

EWE451KX-DWB2
EWE451KB-DWG2
EWE241KX-DWB6
EWE351KX-DWB6
EWE451KX-DWB6
EWE361KA-DWB6

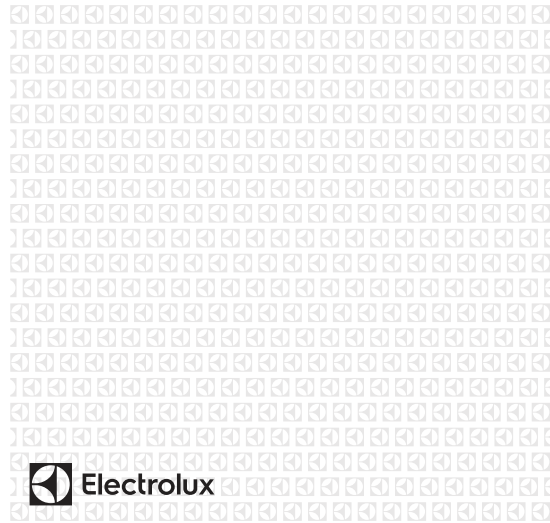
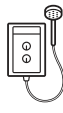
EWE361KA-DWG6
EWE381KX-DWG6
EWE481KX-DWG6
EWE601KX1-DWG6
EWE351KX-DWG6
EWE361KA-DWP6

EWE361KX-DWB5
EWE361KX-DWX5
EWE361KB-DWG6
EWE361KB-DWB6

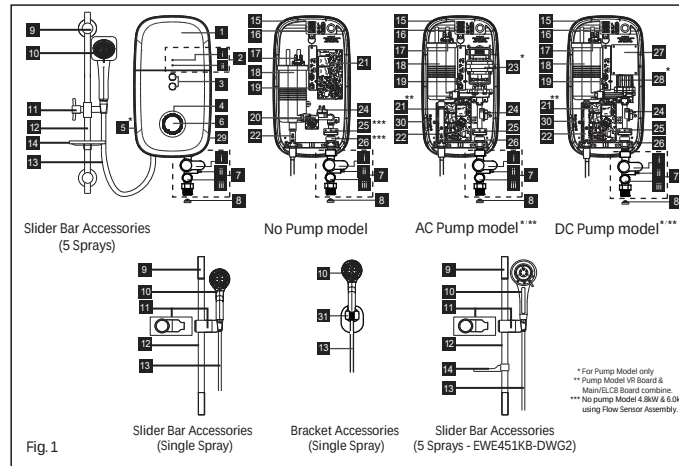
EN ELECTRIC WATER HEATER

USER MANUAL

REV 2



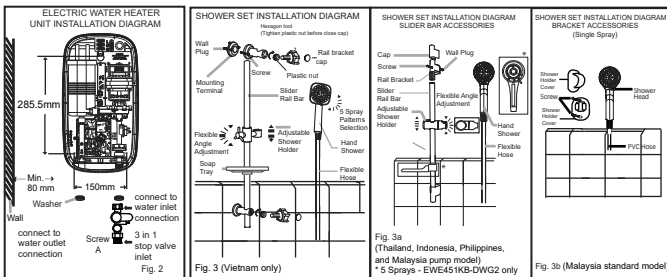
1. PARTS IDENTIFICATION



1. Front Cover
2. LED Indicators
3. Test / Reset Button
4. Face Panel
5. Pump Button*
6. Temperature Control Knob
7. 3 in 1 Stop Valve
8. Mesh Filter
9. Rail Support
10. Handshower
11. Adjustable Shower Holder
12. Slider Rail
13. PVC Hose
14. Soap Tray
15. Heater Base
16. Terminal Block
17. Thermostat (Double-Action)
18. Heater Tank
19. PCB Board (Test & Reset)
20. VR Board
21. Main/ELCB Board**
22. Water Outlet Connection
23. AC Pump*
TRIAC
24. Reed Switch Assy***
25. Water Inlet Connection***
26. SMPS PCB Board
27. D.C. Silent Pump*
28. Rating Label
29. Pump Board
30. Shower Bracket Holder
31. Slider Bar Accessories (5 Sprays - Vietnam only / 5 Sprays - EWE451KB-DWG2 only)

Fig. 1
Slide Bar Accessories (5 Sprays - Vietnam only / 5 Sprays - EWE451KB-DWG2 only)
Slide Bar Accessories (Single Spray - Thailand, Indonesia, Philippines, and Malaysia pump model)
Bracket Accessories (Single Spray - Malaysia standard model)

3. ELECTRIC WATER HEATER UNIT INSTALLATION



- 3.1 Select a suitable position in the bathroom.
- 3.2 Remove the screw (A) at the bottom of the Electric Water Heater. (Fig. 2)
- 3.3 Remove the Front Cover from the bottom and then lift up the front cover.
- 3.4 Mark 3 Screw points of the Heater Base on the wall. The Electric Water Heater position should be 1.5m above the bathroom floor. (Fig. 2)
- 3.5 **Slider Bar Accessories:** Mark 2 screw points of the Slider Rail beside the Electric Water Heater. It is recommended that the top of the portion is in level with the top of Electric Water Heater. (Fig. 3 & 3a)
- 3.6 **Bracket Accessories:** Open the Shower Holder cover, mark 2 screw point of the Shower Holder beside the Electric Water Heater. It is recommended that the top of the portion is in level with the top Electric Water Heater. After screw the Shower Holder, put back the shower holder cover. (Fig. 3b)
- 3.7 Insert the wall plugs and mount the Electric Water Heater firmly in position with the screws provided.
- 3.8 Insert the Shower Holder and Soap Tray into the Slider Rail.
- 3.9 Insert the Rail Bracket to both end of the Slider Rail Bar.
- 3.10 Remove the cap from the Rail Bracket and screw the Bracket to marked position. Replace the cap. (Fig. 3)

RAIL BRACKET COVER & CAP DISMANTLE STEPS FOR SLIDER BAR ACCESSORIES

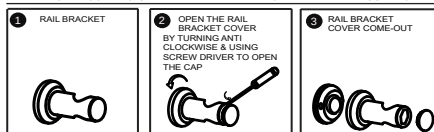


Fig. 3C

4. PLUMBING PROCEDURE

CAUTION!
This Electric Water Heater is a single point system and the "Water Outlet" can only be fitted to the Hose and Handshower set provided. **MUST NOT TO CONNECT CONTROL VALVE OR FITTING CAN BE FITTED TO THE WATER OUTLET.**

- 4.1 Connect the 3 in 1 Stop Valve to the Water Inlet with washer. Use correct tools to tighten and be careful not to over tighten and damage the plastic nut.
- 4.2 Connect the incoming water piping to the 3 in 1 Stop Valve (1/2" BSP).
- 4.3 If in any case, the 3 in 1 Stop Valve is not use or omitted, **make sure to put the Mesh Filter between the Electric Water Heater inlet pipe and incoming water pipe.**
- 4.4 Turn on the water mains to drain out all plumbing dirts before connecting the water supply to the Electric Water Heater, the water supply to the Electric Water Heater must be free from mud and dirt.

5. ELECTRICAL INSTALLATION

WARNING!

- 5.1 This Electric Water Heater must be earthed. Improper grounding could cause electrical shock.
- 5.2 Remember to SWITCH OFF the power supply before carrying out any electrical work.
- 5.3 Refer to Table 1 for the correct cable size.
- 5.4 Use double insulation cable of over 2.5mm² for 2.4kW, 3.5kW 3.8kW, 4.5kW 4.8kW models and 4mm² for 3.6kW and 6.0kW model.
- 5.5 Lead the power cable from MCB to a "ON/OFF" double pole Linked Switch having a contact separation of at least 3mm in all poles outside the bathroom, then lead a cable to the terminal block inside the Electric Water Heater. (Fig. 4)

PROCEDURE :

- 5.6 Insert the wall embedded cable through Side Entry 'A' by cutting a hole at the source cord rubber holder and lead the cable to Cable Bracket 'B'. (Fig. 6)

Always KEEP the water supply to the Electric Water Heater free from mud and dirt at all time during usage.

IMPORTANT

THE HEATER TANK MUST BE FILLED UP WITH WATER BEFORE TURNING ON THE POWER SUPPLY TO PREVENT ANY DRY BURNT DAMAGE TO THE HEATING ELEMENT.

- 4.5 Connect the Hose and Handshower to the outlet of Electric Water Heater, be sure to put in the Washer in between the connection. (Fig. 2)
- 4.6 Hook the Handshower to the Slider Rail Shower Holder and adjust to your ideal position.
- 4.7 Check if any water leakage.
- 4.8 Do not use sealing tape during piping installation.
- 4.9 **WARNING!**
THE WATER INLET AND OUTLET MUST BE INSTALLED CORRECTLY, OTHERWISE ELECTRIC WATER HEATER WILL NOT FUNCTION.
- 4.10 **DO NOT APPLY PLUMBING CEMENT ON CONNECTION. WHENEVER NECESSARY, USE ONLY THREAD OR SEALING TAPE.**

- 5.7 Connect the cable as following: (Fig. 5)
BROWN or RED →LIVE (L)
BLUE or BLACK →NEUTRAL (N)
GREEN or GREEN/YELLOW →EARTH (⊕)
5.8 Clamp the cable to the correct position. Technician need to confirm the wire before installation.
CHECK IF THE WIRING CONNECTION IS CORRECT and replace the cover.
5.9 When putting back the Front Cover, please take note of the procedure shown below :
-Ensure the position is correct, turn the Temperature Control Knob Insert to OFF position as shown in Fig.A (At the Heater Base)
-Install the Front Cover, turn the Temperature Control Knob to OFF position to align with the VR shaft as shown in Fig.B (At the Front Cover)
5.10 Fix the Temperature Control Knob and screw 'A' (Fig. 2).

2. SAFETY INFORMATION

WARNING !

2.1 Products manufactured by Electrolux are safe provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations. Always refer to this manual if you have any doubt.

2.2 The Electric Water Heater must be earthed. Improper grounding could cause electrical shock.

2.3 If any of the following conditions occur as shown below, immediately switch off the power supply and contact the Electrolux Consumer Care Center. Never attempt to repair the Electric Water Heater yourself.

- If the Electric Water Heater begins to make an odd noise, smell or smoke.
- If ELCB trips and Electric Water Heater Indicator does not light up.
- Water temperature cannot be controlled.
- If the Electric Water Heater shows signs of a distinct change in performance.
- If water leaks from inside.

2.4 If the Red (POWER) Indicator does not go off when you turn off the water, switch OFF the mains supply and contact Electrolux Consumer Care Centre for repair service. Special skill is required for repairing. NEVER try to repair the unit by yourself.

2.5 For Pump Model, it is highly recommended to connect the Water Inlet Connection to tank storage supply, otherwise it may cause damage to the Pump Motor.

2.6 When the Electric Water Heater is used by someone such as child, elderly person, sick person and physically handicapped person, the person concerned is kindly requested to pay attention and check the shower temperature by hand from time to time. User is advised to test and adjust the water temperature before using.

2.7 During lightning/thunder, switch off the power supply to the Electric Water Heater in advance to protect the Electric Water Heater against possible damage.

2.8 The earth continuity conductor of the electrical installation must be effectively connected to all exposed metal parts of other appliances and services in the room, which in the Electric Water Heater is to be installed to conform to local regulations and ensure proper earthing/grounding for ELCB to be effective.

2.9 **WARNING :** Metallic / chromed hose and conductive control valve shall not be used.

NOTE : When removing the Electric Water Heater from package, a small amount of water may be found inside. This is normal as the Electric Water Heater is tested during manufacturing process.

CAUTION !

2.10 Installation must be carried out by a qualified personnel and in compliance local authority regulations.

2.11 This Electric Water Heater must be permanently connected to the direct main line supply. A plug and socket is not recommended to be used.

2.12 For the correct size of wire conductor corresponding to different electrical loadings, please refer to Table 1.

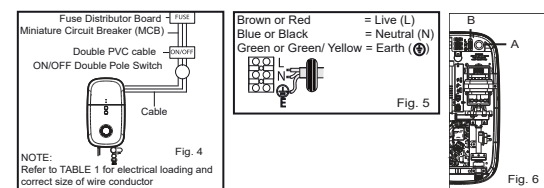
2.13 This Electric Water Heater operates at a minimum water flow rate of 2.0 litre/min (2.2 l/min for 4.8kW & 2.5 l/min for 6.0kW model only) and maximum working pressure of 6 bars. For direct connection from the water tank, the Electric Water Heater must have an installation minimum 1.0m below the water tank.

2.14 The Electric Water Heater will not function if there is insufficient water flow (min 2.0 litre/min / 2.2 l/min for 4.8kW & 2.5 l/min for 6.0kW model only) to trigger the flow switch.

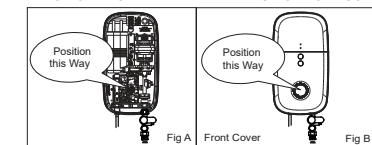
2.15 The built-in ELCB will automatically cut off the power supply in case there is a current leakage over 15mA.

2.16 The thermostat will automatically cut off the power supply if it has sensed an abnormal rise in water temperature.

5. ELECTRICAL INSTALLATION (CONT'D)



METHOD OF ALIGNMENT WHEN REPLACING FRONT COVER



6. TABLE 1 - CABLE SIZE TABLE

Voltage (AC)	Power (kW)	Current (A)	Conductor Size (csa)		On/ Off Switch (A)	Fuse / MCB (A)
			mm ²	Conduit Cable	Flexible Cable	
220V ~ 50/60 Hz	2.4	10.9	2.5	7 / 0.67mm	50 / 0.25 mm	20
	3.5	15.9	2.5	7 / 0.67mm	50 / 0.25 mm	20
	3.8	17.3	2.5	7 / 0.67mm	50 / 0.25 mm	20
	4.5	20.5	2.5	7 / 0.67mm	50 / 0.25 mm	32
	4.8	21.8	2.5	7 / 0.67mm	50 / 0.25 mm	32
	6.0	27.3	4.0	7 / 0.85mm	56 / 0.30 mm	32
240V ~ 50/60 Hz (Malaysia Model)	3.6	15.0	4.0	7 / 0.85mm	56 / 0.30 mm	20

7. TEST RUN

7.1 Turn on the water supply and 3 in 1 Stop Valve, the water will flow through the Handshower.

7.2 Switch on the power supply. The 3 LED Indicator light shall run ON/OFF 3 times in sequences to indicate the set are self checking.

If the Electric Water Heater is not earthed properly, the Earth Led indicator light will OFF, during usage or standby. Earth Led indicator light also OFF if Live & Neutral reverse connection.

7.3 Turn the Temperature Control Knob to 'ON', the Red indicator light (HEATER POWER) will turn on, (ELCB/Power Led indication are combine Led indicator light- ELCB is GREEN & Power is RED)hot water will flow out within a few seconds. The moreTemperature Control Knob being turned in clockwise direction, the hotter is the water.

7.4 The Electric Water Heater might not be hot enough even at the 'MAX' position if incoming water supply from the mains is too cold or the pressure of water is too high. In this case, you may adjust the 3 in 1 Stop Valve to reduce the water inflow in order to get the desired showering temperature. (Recommended flow rate of below 6litre/min)

7.5 Check the Built-in ELCB as following:
- Press the "TEST" Button, the Built-in ELCB should trip and cut off the power supply, ELCB and Power indicators should light off.
- Press the "RESET" Button, the 3 LED Indicator light shall run ON/OFF 3 times in sequences to indicate self checking as in 7.2 above and the Electric Water Heater should resume normal function, the Green LED Indicator should light on. If procedures stated above prevailed, the ELCB is functioning in normal condition.

7.6 The height and direction of Shower Holder are adjustable by releasing the shower holder knob clockwise and anticlockwise.

7.7 Move the Handshower to the desired angle. A ratchet mechanism in the Shower Holder will hold the Handshower in selected position.

7.8 It is unnecessary to turn the Temperature Control Knob to "OFF" position when the Instant Hot Shower is not in use.

7.9 Switch OFF the power supply after shower.

7.10 For Pump model:

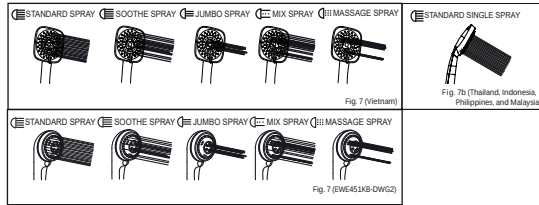
The pump will auto ON when power ON and 3 in 1 stop valve open (and there is water supply)

7.11 Booster Pump Function:

After incoming power supply is ON, and water supply flow through 3 in 1 stop valve while open position but the water flow rate is not sufficient to activate the flow sensor, Booster Pump Function can be useful to help to increase the incoming water flow rate. Press the pump button to activate the booster pump function. The booster pump function will be ON to increase the incoming water flow rate. While the Booster Pump Function is working and the incoming water flow rate can be maintained above flow sensor activation level, the Electric Water Heater will be resumed working continuously as normally. If the incoming flow rate can not be maintained above flow sensor activation level, the Booster Pump Function will be auto OFF and the Electric Water Heater will not be able to function normally due to incoming flow rate is too low. (Advisable to avoid applying Booster Pump Function to increase the incoming water flow rate more than 3 times of each showering).

8. HANDSHOWER SPRAY

This Innovative adjustable Handshower has 5 different spray patterns (STANDARD, JUMBO, SOOTHE, MIX and MASSAGE). The patterns are described as following:



Clean the Handshower Head holes by using the soft brush from time to time. (Recommended once a week)

Note: Take care not to damage the holes of the Handshower Head during cleaning.

9.MAINTENANCE

Read the section "SAFETY INFORMATION" first.

9.1 TEST THE 'ELCB' REGULARLY

(This procedure is highly recommended test at least once a month)

Turn on the power supply and water supply, both Red (HEATER) and Green (ELCB) Indicators will light up if the Temperature Control Knob is in 'ON' position. Press the ELCB Test Button, both HEATER and ELCB Indicators should go off. Press the Reset Button to resume the power supply.

9.2 CLEAN THE FILTER REGULARLY

Clean the Mesh Filter regularly to prevent blockage (Fig. 8). Remove the Built-in Filter by turning its cap anticlockwise. Whenever need

flush the internal stainer with water to remove any trapped sediments. Whenever fixing back the Built-In Filter, beware of the alignment of Internal Strainer. Use the protruded guideline within Stop Valve to position the Internal Strainer.

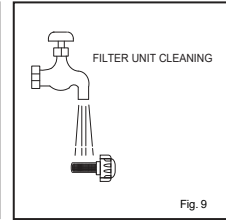
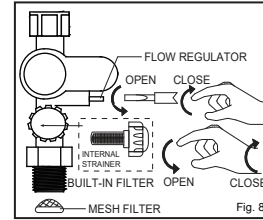
WARNING!

9.3 If the Red (POWER) Indicator does not go off when you press the ELCB Test Button, switch OFF the mains supply and contact Electrolux Consumer Care Centre for repair service. Special skill is required for repairing. NEVER try to repair the unit by yourself.

9.4 CLEANING PRECAUTION !

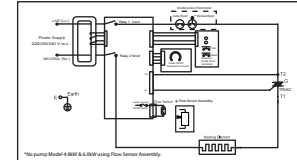
Do not use thinner, alcohol, petrol or any other organic solutions to clean the set. Use only damped cloth with mild detergent.

9.MAINTENANCE - continue

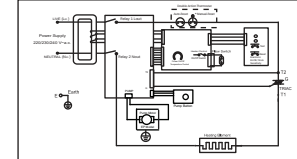


10. WIRING DIAGRAM

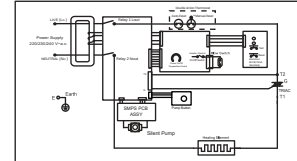
WIRING DIAGRAM -WITH ELCB, NO PUMP DPDT MODEL



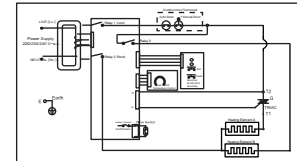
WIRING DIAGRAM -WITH ELCB, AC PUMP DPDT MODEL



WIRING DIAGRAM -WITH ELCB, DC PUMP DPDT MODEL

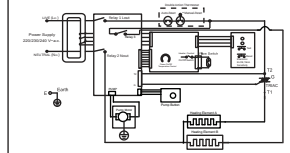


WIRING DIAGRAM -WITH ELCB, NO PUMP DPDT MODEL (FOR VIETNAM MODELS ONLY)

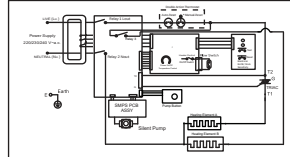


10. WIRING DIAGRAM (CON'D)

WIRING DIAGRAM -WITH ELCB, AC PUMP DPDT MODEL (FOR VIETNAM MODELS ONLY)



WIRING DIAGRAM -WITH ELCB, DC PUMP DPDT MODEL (FOR VIETNAM MODELS ONLY)



* Thermostat Manual Reset (90° C Thermostat)

For Models rated 4.8kW and below, thermostat is manually resettable.

For models rated 6.0kW and above, thermostat needed to be replaced once permanently tripped.

11. ELECTRICAL SPECIFICATION

TYPE	ELECTRONIC POWER CONTROL
ELECTRICAL LOADING	2.4kW TO 6.0kW 220V-240V a.c. 50/60Hz
	3.6kW 240V a.c. 50/60Hz (Malaysia Model Only)
Min. WATER FLOW RATE	2 Litre / min (2.2 l/min for 4.8kW & 2.5 l/min for 6.0kW model only)
Min. INLET WATER PRESSURE	0.1 Bar (10 kPa ; 1.45 psi)
Max. INLET WATER PRESSURE	6.0 Bar (0.6 MPa ; 87.02 psi)
WATER CONNECTION	1/2" BSP SINGLE POINT SYSTEM
DIMENSIONS	220 (W) X 401 (H) X 90 (T) mm
NET WEIGHT	2.5 kg AC Pump Model 2.0 kg DC Pump Model 1.5 kg No Pump Model / 1.7 kg No Pump Model (6kW)

Note : The specification, actual product's cosmetic design and accessories parts shown are correct at the time of printing and may be subjected to change without prior notice.

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www.electrolux.com/shop

CONSUMER CARE AND SERVICE

We recommend the use of original spare parts.

When contacting Service, ensure that you have the following data available.

The information can be found on the rating plate. Model, PNC, Serial Number. (Right side of unit).

- Warning/ Caution-Safety information.
- General information and tips.
- Environmental information.

Subject to change without notice.

CONSUMER CARE

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PT. Electrolux Indonesia
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Email: customer-care@electrolux.co.id
SMS & WA : 0812.8088.8863

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Consumer Care Center Tel: 1300-88-11-22
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