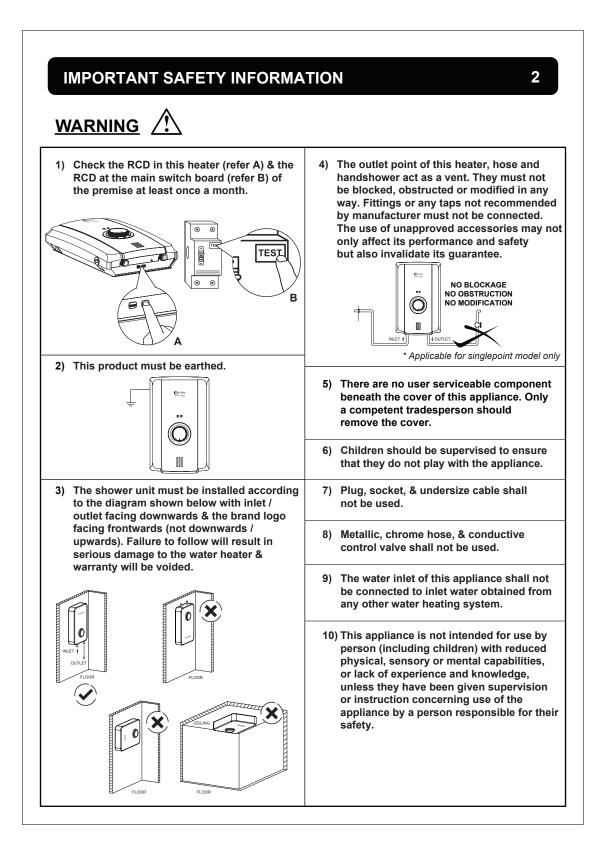


# CONTENTS

1. Important Safety Information	2 - 3
2. Heater Contents Checklist	4
3. Part Description	5 - 6
4. Electrical Requirement	7
5. Water Requirement	8
6. Installation Procedures	9 - 10
7. Operating The Shower	11
8. User Maintenance	12
9. Quality Assured	13
10. Temperature Rise Guideline	14
11. Specification	15 - 16

1

Pages



### IMPORTANT SAFETY INFORMATION

# WARNING

11) To account for future maintenance / servicing, please make sure that this product is installed with:

3

- a. safe access that is free from obstacles for technicians to reach the location where the product is installed and to do their tasks, and
- b. flexible piping connection (as opposed to fixed / permanent piping connection) so that this product can be detached / removed from its installed location without damaging the piping connection.

Failure to follow may result in additional removal works needed during maintenance / servicing (such as clearance of a pathway to access the location where this product installed, or cutting of fixed piping connection to dismantle this product), hence additional service charges may applied.

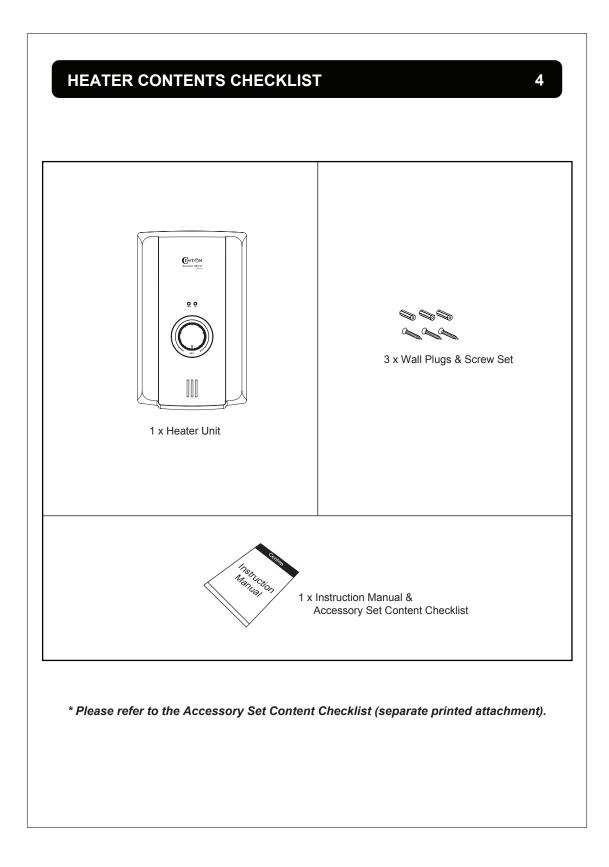
CENTON and its technicians will also not be liable to reimburse back any damages or replacement cost for such removal works.

### SAFEGUARDING THE ENVIRONMENT

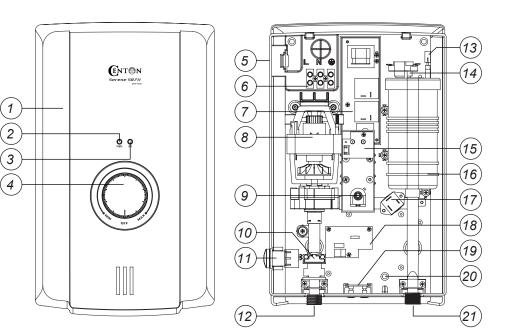
This product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Disposal must be carried out in accordance with your local environmental regulations for waste disposal.

#### Malaysia

Government has launched e-Waste program (commonly known as electrical and electronic waste) to enhance the public awareness towards the responsible e-Waste disposal. Please refer to link below to check compliance collection at your place; https://ewaste.doe.gov.my/



## PART DESCRIPTION



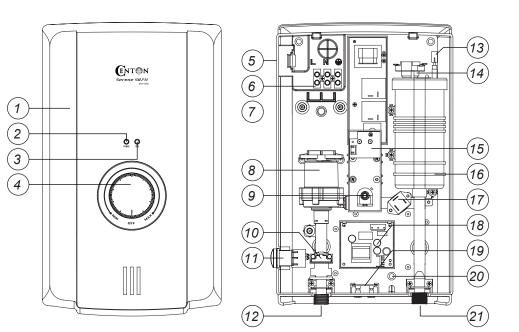
#### MODEL: SERENE SR711E / SR711EP

- 1. Heater Cover
- 2. Power Indicator
- 3. RCD Indicator \*
- 4. Temperature Control Knob
- 5. Cable Entry
- 6. Terminal Block
- 7. Built-in RCD \*
- 8. AC Pump Assembly \*\*
- 9. Electronic Control Unit
- 10 Flow Switch Assembly

- 11. Pump Control Unit \*\*
- 12. Heater Inlet
- 13. Heating Element
- 14. Double Function Manual Reset Thermostat
- 15. Indicator PCB
- 16. Heater Tank Assembly
- 17. Triac
- 18. Pump Control Board \*\*
- 19. RCD Test and Reset Board \*
- 20. Mounting Holes (3 Nos)
- 21. Heater Outlet

\* Model SR711E & SR711EP \*\* Model SR711EP

# PART DESCRIPTION



#### MODEL: SERENE SR711ESP

- 1. Heater Cover
- 2. Power Indicator
- 3. RCD Indicator
- 4. Temperature Control Knob
- 5. Cable Entry
- 6. Terminal Block
- 7. Built-in RCD
- 8. DC Pump Assembly
- 9. Electronic Control Unit
- 10. Flow Switch Assembly

- 11. Pump Control Unit
- 12. Heater Inlet
- 13. Heating Element
- 14. Double Function Manual Reset Thermostat

6

- 15. Indicator PCB
- 16. Heater Tank Assembly
- 17. Triac
- 18. Pump Control Board
- 19. RCD Test and Reset Board
- 20. Mounting Holes (3 Nos)
- 21. Heater Outlet

\* Optional Item

### ELECTRICAL REQUIREMENT

### 7

### **WARNING** THIS APPLIANCE MUST BE EARTHED

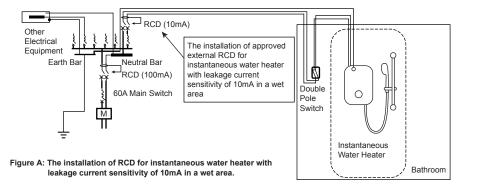
Note: An approved type of Residual Current Device (RCD) of 10mA sensitivity should be installed in conjunction with the heater.

- 1) Installation must be carried out by a qualified electrician.
- 2) The shower heater unit 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 an 'ON/OFF' Double-Pole switch outside the bathroom.
- The water heater must be permanently connected to the electricity supply through a double-pole linked switch having a contact of separation of at least 3mm in all poles incorporated in fixed wiring.
- 5) This switch must be out of reach of a person using a shower.
- 6) Correct size of wire conductor corresponding to different electrical loading should be used. Minimum cable size must not be less than specified in Table A with accordance to the rated power.
- 7) For connection within the shower cubicle & below the ceiling, the connection box shall be IPX5 rated.
- 8) Only fixed & permanent connection is allowed, plug & socket shall not be used. In the case where a direct
- connection cannot be made to the water heater, only correctly sized approved connector & connection box shall be used.
  An approved, correctly sized copper PVC insulated flexible cables with maximum 1.5m lengths shall
- be used to connect water heater to the connection box by referring cable size in the Table A as below. 10) The installation shall comply with GP/ST/No.6/2016, Guideline for the Design, Installation, Inspection, Te
- 10) The installation shall comply with GP/ST/No.6/2016, Guideline for the Design, Installation, Inspection, Testing, Operation & Maintenance of Water Heater Systems by Energy Commission. Refer to Figure A.

#### Cable Sizes Table

Voltage	Power	Amperes	Recommended Conductor Size			Fuse /	ON/OFF
(V~)	(kW)	(A)	mm <sup>2</sup>	nm <sup>2</sup> Cable for Fixed Wiring PVC Flexible Cables		MCB (A)	Switch (A)
220~ 50/60Hz	3.5	16.0	4.0	7/0.85mm	56/0.30	20	20
	4.4	20.0	4.0	7/0.85mm	56/0.30	25	25
	4.5	20.5	4.0	7/0.85mm	56/0.30	25	25
	5.5	25.0	4.0	7/0.85mm	56/0.30	32	32
	6.0	27.3	4.0	7/0.85mm	56/0.30	32	32
	7.0	31.8	6.0	7/1.04mm	84/0.30	40	40
	8.0	36.4	6.0	7/1.04mm	84/0.30	40	40
230~ 50/60Hz	3.3	14.3	4.0	7/0.85mm	56/0.30	20	20
	3.5	15.2	4.0	7/0.85mm	56/0.30	20	20
	4.5	19.6	4.0	7/0.85mm	56/0.30	25	25
	6.0	26.1	4.0	7/0.85mm	56/0.30	32	32
240~ 50/60Hz	3.6	15.0	4.0	7/0.85mm	56/0.30	20	20
	3.72	15.5	4.0	7/0.85mm	56/0.30	20	20
	3.8	15.9	4.0	7/0.85mm	56/0.30	20	20
	4.2	17.5	4.0	7/0.85mm	56/0.30	20	20
	4.8	20.0	4.0	7/0.85mm	56/0.30	25	25
	5.4	22.5	4.0	7/0.85mm	56/0.30	32	32

Table A



### WATER REQUIREMENT

### PLUMBING SCHEMATIC DIAGRAM

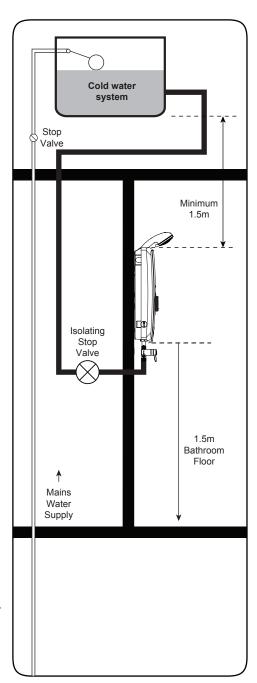
- 1. Diagram on right shows a typical system layout.
- 2. Do not use joining compounds on any pipe fittings for the installation.
- The unit works at minimum water flow rate of 2 litre/min. An incoming water flow rate of 5 litre/min and above would excel its performance.
- 4. The water inlet of this product shall not be connected to inlet water obtained from any other water heating system.
- 5. This product must be permanently connected to the water mains & not connected by a hose set.

### WARNING A THIS PRODUCT IS NOT TO BE USED FOR A POTABLE WATER SUPPLY

#### SITTING OF THE SHOWER

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

- 1. This product is splash-proof rated and is approved for use in shower cubicles & over baths.
- 2. Do not install the unit in a position where the sprayhead will consistently direct water over it.
- 3. The shower unit MUST be positioned vertically.



8

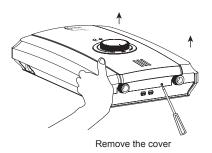
# INSTALLATION PROCEDURES

FIXING THE SHOWER TO THE WALL

### CAUTION:

It is important to mount the shower unit to a flat surface otherwise difficulty may be encounter when fitting the cover and subsequent.

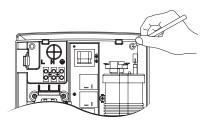
1. Unscrew the screw at bottom of heater and remove the cover by lifting the bottom of cover upward.



9

2. Determine the suitable position where electrical cable & inlet water supply is reachable.

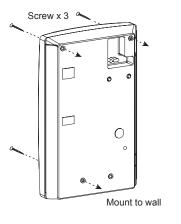
Mark the position of the mounting holes on wall.



Mark the mounting holes

3. Drill the holes with 5.0mm diameter drill bit and insert the wall plugs provided.

Secure heater unit onto wall with screws provided.



# INSTALLATION PROCEDURES

#### PLUMBING CONNECTIONS

### CAUTION:

Complete the process before wiring connection

 Connect the water supply to the inlet of stop valve via 15mm plastic pipe using a 15mm x 15mm elbow compression fitting.

#### Note:

- i) DO NOT apply excessive force when making these connections.
- ii) If PVC glue is used during the installation, please ensure the glue is dried 30 mins after applying, to prevent interfering of flow switch operation & possibly blockage on the shower head
- 2. Feed the stop valve by securing it to the unit's inlet.

Note: Ensure the supplied rubber washer is in place before connecting stop valve to inlet.

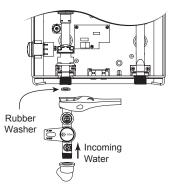
- 3. Feed the other point of stop valve to incoming water supply.
- 4. Turn ON water supply and check for leaks in the pipework connection to the shower.

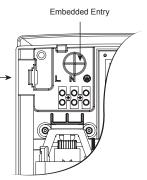
### **ELECTRICAL CONNECTIONS**



- 1. Switch OFF electical mains before carrying on the electrical work.
- 2. Insert electrical cable through the rubber grommet for side entry or wall embedded entry.
- 3. Connect cable to theTerminal Block and fully tighten them as follows: Red or Brown ...... Live Black or Blue ...... Neutral

Green/Yellow or Yellow/Green ....... Earth (≟)

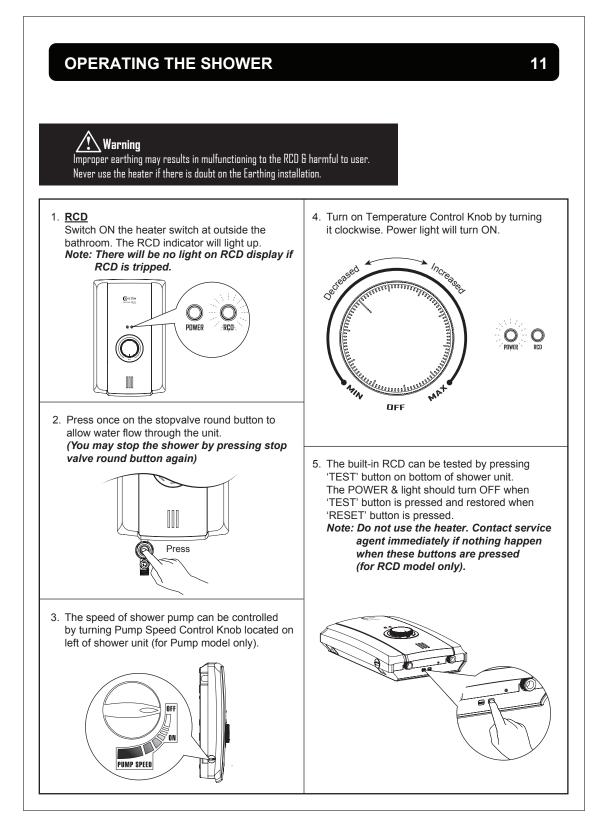




Wire Cable

Side Entry

10

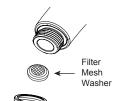


# USER MAINTENANCE



#### DO NOT USE THINNER, ALCOHOL OR PETROL

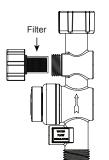
You may clean the heater with a damp cloth and mild detergent but do not use thinner, alcohol, petrol or any other corrosive solutions.



#### **CLEAN FILTER REGULARLY**

The spray head & filter must be descaled regularly in order to maintain the performance of the shower.

- a) Disconnect the sprayhead from the hose.
  - Remove filter and clean it using a soft brush.Wash it under running water.



#### b) RIGHT ANGLE STOP VALVE (OPTIONAL)

- Disconnect the water filter from the stop valve.
- Flush the filter with water.
- Reassemble water filter to its position.

# **QUALITY ASSURED**

All Centon heaters are tested before leaving the factory. With proper care and usage, the heaters are durable, safe and reliable. Use only accessories recommended by the manufacturer.

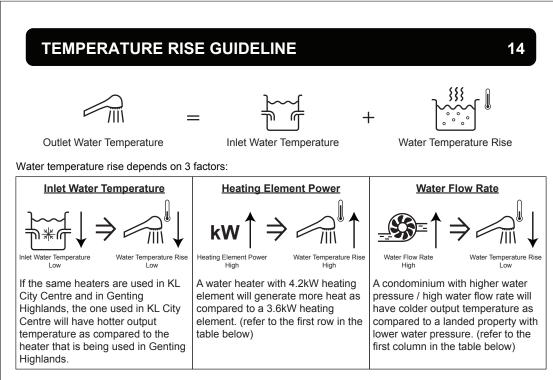
#### WARNING

- 1. The appliance must be earthed.
- 2. Do not use plumbing cement on connection. If necessary, use only thread or sealant tape.
- 3. If the RCD does not trip to 'OFF' position each time the 'TEST' button is pressed, contact your sales agent for repair immediately (for RCD model only).
- 4. If your water heater malfunctions, immediately switch off the mains. Then contact the sales agent for repair. Never attempt to repair the unit yourself.

#### TROUBLE SHOOTING

MALFUNCTIONING PROBLEMS	CAUSE OF PROBLEMS	SOLUTION
<ol> <li>No shower coming out from heater.</li> </ol>	<ul> <li>a) Dirt particles blocking inlet hole or incoming valve.</li> </ul>	a) Remove and clean incoming valve.
2) No hot water.	<ul> <li>a) Electrical malfunctioning.</li> <li>b) Thermal Cut-out has operated.</li> <li>c) Malfunctioning on Flow Switch Assembly.</li> </ul>	(a.b.c) Turn off the main switch and have the unit checked by qualified electrician/agent.
	d) Reduce in ambient water temperature.	d) Reduce the water flow rate.
<ol> <li>Water too hot even at low temperature.</li> </ol>	a) Not enough water flowing through the unit.	a) Refer to (1)
	b) Increase in ambient water temperature.	b) Increase the water flow rate.
<ol> <li>Water suddenly goes cold.</li> </ol>	a) Interrupted of power supply.	<ul> <li>a) Check supply or other appliances. Consult qualified electrician/ agent if necessary.</li> </ul>
	b) Thermostat (Auto) Cut-off	<li>b) Tum off the Temperature Control Knob from 'ON' to 'OFF', to have a warm or cold water to reset back the thermostat.</li>
5) Water turn off, indicator light still on (power still on).	a) Flow switch malfunction.	a) Turn off the main switch immediately, and replace Flow Switch by qualified electrician.

### 13



Average Instant Water Heater's heating element used for: — Malaysian Market - 3.6kW to 4.2kW

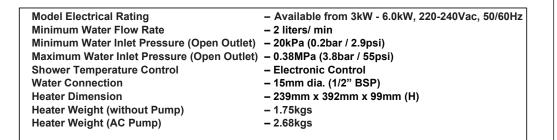
- Highlands (Genting, Cameron, Fraser Hills, etc.) - 4.8kW to 5.4kW

Flow Rate (LPM)		Heating Element				
		3.6kW	4.2kW	4.8kW	5.4kW	
	1	45.9	53.5	61.2	68.8	
Low Flow Rate	2	22.9	26.8	30.6	34.4	
Low Flow Rule	3	15.3	17.8	20.4	22.9	
	4	11.5	13.4	15.3	17.2	
	5	9.2	10.7	12.2	13.8	
Recommended Flow Rate	6	7.6	8.9	10.2	11.5	
	7	6.6	7.6	8.7	9.8	
	8	5.7	6.7	7.6	8.6	
	9	5.1	5.9	6.8	7.6	
	10	4.6	5.4	6.1	6.9	
	11	4.2	4.9	5.6	6.3	
	12	3.8	4.5	5.1	5.7	
	13	3.5	4.1	4.7	5.3	
High Flow Rate	14	3.3	3.8	4.4	4.9	
	15	3.1	3.6	4.1	4.6	
	16	2.9	3.3	3.8	4.3	
	17	2.7	3.1	3.6	4.0	
	18	2.5	3.0	3.4	3.8	
	19	2.4	2.8	3.2	3.6	
	20	2.3	2.7	3.1	3.4	

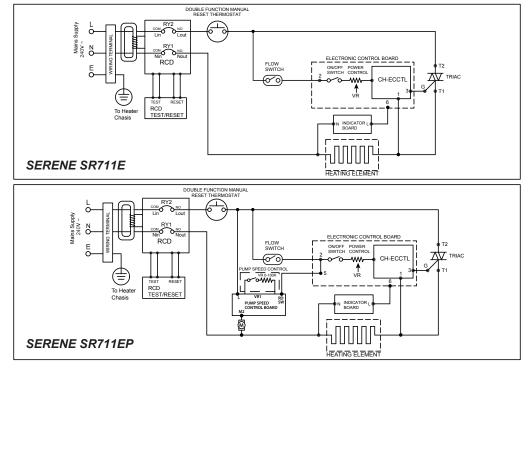
Table: Temperature Rise (°C) Based on Heater Element (kW) & Flow Rate (LPM) \*The temperature rise table above is solely for reference purposes only. Actual results may vary due to other factors such as heat loss.

# SPECIFICATION

### 15



#### **Schematic Wiring Diagram**

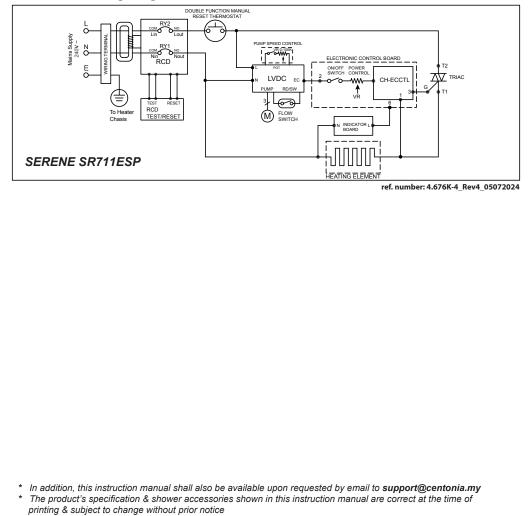


# SPECIFICATION

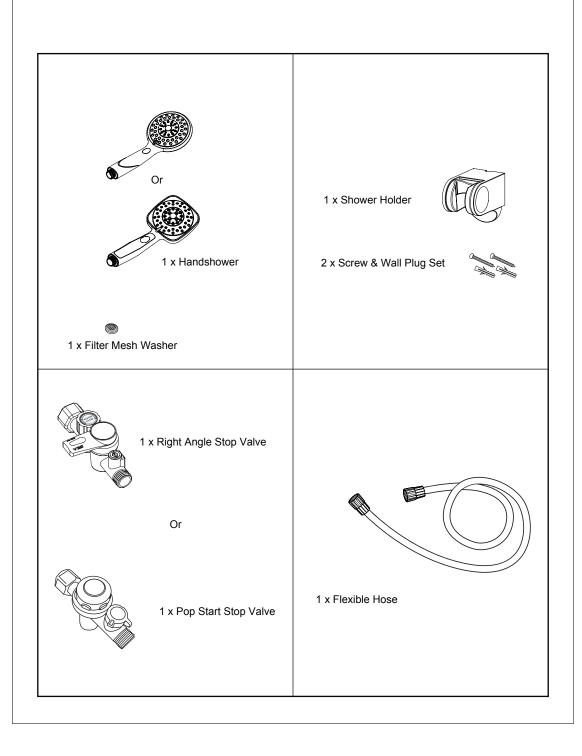
### 16



#### **Schematic Wiring Diagram**



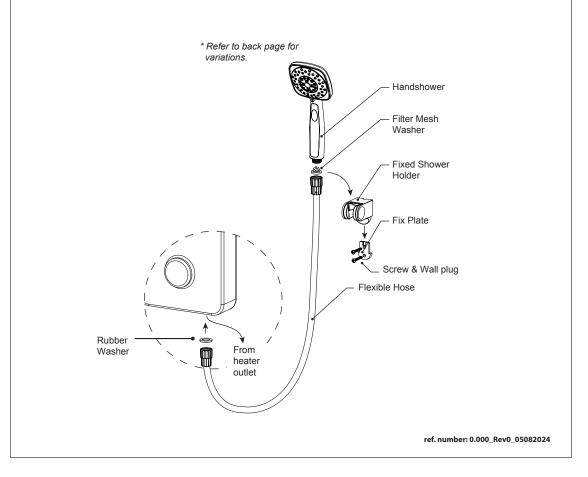
# ACCESSORY SET CONTENT CHECKLIST



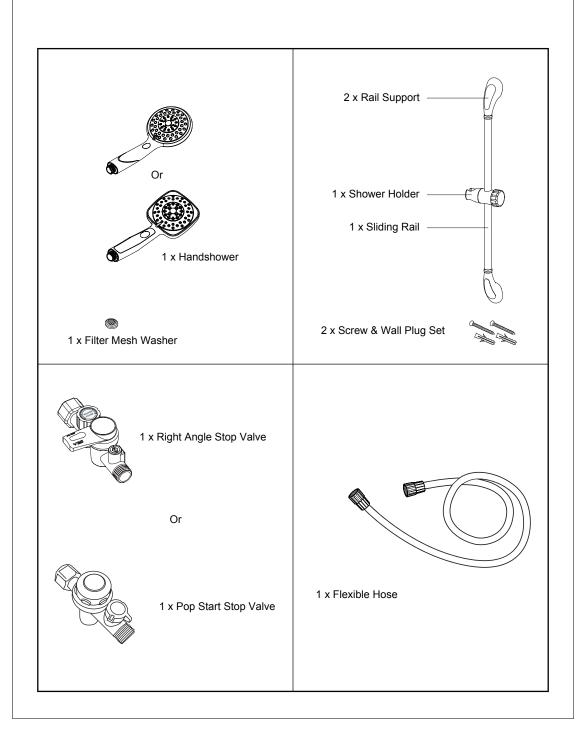
# ACCESSORY INSTALLATION

### **Fixed Shower Accessory**

- 1. Determine the suitable height for shower accessories & mark for the mounting holes.
- 2. Mark the mounting holes for Fixed Shower Holder.
- 3. Drill the mounting holes & insert Wall Plugs provided.
- 4. Feed the Flexible Hose by securing to the heater outlet & Handshower.
- 5. Ensure the supplied Rubber Washer is in place at the heater outlet & the Filter Mesh Washer at the Handshower.
- 6. Place the Handshower to the Fixed Shower Holder.



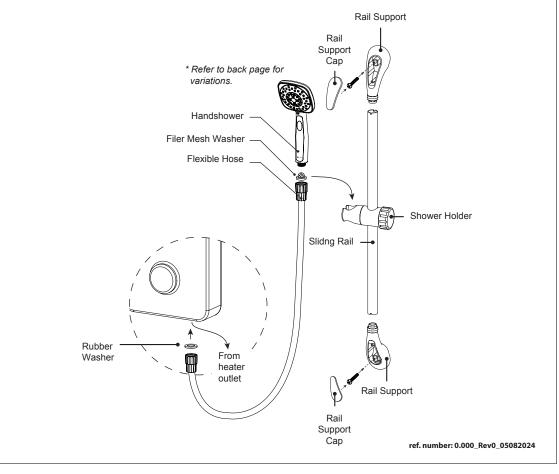
# ACCESSORY SET CONTENT CHECKLIST



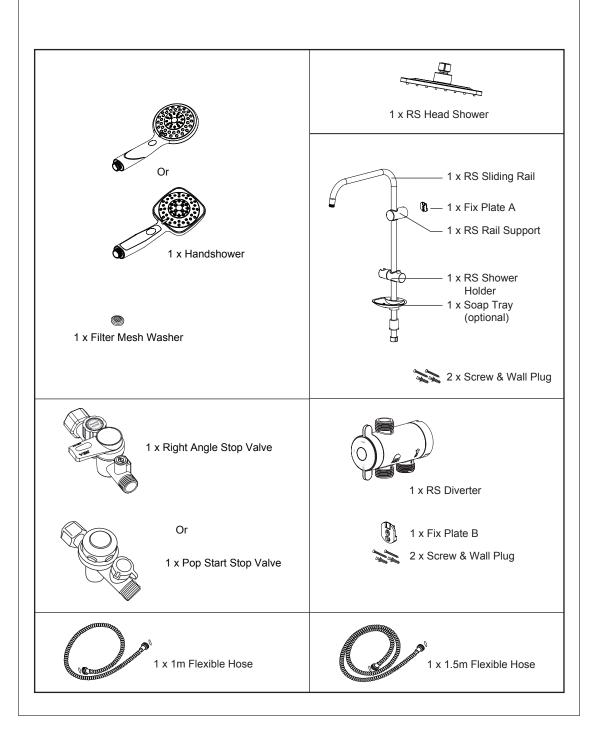
# ACCESSORY INSTALLATION

#### **Full Shower Accessory**

- 1. Fix the rotatable Soap Dish and Shower Holder onto the Sliding rail as illustrated.
- 2. Determine the suitable height for shower accessories and mark for the mounting holes.
- 3. Mounting holes are available after Rail Support Caps are removed.
- 4. Drill the mounting holes and insert Wall Plugs provided.
- 5. Secure the accessories set with Screws provided & cover the Rail Support Caps.
- 6. Feed the Flexible Hose by securing to the unit outlet & Handshower.
- 7. Ensure the supplied Rubber Washer is in place at the outlet & the Filter Wesh Washer at the Handshower.



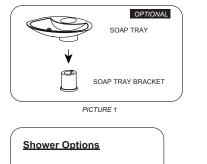
# ACCESSORY SET CONTENT CHECKLIST



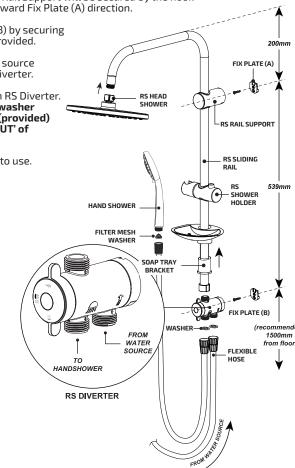
### **ACCESSORY INSTALLATION**

#### Rain Shower Accessory

- Drill holes & insert wall plugs provided according to the recommended dimension as shown (cater for Fix Plates).
   Note: Height of the dimension is at the discretion of the user
- 2. Secure the Fix Plate (A), (B) with screws provided.
- 3. Seperate Soap Tray and Soap Tray Bracket (optional). (refer to Picture 1)
- 4. Insert Soap Tray into (from bottom) RS Sliding Rail followed by Soap Tray Bracket.
- 5. Insert the Soap Tray Bracket into Soap Tray to secure it on RS Sliding Rail.
- 6. Secure the RS Shower Head to RS Sliding Rail.
- 7. Secure the RS Diverter to RS Sliding Rail.
- 8. Secure the assembly into Fix Plates (A) & (B) by inserting both RS Rail Support & RS Diverter in correct position. The RS Rail Support will be secured by the hook on Fix Plate (A) once pressed firmly toward Fix Plate (A) direction.
- 9. Secure the RS Diverter into Fix Plate (B) by securing screw on RS Diverter with Allen Key provided.
- 10. Connect 2.5' Flexible Hose from water source (could be heater outlet) to 'IN' on RS Diverter.
- Connect 5' Flexible Hose from 'OUT' on RS Diverter. Note: Be sure to insert a filter mesh washer before Hand Shower & rubber (provided) between Flexible Hose & 'IN/OUT' of RS Diverter.
- 12. Rain Shower assembly are now ready to use.

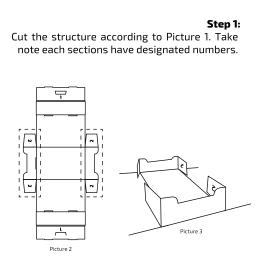


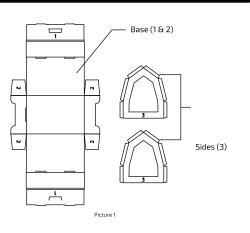




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### **TURN THIS BOX INTO A PET CARRIER!**



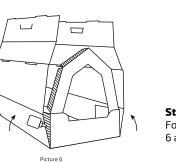


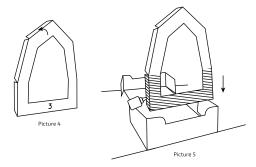
#### Step 2:

Fold section 2 (Picture 2) as shown in Picture 3.

Step 3:

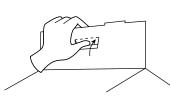
Fold section 3 as shown in Picture 4. Then, apply glue on the diagonal line shown in Picture 5 and paste it on the base (section 2). Do the same on the other side.

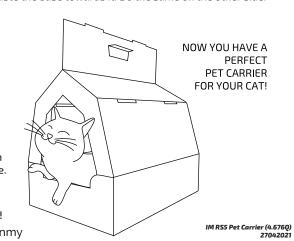




#### Step 4:

Fold the base. Apply glue on the diagonal lines shown in Picture 6 and paste the base towards it. Do the same on the other side.





#### Step 5:

Remove the cut-out cardboard on section 1, then push the half-cut cardboard to the opposide side.



Share your pet photos with us!