



Installation guide

Lumi Electric

AQUALISA

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Important information

Introduction

Lumi Electric is a surface mounted instantaneous electric shower unit which is available in a choice of performance ratings – 8.5kW, 9.5kW and 10.5kW available in Chrome and White/chrome. Lumi Electric features and illuminated panel complete with brightness control to suit your mood. Lumi Electric’s patented Over Temperature Protection (OTP) device ensures safer comfortable showering whilst the shower provides endless economical showering as it imposes no demand on stored hot water. Lumi Electric is supplied with a 2 year guarantee. If you have any questions at any stage during installation please contact the Aqualisa customer helpline on 01959 560010 for advice.

Safety information

This product must be installed by a competent person in accordance with all relevant current Water Supply Regulations.

ALL SHOWERS REQUIRING AN ELECTRICAL CONNECTION MUST BE INSTALLED BY A QUALIFIED PERSON FOLLOWING THE LATEST REVISION OF BS 7671 (WIRING REGULATIONS) AND CERTIFIED TO CURRENT BUILDING REGULATIONS. WITH REFERENCE TO BUILDING REGULATION PART P, ANY NEW INSTALLATION OR REPLACEMENT PRODUCT INSTALLATION WHICH IS NOT IDENTICAL TO THE PRODUCT BEING REPLACED, THE CABLE SIZES, CIRCUIT PROTECTIVE DEVICES, EARTH BONDING AND ALL OTHER REQUIREMENTS OF THE BUILDING REGULATION MUST BE ASSESSED BY A (REGISTERED) QUALIFIED ELECTRICIAN AND INSTALLED IN CONSIDERATION TO THE SITE CONDITIONS (see table below).

Before removing the shower heater cover, ensure the heater is isolated from the electric mains.

Lumi Electric products must not be connected to any tap or fitting (including shower head and hose) other than those specified.

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 initial supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Cleaning and user maintenance shall not be made by children without supervision.

Lumi Electric is suitable for household use only.

Wiring information

Shower rating @ 240V		8.5kW		9.5kW		10.5kW	
Nominal current @ 240V		35.4A		39.6A		43.8A	
MCB rating		40A		40A		45/50A	
Cartridge fuse		40/45A		40/45A		45A	
Type of cable run	Installed in insulated wall	Min cable size mm ²	Max cable run in m	Min cable size mm ²	Max cable run in m	Min cable size mm ²	Max cable run in m
	Conduit or trunking	6	37	10	55	10	50
	Clipped direct or buried in un-insulated wall	6	37	6	33	10	50

Notes:-

- Cable selection is dependant on de-rating factors detailed in the electrical rating section overleaf.
- In certain installations the combination of low voltage and extended cable lengths may result in loss of power and a consequential reduction in flow rates.
- Above cable sizes are the minimum acceptable sizes. Sizes greater than these shown above may be used and should be used if cable runs are greater than indicated (above cable runs are based on a maximum 9.6V drop).
- Rewirable fuses are not recommended and are not covered by this table.
- Installation should be carried out by a qualified person. Please refer to BS7671 (Wiring Regulations) if in doubt.
- A 16mm² cable may be required for long cable runs.

Cables which are chased into the wall must be protected by the use of conduit or sheathing. Surface mounted cables must also be protected by a suitable approved conduit.

Flushing

Some modern fluxes can be extremely corrosive and, if left in contact, will attack the working parts of this unit. All soldering must be completed and the pipe work thoroughly flushed out in accordance with current Water Supply Regulations prior to connection of the product.

Connections

Lumi Electric is suitable for use with 15mm British Standard pipe and should be connected using a 15mm compression fitting (not supplied). Lumi Electric is suitable for top, bottom or rear entry pipe work and top bottom or rear entry cable. Supply lines should be flushed clear of any debris prior to installation of the unit.

Isolating valves

A suitable full bore isolation valve must be fitted to the incoming supply in accordance with the current Water Supply Regulations and our terms of warranty.

Siting

The Lumi Electric unit must be mounted on a flat, vertical finished wall with the hose outlet pointing downwards. Any distortion of the back plate may result in the unit not working. Spacers are provided fitted to the service tunnel to enable the unit to be fitted to an uneven wall surface. DO NOT tile up to or use sealants around the Lumi Electric unit. The shower is spaced off the wall by integral pillars to allow air circulation around the unit.

The casing must not be sited where it is subjected to continuous spray from the shower head.

The Lumi Electric should not be sited in any situation where it is likely to freeze.

I WARNING. DO NOT SWITCH THE SHOWER ON IF THERE IS A POSSIBILITY THAT THE SHOWER COULD BE FROZEN. If you have switched the shower on, SWITCH OFF IMMEDIATELY. Please refer to the trouble shooting guide overleaf.

Pressures

Check that the dynamic (running) water pressure to the Lumi Electric is adequate. A pressure test adaptor is provided, fitted to the inside of the front cover. Follow the pressure test adaptor fitting instructions opposite to ensure the water pressure to the shower is within the minimum and maximum requirements.

Lumi Electric requires:

Max: 1.0MPa (10 bar)

Min: 0.09MPa (0.9 bar) at a flow rate of 8 litres per minute

The Lumi Electric shower is designed to control static pressure up to 1.0MPa (10 bar). Where pressures are likely to exceed 1.0MPa (10 bar), a pressure reducing valve must be fitted into the incoming mains supply. A setting of 0.3MPa (3 bar) is recommended. It should be noted that daytime pressures approaching 8 bar can rise above the stated maximum overnight. A suitable pressure reducing valve is available from Aqualisa.

The use of other services connected to the water supply to the shower unit may cause the water pressure to drop below the minimum required. This should therefore be taken into consideration.

Pressure relief device (PRD)

To meet European standards, the shower unit features an integral pressure relief device (PRD). The PRD provides a degree of shower unit protection should an excessive build up of pressure occur within the shower.

DO NOT operate the shower with a damaged or kinked hose or blocked shower head, as this can cause the PRD to operate. Failure to follow this instruction will invalidate the product guarantee.

The shower will only function correctly with the hose and handset provided (see shower head installation instructions overleaf). Failure to do so may result in the operation of the PRD and will invalidate the product guarantee.

Please fully commission the shower prior to use following the shower commissioning procedure detailed overleaf. Failure to do so could cause the PRD to operate and will invalidate the product guarantee.

The shower unit must be sited over a bath or shower tray as in the event of the PRD operating, water will drain from the bottom of the shower unit.

Inspection & maintenance

In the interests of safety, we recommend the Lumi Electric and its electrical installation are checked by a qualified electrician at least every 2 years.

Cleaning the filter should only be completed by a qualified person. Please refer to the instructions opposite of how to clean the filter.

After installation

Familiarise the end user with the Lumi Electric operation and hand them this guide.

Complete and post the Lumi Electric guarantee card.

Trouble shooting guide

Symptom	Possible cause	Action
No flow or not enough flow	Power failure (light does not illuminate)	Check power supply, consult electrician
	Water control knob is turned fully clockwise.	Turn flow control knob anticlockwise.
	Water turned off at mains or servicing valve.	Ensure water is turned fully on at the mains and at servicing valve in supply.
	SHOWER UNIT SUSPECTED OF BEING FROZEN.	If so, DO NOT USE. i) Switch off immediately at electrical isolating switch. ii) Turn water off at servicing valve (if fitted) or at stop cock. iii) Contact our Customer Service Department.
	There may be an outlet blockage.	Disconnect handset from hose and run the shower. i) If water flows, then handset is blocked with scale or debris. Clean the handset and spray plate thoroughly. ii) If the water does not flow, remove the hose from the shower outlet. a) If the water flows, the hose is blocked. This could be due to damage, severe kinking or even an obstruction. Replace with a new hose. b) If the water does not flow, there is a blockage in the plumbing to the shower, the filter or the shower itself. Contact our Customer Service Department if the shower is considered to be the problem.
Blocked inlet filter	Remove the filter for inspection. PLEASE REFER TO INSPECTION AND MAINTENANCE SECTION	
Restricted operation of flow control knob	Remove front cover and check operation of knob	
Flow adequate but water too cold	Water flow is too high	Reduce the flow by turning the water control knob towards the hot temperature markings (clockwise) slowly
	No power to unit	a) Check isolator switch is on b) Check MCB or fuse at consumer unit c) Check RCD (if fitted) d) Check 230/240V at terminal block (Electrician only)
	Second stage thermal trip operated	This is a non serviceable part, shower must be replaced
Water too hot	Water flow too low	a) Increase the flow by turning the water control knob towards the cold temperature markings (anticlockwise) slowly. b) Ensure that the stop cock and servicing valve are fully open. If so, ask the installer or the local water authority to check that the running pressure is above the minimum requirement (see Pressures section overleaf). This may be apparent during periods of high demand or when other outlets are used.
	Spray plate blocked with scale or debris.	Clean the handset spray plate.
Water pressure too low.	Water pressure too low.	Check with the installer or local water authority
	Water runs from around hose	Pressure relief device (PRD) has operated due to excess pressure build up. Hose incorrectly fitted. Water pressure to shower is low or unstable Thermal cut-out is operating, normally making a ‘click’ sound
Poor spray pattern	Scald protection device has activated Multi pattern handset incorrectly set Low water inlet temperature Low voltage	Increase the flow by turning the water control knob in the cold temperature direction (anticlockwise). Clean the handset and spray plate. Adjust spray plate to improve pattern Flow rate will naturally be lower when the inlet temperature is low, this applies to all electric showers Consult electrician

Cleaning & maintenance

Your Lumi Electric unit should be cleaned using only a soft cloth and washing up liquid.

DO NOT USE ABRASIVE CLEANERS.

To reduce the requirement for chemical descaling in hard water areas, the shower head incorporates rub clean teats. Any scale build up that may occur in any of the holes can be broken down by gently rubbing the flexible tips of the jets during use. This procedure should be completed regularly, as often as once a week in some hard water areas as scale build up can affect the spray pattern and cause the shower to perform poorly.

Should chemical descaling of the head become necessary, remove the shower head and fully immerse in a mild proprietary descaler.

IT IS IMPERATIVE THAT DESCALING IS CARRIED OUT STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. SUBSTANCES THAT ARE NOT SUITABLE FOR PLASTICS AND ELECTROPLATED SURFACES MUST NOT BE USED.

Cleaning the filter

Cleaning the filter should only be completed by a qualified person.

1. Turn the shower electrical isolating switch off.

2. Isolate the water supply to the shower.

3. Carefully remove fixing screws from the top and bottom of the front cover.

Carefully pull the front cover away from the unit ensuring the solenoid connector block is detached.

4. Unscrew the two screws on the filter protective cover and remove the filter assembly. (Fig.2).

5. Remove the filter assembly and clean as necessary. (Fig.3).

6. Refit the filter assembly and protective cover. Reassemble the unit in reverse of the above procedure.



Fig.2



Fig.3

Pressure test adaptor fitting instructions

Lumi Electric requires the following dynamic (running) water pressure:

Maximum: 1.0MPa (10bar)

Minimum: 0.09MPa (0.9bar) at a flow rate of 8lpm

To ensure the water pressure to the shower is adequate, we recommend adopting the following procedure:

1. Isolate the electrical supply to the shower.

2. Isolate the water supply to the shower.

3. Remove the fixing screws from the top and bottom of the front cover. Carefully detach the solenoid connector and pull the front cover clear.

4. Remove the pressure test adaptor from the inside of the front cover.

5. Unscrew the two fixing screws on the filter and remove the filter assembly.

6. Replace the filter assembly with the pressure test adaptor and secure into place using the filter assembly fixings.

7. Connect a pressure testing device to the adaptor (not supplied).

8. Ensuring the electrical supply remains isolated, turn on the water supply to the shower.

9. Push the solenoid piston up until water runs through to the shower unit.

10. Check the reading on the pressure testing device is within the minimum and maximum requirements stated above.

11. Isolate the water supply to the shower.

12. Detach the pressure test device and remove the adaptor.

13. Refit the filter assembly and secure using the fixings.

14. Refit the pressure test adaptor into the fixing position within the front cover.

15. Reassemble the unit in reverse of the above procedure and turn on the water and electrical supplies to the shower unit.

User Instructions

To turn on and set the temperature

- Turn on the isolating switch.
- Touch the start/stop icon, the white LED should illuminate.



- Rotate the control knob to give the desired temperature; clockwise for warmer and anticlockwise for cooler. Allow a few seconds after each adjustment for the temperature to stabilise.

I WARNING: ALWAYS CHECK THE SHOWERING TEMPERATURE BEFORE STEPPING INTO THE SHOWER. IT WILL TAKE APPROXIMATELY 20 SECONDS TO REACH A STABLE TEMPERATURE.

To turn the shower off

- Touch the start/stop icon.
- Turn off your isolating switch.

N.B. The phased shutdown feature of this shower requires the shower to run on for a few seconds after the shower is turned off. This is a safety feature which flushes any residual hot water out of the shower unit to protect the next user.

N.B. The shower will run for a maximum of 20 minutes continual use before automatically turning off to safe guard the internal working elements. The product can be restarted as soon as desired.

Shower head operation

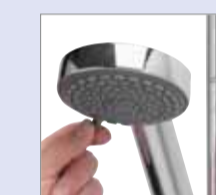
I NEVER ATTEMPT TO MAKE ANY ADJUSTMENT TO THE SHOWER HEAD BY PULLING ON THE SHOWER HOSE.



- To select the preferred height for the shower head, depress the handset holder levers fully to enable the slider to be moved up or down the rail.



- Angular adjustment is made by carefully but firmly pulling forwards or pushing back the shower head against the knuckle in the holder.



- To select the desired spray pattern rotate the shower spray plate clockwise or anti-clockwise.

Brightness control

Lumi Electric features an illuminated control panel complete with brightness control. To adjust the brightness of the illuminated panel follow the procedure below

- With the power supply on to the, but the unit OFF, touch and continually hold the start/stop icon.

- The brightness will automatically start scrolling through from full brightness to panel off.

- When the desired brightness has been reached, remove your finger from the start/stop icon. **I The panel will continuously scroll through the brightness range until you remove your finger from the On/Off icon.**

- The adjusted brightness level will be stored within the internal memory until the next time a brightness adjustment procedure is followed.

I The brightness adjustment procedure can be performed as many times as is desired.

Components



Literature not shown.

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