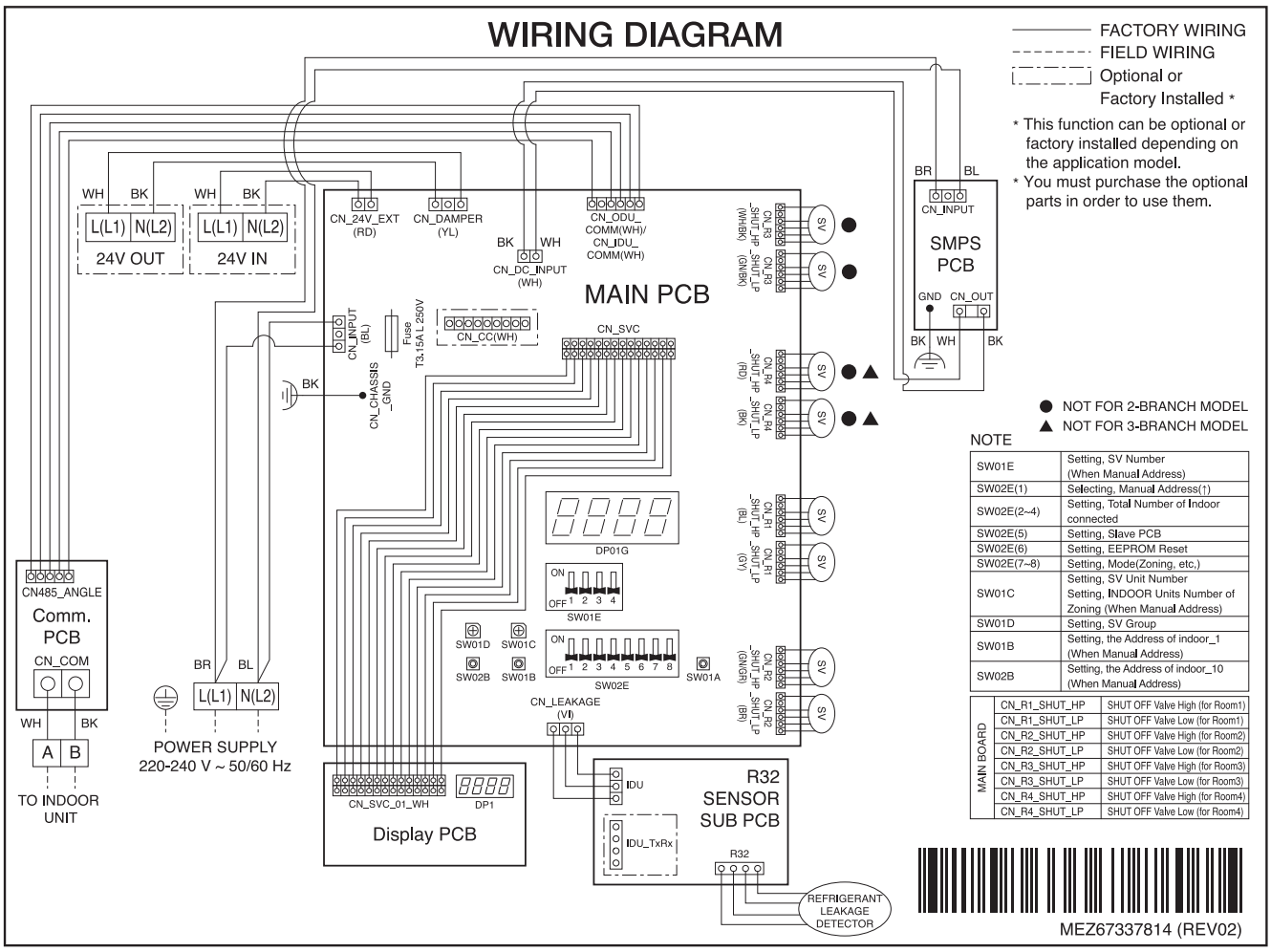
5.1 Product

PRHPZ010



5. Wiring Diagrams

PRHPZ020, PRHPZ030, PRHPZ040



Installation

Installation Of Outdoor Unit

1. Information for Refrigerant

1.1 Alternative for Refrigerant

The type of refrigerant applied depends on the outdoor unit cycle configuration. Ensure the refrigerant type in the specification of the indoor unit and outdoor unit to be installed.

■ Alternative Refrigerant _ R32

- The refrigerant R32 has a lower GWP (Global Warming Potential) value, and higher efficiency than R410A. The Ozone Depletion Potential (ODP) of R32 is 0, and Global Warming Potential(GWP) is 675.
- Refrigerant piping consists of copper/steel pipes, joints, and other fittings.All components must be selected and installed in conformity with the standards pertaining to the Refrigeration Safety Regulation.
- Same piping as for R410A can be used.

< ! > WARNING

- This product contains fluorinated greenhouse gases (Refrigerant type : R32). DO NOT LEAK refrigerant gases into the atmosphere.
- The refrigerant R32 is a Slightly Flammable gas. It does not leak normally. If the refrigerant leaks in the installed place and is in contact with a flaming source, it may cause fire, or a harmful gas.
- If there is some leak, turn off any combustion devices, ventilate the installation location, and contact the dealer from which you purchased the unit. Do not use the unit until the refrigerant leaked is repaired.
- Only use R32 as refrigerant. Other substances may cause explosions and accidents.

< ! > CAUTIONS

- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure.
- For high-pressure refrigerant, any unapproved pipe must not be used.
- Do not heat pipes more than necessary to prevent them from softening.

1. Information for Refrigerant

1.2 Installation Flow Chart

Minimum Floor Area
All indoor units should be installed satisfying A or VA is larger than Amin

Flow Chart

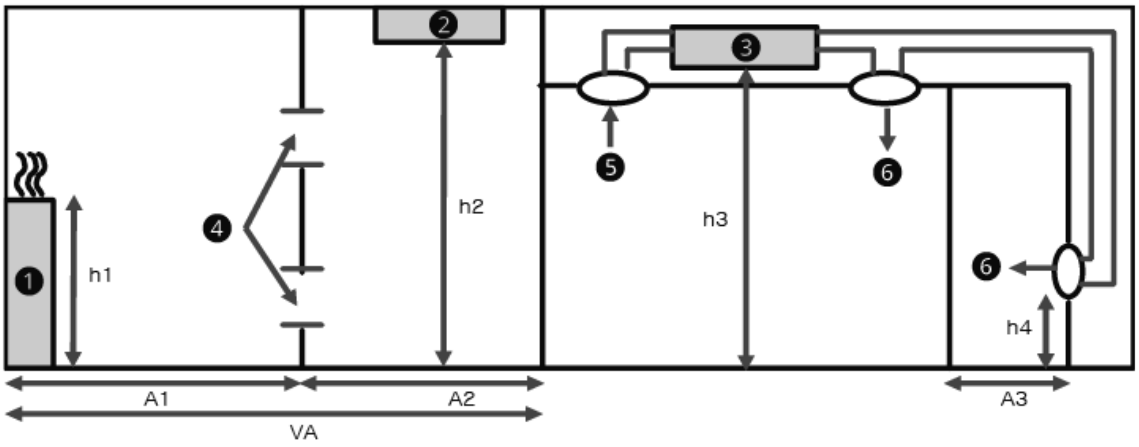
Calculate Mc → Mc < 1.842 kg or Install in machinery room *1 → No → Non ducted Unit and hinst > 1.8 m → No → A(VA) > Table 2 General Installation

Yes ↓ No ↗

Outdoor unit model name is 'ZRU*' and Indoor Unit model name is 'ARN*' → Yes → A(VA) > Table 1 ETRS Unit

*1 (ISO 5149-3:2014, Clause 5)

- Mc : Total amount of refrigerant in the system(kg)
- A : Floor Area (Room are where indoor unit is installed or smallest room area connected via duct system)
- VA : Ventilated Floor Area (Sum of room area connected by natural ventilation)
- Amin : Minimum Floor Area (Find in table 1 or 2)
- ETRS Unit : Enhanced Tightness Refrigerating Systems.
- hinst : Installation height. Height.
- h0 : Release height. Reference height or height of the lowest opening of the duct connection to each conditioned space



❶ Indoor Unit 1 : hinst=0, h0=h1, A=A1, VA=A1+A2 (ifnatural ventilation condition is satisfied)

❷ Indoor Unit 2 : hinst=h2, h0=h2, A=A2, VA=A1+A2 (if natural ventilation condition is satisfied)

❸ Indoor Unit 3 : hinst=h3, h0=h4, A=A3

❹ Natural Ventilation Opening

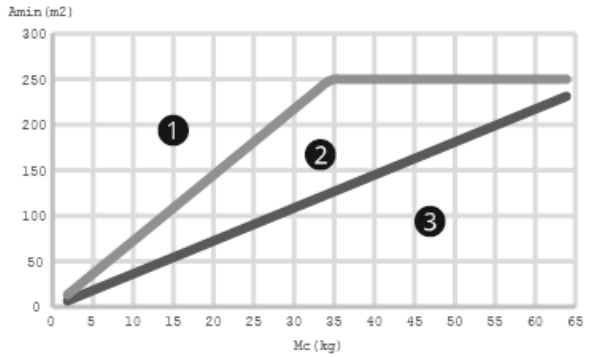
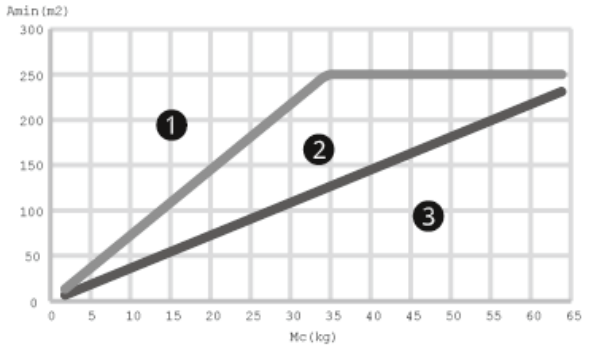
❺ Return Opening

❻ Supply Opening

1. Information for Refrigerant

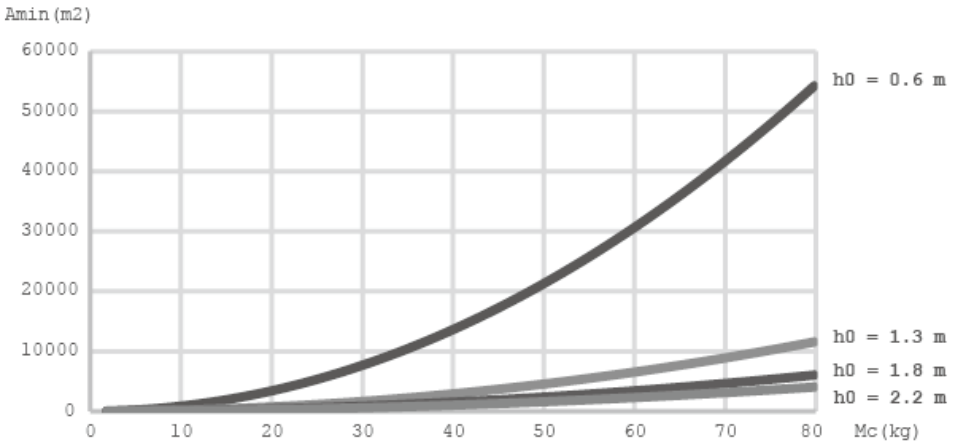
ETRS Unit

To install indoor unit, some safety measures may be needed depend on area or ventilated floor area(when natural ventilation used). Maximum charge of the system is 15.964 kg x number of indoor units in the system, not exceed 63.856 kg. Safety measures are LG alarm kit(PLDCAA0S),LG Shut off valve(PRHPZ0*0), andnatural ventilation. For more detail for LG accessories(alarm kit, shut off vale),see accessoriesmanual.
Graph and table is based on room height 1.8m. If it is higher(max 2.2m), smaller minimum floor area can be applied.

Minimum Floor Area of Lowest Underground Floor	Minimum Floor Area of Other Floors
	
a No safety measure is needed b Two safety measures c Cannot be installed	a No safety device is needed b One safety measures c Two safety measures

General Installation

To install indoor unit, some safety device may be needed depend on area or ventilated floor area(when natural ventilation used). If Mc is larger than 15.964kg, natural ventilation must be installed.
Graph and table is based onminimum installation height of indoor units. If it is higher, larger minimum floor area can be applied. h0 is differed by model type.



- According to Indoor unit type and installation condition, h0 could be different.
- Duct : Height of lowest opening of the duct connection to each conditioned space

1. Information for Refrigerant

1.3 Installation Flow Chart(For SVunit)

Minimum Floor Area

All SV units must be installed in a larger space than A_{min}

All SV units must be installed at a height of at least 1.8m.

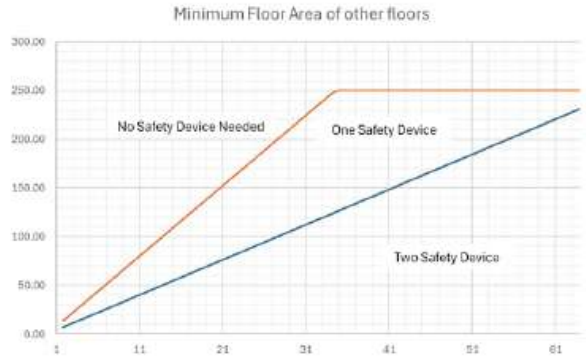
–Other Floor

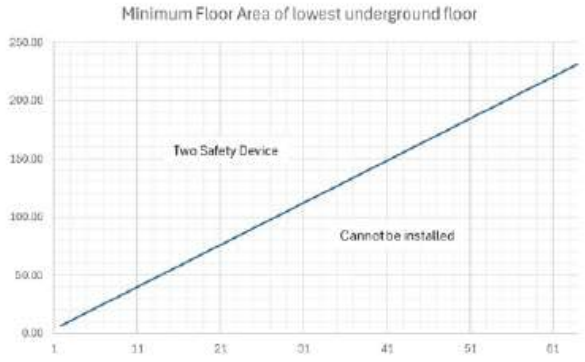
No Safety device	$A_{min} = m_c/(0.25 \times LFL \times H)$
1 Safety device	$A_{min} = m_c/(0.50 \times LFL \times H)$
2 Safety device	No limit
Enclosure ventilation	No limit

–Lowest Underground Floor

No Safety device	Cannot be installed
1 Safety device	Cannot be installed
2 Safety device	$A_{min} = m_c/(0.50 \times LFL \times H)$
Enclosure ventilation	No limit

- To install SV unit, some safety device may be needed depend on area. Maximum charge of the system is 15.964 kg x number of indoor units in the system, not exceed 63.856 kg. Safety devices are LG alarm kit(PLDCAA0S), mechanical ventilation, and natural ventilation. For more detail for LG accessories(alarm kit), see accessories manual.
- Graph and table is based on room height 1.8 m. If it is higher, larger minimum floor area can be applied.





1. Information for Refrigerant

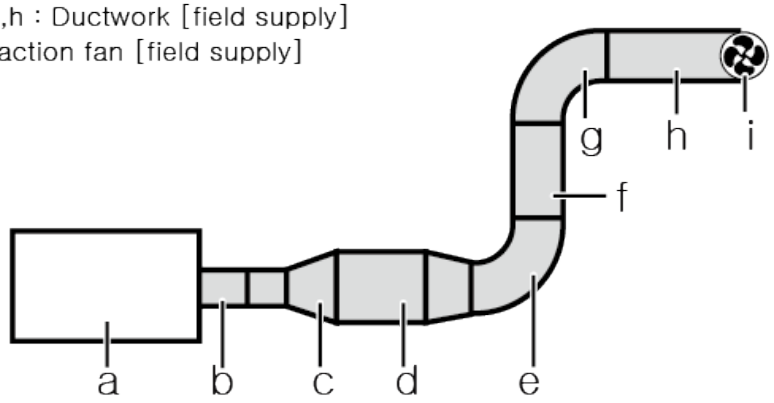
Enclosure ventilation

- The ventilation airflow must be set higher than 18.86 m³/h, and the internal negative pressure must be set higher than 20 Pa.
- The expander must be connected after the ventilation kit.

※ enclosure ventilation installed, there is no area limit.

Example

a : SV Unit
b : Ventilation Kit (LG supply : PTVK430)
c : Expander (Ø75 → Ø160) [field supply]
d,e,f,g,h : Ductwork [field supply]
i : Extraction fan [field supply]



	Type	AFR [m³/h]	Length (m)	ΔP (Pa/m)	ΔP (Pa)
a	SV Unit	300	-	-	62.5
b	Ventilation Kit	-	-	-	-
c	Expander	-	-	-	9.8
d	duct	-	3	1	3
e	bend	-	-	-	5
f	duct	-	5	1	5
g	bend	-	-	-	5
h	duct	-	3	1	3
i	Extraction fan	-	-	-	-
Total pressure drop (sum of rows a to i)					93.3

Select a fan with the required flow of 300 m³/h and a total pressure rise of 93.3 Pa.

Mechanical ventilation condition

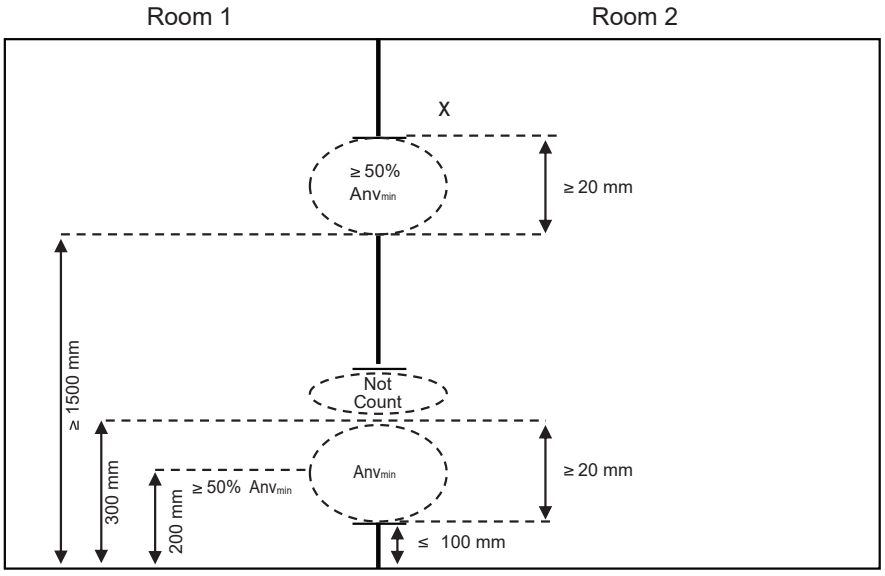
- Minimum air volume: 130.3 m3/h (to take into account air volume loss due to ducts or other parts)
- Location: Indoor air outlet upper end is lower than refrigerant leakage Indoor air outlet shall be in a position where refrigerant leakage can be well mixed

1. Information for Refrigerant

1.4 Natural Ventilation

For the lower opening:
- It is not an opening to the outside
- The opening cannot be closed
- The opening must be ≥ Anvmin
- The area of any openings above 300 mm from the floor does not count when determining Anvmin
- At least 50% of Anvmin is less than 200 mm above the floor
- The bottom of the lower opening is ≤ 100 mm from the floor
- The height of the opening is ≥ 20 mm

For the upper opening:
- It is not an opening to the outside
- The opening cannot be closed
- The opening must be ≥ 50% of Anvmin
- The bottom of the upper opening must be ≥ 1 500 mm above the floor
- The height of the opening is ≥ 20 mm



Minimum opening area (*Anv*)

$$Anv_{min} = \frac{m_c - m_{max}}{LFL \times 104} \times \sqrt{\frac{A}{g \times m_{max}} \cdot \frac{M}{M - 29}}$$

Anv	is the minimum opening for natural ventilation in m^2.
m_c	is the actual refrigerant charge of refrigerant in the system in kg;
m_{max}	is the allowable maxinum refrigerant charge in the system in kg, calculated according to Equation GG.8 or m^2, whichever is lower,
LFL	is the lower flammability limit in kg/m^3;
A	is the room area in m^2;
M	is the molar mass of the refrigerant in kg/kmol;
g	is the gravity acceleration of 9,81 m/s^2;
29	is the average molar mass of air in kg/kmol.

2. Selection of The Best Location

2.1 Best Location

Select space for installing outdoor unit, which will meet the following conditions:
• No direct thermal radiation from other heat sources.
• No possibility of annoying neighbors due to noise of unit.
• No exposition to strong wind.
• Place with strength which bears weight of unit.
• Note that drain flows out of unit when heating mode operation (except for Cooling only model).
• Because of the possibility of fire, do not install unit to the space where generation, inflow, stagnation, and leakage of combustible gas is expected.
• Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
• Do not use unit under any special environment where oil, steam and sulfuric gas exist.
• It is recommended to fence round the outdoor unit in order to prevent any person or animal from accessing the outdoor unit.
• If installation site is area of heavy snowfall, then the following directions should be observed.
- Make the foundation as high as possible / Fit a snow protection hood.
• Select installation location considering following conditions to avoid bad condition when performing defrost operation.
- Install the unit at a place well ventilated and having a lot of sunshine in case of installing the product at a place with a high humidity in winter (near beach, coast, lake, etc).
(Ex) Rooftop where sunshine always shines.
- Performance of heating will be reduced and pre-heat time of the indoor unit may be lengthened in case of installing the outdoor unit in winter at following location:
▷ Shade position with a narrow space.
▷ Location with much moisture in neighboring floor.
▷ Location with much humidity around.
It is recommended to install the outdoor unit at a place with a lot of sunshine as possible as.
▷ Location where liquid gathers since the floor is not even.
▷ When installing the outdoor unit in a place that is constantly exposed to a strong wind like a coast or on a high story of a building, secure a normal fan operation by using a duct or a wind shield.

■ Cautions corresponding to strong/seasonal wind

• When the“Outdoor unit of Side Discharge Type” is installed in a place that is constantly exposed to a strong wind like a coast or on a high story of a building, secure a normal fan operation by using a duct or a wind shield.
- Don't install the suction hole and discharge hole of the Outdoor unit facing the seasonal wind.
- Install the unit so that its discharge port faces to the wall of the building.
Keep a distance 500mm or more between the unit and the wall surface.
- Supposing the wind direction during the operation season of the air conditioner, install the unit so that the discharge port is set at right angle to the wind direction.

■ Cautions in winter

• Sufficient measures are required in a snow area or severe cold area in winter so that product can be operated well.
• Get ready for seasonal wind or snow in winter even in other areas.
• Install a suction and discharge duct not to let in snow or rain.
• Install the outdoor unit not to come in contact with snow directly. If snow piles up and freezes on the air suction hole, the system may malfunction. If it is installed at snowy area, attach the hood to the system.
• Where snow accumulated on the upper part of the Outdoor Unit, always remove snow for operation.
• If width of the frame is wider than that of the product, snow may accumulate. So, its width shall not exceed the width of the product.

2. Selection of The Best Location

2.2 Special guide for installation at the Seaside

< ! > CAUTIONS

• Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
• Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product.
Corrosion, particularly on the condenser and evaporator fins, could cause product malfunctionor inefficient performance.
• If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise itneeds additional anticorrosion treatment on the heat exchanger.

■ Selecting the location of Outdoor Units

• If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided.
• Install the outdoor unit on the opposite side of the sea wind direction.
• It should be strong enough like concrete to prevent the sea wind from the sea.
• The height and width should be more than 150% of the outdoor unit.
• It should be kept more than 70 cm of space between outdoor unit and the windbreak for easy air flow.
In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.
• Select a well-drained place.
• Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.

< ! > CAUTIONS

• Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
• Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product.
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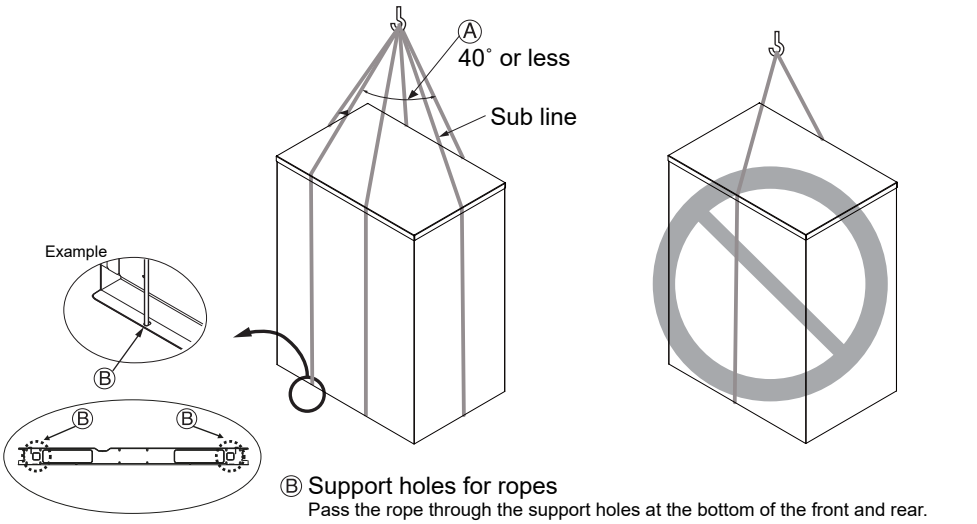
■ Selecting the location of Outdoor Units

• If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided.
• Install the outdoor unit on the opposite side of the sea wind direction.
• It should be strong enough like concrete to prevent the sea wind from the sea.
• The height and width should be more than 150% of the outdoor unit.
• It should be kept more than 70 cm of space between outdoor unit and the windbreak for easy air flow.
In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.
• Select a well-drained place.
• Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.

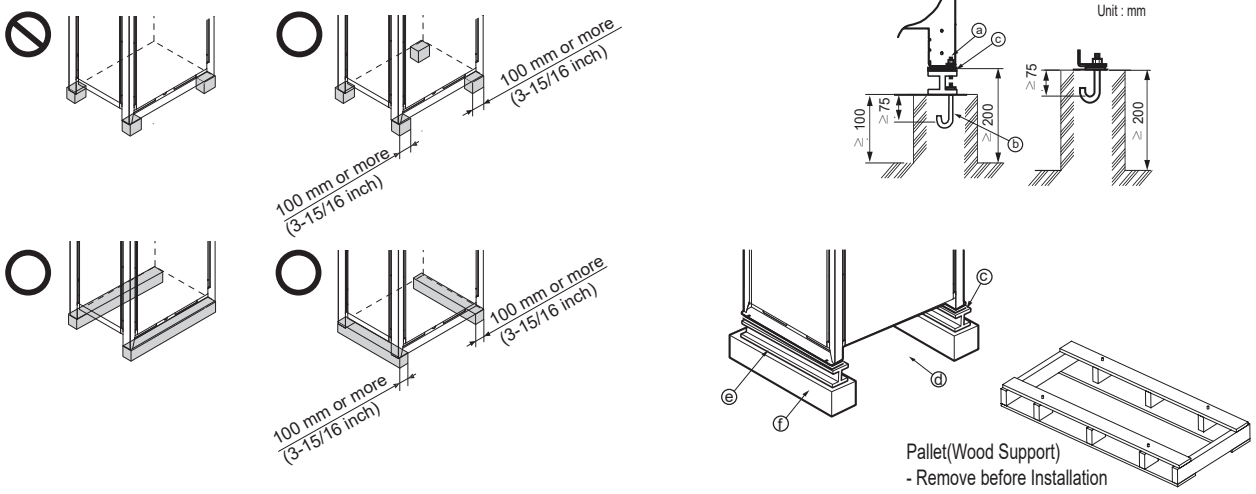
2. Selection of The Best Location

2.3 Lifting Method



Ⓑ Support holes for ropes
Pass the rope through the support holes at the bottom of the front and rear.
(The position or shape of the rope support may differ depending on the product.)

3. Foundation for Installation

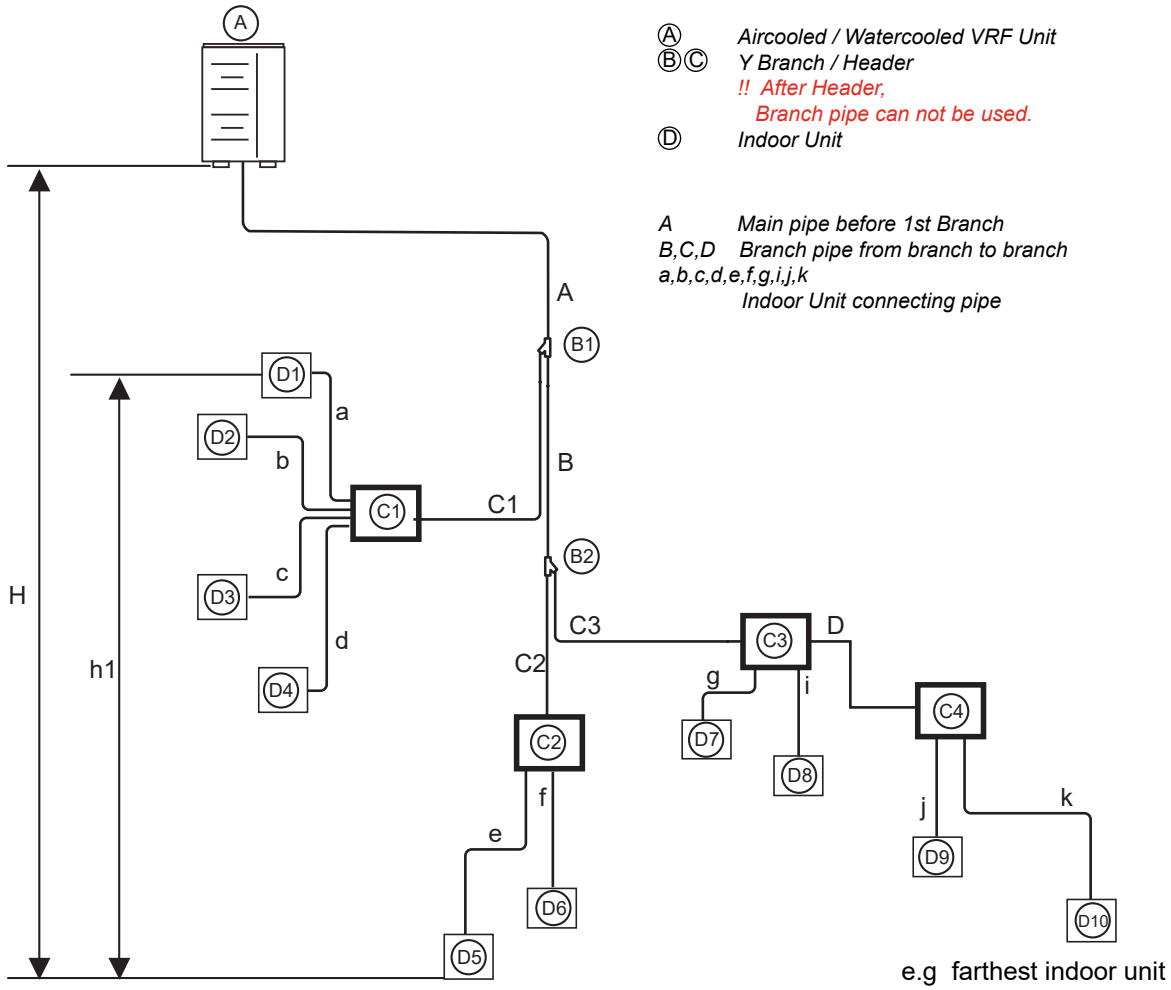


• Install where it can sufficiently support the weight of the outdoor unit.
If the support strength is not enough, the outdoor unit may drop and hurt people.
• Install where the outdoor unit may not fall in strong wind or earthquake.
If there is a fault in the supporting conditions, the outdoor unit may fall and hurt people.
• Please take extra cautions on the supporting strength of the ground, water outlet treatment (treatment of the water flowing out of the outdoor unit in operation), and the passages of the pipe and wiring, when making the ground support.
• Do not use tube or pipe for water outlet in the Base pan. Use drainage instead for water outlet.
The tube or pipe may freeze and the water may not be drained.
• Install at places where it can endure the weight and vibration/noise of the outdoor unit.
• The outdoor unit supports at the bottom shall have width of at least 100mm under the unit's legs before being fixed.
• The outdoor unit supports should have minimum height of 200mm.
• Anchor bolts must be inserted at least 75mm.
• Fix the unit tightly with bolts as shown so that unit will not fall down due to earthquake or gust.
a. The corner part must be fixed firmly. Otherwise, the support for the installation may be bent.
b. Get and use M10 Anchor bolt.
c. Noise and vibration may occur from the floor or wall since vibration is transferred through the installation part depending on installation status. Thus, use anti-vibration materials (cushion pad) fully.
(The base pad shall be more than 200mm)
d. Space for pipes and wiring (Pipes and wiring for bottom side)
e. Use the H-beam support as a base support
f. Concrete support
• Be sure to remove the Pallet (Wood Support) of the bottom of the outdoor unit before fixing the bolt or welding.
It may cause the unstable state of the outdoor settlement, and may cause freezing of the heat exchanger resulting in abnormal operations, hazard of fire during welding.

4. Refrigerant Piping System

4.1 System diagram

Example : 10 Indoor Units connected (Heat Pump / Cooling only System)



- It is recommended that difference in length of the pipes connected to the indoor units (a~k) is minimized. The large difference in pipe lengths, the more different performance between indoor units.

4. Refrigerant Piping System

4.2 Refrigerant piping system design

Limit of Piping Length and difference in height

ZRUV-(3/4/5/6 HP) / ZRUN-(4/5/6 HP)

L	Overall Piping Length (A+B+C1+C2+C3+D+a+b+c+d+e+f+g+i+j+k)	300 m
L1	Longest pipe length (A+B+C3+D+k) : between outdoor Unit and the farthest indoor unit	80 m
	Longest pipe Equivalent length* between outdoor Unit and the farthest indoor unit	100 m
L2	First branch ~ the farthest indoor unit (B+C3+D+k)	40m
H	Between Outdoor Unit and Indoor Unit	30 m
h1	Between Indoor Unit and Indoor Unit	15 m

ZRUN-(8/10/12 HP)

L	Overall Piping Length (A+B+C1+C2+C3+D+a+b+c+d+e+f+g+i+j+k)	300 m
L1	Longest pipe length (A+B+C3+D+k) : between outdoor Unit and the farthest indoor unit	150 m (200 m**)
	Longest pipe Equivalent length* between outdoor Unit and the farthest indoor unit	175 m (225 m**)
L2	First branch ~ the farthest indoor unit (B+C3+D+k)	40 m (90 m**)
H	Between Outdoor Unit and Indoor Unit	30 m
h1	Between Indoor Unit and Indoor Unit	15 m

• * Equivalent Length
: Assume equivalent pipe length of Y branch to be 0.5m, that of header to be 1m for calculation purpose.
• ** Conditional application : For branch pipes after “Header”, conditional application could not be applied.
• It is recommended that indoor unit is installed at lower position than the header. And Branch pipe can not be used after header.

< ! > WARNING

When the any one (or both) of below conditions are satisfied, the diameter of main pipe (A) must be increased according to below table.
- The equivalent length between outdoor unit and the farthest indoor unit is 90m (295ft) or more (Liquid or Gas pipes are increased in accordance with below table)
- The level difference (Outdoor unit ↔ Indoor unit) is 50m (164ft) or more (Only liquid pipe is increased)

Refrigerant pipe diameter from outdoor unit to first branch. (A)

Upward Outdoor /Outside unit total capacity	Standard Pipe Diameter		Increased Pipe Diameter			
			When equivalent pipe length is 90m or more from ODU to farthest IDU		When level difference is 50m or more	
HP	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]
3, 4	Ø 9.52(3/8)	Ø 15.88(5/8)	Ø 12.7(1/2)	Ø 19.05(3/4)	Ø 12.7(1/2)	Not increased
5	Ø 9.52(3/8)	Ø 15.88(5/8)	Ø 12.7(1/2)	Ø 19.05(3/4)	Ø 12.7(1/2)	Not increased
6	Ø 9.52(3/8)	Ø 19.05(3/4)	Ø 12.7(1/2)	Ø 22.2(7/8)	Ø 12.7(1/2)	Not increased
8	Ø 9.52(3/8)	Ø 19.05(3/4)	Ø 12.7(1/2)	Ø 22.2(7/8)	Ø 12.7(1/2)	Not increased
10	Ø 9.52(3/8)	Ø 22.2(7/8)	Ø 12.7(1/2)	Ø 25.4(1) *	Ø 12.7(1/2)	Not increased
12, 14	Ø 12.7(1/2)	Ø 28.58(1-1/8)	Ø 15.88(5/8)	Not increased	Ø 15.88(5/8)	Not increased

• * : If available on site, select pipe size from the pipe diameter table according to capacity.
Otherwise it doesn’t need to be increased.
• Model line up could be different in accordance with target region.

4. Refrigerant Piping System

Refrigerant pipe diameter from branch to branch (B,C,D)

Downward indoorunit total capacity [kW(Btu/h)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]
≤ 5.6(19,100)	Ø6.35(1/4)	Ø12.7(1/2)
< 16.0 (54,600)	Ø9.52(3/8)	Ø15.88(5/8)
< 22.4 (76,400)	Ø9.52(3/8)	Ø19.05(3/4)
< 33.6(114,700)	Ø9.52(3/8)	Ø22.2(7/8)
< 50.4(172,000)	Ø12.7(1/2)	Ø28.58(1-1/8)
< 67.2(229,300)	Ø15.88(5/8)	Ø28.58(1-1/8)

Guide for Conditional Application(**)

If the below conditions are satisfied, limit of longest pipe length after 1st branch(l) could be extended by 40m(131ft) → 90m(295ft).

• Pipe diameter Size Up

Pipe diameter(only Liquid/low pressure gas pipes) between 1st branch and last branch(HR unit) is increased byone step.
If the pipe diameter of B, C3 is same as A, it is not necessary.
: Ø 6.35 → Ø 9.52 → Ø 12.7 → Ø 15.88 → Ø 19.05 → Ø 22.2 → ...
If available on site, select pipe size from the pipe diameter table according to capacity. Otherwise it doesn't need to increase .

• Correction for calculating the total pipe length

When calculating total pipe length, pipe B,C,D length should be calculated twice.
: A + B x 2 + C3 x 2 + D x 2 + C1 + C2 + a + b + c + d + e + f + g + i + j + k + l + m + n ≤ 1,000m (3,281ft)

• Indoor unit pipe length

Length of pipe from each indoor unit to the closest HR unit (a, b, c, d, e, f, g, i, j, k, l, m, n) ≤ 40m (131ft).

• Difference in length between outdoor unit and the farthest or closest indoor unit

[Length of pipe from outdoor unit to the farthest indoor unit 12 (B + C3 + D + k)] - [Length of pipe from outdoor unit to the closest indoor unit 1 (C1 + a)] ≤ 40m (131ft)

Cautions for Y branch pipe

• In case of pipe diameter connected after first branch(B) is bigger than the main pipe diameter(A), B should be of the same size with A.
• Do not choose the main pipe diameter by downward indoor unit total capacity, but its outdoor/outside unit model name.
• Do not let the connection pipe from branch to branch exceed the main pipe diameter chosen by outdoor unit model name.

[Example 1] In case indoor unit combination ratio 120% is connected to 24HP(67.2 kW) outdoor unit.
- Outdoor unit main pipe diameter A : Ø34.9(Gas pipe), Ø15.88(liquid pipe)
- Pipe diameter B after first branch according to 120% indoor unit ombination(80.6kW): Ø34.9(gas pipe),Ø19.05(liquid pipe)

▷ **Therefore, pipe diameter B connected after first branch would be Ø34.9(gas pipe) / Ø15.88(liquid pipe) which is same with main pipe diameter.**

[Example 2] Where connecting the indoor units to the 22HP (61.6kW) outdoor unit to 130% of its system capacity (80.1kW) and branching 7k (2.2kW) indoor unit at the 1st branch.
- Main pipe diameter(22 HP outdoor unit): Ø28.58(gas pipe), Ø15.88(Liquid pipe)
- Pipe diameter between 1st and 2nd branch (77.9kW indoor units) : Ø34.9(Gas pipe), Ø19.05(Liquid pipe) in conformity with downward indoor units.

▷ **Since the main pipe diameter of 22HP outdoor unit is Ø28.58 (gas pipe), Ø15.88(Liquid pipe) is used as the main pipe and the connection pipe between 1st and 2nd branch.**

Cautions for header branch pipe

• It is recommended to install the difference between the length of the pipe after header branch(a~f) and the length of the pipe connected to indoor unit to be the minimum.
• As the pipe length difference increases, there may be performance differences between indoor units.
• Y branch and header branch cannot be used after header branch.

Indoor Unit connecting pipe (a~k)

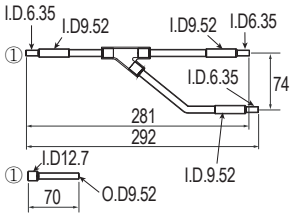
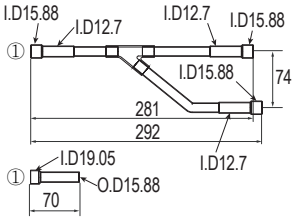
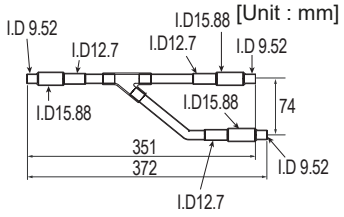
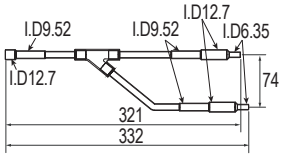
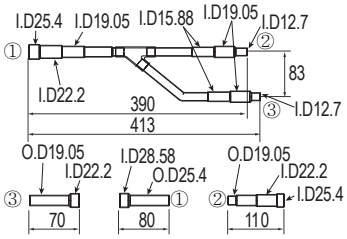
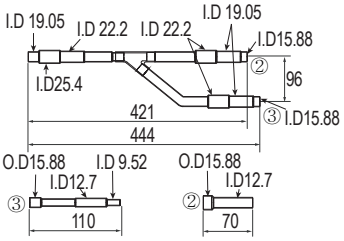
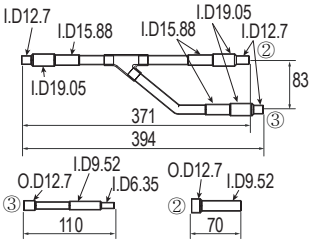
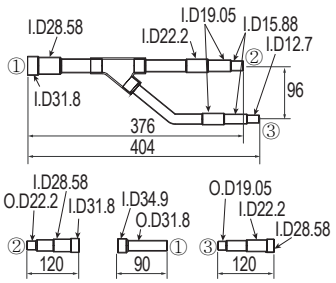
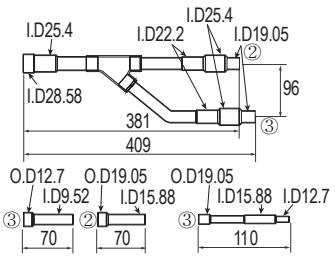
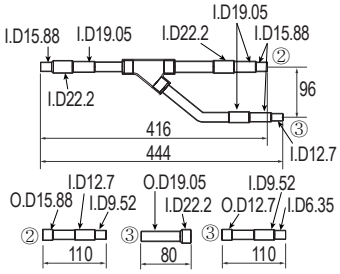
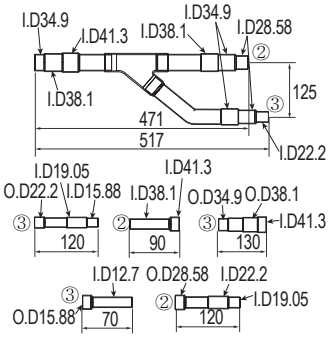
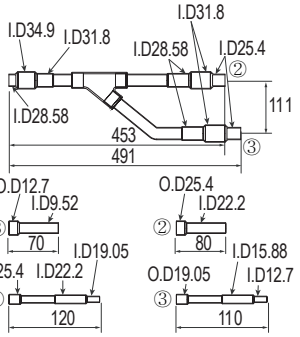
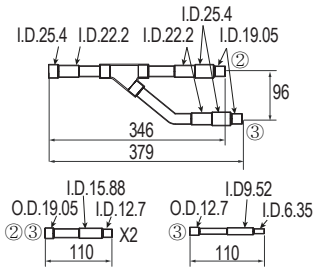
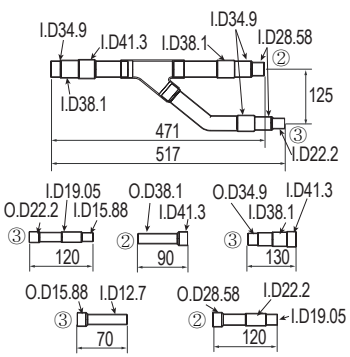
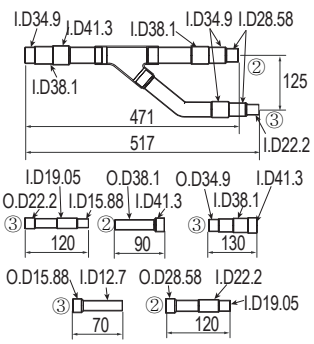
Indoor Unit capacity [kW(Btu/h)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]
≤ 5.6(19,100)	Ø6.35(1/4)	Ø12.7(1/2)
< 16.0(54,600)	Ø9.52(3/8)	Ø15.88(5/8)
< 22.4(76,400)	Ø9.52(3/8)	Ø19.05(3/4)
≤ 28.0(95,900)	Ø9.52(3/8)	Ø22.2(7/8)

4. Refrigerant Piping System

• Bending radius should be at least twice the diameter of the pipe.
• Bend pipe after 500mm or more from branch(or header).
• Do not bend U type. It may affect performance or result in noise. If U type bending is required, the R should be more than 200mm.

4. Refrigerant Piping System

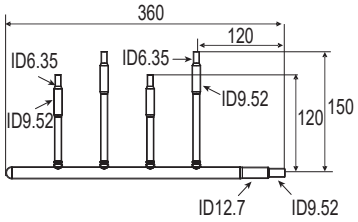
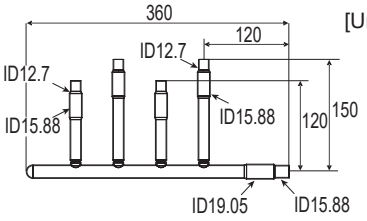
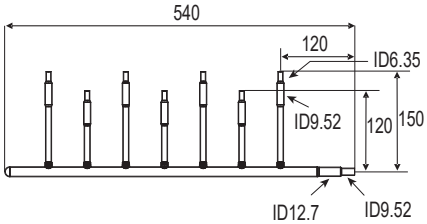
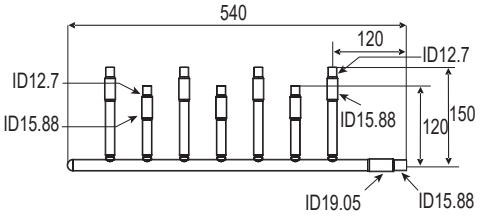
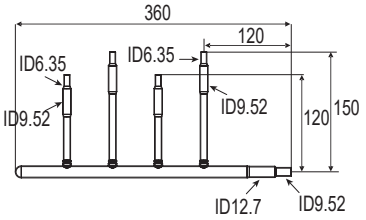
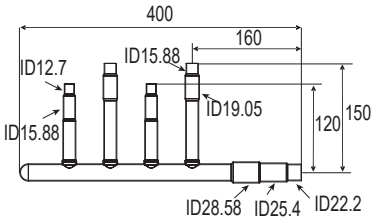
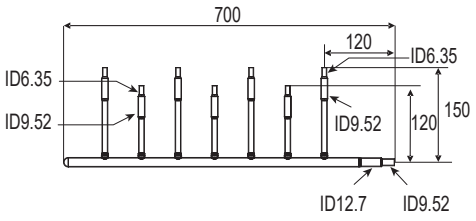
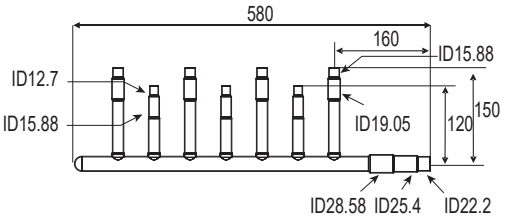
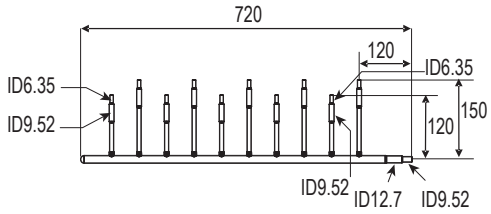
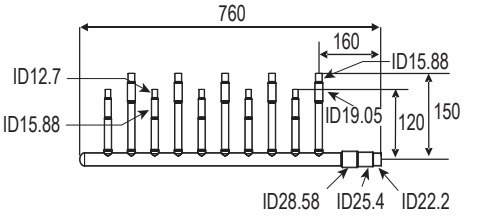
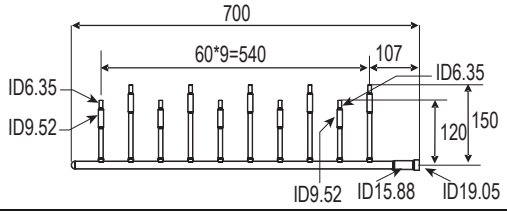
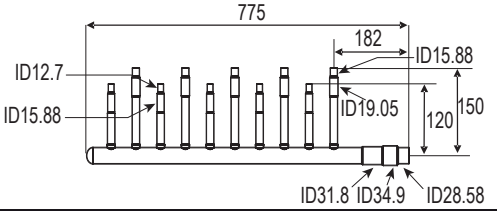
4.3 Selection of Y Branch

Model	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
	ARBLN- (For Heat Pump) : Liquid pipe + Low Pressure Gas Pipe		
	ARBLB- (For Heat Recovery) : Liquid pipe + Low Pressure Gas Pipe + High Pressure Gas Pipe		
ARBLN01621 ***ARBLB01621***			 [Unit : mm]
ARBLN03321 ***ARBLB03321***			
ARBLN07121 ***ARBLB07121***			
ARBLN14521 ***ARBLB14521***			
ARBLN23220 ***ARBLB23220***			

4. Refrigerant Piping System

4.4 Selection of Header

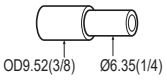
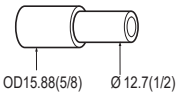
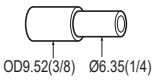
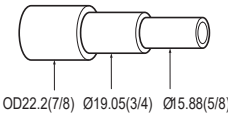
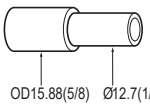
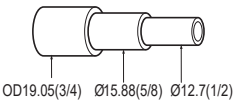
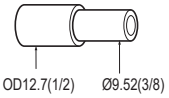
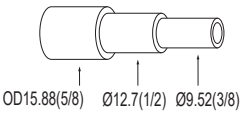
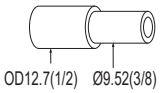
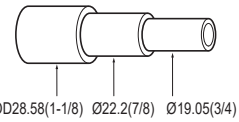
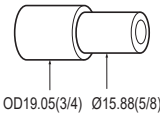
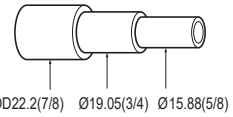
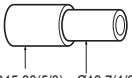
[Unit : mm]

Model	Liquid pipe	Gas pipe
4 Branch ARBL054		
7 Branch ARBL057		
4 Branch ARBL104		
7 Branch ARBL107		
10 Branch ARBL1010		
10 Branch ARBL2010		

4. Refrigerant Piping System

4.5 Selection of Reducer

[Unit : mm(inch)]

Model		*Liquid pipe*	*Low Pressure Gas pipe*	*High Pressure Gas pipe*
Indoor Unit Reducer				
HR Unit Reducer*	***PRHR023***		 	 
	PRHR033 PRHR043 PRHR063 PRHR083	 	 	 

※ * : For Heat Recovery System Only

4. Refrigerant Piping System

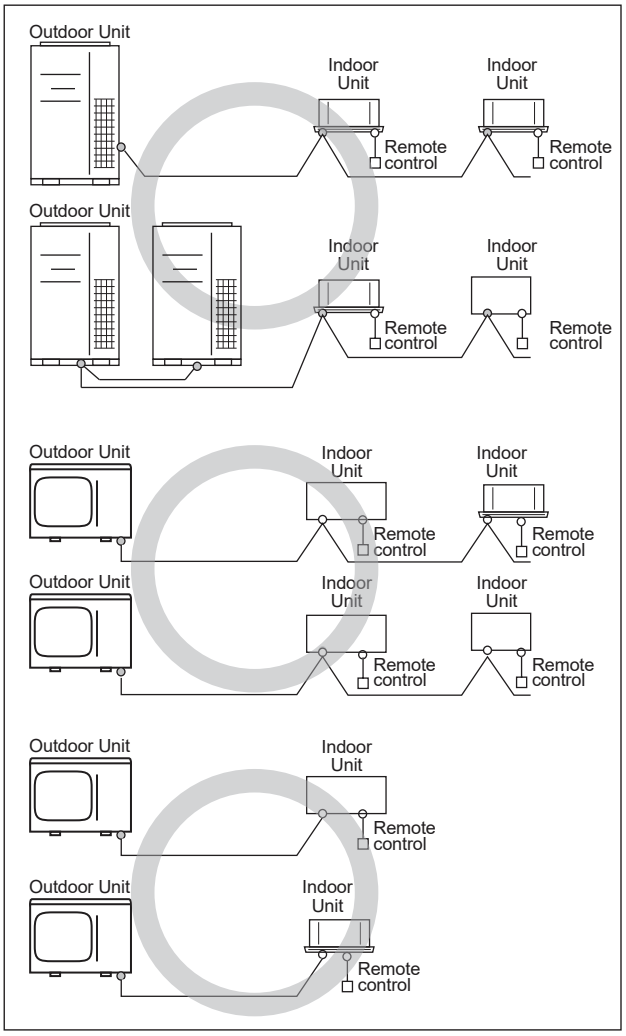
4.6 Calculation of amount of refrigerant

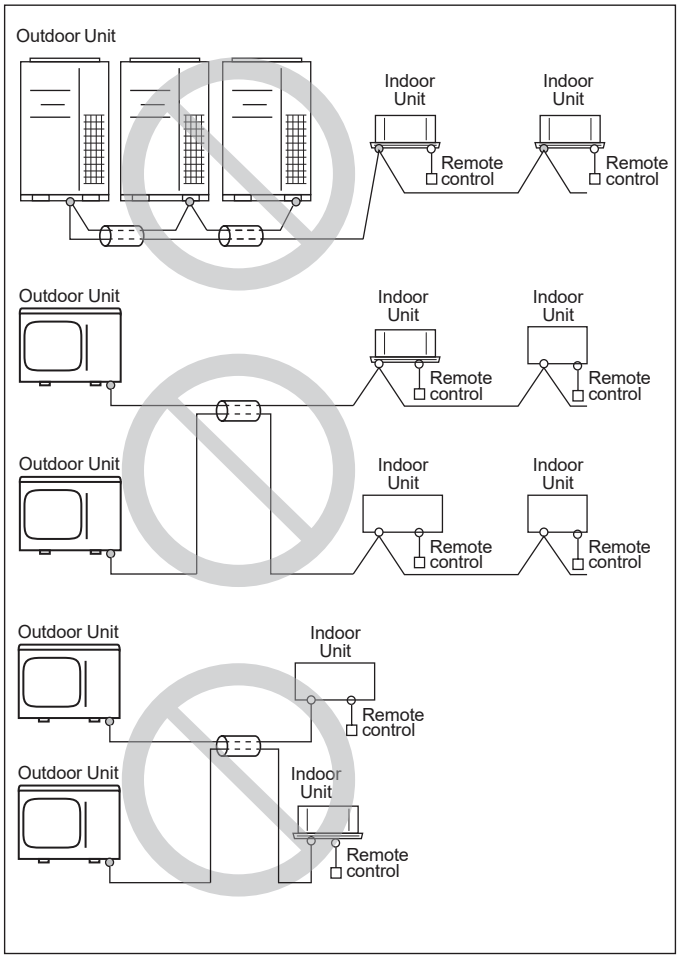
• The calculation of the additional charge should take into account the length of pipe and CF(correction Factor) value of indoor units.
• Please refer to the indoor unit's PDB or the outdoor/outside unit's installation manual for the additional refrigerant table of indoor units.

Additional charge (kg)	=	Total length (m) of Liquid pipe : Ø25.4 mm (1 inch)	x	0.422 (kg/m)
	+	Total length (m) of Liquid pipe : Ø22.2 mm (7/8 inch)	x	0.313 (kg/m)
	+	Total length (m) of Liquid pipe : Ø19.05 mm (3/4 inch)	x	0.235 (kg/m)
	+	Total length (m) of Liquid pipe : Ø15.88 mm (5/8 inch)	x	0.153 (kg/m)
	+	Total length (m) of Liquid pipe : Ø12.7 mm (1/2 inch)	x	0.103 (kg/m)
	+	Total length (m) of Liquid pipe : Ø9.52 mm (3/8 inch)	x	0.053 (kg/m)
	+	Total length (m) of Liquid pipe : Ø6.35 mm (1/4 inch)	x	0.019 (kg/m)
	+	Number of installed HR units(2,3,4 port)	x	0.450 (kg/m)*
	+	Number of installed HR units(6,8 port)	x	0.900 (kg/m)*
	+	Number of installed SV units(2,3,4 port)	x	0.250 (kg/m)**
	+	CF value of indoor unit(kg/EA)		

* : For Heat Recovery System Only
** : For Heat Pump System Only

5. Electrical Wiring





※ This figure is representative. Actual appearance of outdoor unit may be different by product type, but schematic diagram will stay the same.

- Follow ordinance of local regulation for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.
- Be sure to provide designated grounding work to installed unit.
- Give some allowance to wiring for electrical part box of units, because the box is sometimes removed at the time of service work.
- Only the communication line specified should be connected to the terminal block for unit communication.

< ! > WARNING

- Be sure to have authorized electrical engineers do the electric work using special circuits in accordance with regulations and installation manual. If power supply circuit has a lack of capacity or electric work deficiency, it may cause an electric shock or fire.
- Be sure to connect the installed unit to earth. Do not connect earth line to any gas pipe, liquid pipe, lightening rod or telephone earth line. If earth is incomplete, it may cause an electric shock.

< ! > CAUTIONS

- Product which use 3-phase power source have reversed phase protection detector that only works when the power is turned on. If there exists black out or the power goes on and off which the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.
- Install the communication line away from the power source wiring so that it is not affected by electric noise from the power source. (Do not run it through the same conduit.) Never use them together with power cables.
- Never use multi-core cable.
  If communication lines of different systems are wired with the same multiplecore cable, the resultant poor transmitting and receiving will cause erroneous operations.
- The conductive shielding layer of cable should be grounded to the metal part of both units.
- As this unit is equipped with an inverter, to install a phase leading capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating. Therefore, never install a phase leading capacitor.
- Make sure that the power unbalance ratio is not greater than 2%. If it is greater, the unit's lifespan will be reduced.

5. Electrical Wiring

• Never connect the main power source to terminal block of communication line.
If connected, electrical parts will be burnt out.
• Introducing with a missing “N” phase or with a mistaken “N” phase will break the equipment.
• When the power supply is applied to “N” phase by mistake, replace inverter PCB and transformer in control box.

Communication and Power Lines

■ Communication cable
- Types : shielded cables
- Use wires of size : over 1.0 ~ 1.5 mm^2
- Maximum allowable temperature of cable : over 60°C (140℉)
- Maximum allowable line length: under 1,000m

■ Remote control cable
- Types : 3-core cable

■ Central control cable
- Please check the model function table for compatibility with central controller.

Product Type	Wire Type	Diameter
ACP & AC Manager	2-core cables (Shielded)	1.0~1.5mm^2
AC Smart	2-core cables (Shielded)	1.0~1.5mm^2
Simple central controller	4-core cables (Shielded)	1.0~1.5mm^2
AC Ez	4-core cables (Shielded)	1.0~1.5mm^2

■ Separation of communication and power lines
- If communication and power lines are installed alongside each other then there is a strong likelihood of operational faults developing due to interference in the signal wiring caused by electrostatic and electromagnetic coupling.
The tables below indicates our recommendation as to appropriate spacing of communication and power lines where these are to be run side by side.

Current capacity of power line		Spacing
100V or more	10 A	300 mm
	50 A	500 mm
	100 A	1,000 mm
	Exceed 100 A	1,500 mm

-The figures are based on assumed length of parallel cabling up to 100m. For length in excess of 100m the figures will have to be recalculated in direct proportion to the additional length of line involved.
- If the power supply waveform continues to exhibit some distortion the recommended spacing in the table should be increased.
▷ If the lines are laid inside conduits then the following point must also be taken into account when grouping various lines together for introduction into the conduits
▷ Power lines(including power supply to air conditioner) and signal lines must not be laid inside the same
▷ In the same way, when grouping the lines power and signal lines should not be bunched together.

< ! > CAUTIONS

• If apparatus is not properly earthed then there is always a risk of electric shock, the grounding of the apparatus must be carried out by a qualified person.

6. Field Wiring

6.1 General Instruction

■ Wiring of Main Power Supply

- Bear in mind ambient conditions (ambient temperature,direct sunlight, rain liquid,etc.) when proceeding with the wiring and connections
- The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
- Specific wiring requirements should adhere to the wiring regulations of the region.
- Power supply cords of parts of appliances for outdoor use should not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57).
- Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.

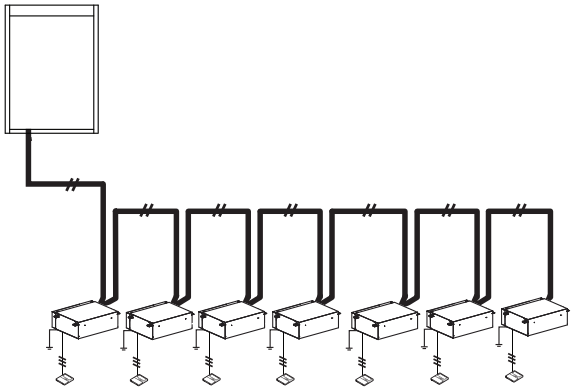
< ! > WARNING

- Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.
- All Installation site must require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.
- Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.

6. Field Wiring

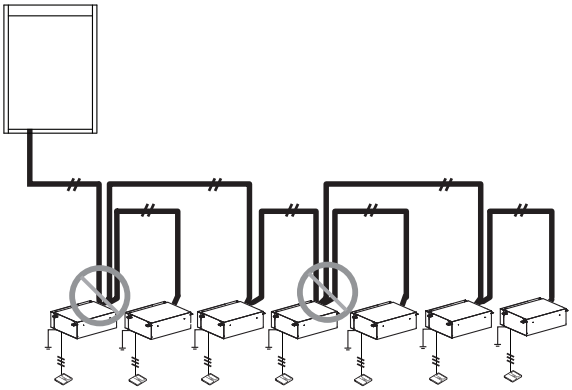
6.2 Example Connection of Communication Cable

BUS Type



Connection of communication cable must be installed like this figure between indoor unit to outdoor unit.

STAR Type



Abnormal operation can be caused by communication defect, when connection of communication cable is installed like below figure.

Air Solution

LG Electronics Inc, 128, Yeoui-daero,
Yeongdeungpo-gu, Seoul, Korea
(07336)

http://partner.lge.com

http://sedc.lge.com

The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system.
The specifications, designs, and information in this brochure are subject to change without notice.