

Rheem Instant Shower Heater Warranty Information (RBW Models)

The standard warranty applicable for this Rheem product and the term of the warranty may differ based on the country of purchase. Depending on your country of purchase, the warranty may be provided by a member of the Rheem Manufacturing Company group of companies (hereinafter referred to as "Rheem") or by Rheem's authorized partners. Where the warranty is provided by Rheem's authorized partners, these partners shall be exclusively responsible for all warranty related services, including the term of the warranty. Please contact your local Rheem retailer to enquire about the steps necessary to qualify for the applicable warranty and ensure that you complete those steps. Please ensure you retain a copy of your proof of purchase. For more information on the applicable warranty on your Rheem product, please contact your local Rheem retailer.



Actual product specification cosmetic design and accessories shown are correct at the time of printing and may be subjected to change without prior notice.



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Electric Instant Water Heaters **Instruction Manual**



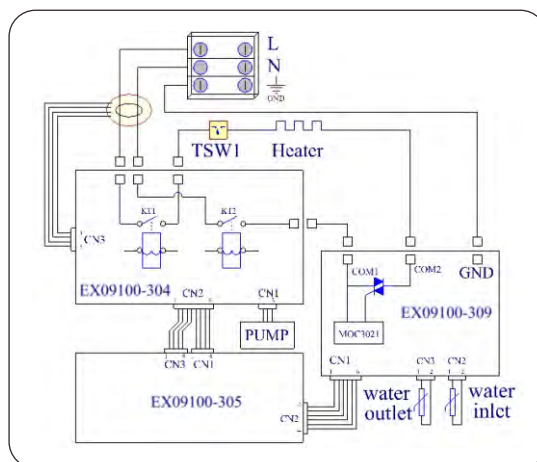
RBW-33B	RBW-35B-1	RBW-35B-1P	RBW-36B-1
RBW-36B-1P	RBW-45B-1	RBW-45B-1P	RBW-33M
RBW-35M-1	RBW-36M-1	RBW-45M-1	RBW-33P
RBW-33P-P	RBW-35P-1	RBW-35P-1P	RBW-36P-1
RBW-36P-1P	RBW-45P-1	RBW-45P-1P	
RBW-33P-1P LITE	RBW-45P-1P LITE		
RBW-35P-1P LITE	RBW-36P-1P LITE		

NOTES

[illegible]

Model Electrical Rating
Available in 3.5kW to 4.5kW, 220-240V AC,50/60Hz
Minimum Water Flow Rate
1.5L/minute(0 psi)
Maximum Water Pressure
380kPa(55 psi)
Minimum Water Pressure
20 kPa(2.9 psi)
Shower Temperature Control
Digital Interface
Water Connection
15mm(1/2" BSP)
Dimension
410mm x 202mm x 96mm
Weight
3.7kgs

Schematic Wiring Diagram



★ Schematic Wiring Diagram For MODEL:RBW-35P-1P
/RBW-36P-1P/RBW-45P-1P/RBW-35P-1P LITE
/RBW-36P-1P LITE/RBW-45P-1P LITE

Pages

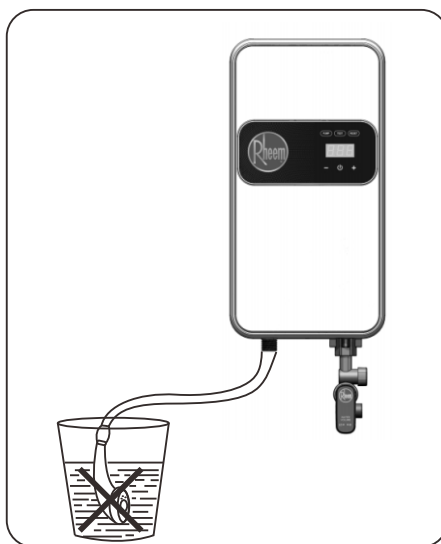
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Thank you for purchasing our Rheem Electric Instant Water Heater.
Please read this manual thoroughly and understand the content before use.

WARNING: This appliance is not to be used for a potable water supply.

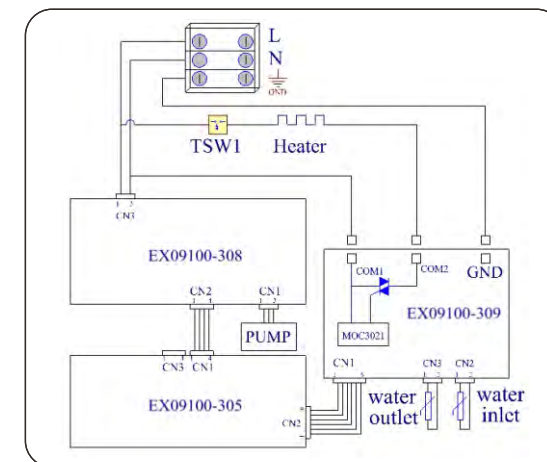
SAFETY PRECAUTION

1. Do not install reverse INLET & OUTLET of heater.
2. Do not install the heater where there is consistent spray directly over the unit.
3. Do not connect the OUTLET to any tap or fitting that is not recommended by the manufacturer. The installation instructions for open outlet water heaters shall state that the outlet must not be connected to any tap or fitting other than those specified. The water inlet of this appliance shall not be connected to inlet water obtained from any other water heating system.
4. Do not block the heater OUTLET in any way.
5. Do not attempt to repair the heater without a qualified technician.
6. Do not leave children, elderly or disable person alone in the shower. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Children being supervised should not play with the appliance.
7. Engage a qualified electrician for installation.
8. Test water temperature with hand before using the shower.
9. The water heater must be permanently connected to the electricity supply through a double pole linked switch having a contact separation of at least 3mm in all poles incorporated in the circuit, and out of reach from the person using the shower.
10. Do not leave the hand shower idle in a pail.
11. To ensure proper Functionality in Hardwater conditions, it is recommended to use a water Filtration system.



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Available in 3.3kW, 230V AC,50/60Hz
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Maximum Water Pressure
380kPa(55 psi)
Minimum Water Pressure
20 kPa(2.9 psi)
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15mm(1/2" BSP)
Dimension
410mm x 202mm x 96mm
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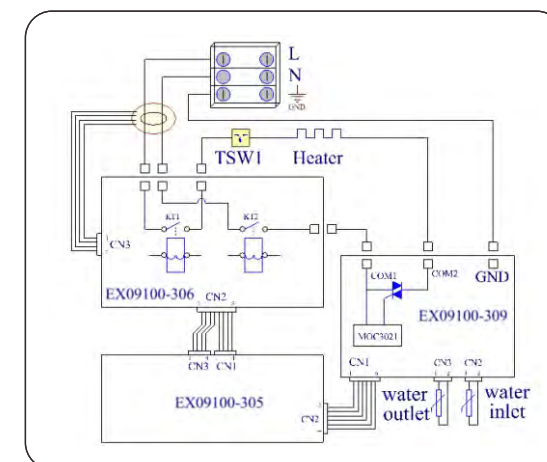
Schematic Wiring Diagram



★ Schematic Wiring Diagram For MODEL:RBW-33P-P
/RBW-33P-P LITE

Model Electrical Rating
Available in 3.5kW to 4.5kW, 220-240V AC,50/60Hz
Minimum Water Flow Rate
1.5L/minute(0 psi)
Maximum Water Pressure
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Minimum Water Pressure
20 kPa(2.9 psi)
Shower Temperature Control
Digital Interface
Water Connection
15mm(1/2" BSP)
Dimension
410mm x 202mm x 96mm
Weight
3.4kgs

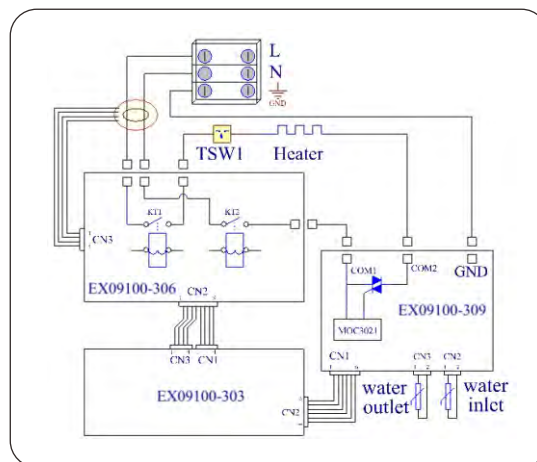
Schematic Wiring Diagram



★ Schematic Wiring Diagram For MODEL:RBW-35P-1
RBW-36P-1/RBW-45P-1

Model Electrical Rating
Available in 3.5kW to 4.5kW, 220-240V AC,50/60Hz
Minimum Water Flow Rate
1.5L/minute(0 psi)
Maximum Water Pressure
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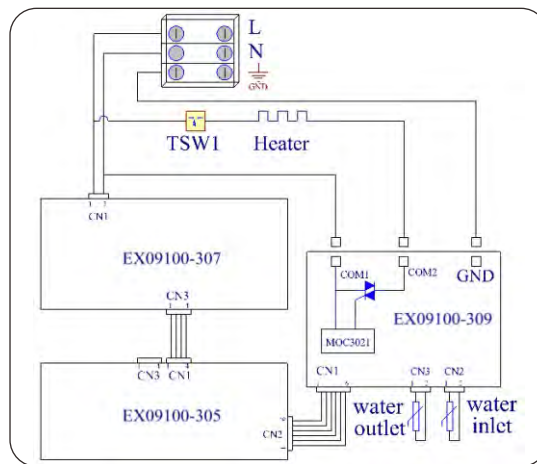
Schematic Wiring Diagram



★Schematic Wiring Diagram For MODEL:RBW-35M-1
RBW-36M-1/RBW-45M-1

Model Electrical Rating
Available in 3.3kW, 230V AC,50/60Hz
Minimum Water Flow Rate
1.5L/minute(0 psi)
Maximum Water Pressure
380kPa(55 psi)
Minimum Water Pressure
20 kPa(2.9 psi)
Shower Temperature Control
Digital Interface
Water Connection
15mm(1/2" BSP)
Dimension
410mm x 202mm x 96mm
Weight
3.4kgs

Schematic Wiring Diagram



★Schematic Wiring Diagram For MODEL:RBW-33P

Congratulations!

Thank you for making an excellent choice by purchasing the **RHEEM Electric water heater**.

Please read these instructions carefully for optimum performance, necessary fitting and operating instructions.

Your **RHEEM Heater** has been manufactured in a

ISO9001 registered company which provides you with assurances of its quality safety and environmental friendly.

Caution!

Read all of these instructions and retain this guide for later use.

Pass on this guide in the event of change of ownership of the installation site.

Follow all warnings, cautions and instructions contained in this guide, and on or inside the appliance.

Anyone who may have difficulty understanding or operating the controls of any shower should be attended while showering. Particular consideration should be given to the inexperienced in the correct operation of the controls as well as children should be supervised to ensure that they do not play with the appliance.

When this appliance has reached the end of its serviceable life, it should be disposed of in a safe manner, in accordance with current local authority recycling or waste disposal policy.

Unit

Shower Head

Shower Hose

Sliding Rail

Filter Stop Valve

Rubber Seal

X 2

Screws

X 3

Wall Plug

X 3

Screws Pack

Shower Hanger Ass'y

Soap Tray

Rail Holder

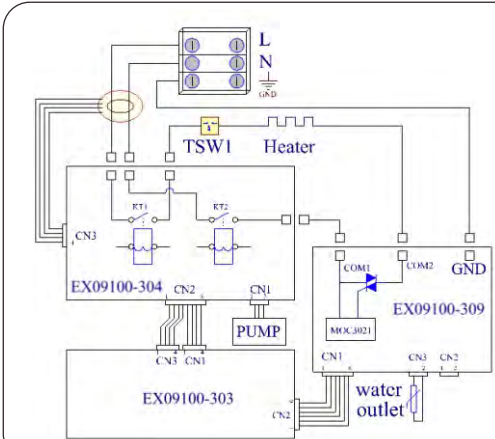
X 2

Operating and Installation Instructions

Mesh Filter Seal

Model Electrical Rating
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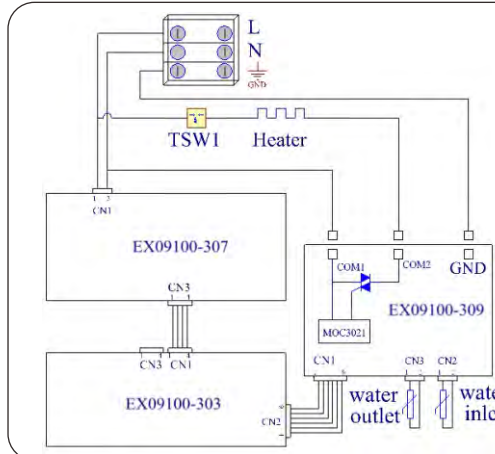
Schematic Wiring Diagram



★Schematic Wiring Diagram For MODEL:RBW-35B-1P RBW-36B-1P/RBW-45B-1P

Model Electrical Rating
Available in 3.3kW, 230V AC,50/60Hz
Minimum Water Flow Rate
1.5L/minute(0 psi)
Maximum Water Pressure
380kPa(55 psi)
Minimum Water Pressure
20 kPa(2.9 psi)
Shower Temperature Control
Digital Interface
Water Connection
15mm(1/2" BSP)
Dimension
410mm x 202mm x 96mm
Weight
3.4kgs

Schematic Wiring Diagram



★ Schematic Wiring Diagram For MODEL:RBW-33M

Model Electrical Rating

Available in 3.3kW,
230V AC,50/60Hz

Minimum Water Flow Rate
1.5L/minute(0 psi)

Maximum Water Pressure
380kPa(55 psi)

Minimum Water Pressure
20 kPa(2.9 psi)

Shower Temperature Control

Digital Interface

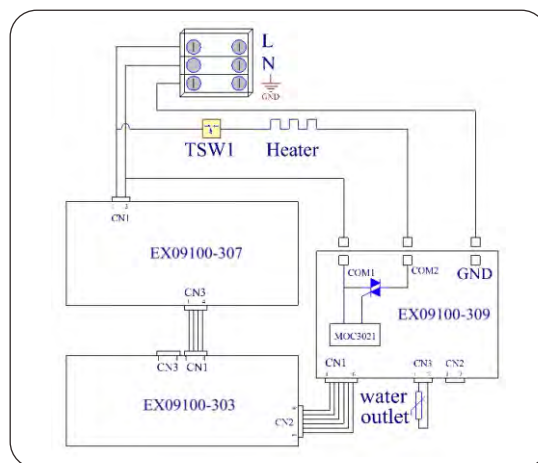
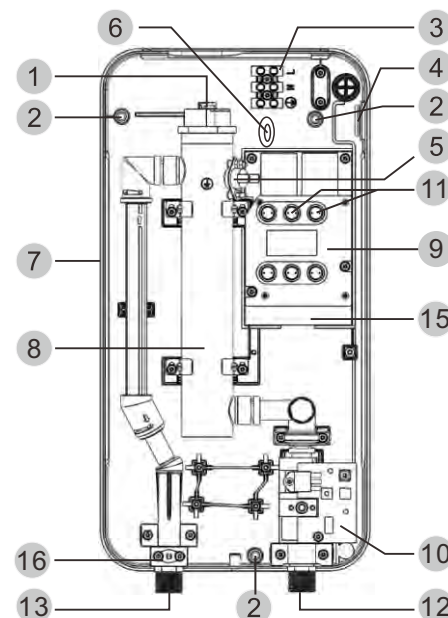
Water Connection
15mm(1/2" BSP)

Dimension

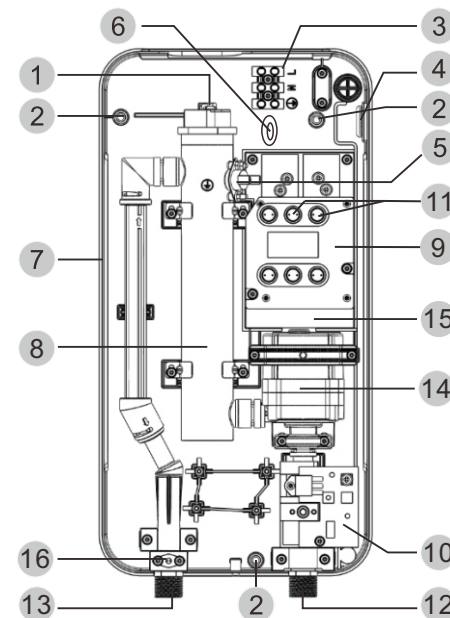
410mm x 202mm x 96mm

Weight

3.4kgs

Schematic Wiring Diagram★ **Schematic Wiring Diagram For MODEL:RBW-33B**

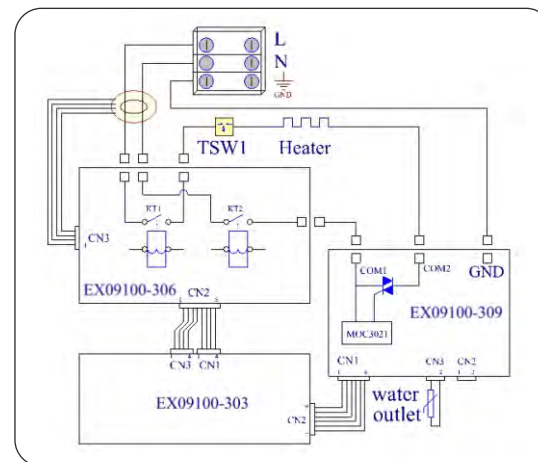
MODEL:RBW-33B RBW-35B-1
RBW-36B-1 RBW-45B-1 RBW-33M
RBW-35M-1 RBW-36M-1 RBW-45M-1

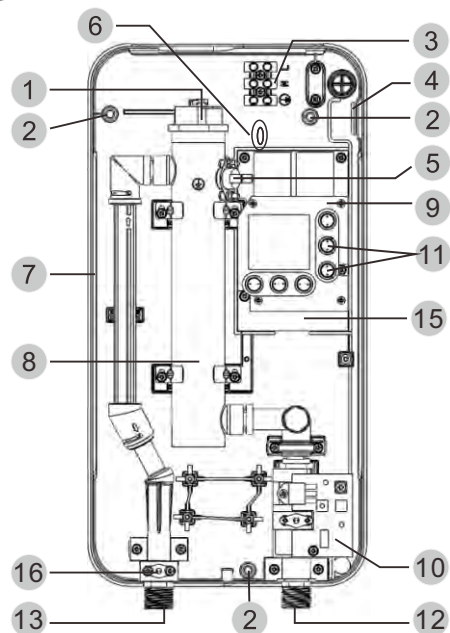


MODEL:RBW-35B-1P
RBW-36B-1P RBW-45B-1P

1. Heating Element
2. Mounting Holes (3 Nos)
3. Terminal Block
4. Cable Entry
5. Manual Reset Thermal Cut-out
6. RCD Coil (for RCD model only)
7. Heater Base
8. Water Tank
9. Display Control Board
10. Flow Switch Assembly
11. RCD TEST RESET Buttons
(for RCD model only)
12. Water Inlet
13. Water Outlet
14. DC Pump (for DC Pump model only)
15. Electronic Control
16. Thermistor

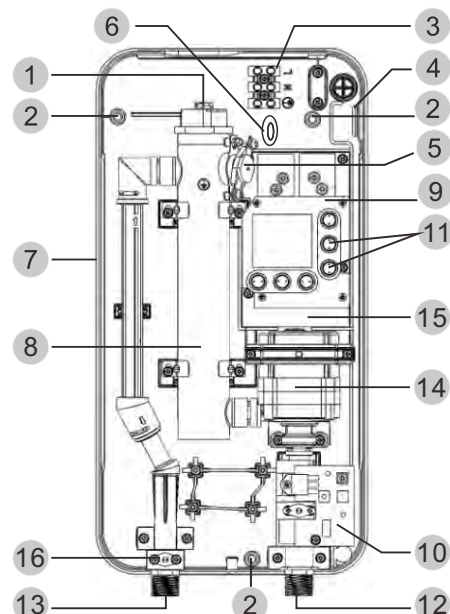
MODEL	RCD	PUMP	THERMO
RBW-33B	×	×	×
RBW-35B-1	✓	×	×
RBW-36B-1	✓	×	×
RBW-45B-1	✓	×	×
RBW-33M	×	×	✓
RBW-35M-1	✓	×	✓
RBW-36M-1	✓	×	✓
RBW-45M-1	✓	×	✓
RBW-35B-1P	✓	✓	×
RBW-36B-1P	✓	✓	×
RBW-45B-1P	✓	✓	×

Schematic Wiring Diagram★ **Schematic Wiring Diagram For MODEL:
RBW-35B-1/RBW-36B-1/RBW-45B-1**



MODEL: RBW-33P RBW-35P-1
RBW-36P-1 RBW-45P-1

1. Heating Element
2. Mounting Holes (3 Nos)
3. Terminal Block
4. Cable Entry
5. Manual Reset Thermal Cut-out
6. RCD Coil (for RCD model only)
7. Heater Base
8. Water Tank
9. Display Control Board
10. Flow Switch Assembly
11. RCD TEST RESET Buttons
(for RCD model only)
12. Water Inlet
13. Water Outlet
14. DC Pump (for DC Pump model only)
15. Electronic Control
16. Thermistor



MODEL: RBW-35P-1P RBW-33P-P
RBW-36P-1P RBW-45P-1P
RBW-33P-P LITE RBW-35P-1P LITE
RBW-36P-1P LITE RBW-45P-1P LITE

MODEL	RCD	PUMP	THERMO
RBW-33P	×	×	✓
RBW-33P-P	×	✓	✓
RBW-35P-1	✓	×	✓
RBW-36P-1	✓	×	✓
RBW-45P-1	✓	×	✓
RBW-35P-1P	✓	✓	✓
RBW-36P-1P	✓	✓	✓
RBW-45P-1P	✓	✓	✓
RBW-33P-P LITE	×	✓	✓
RBW-35P-1P LITE	✓	✓	✓
RBW-36P-1P LITE	✓	✓	✓
RBW-45P-1P LITE	✓	✓	✓

Fault code specification

E1: Inlet thermistor Open or short circuit

E2: Outlet thermistor Open or short circuit

E3: Inlet/Outlet thermistor Open or short circuit

E4: The outlet temperature is over 52°C

E5: Leakage or leakage protection fault

Fault Code	E1	E2	E3	E4	E5
Product model					
RBW-45P-1P RBW-36P-1P RBW-35P-1P RBW-45P-1 RBW-36P-1 RBW-35P-1 RBW-45P-1P LITE RBW-36P-1P LITE RBW-35P-1P LITE	✓	✓	✓	✓	✓
RBW-45M-1 RBW-36M-1 RBW-35M-1	✓	✓	✓	✓	✓
RBW-33P-P RBW-33P RBW-33M RBW-33P-P LITE	✓	✓	✓	✓	×
RBW-45B-1P RBW-36B-1P RBW-35B-1P RBW-45B-1 RBW-36B-1 RBW-35B-1	×	✓	×	✓	✓
RBW-33B	×	✓	×	✓	×

Fault/Symptom	Cause	Remedy
1.No water coming out of the heater	1.1 Interrupted water supply	Check whether the water supply is available
	1.2 Incoming water supply stop valves turned off	Turn on stop valve
	1.3 Dirt particles blocking inlet/ outlet hole	For blocked spray head: clean or replace the spray head. For blocked filter: see 'filter maintenance'
2.Heater not functioning	2.1 Interrupted of power supply	Check if the main power has been cut. Check out appliances and if necessary, contact the local service agent
	2.2 Low water supply to trigger flow switch	Heater requires minimum 1.5 litres/min water flow rate
	2.3 Thermal cut- out has operated	Have the shower unit checked by a competent electrician or contact Customer Service
	2.4 Malfunctioning on flow switch	
	2.5 Electrical malfunction	
3.Water too hot	3.1 Not enough water flowing through the unit	For blocked spray head: clean or replace the spray head. For blocked filter: see 'filter maintenance'
	3.1 Increase in ambient water temperature	Switch to reduced power setting and readjust flow rate to give the required temperature
4. Water is not hot enough	4.1 Too much water flow	Switch off 'Pump' button
	4.2 Reduction in the ambient water temperature	Switch to full power setting and switchoff 'Pump' button in order to get on the desired water temperature
	4.3 Electrical malfunction	Have the shower unit checked by a competent electrician or contact Customer Service.
5.Water supply turned off but the indicator light still ON after 3 seconds.Flow Sensor broken.	5.1 Flow switch malfunction	Have the shower unit checked by qualified electrician or contact Customer Service.
	5.2 TRIAC Faulty	
6. Increase in motor noise (For DC Pump model)	6.1 Interrupted of water	See 1.1 and/or 3.1
	6.2 Pump unit faulty	Wait for internal pump to cool down. If still faulty contact Customer Service

WARNING THIS APPLIANCE MUST BE EARTHED

Installation must be carried out by a qualified Electrician.The Current carrying capacity of the cable must be at least that of the shower circuit protection. (See table).

Cable Sizes Table

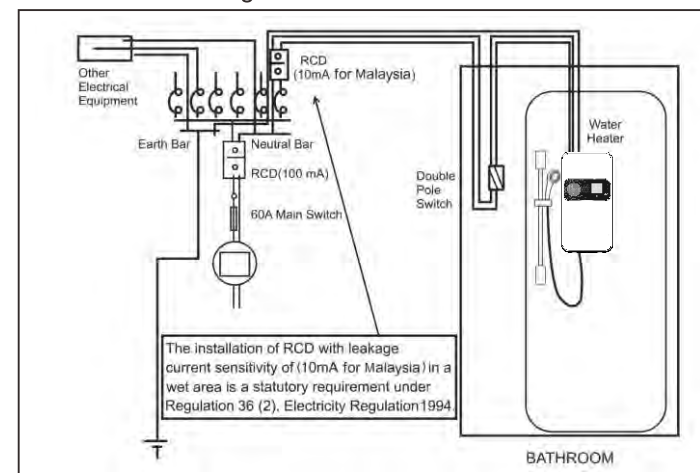
Voltage (V~)	Power (kW)	Amperes (A)	Cable Size (mm ²)	Fuse/MCB (A)	ON/OFF Switch(A)
220V~50/60Hz	3.5	15.9	2.5	20	20
	4.5	20.5	2.5	30/32	30/32
230V~50/60Hz	3.3	14.4	2.5	20	20
240V~50/60Hz	3.6	15	2.5	20	20

The shower must be connected to its own independent electrical circuit.

Lead the power cable from the indoor fuse distributor board or Miniature Circuit Breaker (MCB) to a 10mA RCD (Malaysia requirement) and from RCD to 'ON/OFF' Double-Pole switch outside the bathroom. Please refer to Bathroom General Wiring layout below.

The water heater must be permanently connected to the electricity-supply through a double-pole linked switch having a contact separation of at least 3mm in all poles Incorporated in the fixed wiring. This switch must be out of reach of a person using the shower. The use of a plug and socket is not recommended.

Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.



Plumbing Schematic Diagram

An electric water heater can be fitted in your home regardless of the type of plumbing system as in most cases they can operate directly off the mains cold water supply.

Fig. shows a typical system layout. Do not use jointing compounds on any pipe fittings for the installation.

The Unit works at minimum water flow rate of 1.5 litre/min.

HANGING OF THE SHOWER

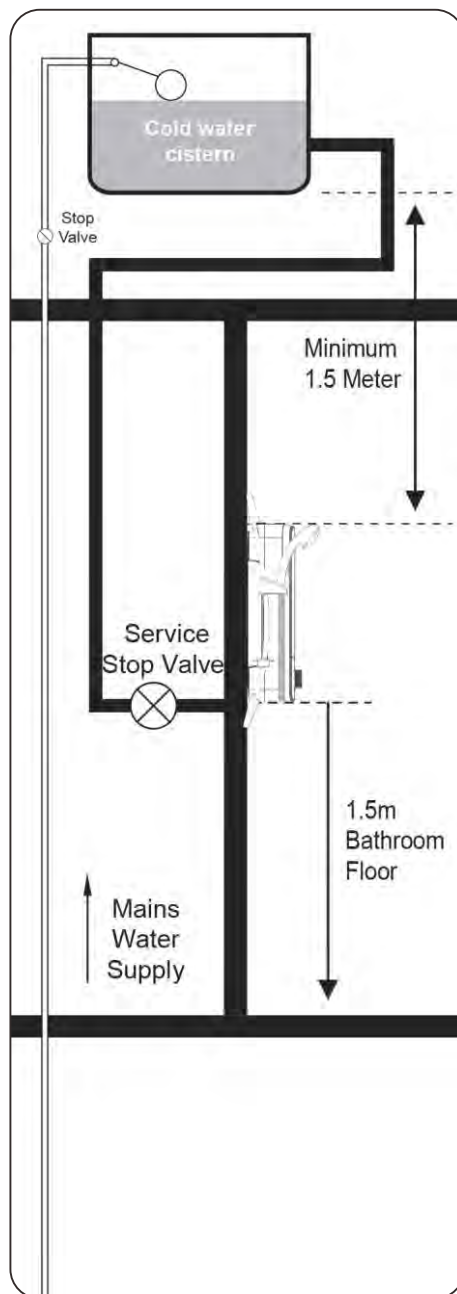
WARNING: The shower must not be positioned where it will be subjected to freezing conditions.

FOR EASE OF SERVICING, THE UNIT MUST ALWAYS BE MOUNTED ON THE SURFACE OF TILED WALLS. NEVER TILE UP TO THE UNIT.

This product is splash-proof rated and is approved for use in shower cubicles and over baths.

However, do not install the unit in a position where the sprayhead will consistently direct water over it.

The shower unit **MUST** be positioned vertically.



CLEANING

NOTE: Do Not Use Thinner, Alcohol or Petroleum Spirit

Many household cleaners contain abrasives and chemical substances, and should not be used for cleaning plated or plastic fittings. These finishes should be cleaned with a mild detergent or soap solution, and then wiped dry using a soft cloth.

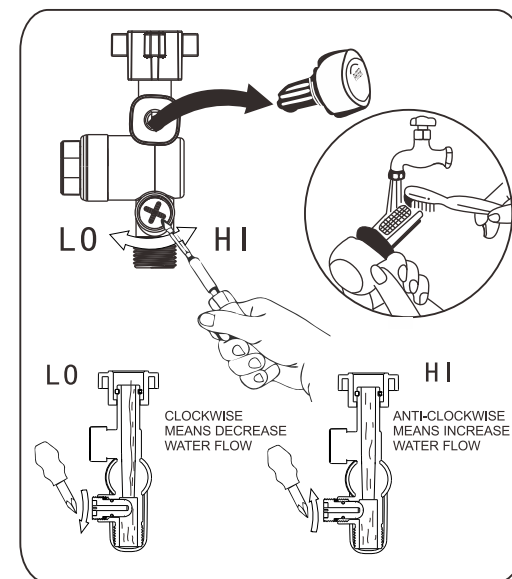


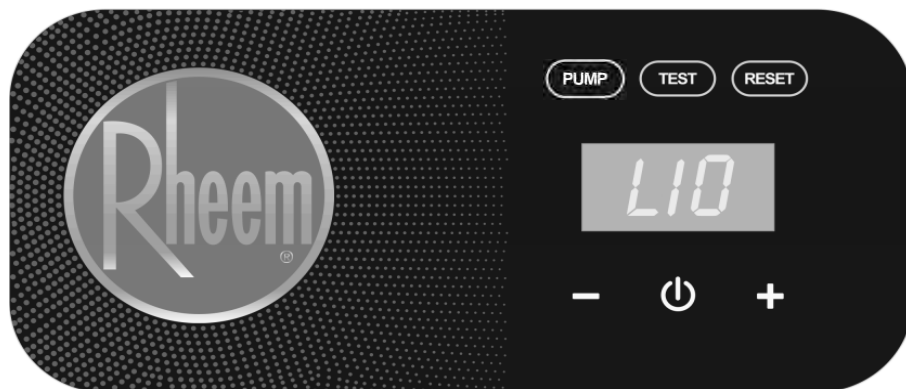
FILTER MAINTENANCE

It is recommended that the filter is periodically cleaned in order to maintain the performance of the shower.

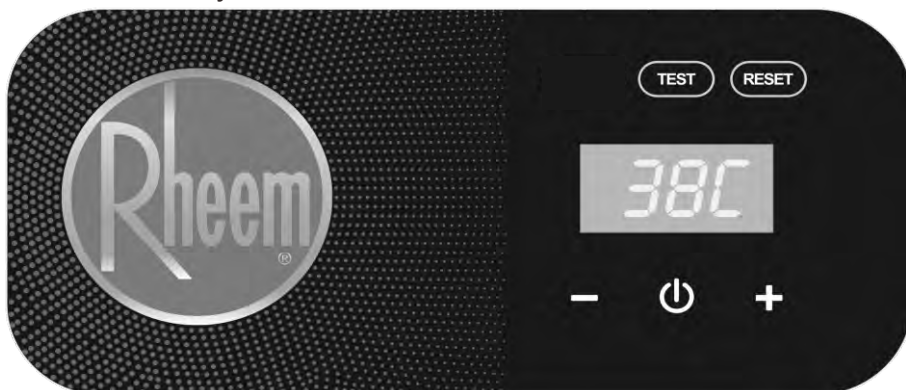
'Open' the filter head from the stop valve. Remove the Filter Net and clean it using soft brush and wash it under running water. Ensure all dirt particles are removed.

'Close' it back after washing the filter.

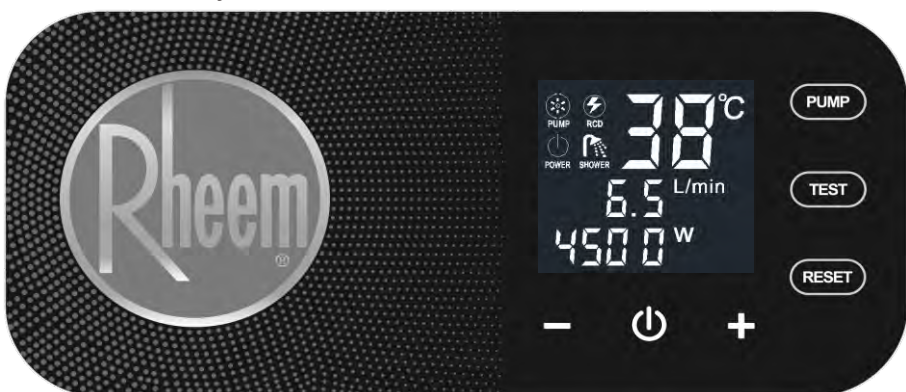




RBW Royal



RBW Royal Plus



RBW Royal Platinum

FIXING THE SHOWER TO THE WALL

Instructions for fixed appliances stating how the appliance is to be fixed.

Important: The shower must be mounted on a flat surface which covers the full width and length of the backplate. It is important that the wall surface is flat otherwise difficulty may be encountered when fitting the cover.

1.1 Decide on a suitable position to allow for cover fit and removal.

Determine the direction that you require the inlet water supply and electrical cable to enter the unit from.

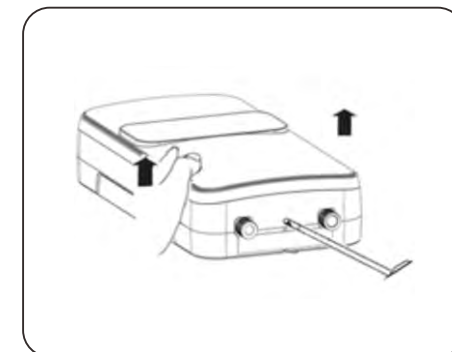
Determine the height at which you require the unit to be installed.

1.2 Remove the cover.

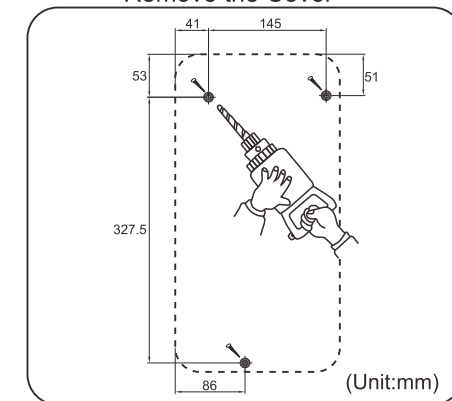
Mark the position of the unit on the wall. Mark the positions of the fixing holes. Make sure that sufficient electrical Supply cable is available for connection to the terminal block.

1.3 Drill and plug the fixing holes. Secure the unit to the wall with the screws provided. Avoid drilling into any supply cable/pipe.

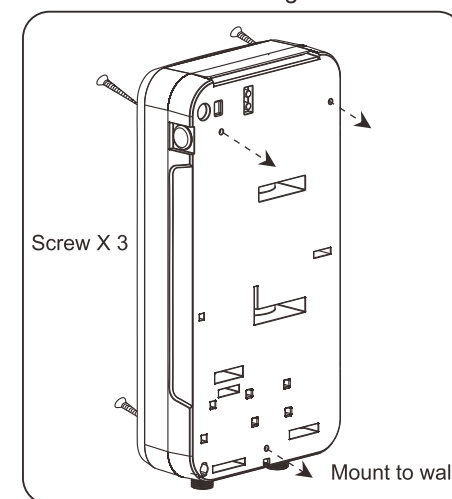
Note: Hook the backplate over the top screws and fit the lower fixing screw into position. DO NOT fully tighten the screws at this stage, as the fixing holes are elongated to allow for out of square adjustment after the plumbing connections have been completed.



Remove the Cover



Mark the mounting holes



PLUMBING CONNECTIONS

COMPLETE THIS PROCESS BEFORE WIRING CONNECTION

CONNECTION PROCEDURE:

Connect the water supply to the inlet of the shower via 15mm copper, stainless steel or plastic pipe using a 15mm x 15mm elbow compression fitting. Do not use excessive force when making these connections.

FITTING THE STOP VALVE

The supplied stop valve or one with a filter must be used to ensure proper functionality of unit. Feed the Stop valve by fastening to the unit Inlet.

Note:

Ensure the supplied washers are in place before connecting inlet and the Stop Valve. Feed the other point of Stop Valve to the incoming water supply. Ensure that the backplate of the unit is flat on the wall and positioned squarely. Tighten the fixing screws. Turn on the water supply and check for leaks in the pipework connection to the shower.

NOTE: At this stage on water can flow through the unit.

ELECTRICAL CONNECTION

WARNING: THIS UNIT MUST BE EARTHED.

SWITCH OFF THE ELECTRICITY SUPPLY.

The cable entry points are shown in the figure below. Determine the cable entry to the unit.

Side entry- Poke the electrical cable through the Rubber grommet.

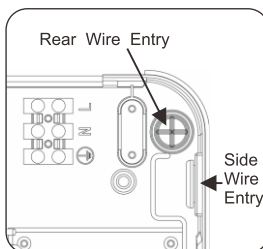
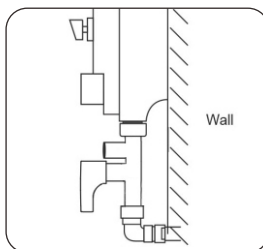
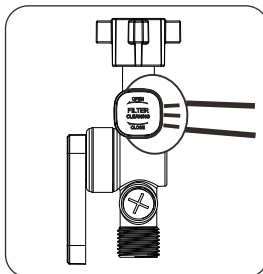
Route the cable into the shower unit and connect to the terminal block as follows:-

Live cable to terminal marked 'L'

Neutral cable to terminal marked 'N'

Earth cable to terminal marked '⊕'

IMPORTANT: Fully tighten the terminal block screws and ensure that no cable insulation is trapped under the screws. Loose connections can result in cabling overheating. DO NOT switch on the electricity supply until the cover has been fitted.



Switching power-on and power-off and adjust temperature

1. In the power-off state, press the "⏻" button to turn on the device, the screen would lights up, and the display shows the setting temperature.
2. In the power-on state, you can adjust the water temperature by pressing the "-" and "+" button, and the machine will start heating.
3. In the power-on state, press the "⏻" button to turn off the machine, the screen is off, and the machine does not heat up even has water flow.

TESTING RCD (For RCD model only)

1. In the heating state, press the "TEST" test button, it would stop heating, the screen displays show E5, and the RESET button flashes.
2. Press the "RESET" button, the screen display back to normal, and the machine reheats.

The function of the RCD should be tested regularly to determine whether the function of the RCD is intact, and it is recommended to do it at least once a month.

The above test proves that the RCD function is in good condition.

CAUTION!

If there are nothing happens when these buttons are pressed, do not use the heater, and please contact your service agent immediately.

Never attempt to repair the unit by yourself.

Assemble the Shower Head accessories. You can enjoy the shower once the shower head is installed.

PUMP CONTROL SETTING (For PUMP Model Only)

*The Pump function is specially designed for lower water pressure area.

1. Under the pump-off state, press the "PUMP" button, and the water pump will run once the flow rate is higher than 1.2L/M.
2. The PUMP indicator light will be on when the pump is running,
3. Under the pump in running state, when the flow rate is lower than 1.4L/M, the water pump will automatically shut down.
4. Press the "PUMP" button to stop the water pump when the pump is running.

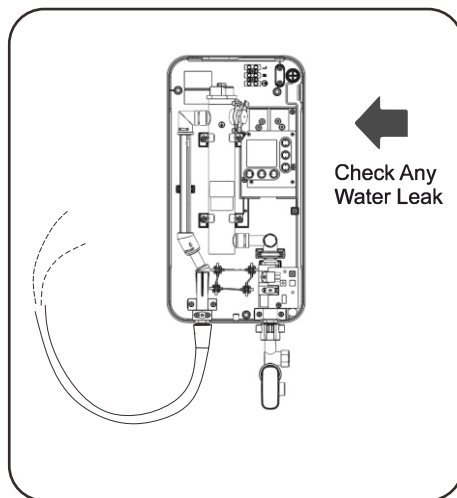
DO NOT switch on the electricity supply until the following procedure has been completed and the cover has been fitted.

The first operation of the shower is intended to flush out any remaining unit dirt particles, and to ensure the heater unit contains water before the element is switched on.

This operation must be carried out with the flexible hose screwed to the outlet but without the sprayhead attached. Ensure the outlet of the flexible hose is directed to drain.

Turn ON the main water supply. Check if any water leaks from the pipe line.

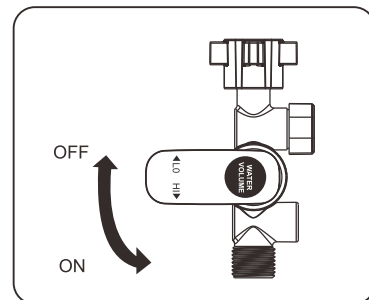
Secure the cover in position with screws. **DO NOT OVERTIGHTEN.**



Important: Ensure the commissioning procedure has been carried out.

To start the shower, turn the stop valve handle counterclockwise allowing water to flow through the unit.

To stop the shower, turn the stop valve handle clockwise back to the position as shown in the figure.



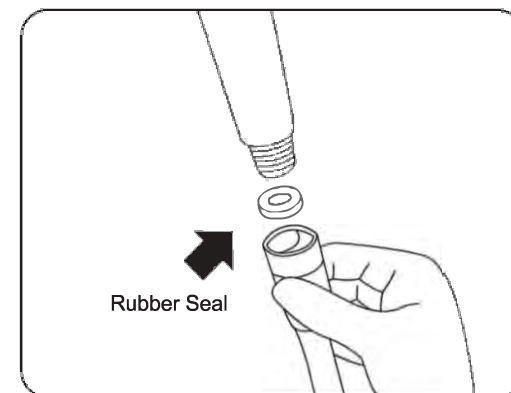
CAUTION:

Do Not Test Stop Valve Under Dry Condition To Adjust The Shower Temperature.

FITTING THE HOSE AND SPRAY HEAD

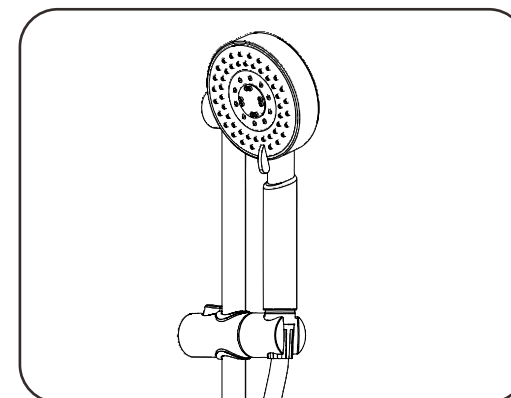
Instructions concerning new and old hose-sets for appliances connected to the water main by detachable hose-sets.

Fit and flexible hose by screwing to the unit outlet (Left side) and sprayhead ensuring the supplied rubber seal at the sprayhead.



The instructions for appliances connected to the water main by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.

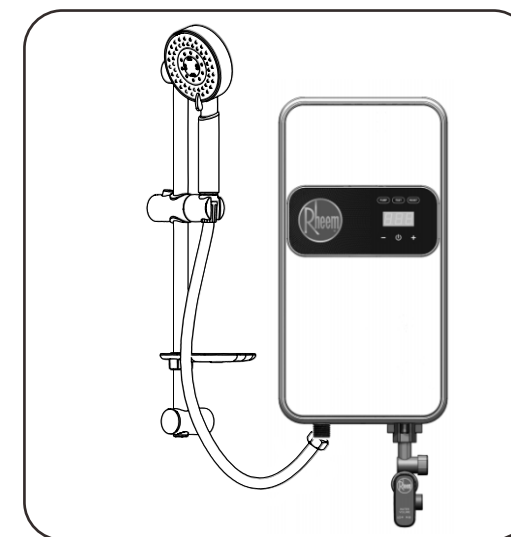
Place the sprayhead into the shower hanger and check that it fits correctly.

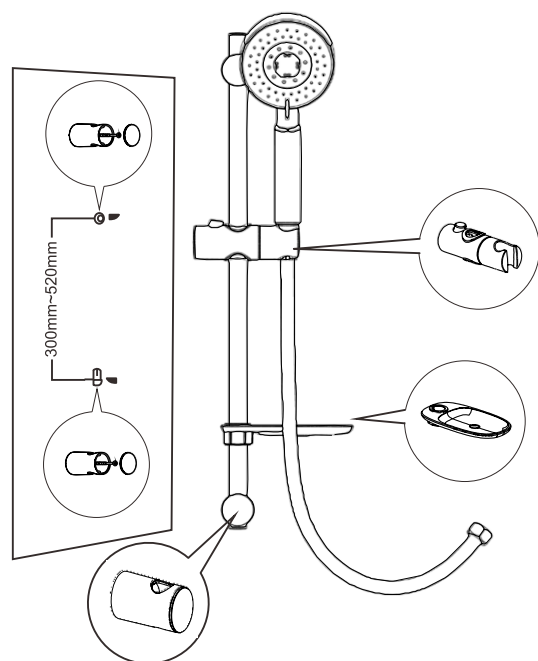


Important:

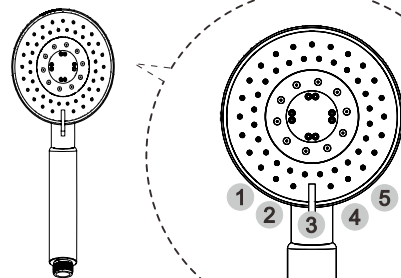
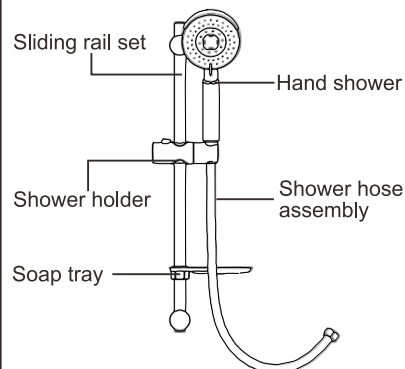
It is the conical end of the hose which grips into the shower hanger. The sprayhead will not fit in the shower hanger without the hose attached.

The instructions for open-outlet water heaters to be used with a spray head shall state that the spray head must be descaled regularly.





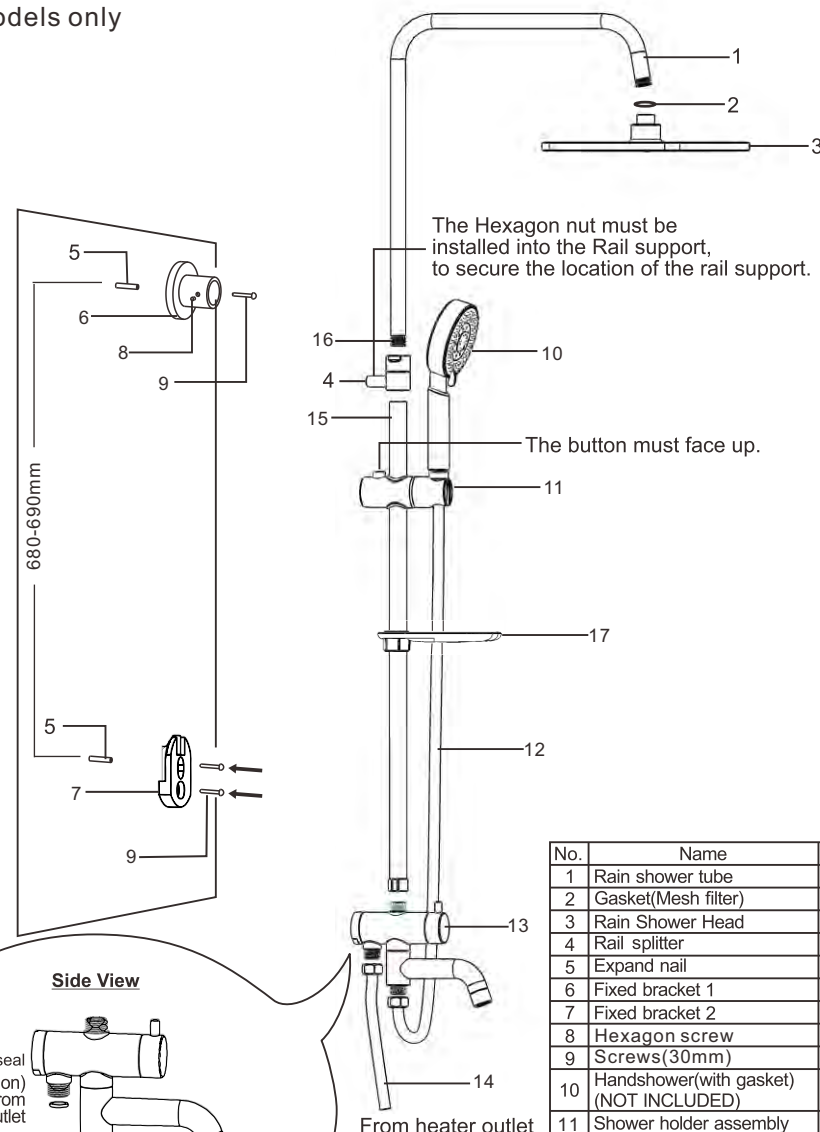
- Fix the Shower Holder and Rail Supports (Top and Bottom) onto the Sliding Rail.
- Mark the positions of the 2 holes of the Rail Supports - be sure that the top portion is in level or not higher than the top of the heater.
- Drill the holes and mount the shower accessories with wall plugs and screws provided. Insert the Rail Support Caps on to the Rail Supports.



- Spray
- Shower plus spray
- Shower
- Shower and massage
- Massage

RAIN SHOWER SET

Platinum Models only



No.	Name	QTY
1	Rain shower tube	1
2	Gasket (Mesh filter)	1
3	Rain Shower Head	1
4	Rail splitter	1
5	Expand nail	2
6	Fixed bracket 1	1
7	Fixed bracket 2	1
8	Hexagon screw	1
9	Screws (30mm)	3
10	Handshower (with gasket) (NOT INCLUDED)	1
11	Shower holder assembly	1
12	Hose (1.5m) (NOT INCLUDED)	1
13	Diverter	1
14	Hose (1.0m)	1
15	Sliding rail	1
16	O-ring	2
17	Soap dish	1