

## **SVC MANUAL (Exploded View)**

# **Water Storage (DHW, Buffer)**

P/No.: MFL05852802  
Rev.00\_121025

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This manual may contain images or content different from the model you purchased.



This manual is subject to revision by the manufacturer.

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# 1. SAFETY PRECAUTION

To prevent injury to the user or other people and property damage, the following instructions must be followed.









- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.










 <b>WARNING</b>	This symbol indicates the possibility of death or serious injury.
 <b>CAUTION</b>	This symbol indicates the possibility of injury or damage to properties only.




- Meanings of symbols used in this manual are as shown below.

	<b>Be sure not to do.</b>
	<b>Be sure to follow the instruction.</b>
	<b>Dangerous Voltage</b>








## Safety Precautions in Repair

 <b>WARNING</b>	
	Be sure to disconnect all remote electric power supplies before servicing. Internal components and circuit boards are at main potential when the equipment is connected to the power cables. This voltage is extremely dangerous and may cause death or severe injury if come in contact with it.
	When removing the front panel or cabinet, execute short-circuit and discharge between high voltage capacitor terminals. If discharge is not executed, an electric shock is caused by high voltage resulted in a death or injury.
	Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.
	Do not use a defective or underrated circuit breaker. Use the correctly rated breaker and fuse. Otherwise there is a risk of fire or electric shock.
	Install the panel and the cover of control box securely. Otherwise there is risk of fire or electric shock due to dust, water etc.
	Do not touch, operate, or repair the product with wet hands. Holding the plug by hand when taking out. Otherwise there is risk of electric shock or fire.
	Do not turn on the breaker or power under condition that front panel, cabinet, top cover, control box cover are removed or opened. Otherwise, it may cause fire, electric shock, explosion or death.

	The appliance shall be stored so as to prevent mechanical damage from occurring
	Repairs to sealed electric components Sealed electrical components shall not be repaired.
	<ul style="list-style-type: none"> <li>• Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.</li> <li>• Do not pierce or burn.</li> <li>• Two or more people must lift and transport the product. Avoid personal injury.</li> </ul>
	<p><b>General work area</b></p> <p>All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.</p>
	<p><b>Checks to electrical devices</b></p> <p>Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.</p>
	<p><b>Initial safety checks shall include</b></p> <ul style="list-style-type: none"> <li>- Capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.</li> <li>- No live electrical components and wiring are exposed While recovering or the system.</li> <li>- Continuity of earth bonding</li> </ul>
	The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
	Servicing shall only be performed as recommended by the equipment manufacturer.
	When mechanical connectors are reused indoors, sealing parts shall be renewed.



	Mechanical connections (mechanical connectors) shall be accessible for maintenance purposes.
	Do not pierce or burn.
	Dismantling the unit and treatment of eventual parts should be done in accordance with local and national standards.

 **CAUTION**






	Be sure to earth the appliance with an earthing conductor connected to the earthing terminal.
	Do not tilt the unit when removing panels. Otherwise, the water inside the unit can spill and wet floor.
	The appliance shall be disconnected from its power source during service and when replacing parts.
	The noe hose-sets supplied with the appliance are to be used and that old hosesets should not be reused.
	If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
	The instructions for service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand.
	Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.

## Inspections after Repair

### WARNING

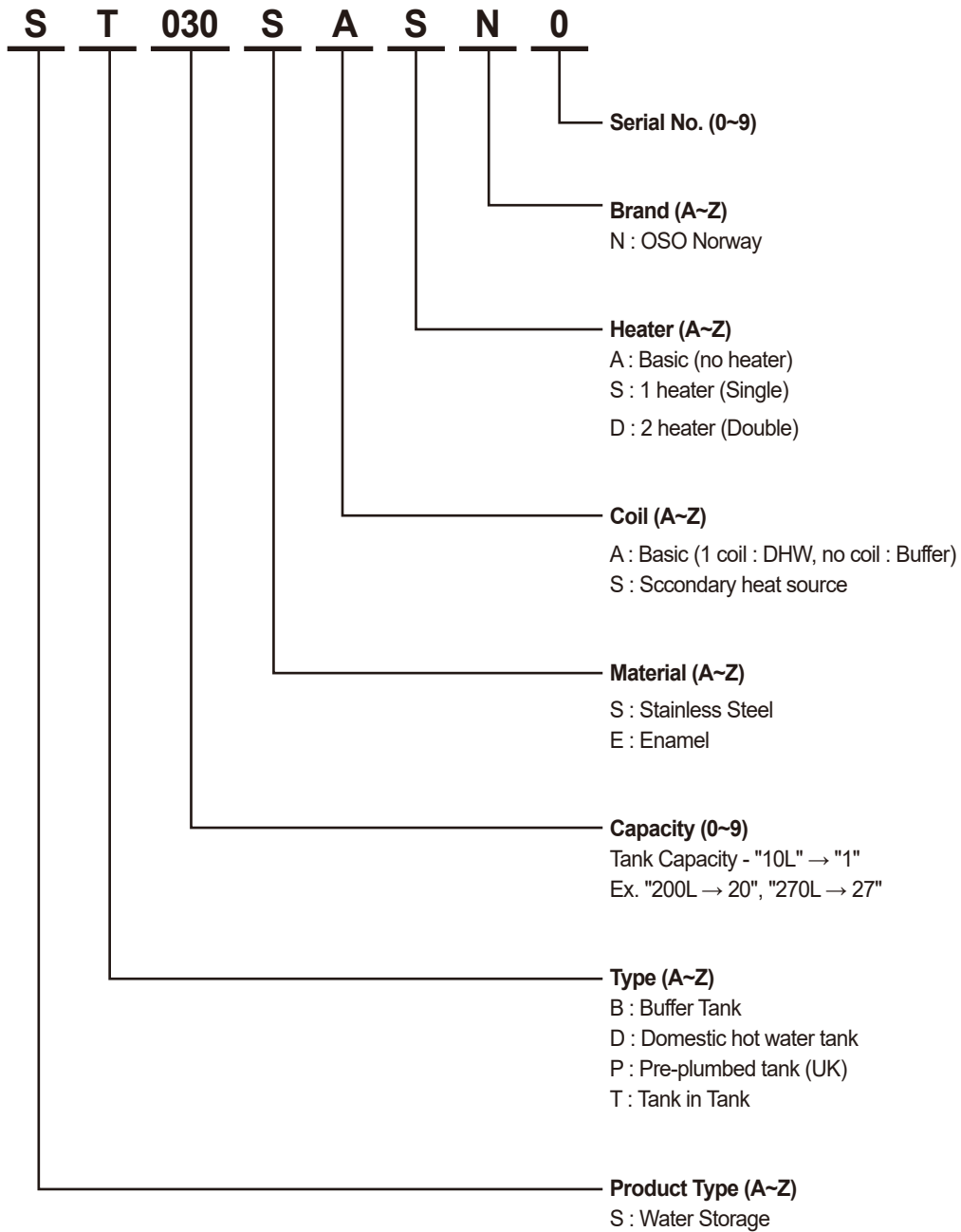
	Check to see if the terminal block is not dirty or loose. If terminal block is dust or loose it can cause an electrical shock or fire.
	Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances. otherwise, it can cause an electrical shock, excessive heat generation or fire.

### CAUTION

	Check to see if the parts are mounted correctly and wires are connected. Improper installation and connections can cause an electric shock or an injury.
	Check the installation platform or frame has corroded. Corroded installation platform or frame can cause the unit to fall, resulting in injury.
	Be sure to check the earth wire is correctly connected.
	After the work has finished, be sure to do an insulation test to check the resistance is 2[Mohm] or more between the charge section and the non-charge metal section (Earth position). If the resistance value is low, a disaster such as a leak or electric shock is caused at user's side.
	Check the drainage of the indoor unit after the repair. If drainage is faulty the water to enter the room and wet floor.

## 2. NOMENCLATURE

### Factory/Buyer Model Name

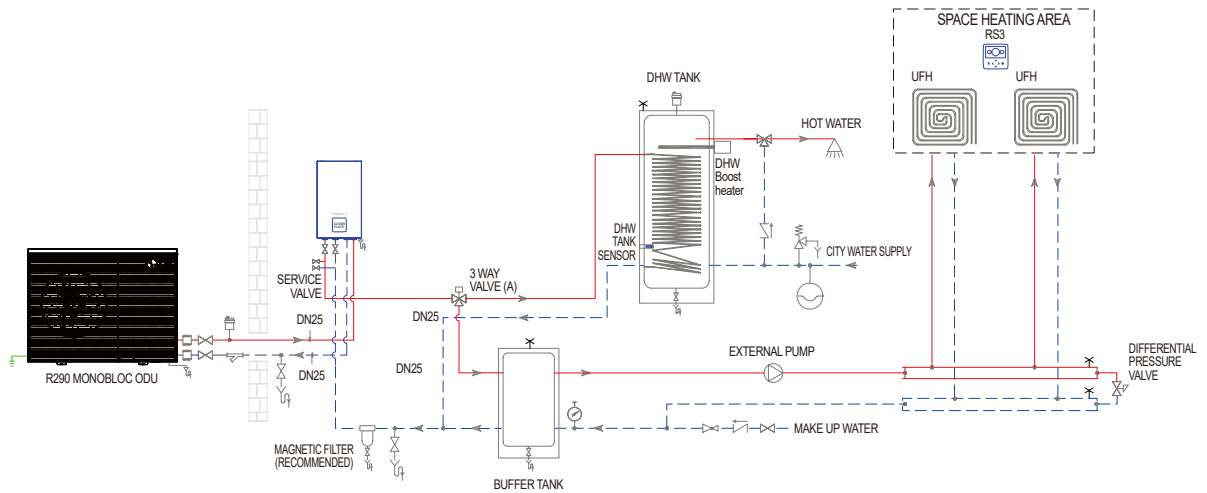


## 3. PRODUCT SPECIFICATIONS

Category	Unit	ST030SASN0
Capacity	-	300
ERP Rating	-	B
Actual (Net) Volume	L	223 / 62
Freight Volume	m <sup>3</sup>	0.64
V40 vol.(mixed water at 40°C)	L	375
Material	-	Stainless steel
Dimension(Dia. X Height)	mm	Ø595 x 1,760
Weight(Net)	kg	63
Heating element	kW	2.8
Heat exchange surface	m <sup>2</sup>	1.8
Power Supply for heating element	Φ, V	1x230V
Standing heat loss	W	54
	kWh/24h	1.3
Thermostat range	°C	50~80
Thermo. Initial set temp	°C	75
IP Code	-	IP21
Installation	-	Floor standing
Appliance feet	mm	Adjustable 0~40mm

# 4. PIPING DIAGRAMS

Model : ST030SASN0



## NOTE

The exemplary diagram does not include all necessary safety and installation devices. This is not an 'as-built drawing'.

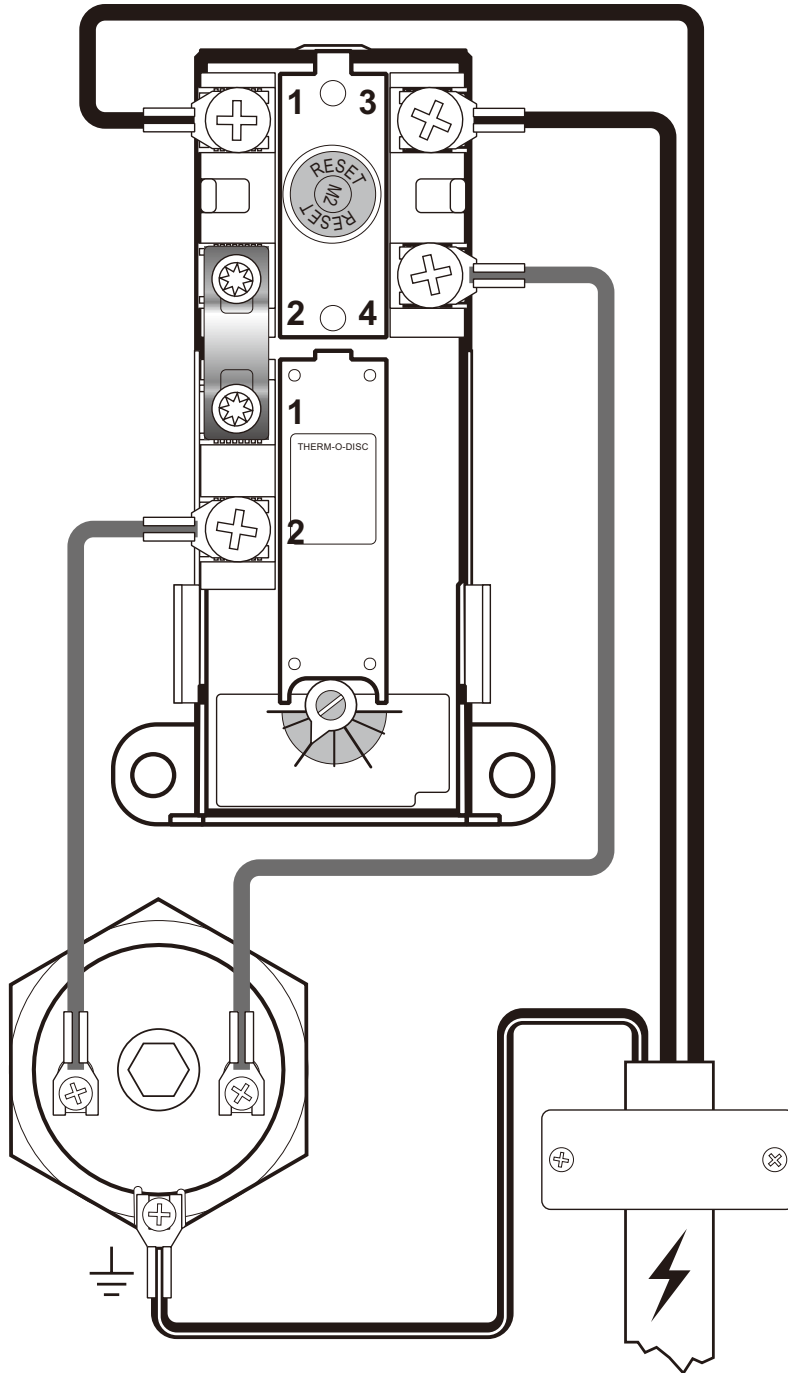
## Symbol & Legends

	Circulation Pump		Motorized 3 Way Valve		Check Valve		RS3 Remote Controller
	Expansion Tank		Motorized 2 Way Valve		Safety Relief Expansion Tank Valve with drain		Remote Room Air Sensor
	Air Vent		Differential Pressure Valve		Y-type strainer		Dry Contact
	Pressure Gauge		Thermostatic Mixing Valve		Flow Sensor		Wi-Fi Modem
	Flexible Connection		Shut Off Valve		Magnetic Contactor		Thermostat
	Drain		Pressure Reducing Valve		Drain Pan		Cover Plate

※ For more installation scenes, visit <http://partner.lge.com/> or contact your local LG office.  
 Select Region → Doc. Library → (Product) Heating → Application Guide → Referenced Drawing for Application

# 5. WIRING DIAGRAMS

Model : ST030SASN0



Electric connection, schematic

# 6. EXPLODED VIEW

Model : ST030SASN0

