

222

HOT WATER SOLUTION

Hydro kit

224

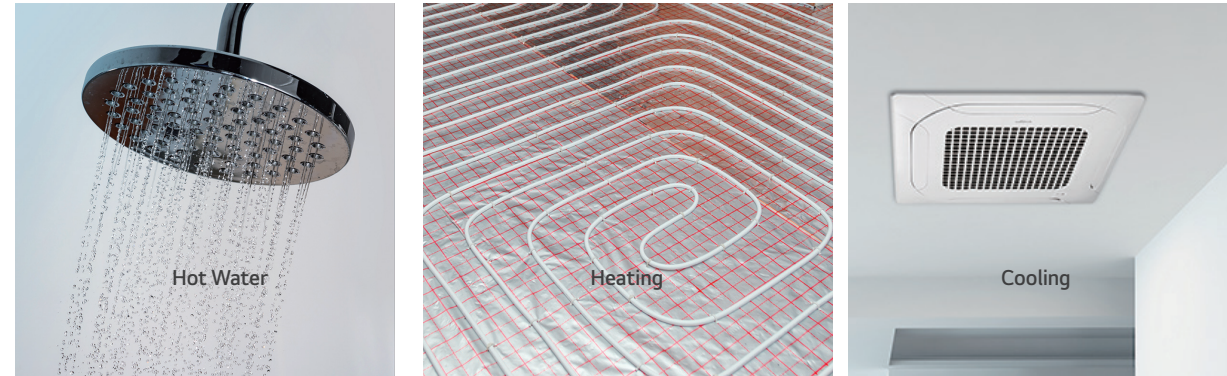
HYDRO KIT

Features & Benefits

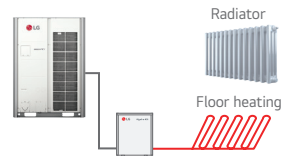
- Lower operation costs compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V heat recovery system.

Key Applications

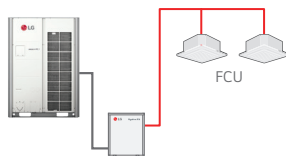
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiators. Or where cold water is needed, such as a fan coil unit and chilled beam.



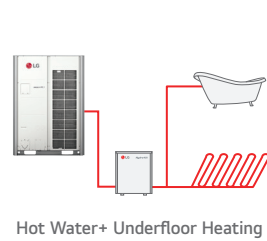
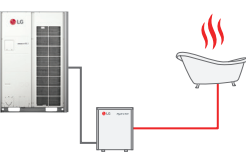
Radiant Heating / Cooling



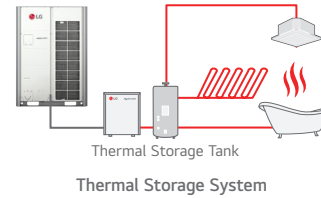
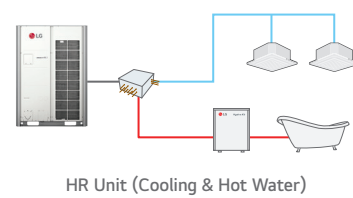
Fan Coil Unit Heating / Cooling



Hot Water / Cold Water

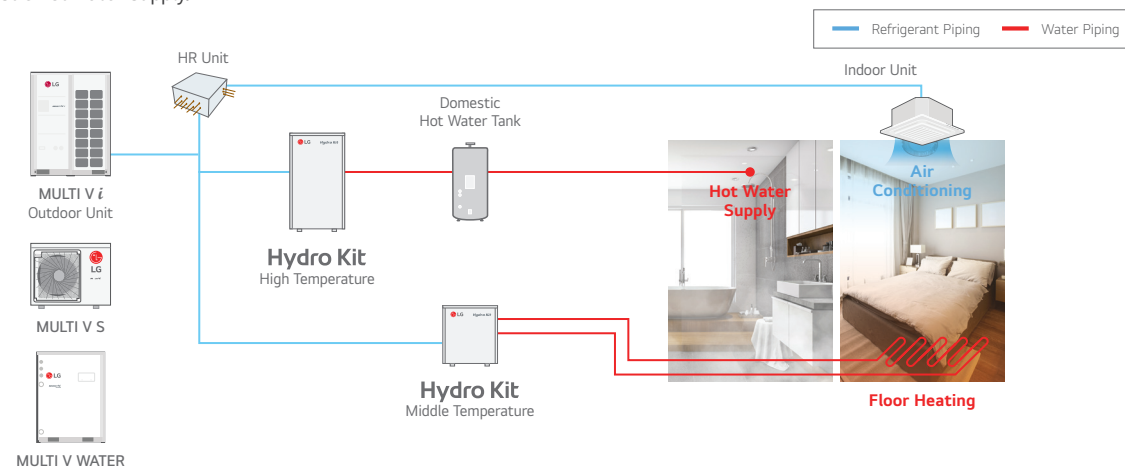


Combination



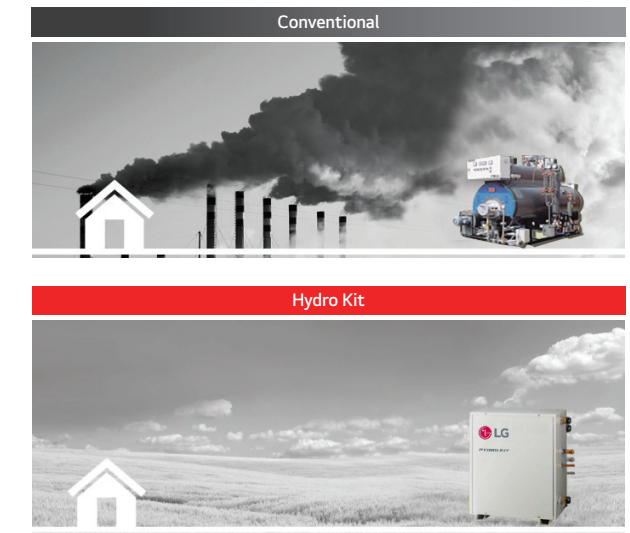
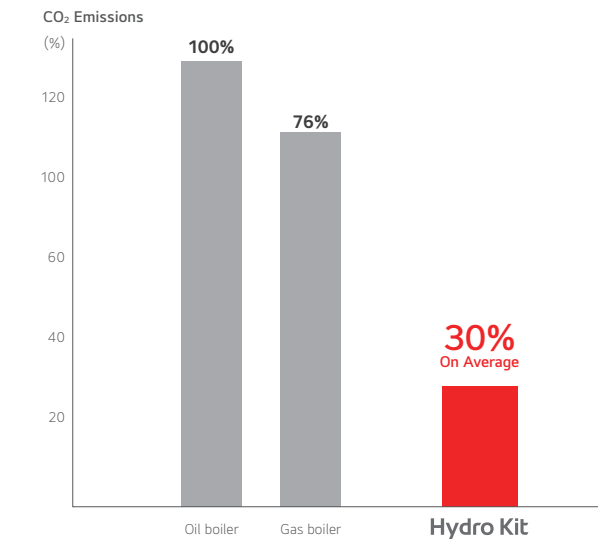
Total Solution

A total solution is provided with a heat pump, air conditioning (cooling by refrigerant and cold water / heating by refrigerant hot water) and domestic hot water supply.



Eco-conscious Solution

Green energy solution through the reduction of CO₂ emissions.



Seasonal Auto Mode

With Seasonal Auto Mode, the target temperature and operation mode will be changed automatically depending on the outdoor temperature. This function is not only convenient, but also saves energy.

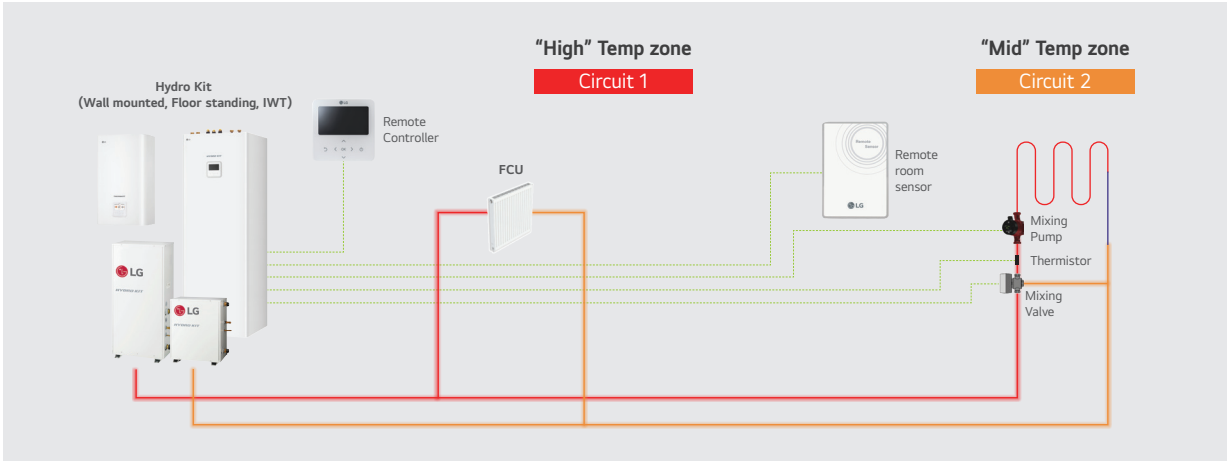


- ※ This function does not apply to DHW.
- ※ User should set the range of the outdoor temperature and the target temperature.
- ※ The target leaving water temperature can also be set as the target indoor air temperature.
- ※ High Temperature Hydro Kit does not allow to change mode and only automatically change the target temperature within the heating mode.

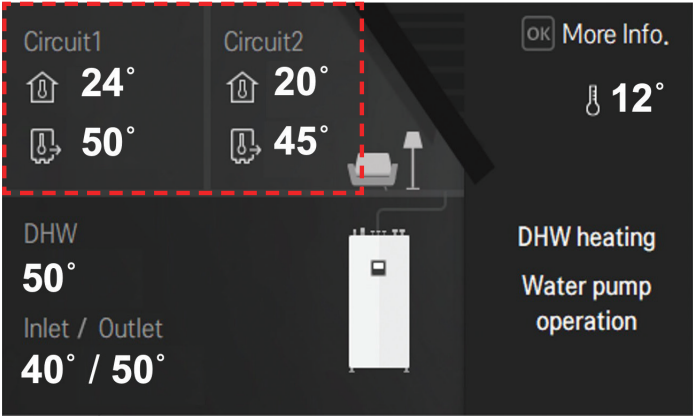
2nd Circuit

Hydro Kit can provide a solution to control two different set temperatures for two circuits. Just one Hydro Kit can meet the different needs of each room.

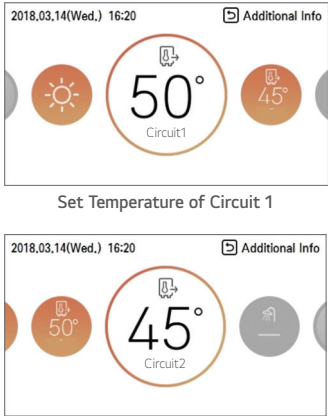
2nd Heating Circuit Diagram



Remote Controller UI



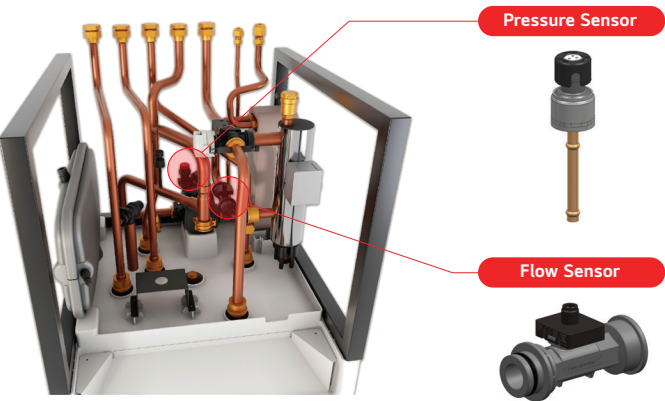
※ The images above are to help customers understand, and may differ from the actual ones.
※ When applying the two circuit system, circuit 1 is for the high temp. zone and circuit 2 is for the low temp. zone.



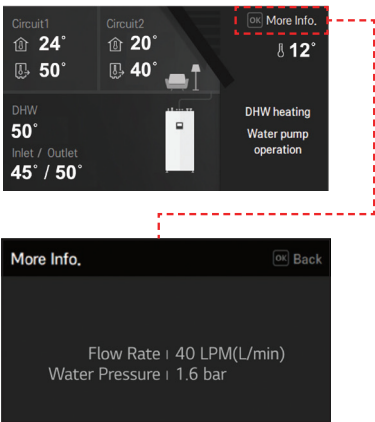
Set Temperature of Circuit 2

Water Circuit Monitoring

Not only water circuit temperature but also flow rate and pressure can be monitored via remote controller. This information is not only useful for the installer during installation, but also helps to periodically clean the strainer during maintenance.



※ The above images are for customer understanding.



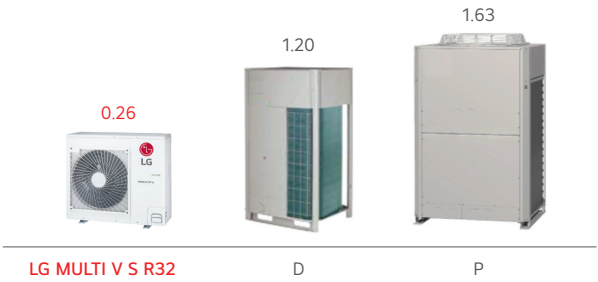
Space Saving

Wall mounted hydro kit with MULTI V S outdoor is suitable for residential applications with its compact size and design.



Compatible with compact R32 MULTI V S

Product Volume (m³)



Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

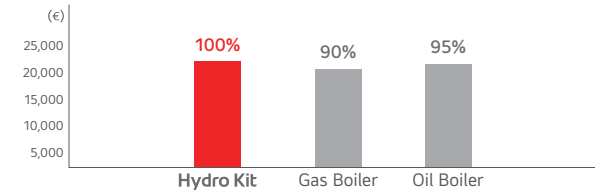
1st Proposal MULTI V i HYDRO KIT

(Air Conditioning + Hot Water Supply + Floor Heating)
2nd Proposal MULTI V i Air-Conditioning + Gas Boiler
(Hot Water Supply + Floor Heating)
3rd Proposal MULTI V i Air-Conditioning + Oil Boiler
(Hot Water Supply + Floor Heating)

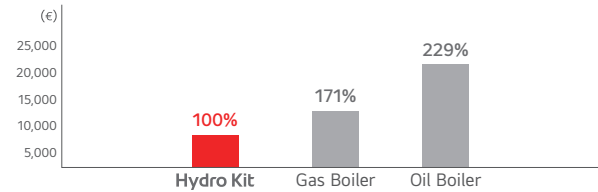
Analysis Conditions

- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost : Average Cost in EU
- Oil Cost : Average Cost in EU

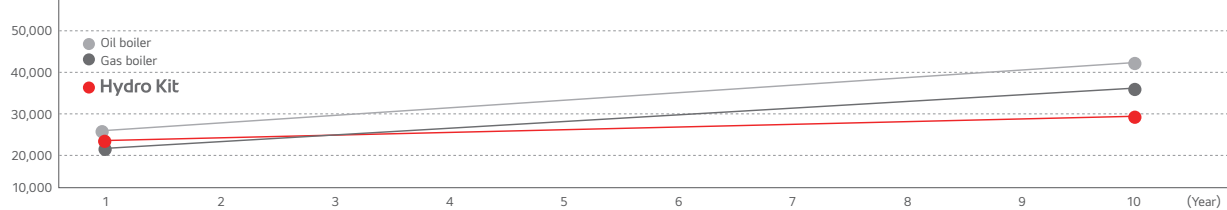
Initial Costs



Annual Operating Costs



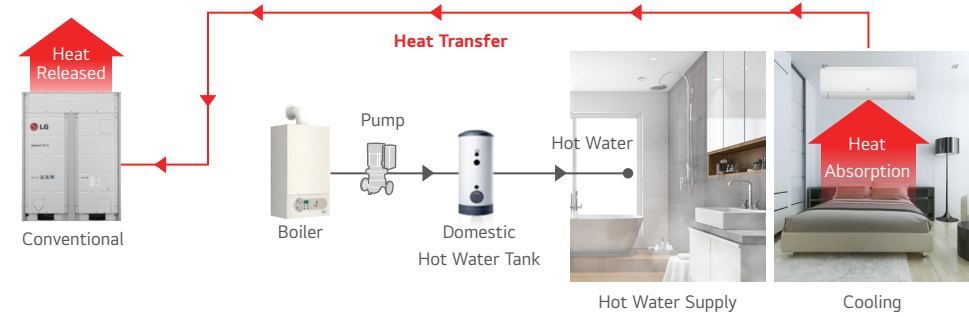
LCC



Energy Savings through Heat Recovery

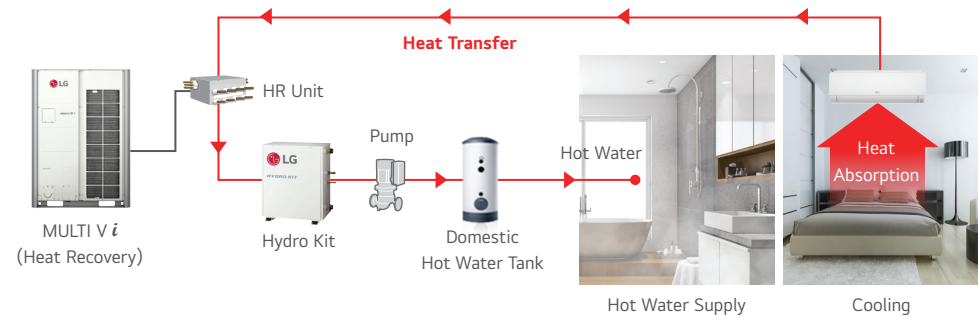
Conventional

Absorbed heat is released to outdoor air.

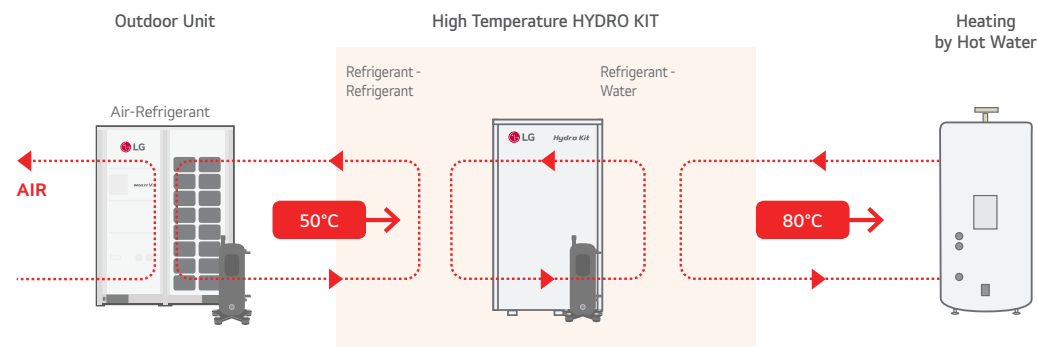


HYDRO KIT

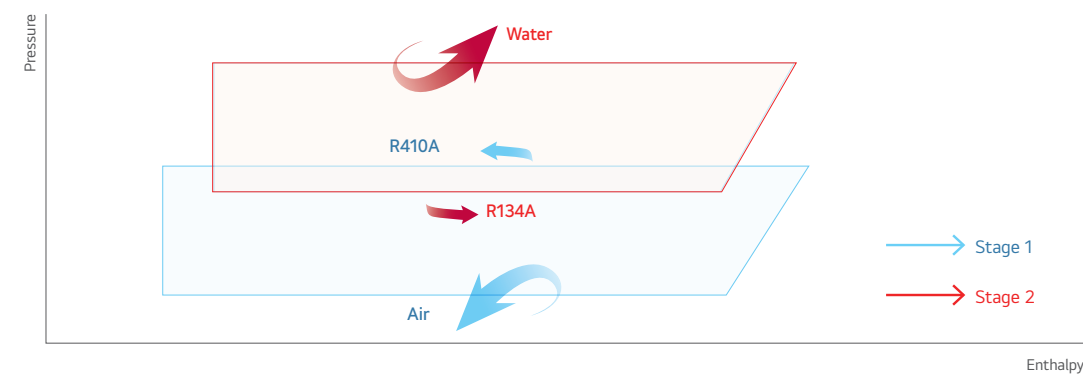
Absorbed heat from indoor space is used for making hot water.



High Temperature HYDRO KIT Cycle Diagram



High Temperature Technology



Various Applications

Applicable to a variety of facilities, including hospitals, residences and resorts that need heating and domestic hot water supply.



Dormitory



Hotel



Office



Restaurant



Fitness



Hospital



Factory



Residential

ARNH18GK1B4 / ARNH24GK1B4
ARNH30GK1B4



MODEL				UNIT	ARNH18GK1B4	ARNH24GK1B4	ARNH30GK1B4	
Power Supply		-		V, Ø, Hz	220-230-240, 1, 50/60	220-230-240, 1, 50/60	220-230-240, 1, 50/60	
Capacity (Rated)	Cooling			kW	5.6	7.1	9.0	
				kcal/h	4,800	6,100	7,700	
				Btu/h	19,100	24,200	30,700	
	Heating			kW	5.6	7.1	9.0	
				kcal/h	4,800	6,100	7,700	
				Btu/h	19,100	24,200	30,700	
Input (Rated)	Cooling			W	75	75	75	
	Heating			W	75	75	75	
Running Current (220-230-240V)	Cooling / Heating			A	0.70 - 0.67 - 0.64	0.70 - 0.67 - 0.64	0.70 - 0.67 - 0.64	
Casing	Material			-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate	
	RAL (Classic)			-	RAL 9016	RAL 9016	RAL 9016	
Dimensions	Net (W x H x D)			mm	490 x 850 x 315	490 x 850 x 315	490 x 850 x 315	
	Shipping (W x H x D)			mm	563 x 1,082 x 375	563 x 1,082 x 375	563 x 1,082 x 375	
Weight	Net			kg	38.8	38.8	38.8	
	Shipping			kg	43.7	43.7	43.7	
Heat Exchanger	Refrigerant to Water	Type		-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	
		Quantity		EA	1	1	1	
		Number of Plate		EA	52	52	52	
		Water Volume		ℓ	0.7	0.7	0.7	
		Rated Water Flow		ℓ/min	15.8	20.1	25.9	
Head Loss					m	0.49	0.76	1.19
Water Pump	Type			-	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation	
	Model			-	GRUNDFOS UPM3K 20-75 CHBL	GRUNDFOS UPM3K 20-75 CHBL	GRUNDFOS UPM3K 20-75 CHBL	
	Motor Type			-	BLDC	BLDC	BLDC	
	Steps of Pump Performance			-	Variable Capacity 10% to 100%	Variable Capacity 10% to 100%	Variable Capacity 10% to 100%	
	Power Input	Min. ~ Max.		W	3 ~ 60	3 ~ 60	3 ~ 60	
Expansion Vessel	Volume	Max.		ℓ	8.0	8.0	8.0	
	Water Pressure	Max.		bar	3.0	3.0	3.0	
	Water Pressure	Pre-charged		bar	1.0	1.0	1.0	
Strainer	Mesh Size			-	30 mesh	30 mesh	30 mesh	
	Material			-	Stainless Steel	Stainless Steel	Stainless Steel	
Relief Valve	Pressure Limit	Upper Limit		bar	3.0	3.0	3.0	



MODEL				UNIT	ARNH18GK1B4	ARNH24GK1B4	ARNH30GK1B4
Backup Heater	Type			-	Sheath	Sheath	Sheath
	Number of Heating Coil			EA	2	2	2
	Capacity Combination			kW	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
	Operation			-	Automatic	Automatic	Automatic
	Heating Steps			Step	2	2	2
	Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
	FLA			A	31.0	31.0	31.0
	Power Cable (H07RN-F) (Included Earth)			mm² x cores	4.0 x 3C	4.0 x 3C	4.0 x 3C
Flow Sensor	Type			-	Vortex	Vortex	Vortex
	Model			-	SIKA VVX20	SIKA VVX20	SIKA VVX20
	Measuring Range	Min. ~ Max.		ℓ/min	5 ~ 80	5 ~ 80	5 ~ 80
	Flow (Trigger Point)	Min.		ℓ/min	7.0	7.0	7.0
Temperature Control				-	Microprocessor, Thermostat for Cooling and Heating	Microprocessor, Thermostat for Cooling and Heating	Microprocessor, Thermostat for Cooling and Heating
Water Tank Temperature Sensor	Type (Sensor Holder)			-	Male PT 1/2 inch	Male PT 1/2 inch	Male PT 1/2 inch
	Length			m	12	12	12
Sound Absorbing Thermal Insulation Material				-	Foamed Polystrene	Foamed Polystrene	Foamed Polystrene
Safety Device				-	Fuse	Fuse	Fuse
Piping Connections	Water Side	Inlet		-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
		Outlet		-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
	Refrigerant Side	Liquid		mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
		Gas		mm(inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Power Cable Supply Cable (H07RN-F)				mm² x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Communication Cable (VCTF-SB)				mm² x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Power Cable Supply Cable (H07RN-F)				mm² x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Refrigerant	Refrigerant to Water	Type		-	R410A / R32	R410A / R32	R410A / R32
		Additional Refrigerant Charge		kg (lbs)	0.52 / 0.43	0.52 / 0.43	0.52 / 0.43
		Control		-	EEV	EEV	EEV
Sound Pressure Level	Cooling / Heating	Rated		dB(A)	35	35	35
Sound Power Level	Cooling / Heating	Rated		dB(A)	44	44	44

Note

1. Due to our policy of innovation some specifications may be changed without notification.

2. Wiring cable size must comply with the applicable local and national codes.

And "Electric characteristics" chapter should be considered for electrical work and design.

Especially the power cable and circuit breaker should be selected in accordance with that.

3. Performances are based on the following conditions :

- Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
- Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is standard length and difference of Elevation (Outdoor - Indoor Unit) is 0m.

4. This product contains Fluorinated greenhouse gases.

5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.

Therefore, these values can be increased owing to ambient conditions during operation.

ARNH18GK5A4 / ARNH24GK5A4
ARNH30GK5A4



MODEL				UNIT	ARNH18GK5A4	ARNH24GK5A4	ARNH30GK5A4
Power Supply		-		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Capacity (Rated)	Cooling			kW	5.6	7.1	9.0
				kcal/h	4,800	6,100	7,700
				Btu/h	19,100	24,200	30,700
	Heating			kW	5.6	7.1	9.0
				kcal/h	4,800	6,100	7,700
				Btu/h	19,100	24,200	30,700
Input (Rated)	Cooling			W	75.0	75.0	75.0
	Heating			W	75.0	75.0	75.0
Water Pump	Type			-	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation
	Model (Maker, Name)			-	GRUNDFOS (UPM3K 20-75 CHBL)	GRUNDFOS (UPM3K 20-75 CHBL)	GRUNDFOS (UPM3K 20-75 CHBL)
	Motor Type			-	BLDC	BLDC	BLDC
	Steps of Pumping Performance			-	10 ~ 100% (19 Steps)	10 ~ 100% (19 Steps)	10 ~ 100% (19 Steps)
	Power Input	Min. ~ Max.		W	3 ~ 60	3 ~ 60	3 ~ 60
Expansion Tank	Volume	Max.		ℓ	8	8	8
	Water Pressure	Max.		bar	3	3	3
	Water Pressure	Pre-charged		bar	1	1	1
Strainer	Mesh Size			mesh	30	30	30
	Material			-	STS304	STS304	STS304
Safety Valve (Water Cycle)	Pressure Limit (Upper Limit)			bar	3	3	3
Satey Vavle (DHW)	Pressure Limit (Upper Limit)			bar	10	10	10
Flow Sensor	Type			-	Vortex	Vortex	Vortex
	Model (Marker, Name)			-	SIKA VVX20	SIKA VVX20	SIKA VVX20
	Measuring Range (Min ~ Max)			ℓ/min	5 ~ 80	5 ~ 80	5 ~ 80



MODEL				UNIT	ARNH18GK5A4	ARNH24GK5A4	ARNH30GK5A4
Electric Backup Heater	Type			-	Sheath	Sheath	Sheath
	Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
	Number of Heating Coil			EA	2	2	2
	Capacity Comnination			kW	3	3	3
	Power Supply Cable (H07RN-F)			mm² x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Heat Exchanger (Refrigerant to Water)	Type			-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
	Quantity			EA	1	1	1
	Number of Plate			Sheet	52	52	52
Refrigerant Piping Connection	Liquid			mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas			mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Sound Power Level	Heating (Rated)			dB (A)	42	42	42
Dimensions	Net (W x H x D)			mm	600 x 1,750 x 660	600 x 1,750 x 660	600 x 1,750 x 660
	Shipping (W x H x D)			mm	660 x 2,009 x 750	660 x 2,009 x 750	660 x 2,009 x 750
Weight	Net			kg	118	118	118
	Shipping			kg	137	137	137
Connecting Cable	Power Supply Cable (H07RN-F)			mm² x cores	1.5 x 3C	1.5 x 3C	1.5 x 3C
	Communication Cable (VCTF-SB)			mm² x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note

1. Due to our policy of innovation some specifications may be changed without notification.

2. Wiring cable size must comply with the applicable local and national codes.
And "Electric characteristics" chapter should be considered for electrical work and design.
Especially the power cable and circuit breaker should be selected in accordance with that.

3. Performances are based on the following conditions :
- Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
- Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

4. This product contains Fluorinated greenhouse gases.

5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.

ARNH04GK2B4 / ARNH10GK2B4
ARNH16GK2B4



MODEL			UNIT	ARNH04GK2B4	ARNH10GK2B4	ARNH16GK2B4
Capacity (Rated)	Cooling		kW	12.3	28.0	46.4
			kcal/h	10,580	24,100	39,900
			Btu/h	42,000	95,900	158,300
	Heating		kW	13.8	31.5	52.0
			kcal/h	11,870	27,100	44,700
			Btu/h	47,000	107,500	177,400
Input (Rated)	Cooling	kW	0.01	0.01	0.01	
	Heating	kW	0.01	0.01	0.01	
Casing	Material	-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate	
	Color (RAL code)	-	RAL 7030	RAL 7030	RAL 7030	
Dimensions	Net	Body (W x H x D)	mm	520 x 631 x 330	520 x 631 x 330	520 x 631 x 330
			inch	20-15/32 x 24-27/32 x 13	20-15/32 x 24-27/32 x 13	20-15/32 x 24-27/32 x 13
Weight	Net	Body	kg (lbs)	30.5 (67.2)	35.5 (78.3)	47 (103.6)
		Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
Heat Exchanger	Refrigerant to Water	Quantity	EA	1	1	1
		Number of Plate	EA	26	48	96
		Rated Water Flow	l / min	39.6	92.0	150.0
		Head Loss	kPa	41.0	69.0	54.8
		Type	-	Vortex	Vortex	Vortex
Flow Sensor		Model	-	SIKA VVX20	SIKA VVX25	SIKA VVX25
		Mesasuring Range (Min. ~ Max.)	l / min	5 ~ 80	7 ~ 150	7 ~ 150
		Flow (Trigger Point, Min.)	l / min	7.0	15.0	15.0
Temperature Control			-	Microprocessor, Thermostat for Cooling and Heating		
Water Tank		Type (Sensor Holder)	inch	Male PT 1/2	Male PT 1/2	Male PT 1/2
Temperature Sensor		Length	m	12	12	12
Sound Absorbing Thermal Insulation Material			-	Foamed Polystrene	Foamed Polystrene	Foamed Polystrene
Safety Device				Fuse	Fuse	Fuse
Piping	Water Side	Inlet	inch	Male PT 1	Male PT 1	Male PT 1 1/4
		Outlet	inch	Male PT 1	Male PT 1	Male PT 1 1/4
Connections	Refrigerant Side	Liquid	mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
		Gas	mm(inch)	Ø15.88 (5/8)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Drain Piping Connection				Male PT 1	Male PT 1	Male PT 1
Sound Pressure Level	Cooling		dB(A)	26	26	30
	Heating		dB(A)	26	26	30
Transmission Cable			mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant to Water	Refrigerant name	-	R410A / R32	R410A / R32	R410A / R32
		Additional Refrigerant Charge Amount	kg (lbs)	0.8 (1.76) / 0.66 (1.46)	1.60 (3.53) / 1.32 (2.91)	2.4 (5.29) / 2.9 (6.39)
		GWP (Global Warming Potential)	-	2,087.5	2,087.5	2,087.5
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Running Current		Cooling / Heating	A	0.13 - 0.13 - 0.13	0.13 - 0.13 - 0.13	0.13 - 0.13 - 0.13

1) Nominal : Performance tested under EN14511
Note :
1. Capacities are based on the following conditions :
- Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V Water S cannot be connected to Hydro Kit.
5. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.
6. Due to our policy of innovation some specifications may be changed without notification.

Accessories

CHASSIS	ARNH04GK2B4	ARNH10GK2B4	ARNH16GK2B4
Drain Pump		-	-
Cassette Cover		-	-
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit		-	-
Multi-tenant Power Module		○	-
Robot Cleaner		-	-
Pre Filter (Washable)		-	-
Ion Generator		-	-
CO ₂ Sensor		-	-
Ventilation Kit		-	-
IR Receiver		-	-
Zone Controller		-	-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320	
External Input (1 point)		○	
Wi-Fi		PWFMD202	

※ ○ : Applied, - : Not applied
Option : Refer to model name in table

ARNH04GK3B4 / ARNH08GK3B4
ARNH04LK3B4 / ARNH08LK3B4



MODEL			UNIT	ARNH04GK3B4	ARNH08GK3B4	ARNH04LK3B4	ARNH08LK3B4
Capacity (Rated)	Heating		kW	13.8	25.2	13.8	25.2
			kcal/h	11,870	21,700	11,870	21,700
			Btu/h	47,000	86,000	47,000	86,000
Input (Rated)		Heating	kW	2.30	5.00	2.30	5.00
Casing	Material	Color (RAL code)	-	Painted Steel Plate RAL 7030	Painted Steel Plate RAL 7030	Painted Steel Plate RAL 7030	Painted Steel Plate RAL 7030
			-				
Dimensions	Net	Body (W x H x D)	mm	520 x 1,074 x 330	520 x 1,074 x 330	520 x1,074 x 330	520 x1,074 x 330
			inch	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13
Weight	Net	Body	kg (lbs)	86.0 (189.6)	90.0 (198.4)	84.0 (185.2)	90.0 (198.4)
	Refrigerant to Refrigerant	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
Heat Exchanger	Refrigerant to Water	Quantity	EA	1	1	1	1
		Number of Plate	EA	50	60	50	60
		Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1	1	1
		Number of Plate	EA	48	76	48	76
		Rated Water Flow	l / min	19.8	36	19.8	36
		Head Loss	kPa	5	20	5	20
		Type	-	Vortex	Vortex	Vortex	Vortex
Flow Sensor	Model	-	SIKA VVX20	SIKA VVX20	SIKA VVX20	SIKA VVX20	
	Mesasuring Range (Min. ~ Max.)	l / min	5 ~ 80	5 ~ 80	5 ~ 80	5 ~ 80	
	Flow (Trigger Point, Min.)	l / min	7.0	7.0	7.0	7.0	
Compressor		Type	-	Twin Rotary Inverter	Twin Rotary Inverter	Twin Rotary Inverter	Twin Rotary Inverter
		Piston Displacement	cm²/rev	52.5	52.5	52.5	52.5
		Number of Revolution	rev/min	3,600	3,600	3,600	3,600
		Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1	4,000 x 1
		Starting Method	-	Direct On Line	Direct On Line	Direct On Line	Direct On Line
		Oil Type	-	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
		Oil Charge	cc	1,300	1,300	1,300	1,300
		-	-		Microprocessor, Thermostat for Heating		
Temperature Control Water Tank	Type(Sensor Holder)	inch	Male PT 1/2	Male PT 1/2	Male PT 1/2	Male PT 1/2	
Temperature Sensor	Length	m	12	12	12	12	
Sound Absorbing Thermal Insulation Material			-	Foamed Polystrene			
Safety Device				Fuse, High Pressure Switch			
Piping Connections	Water Side	Inlet	inch	Male PT1	Male PT 1	Male PT1	Male PT 1
		Outlet	inch	Male PT1	Male PT 1	Male PT1	Male PT 1
	Refrigerant Side	Liquid	mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
		Gas	mm(inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø15.88 (5/8)	Ø19.05 (3/4)
Drain Piping Connection			-	-	-	-	
Sound Pressure Level		Heating	dB(A)	44	46	44	46
Transmission Cable			mm²	2C x 1.0-1.5 R410A / R32	2C x 1.0-1.5 R410A / R32	2C x 1.0-1.5 R410A / R32	2C x 1.0-1.5 R410A / R32
Refrigerant	Refrigerant to Refrigerant	Refrigerant name	-	0.8 (1.8) / 0.66 (1.5)	1.0 (2.2) / 0.83 (1.8)	0.8 (1.8) / 0.66 (1.5)	1.0 (2.2) / 0.83 (1.8)
		Additional Refrigerant Charge Amount	-				
		Control	-				
	Refrigerant to Water	Refrigerant name	-	R134A	R134A	R134A	R134A
		Refrigerant Pre-charge Amount	kg (lbs)	2.3 (5.1)	3.0 (6.6)	2.3 (5.1)	3.0 (6.6)
		GWP (Global Warming Potential)	-	3.29	4.29	3.29	4.29
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Running Current	Cooling / Heating		A	10.56 - 10.10 - 9.68	23.00 - 22.00 - 21.08	6.05 - 5.75 - 5.54	13.16 - 12.50 - 12.05

1) Nominal : Performance tested under EN14511
Note :
1. Capacities are based on the following conditions :
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V Water S cannot be connected to Hydro Kit.
5. Due to our policy of innovation some specifications may be changed without notification.

Accessories

CHASSIS	ARNH04GK3B4	ARNH08GK3B4	ARNH04LK3B4	ARNH08LK3B4
Drain Pump		-	-	-
Cassette Cover		-	-	-
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit		-	-	-
Multi-tenant Power Module		○	-	-
Robot Cleaner		-	-	-
Pre Filter (Washable)		-	-	-
Ion Generator		-	-	-
CO ₂ Sensor		-	-	-
Ventilation Kit		-	-	-
IR Receiver		-	-	-
Zone Controller		-	-	-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320		
External Input (1 point)		○		
Wi-Fi		PWFMD202		

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Option : Refer to model name in table