

Dimplex · Control

EdeI RF

Dimplex



Air Source Heat Pump Water Heater

Installation and User Instructions

Important - This manual must be left with user after Installation!

300004527-2



The Hot Water Association (HWA) Charter is a code of Practice which requires that all members adhere to the following:

- *supply fit for purpose products clearly and honestly described*
- *supply products that meet, or exceed appropriate standards and building and water regulations*
- *provide pre and post sales technical support*
- *provide clear and concise warranty details to customers*

For further information on HWA Charter Membership, please refer to HWA website www.hotwater.org.uk'

All cylinders are certified by KIWA, for further information on this regulation body please refer to the KIWA website www.kiwa.co.uk'

These products are tested in accordance with EN12897:2016

Contents

| | | | | | |
|---------|---|----|----------|----------------------------------|----|
| 1 | Manual Warnings | 4 | 7 | Set-Up and Use | 13 |
| 2 | Safety Information | 4 | 7.1 | Commissioning | 13 |
| 3 | Introduction | 5 | 7.2 | Using your Hot Water Heat Pump | 14 |
| 3.1 | Control App | 5 | 7.3 | Control Box | 14 |
| 4 | Scope of Delivery | 5 | 7.4 | Setting the Language | 14 |
| 5 | Pre-Installation | 5 | 7.5 | Setting the Time | 14 |
| 5.1 | Handling | 5 | 7.6 | Setting the Water Temperature | 15 |
| 5.2 | Unpacking | 5 | 7.7 | Standby Mode | 15 |
| 5.3 | Pipework | 6 | 7.8 | Boost Function | 15 |
| 5.4 | Taps and Fittings | 6 | 7.9 | Electric Mode | 15 |
| 5.5 | Risk Assessment | 6 | 7.10 | Programming | 16 |
| 5.6 | Siting Considerations | 6 | 7.11 | Installer Menu | 17 |
| 5.7 | Cold Water Supply | 6 | 7.11.1 | PV Mode | 17 |
| 5.8 | Building Regulation G3 Discharge Requirements | 7 | 7.11.2 | Adjusting the Operating Settings | 17 |
| 5.8.1 | Discharge Pipe D2 | 7 | 7.11.2.1 | Anti-Bacteria | 18 |
| 5.8.2 | Worked Example | 7 | 7.11.2.2 | Fan Mode | 18 |
| 5.8.3 | Termination of Discharge Pipe | 8 | 7.11.2.3 | Minimum Temperature | 18 |
| 5.9 | Product Disposal | 8 | 7.11.2.4 | Shedding | 18 |
| 6 | Installation | 9 | 7.11.2.5 | Maximum Heating Time | 19 |
| 6.1 | Correctly Site the Cylinder | 9 | 7.11.3 | Locking the Keypad | 19 |
| 6.2 | Cold Water Inlet with Inlet Control Group | 9 | 7.11.4 | Resetting Parameters | 19 |
| 6.2.1 | Install the Inlet Group | 9 | 7.11.5 | Reading Display | 20 |
| 6.2.2 | Expansion Vessel | 9 | 7.11.6 | Counters (Meters) | 20 |
| 6.2.3 | Balanced Cold Water Supply | 10 | 7.12 | Control App | 20 |
| 6.2.4 | Drain Valve | 10 | 7.12.1 | Home Screen | 20 |
| 6.3 | Hot Water Outlet | 10 | 7.12.2 | Holiday Mode | 20 |
| 6.3.1 | Thermostatic Mixing Valve | 10 | 7.12.3 | Schedule Control | 20 |
| 6.3.2 | Pipe Insulation | 10 | 7.12.4 | Hygiene Mode | 20 |
| 6.4 | Discharge Pipes from Safety Devices | 10 | 8 | Maintenance | 21 |
| 6.4.1 | Discharge Pipe D1 | 10 | 8.1 | DHW Cylinder | 21 |
| 6.4.2 | Discharge Pipe D2 | 10 | 8.2 | Heat Pump | 21 |
| 6.4.3 | Tundish | 10 | 8.3 | Air intake & Exhaust | 21 |
| 6.5 | Immersion Heaters | 10 | 8.4 | Heat Pump Condensation | 21 |
| 6.6 | Air Connection | 11 | 8.5 | Electrical Connections | 22 |
| 6.7 | Ducting Design | 11 | 8.6 | Troubleshooting | 23 |
| 6.7.1 | Worked Example | 11 | 8.7 | Spare Parts | 24 |
| 6.8 | Condensates Draining | 11 | 8.8 | Error Codes | 25 |
| 6.9 | Electrical Connections | 12 | 9 | Warranty | 27 |
| 6.9.1 | Accessing Electrical Connections | 12 | 9.1 | Warranty Limits | 27 |
| 6.9.1.1 | Electricity Provider Contact | 12 | 9.1.1 | General Information | 27 |
| 6.9.1.2 | Connecting the PV Function | 12 | 9.1.2 | Exclusion from Warranty | 28 |
| | | | 9.1.2.1 | Use | 28 |
| | | | 9.1.2.2 | Handling | 28 |
| | | | 9.1.2.3 | Installation Site | 28 |
| | | | 9.1.2.4 | Electrical Connections | 28 |
| | | | 9.1.2.5 | Hydraulic Connections | 26 |
| | | | 9.1.2.6 | Accessories | 26 |
| | | | 9.1.2.7 | Maintenance | 26 |
| | | | 10 | Technical Data | 27 |

1 Manual Warnings



Electrical Warnings

Indicates any hazard of an electrical nature.

Information



Indicates tips and advice for the smooth operation of the system.

General Warnings



Indicates a general warning against actions which could result in damage to the system or personal injury to the installer and/or user.

2 Safety Information



This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of appliance in a safe way and understanding the hazards involved - some parts of this product can become hot and cause burns. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



No isolating device may be fitted between the inlet group and the cold water inlet on the cylinder, as by doing so important safety devices could be isolated!



The maintenance of this appliance must be carried out by suitable qualified person only. It is recommended to maintain the unit on an annual basis. Isolate all electrical supplies from the unit before commencing work. Danger of electrical shock!



It is important that the tundish is positioned away from any electrical components.



Means for electrical disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.



Before removing the cover from the immersion heater isolate the appliance using isolating switch! Danger of electrical shock! Only use suitable electrically insulated equipment when working inside immersion housing.



The cylinder must be filled with water before switching on the immersion heater. Failure to do so will damage the element and void the warranty.



The appliance should be installed in a place where it is not exposed to damp and is not at risk of being splashed with water.



It is important to check the pre-charge pressure of the expansion vessel membrane before filling the cylinder. This has been factory set to 3 bar. The pre-charge should be greater than or equal to 3 bar.



A high level cut-out is fitted to the product for each heat source. This should never activate under normal operation.

Please retain manual for future reference.



If an electronic copy of this manual should be required, please contact the manufacturer at the address at the back of this manual.

3 Introduction

Thank you for choosing this product. The Edel Air Source Heat Pump water heaters are specified with high quality, immersion heaters for fast reheat times. They boast 50mm of low GWP insulation foam, together with 100% recyclable stainless steel inner components and a hard wearing outer shell manufactured from completely recycled materials.

Note:

This product has been designed specifically for the purpose of delivering heated, domestic and sanitary hot water as part of a pressurised water heating system. The package is provided with fittings that comply with Section G3 of Building Regulations.



Dimplex cannot take responsibility for ensuring safe operation of the appliance outside of the scope of intended use.

3.1 Control App

This product is Dimplex Control capable * .

Control and monitor your heating and hot water with Dimplex Control. Group appliances into zones to easily control and track their energy usage. Any time. Anywhere. Search for Dimplex Control on your device's app store.



*A Dimplex Hub is required for this product to connect to Dimplex Control. For instruction on setting up Dimplex Hub, please refer to the manual. Manuals can be downloaded at Dimplex.co.uk.

4 Scope of Delivery

| Scope of delivery | | |
|--|-------------------|--|
| Cylinder volume | EDL200UK-630-RF N | EDL270UK-630-RF N |
| Cylinder with 1.5kW immersion * | 1 | 1 |
| T+P valve * | | 1/2", 7bar/90°C |
| Inlet control group consisting of:- | | ✓ |
| - in line strainer | | |
| - 3 bar PRV | | |
| - 6 bar ERV | | |
| - non-return valve | | |
| - balanced cold water supply port | | |
| - connection for expansion vessel | | |
| Expansion vessel with fixing kit and connection hose | | 19L [Pre-charge pressure 0.3MPa (3bar)] |
| Tundish | | 15mm/22mm |
| Installation & User Instructions x 1 | | ✓ |
| Terms and conditions x 1 | | ✓ |

Table 1: Scope of Delivery for Edel RF Hot Water Heat Pump

* These items are supplied factory fitted

5 Pre-Installation Advice

Please read the following section carefully before commencing installation. If in any doubt, please call the appropriate help desk. Disregarding the instructions given in this manual in its entirety and any relevant regulations, standards and codes of practice will void the guarantee of this product.

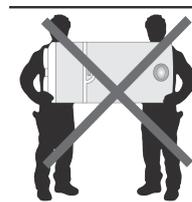
5.1 Handling

The upper covers of the appliance are not made to withstand force and should not be used for handling purposes. Use of the transport bag provided is STRONGLY recommended to ensure safe movement and to limit possible damage to the edel DHW Heat pump.

Non-permitted transport positions:



DO NOT USE THE CONDENSATE SPIGOT / T&P VALVE OR WATER INLET/OUTLETS TO CARRY THE CYLINDER - USE THE SUPPLIED CARRYING BAG.



Transporting of the applicate can only be horizontal as shown on transport packaging.

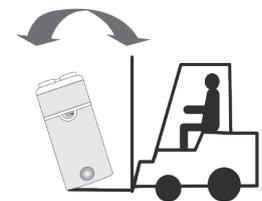
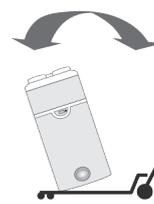
Permitted transport positions:

No other transport position is authorised



All other transport positions are PROHIBITED

If tipped, the centre of gravity will shift towards the top: handle with care.



Risk of tipping/falling



Do not drop or lower suddenly

Please note that handling, installation and use of this product is subject to the Health and Safety at Work Act. If the unit is not installed immediately, it should remain in its protective packaging with all pipe protectors/end caps applied to prevent damage and dirt deposit inside the water heater and the coil.

5.2 Unpacking

- Remove plastic cover and cardboard packaging.
- Remove corner protection pieces, ensuring that all nails and staples are taken out.
- Remove protective film from all parts of the appliance and from the bag of accessories which you will find in the transport bag.
- Without tilting the appliance, use an M13 spanner/socket to remove the transport bolt holding the cylinder to the pallet then slide the cylinder off the pallet and into the transport bag, so the cylinder can then safely be carried into position.

Keep the transport bag out of reach of children (risk of suffocation).

5.3 Pipework

The pipe runs should be executed as short as possible, unused pipework should be removed and all remaining pipework should be lagged in accordance with regulatory requirements to prevent heat loss and the formation of condensation.

5.4 Taps and Fittings

All taps and fittings incorporated in the system should have a rated operating pressure of 0.6 MPa (6 bar) or above.

5.5 Risk Assessment

It is strongly recommended to complete a risk assessment before installing the product. The following areas require particular consideration in addition to the information required by the Health and Safety at Work Act.

- Scalding: where appropriate or required by law a thermostatic mixing valve is to be fitted to the hot water outlet of the cylinder.
- Explosion: the unit is fully equipped with all relevant safety equipment to comply with current regulations. The correct design and function has been verified by independent third party testing. The correct application hereafter is the responsibility of the competent installer.
- Water borne organisms (i.e. Legionella): if applicable a risk assessment should be carried out following the recommendations outlined in the Approved Code of Practice L8.
- The user preference must be considered when commissioning the system.

5.6 Siting Considerations

When choosing the place where the appliance is to be installed the following points should be taken into consideration:

- Structural integrity.
- Access for installation, operation, maintenance and replacement.
- Routing of discharge pipework.
- Access to water mains supply, hot and cold water distribution pipework.
- Access to suitable electricity supply.

It is PROHIBITED:

- To let the appliance operate using air intake which contains solvents or explosive matter.
- To use air intake which contains grease, dust or aerosol particles.
- To connect vented exhaust hoods to the ventilation system.

It is PROHIBITED to install the appliance

- Outdoors
- In rooms which are exposed to frost
- In humid rooms which have a lot of steam or vapour (for example, a bathroom)

The water heater may be located on any flat and level surface, provided it is sufficiently robust to support the weight of the water heater when full of water (please see technical data) and suitably accessible for replacement/maintenance without specialist tools or lifting equipment as this will void the warranty conditions.

Particular care must be taken when placing the water heater in a garage or outbuilding. All exposed pipework must be correctly insulated to avoid frost damage.

The position and orientation of the water heater should be such that easy access is provided for servicing the controls. A minimum distance of 400mm in front of the immersion is recommended, to allow the replacement of the immersion heater should the need arise. When installing the water heater all labels should be clearly visible and ensure that no pipework hinders any work to be carried out on the various components.

Ensure the product is level, failure to do so may result in the condensate not able to flow out through the condensate drain and will leak over the edge of the condensate tray.



Figure 1: Correct siting of Water Heater

5.7 Cold Water Supply

For satisfactory and safe performance of the water heater the water supply must meet the following criteria:

| | |
|--------------------------------------|-------------------------|
| Minimum dynamic pressure | 150Kpa (1.5 bar) |
| Maximum inlet supply pressure | 1200Kpa (12 bar) |
| Minimum flow rate | 15l/min |
| Max. chlorine content | 250mg/L |
| Max. water hardness | 200mg/L |

The following instructions have to be followed when installing the cold water mains supply to the water heater:

- The cold water supply to the water heater must come directly from the cold water mains after the mains stop valve to the property.
- The cold water inlet pipework should have at least an inside diameter of 19mm and should meet the requirements of the water regulations for the supply of wholesome water.

Dimplex recommend an annual maintenance inspection is carried out on the water heater. In hard water areas this should include inspection of the immersion heater, [above 120ppm or 120mg/l]. A local water treatment company should be able to offer free water quality testing. The heating elements may require periodic de-scaling. The installer should do this as part of a maintenance agreement.

If required, precautions can be taken to minimise effects of water hardness, i.e. installation of water conditioner or water softener. These devices should be installed in hard water areas where high water storage temperatures are required, i.e. greater than 60°C storage temperatures, particularly when water hardness exceeds 200ppm. Should the water heater require de-scaling, this must be performed by a qualified technician.

5.8 Building Regulation G3 Discharge Requirements

As part of the requirements of Building Regulation G3 this product is factory fitted with a T&P valve, which complies with BS EN 1490. Any discharge from a water heater system should be conveyed to where it is visible, but will not cause danger to persons in or about the building. The tundish and the discharge pipes should be fitted in accordance with the requirements of Building Regulation approved document G3, (England and Wales), Part P of Northern Ireland and Standard 4.9 of Scotland.

5.8.1 Discharge Pipe D2

The discharge pipe (D2) from the Tundish should:

- "have a vertical section of pipe at least 300mm long below the tundish before any elbows or bends in the pipework and be installed with a continuous fall of at least 1 in 200 thereafter."

The discharge pipe (D2) should be made of:

- "metal; or other material that has been demonstrated to be capable of safely withstanding temperatures of the water discharged and is clearly and permanently marked to identify the product and performance standard"

Dimplex strongly recommends the use of metal pipework only and Dimplex does not take responsibility for any damage caused from discharges.

The discharge pipe D2 should be at least one pipe size larger than the nominal outlet size of the safety device unless its total equivalent hydraulic resistance exceeds that of a straight pipe 9m long, i.e. for discharge pipes between 9m and 18m the equivalent resistance length should be at least two sizes larger than the nominal outlet size of the safety device; between 18m and 27m at least 3 sizes larger, and so on; bends must be taken into account in calculating the flow resistance. See Figure 2, Table 2 and the worked example.

Note: An alternative approach for sizing discharge pipes would be to follow Annex D, section D.2 of BS 6700:2006 + A1:2009).

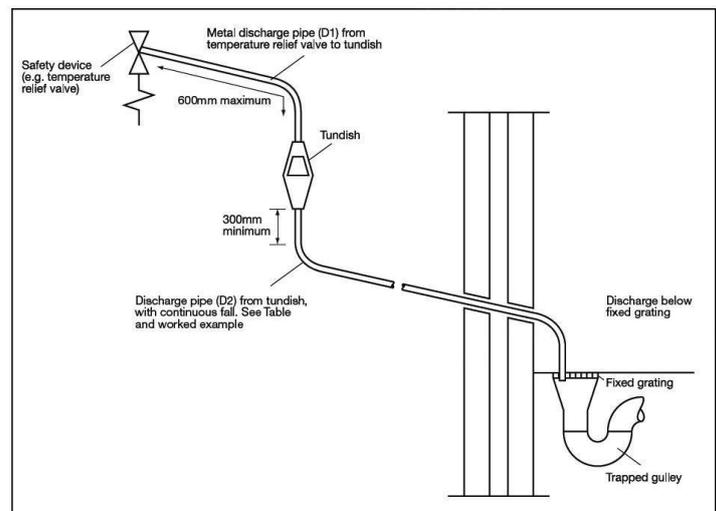


Figure 2: Typical discharge pipe arrangement

| Value outlet size | Minimum size of discharge pipe before tundish (mm) | Minimum size of discharge pipe after tundish (mm) | Maximum allowed length of pipe after tundish (m) | Length to be subtracted for each elbow or bend (m) |
|-------------------|--|---|--|--|
| G1/2 | 15 | 22 | 9 | 0.8 |
| | | 28 | 18 | 1.0 |
| | | 35 | 27 | 1.4 |
| G3/4 | 22 | 28 | 9 | 1.0 |
| | | 35 | 18 | 1.4 |
| | | 42 | 27 | 1.7 |
| G1 | 28 | 35 | 9 | 1.4 |
| | | 42 | 18 | 1.7 |
| | | 54 | 27 | 2.3 |

Table 2: Discharge

5.8.2 Worked Example

This example is for a G½ temperature relief valve with a discharge pipe (D2) having 4 No. 22mm elbows and length of 7m from the tundish to the point of discharge.

From Table 2, the maximum resistance allowed for a straight length of 22mm copper discharge pipe (D2) from a G½ temperature relief valve is 9.0m. Subtract the resistance for 4 No. 22mm elbows at 0.8m each = 3.2m.

Therefore the maximum permitted length equates to 5.8m, which is less than the actual length of 7m, therefore calculate the next largest size. Maximum resistance allowed for a straight length of 28mm copper discharge pipe (D2) from a G $\frac{1}{2}$ temperature relief valve is: 18m. Subtract the resistance for 4 No. 28mm elbows at 1.0m each = 4m. Therefore the maximum permitted length equates to 14m. As the actual length is 7m, a 28mm (D2) copper pipe will be satisfactory.

- Where a single common discharge pipe serves more than one system, it should be at least one pipe size larger than the largest individual discharge pipe (D2) to be connected.
- The discharge pipe should not be connected to a soil discharge stack unless the soil discharge stack is capable of safely withstanding temperatures of the water discharged, in which case, it should:
 - Contain a mechanical seal, such as a Hep-VO valve, which allows water into the branch pipe without allowing foul air from the drain to be ventilated through the tundish.
 - There should be a separate branch pipe with no sanitary appliances connected to it.
 - If plastic pipes are used as branch pipes carrying discharge from a safety device, they should be either polybutylene (PB) or cross-linked polyethylene (PE-X) complying with national standards.
- Be continuously marked with a warning that no sanitary appliances should be connected to the pipe.

5.8.3 Termination of discharge pipe

- The discharge pipe (D2) from the tundish should terminate in a safe place where there is no risk to persons in the vicinity of the discharge.

Examples of acceptable discharge arrangements are:

- To a trapped gully with the end of the pipe below a fixed grating and above the water seal;
- Downward discharges at low level; i.e. up to 100mm above external surfaces such as car parks, hard standings, grassed areas etc. are acceptable providing that a wire cage or similar guard is positioned to prevent contact, whilst maintaining visibility; and ,
- Discharges at high level: e.g. into a metal hopper and metal downpipe with the end of the discharge pipe clearly visible or onto a roof capable of withstanding high temperature discharges of water and 3m from any plastic guttering system that would collect such discharges.

Should plastic discharge pipe be used as described in Section 4.5.4, a Hep-VO (BV1) valve must be fitted directly below the tundish, be vertical in orientation, adjacent to the water cylinder and be visible and easily accessible. When terminating into a soil stack it is critical the specifications of the soil stack can accept high temperature discharge water.

"NHBC Technical Guidance Document 8.1" provides guidelines on the use of alternative materials for discharge pipe work and guidelines on installation of necessary fittings and components that make the cylinder discharge arrangement compliant with regulations when using plastic components.



As the discharge would consist of high temperature water and steam, asphalt, roofing felt and non-metallic rainwater goods may be damaged by such discharges.

5.9 Product Disposal



This product has been manufactured from mostly recyclable materials. At the end of the product's life, it should be disposed of at a Local Authority Recycling Centre.

Fluids:

- R290 refrigerant must be safely disposed of by a suitably qualified person(s);

Materials:

- Inner Cylinder - Stainless Steel
- Outer Cladding - HIPS/ABS (Polypropylene BE 50)
- Inlet/Outlet Pipe - Plastic (Polypropylene BE 50)
- Insulation - 50mm PU Foam (GWP =1, ODP =0)

Connections & Fasteners:

- Inlet/Outlet - stainless steel
- T&P Valve - 1/2" F BSP
- Immersion Heater - 1 1/4" F BSP

Safety & Control:

- Cold water inlet group - brass
- Tundish - acetal co-polymer
- T&P Valve - brass
- Expansion vessel with flexible hosing - mild steel

6 Installation

6.1 Correctly Siting the Water Heater

Install the water heater in an appropriate location, ensuring all of the recommendations have been considered (see Section 5.6).

6.2 Cold Water Inlet with Inlet Group

6.2.1 Install the Inlet Group

The inlet group regulates the pressure of the incoming mains water supply to the water heater and removes any debris that might be water borne.



Between the inlet group and the cold water inlet on the water heater NO isolating device may be fitted, as by doing so important safety devices could be isolated!

6.2.2 Expansion Vessel

The expansion vessel is mandatory on the Dimplex water heater and can be connected directly to the cold water inlet group, utilising the flexible hose supplied with the vessel. The expansion vessel should always be fitted in accordance with the manufacturer's instructions, see Figure 3. No isolating device should be fitted between the water heater and the cold water inlet group.

Furthermore, it is recommended to mount the vessel higher than the water heater to avoid having to drain the water heater when maintaining and replacing the expansion vessel.

It is important to check the pre-charge pressure of the expansion vessel membrane before filling the cylinder. The pre-charge should be greater than or equal to 3 bar.

6 Installation

6.1 Correctly Siting the Water Heater

Install the water heater in an appropriate location, ensuring all of the recommendations have been considered (see Section 5.6).

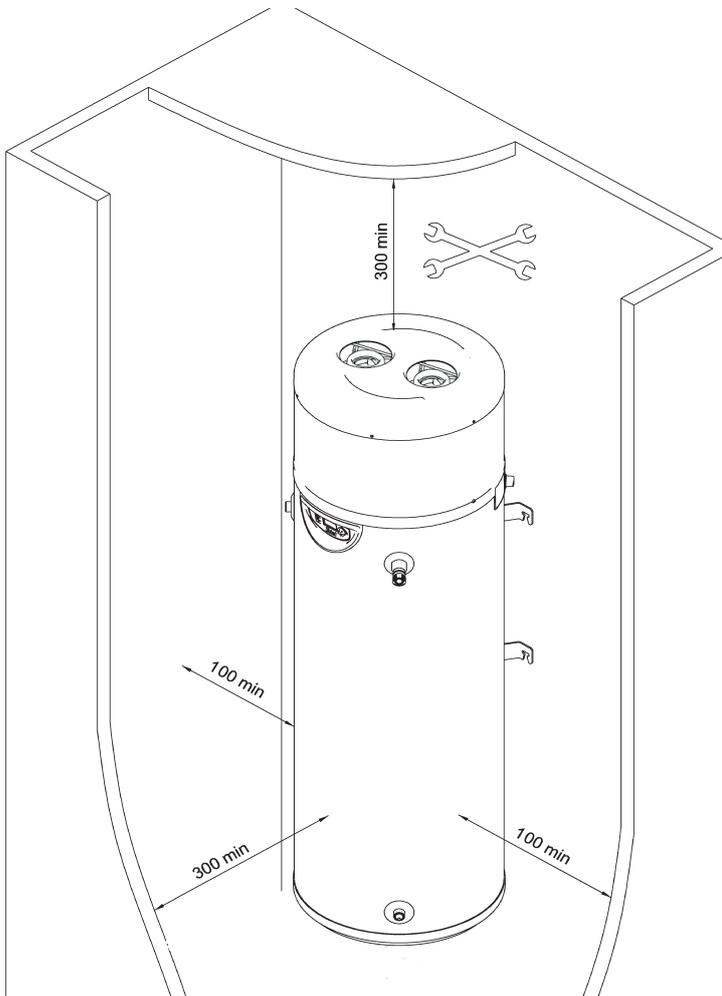


Figure 3: Installation access

Figure 3 outlines the space requirements around the appliance for ease of access, installation and maintenance that must be adhered to.

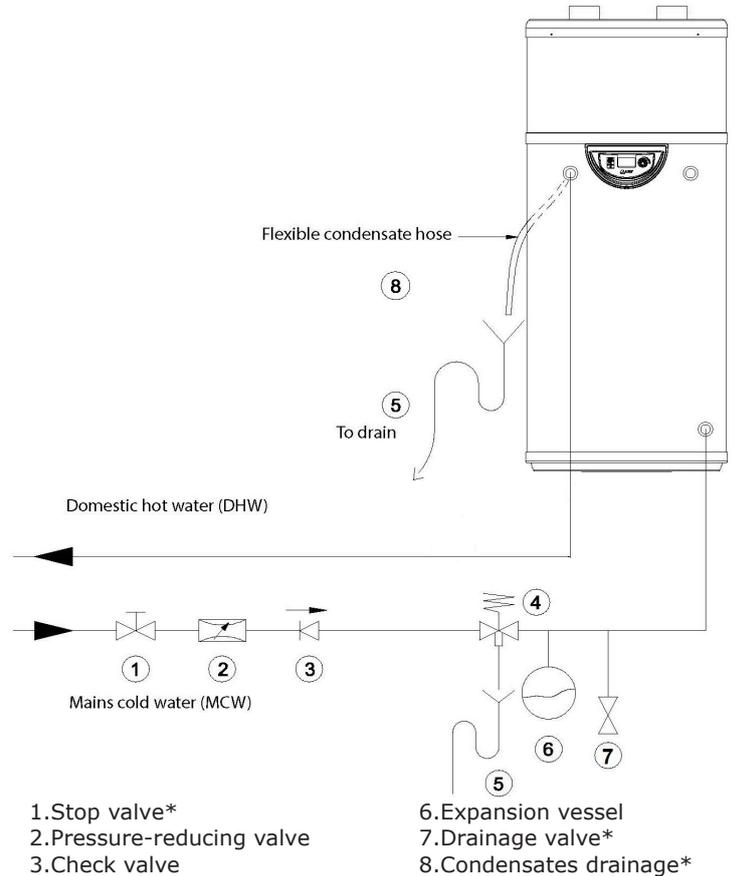
6.2 Cold Water Inlet with Inlet Group

6.2.1 Install the Inlet Group

The inlet group regulates the pressure of the incoming mains water supply to the water heater and removes any debris that might be water borne.



Between the inlet group and the cold water inlet on the water heater NO isolating device may be fitted, as by doing so important safety devices could be isolated!



1. Stop valve*
2. Pressure-reducing valve
3. Check valve
4. Pressure relief valve
5. Drain*
6. Expansion vessel
7. Drainage valve*
8. Condensates drainage*

* Components to be provided by the installer

Figure 4: Inlet connections

6.2.2 Expansion Vessel

The expansion vessel is mandatory on the Dimplex water heater and can be connected directly to the cold water inlet group, utilising the flexible hose supplied with the vessel. The expansion vessel should always be fitted in accordance with the manufacturer's instructions, see Figure 5. No isolating device should be fitted between the waterheater and the cold water inlet group.

Furthermore, it is recommended to mount the vessel higher than the water heater to avoid having to drain the water heater when maintaining and replacing the expansion vessel.

It is important to check the pre-charge pressure of the expansion vessel membrane before filling the cylinder. The pre-charge should be greater than or equal to 3 bar.



Figure 5: Connection of the expansion vessel to the inlet group

Note: The expansion vessel must be installed to the side of the expansion relief valve on the inlet group. To do this the blanking plug must be removed and the expansion vessel connected, as shown in Figure 4.

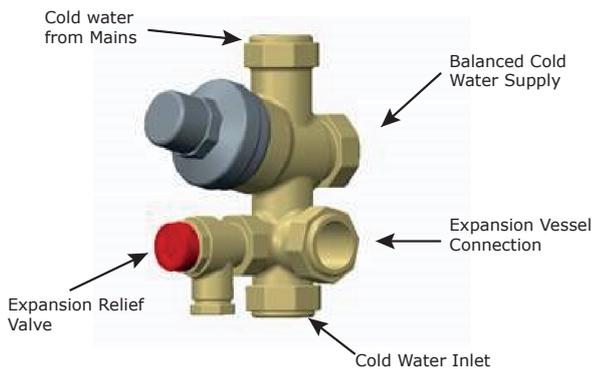


Figure 6: Detail showing the connection of the expansion vessel to the inlet group

6.2.3 Balanced Cold Water Supply

If balanced cold water supply is required a connection can be taken from the bottom of the inlet group.

6.2.4 Drain Valve

It is also mandatory to install a drain valve (not supplied) in the lowest point of the cold water feed to the water heater. This allows the water heater to be drained in a controlled manner should this become necessary.

6.3 Hot Water Outlet

The hot water pipework is to be directly connected to the hot water outlet connection on the water heater.

6.3.1 Thermostatic Mixing Valve

A thermostatic mixing valve may be required to limit the outlet temperature. In this case, the valve should be installed following the manufacturer's instructions, ensuring none of the safety equipment has been isolated, (i.e. make sure the connection to the thermostatic mixing valve is taken after the safety equipment of the inlet group).

The location of a Thermostatic mixer should also take into account the legionella risk assessment to ensure pipework can reach the required temperatures to limit the risk of legionella.

6.3.2 Pipe Insulation

It is required to insulate the hot water pipework from the water heater to the outlets, to reduce the energy requirements for providing hot water. It is also required to insulate all other exposed pipework, such as the T&P to the tundish, the coil flow and return and the cold water inlet pipes.

6.4 Discharge Pipes from Safety Devices

6.4.1 Discharge Pipe D1

The temperature and pressure relief valve must be discharged directly or by way of a manifold via a short length of metal pipe (D1) into a tundish; and the discharge pipe must be installed in a continuously downward direction and in a frost free environment. Water may drip from the discharge pipe of the pressure relief device and this pipe must be left open to the atmosphere.

The diameter of discharge pipe (D1) should not be less than the nominal outlet size of the safety device, e.g. temperature relief valve.

Where a manifold is used it should be sized to accept and discharge the total discharge from all the D1 discharge pipes connected to it.

The discharge pipework from the expansion relief valve must be installed constantly falling to an open point of discharge. It is recommended to combine it with the discharge of the temperature and pressure relief valve.

Note: The T&P valve is pre-sealed and if moved the seal will be broken, should this occur, it will need to be re-sealed with an appropriate sealant (Dimplex part number R00836-1).

6.4.2 Discharge Pipe D2

For a detailed description of the discharge pipework D2 (see Section 5.8.1).

6.4.3 Tundish

The tundish should be vertical, located in the same space as the unvented hot water storage system and be fitted as close as possible to, and lower than, the safety device, with no more than 600mm of pipe between the valve outlet and the tundish (see Figure 2).

Where discharge may not be apparent, e.g. in dwellings occupied by people with impaired vision or mobility, consideration should be given to the installation of a suitable safety device to warn when discharge takes place, e.g. electronically operated.

Note: To comply with the Water Supply (Water Fittings) Regulations, the tundish should incorporate a suitable air gap.

Note: It is important that the tundish is positioned away from any electrical components.

6.5 Immersion Heater

The Edel Air Source Heat Pump Water Heater comes with the immersion heater factory fitted and wired. The immersion heater incorporates an independent non-self resetting over temperature cut-out. Should this operate, please investigate the cause of the cut out before resetting (See Troubleshooting).

 The water heater must be filled with water before switching on the immersion heater. Failure to do so will damage the element and void any guarantee on the product.

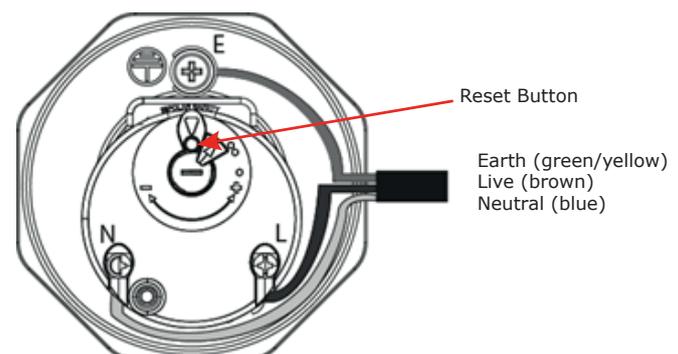


Figure 7: Wiring diagram for Immersion Heater

6.6 Air Connection

The heat pump operates over a large air temperature range (from -7°C to 35°C) using energy from outdoor air. It is essential to correctly design and install the air ducting system to ensure the product operates properly and complies with regulations.

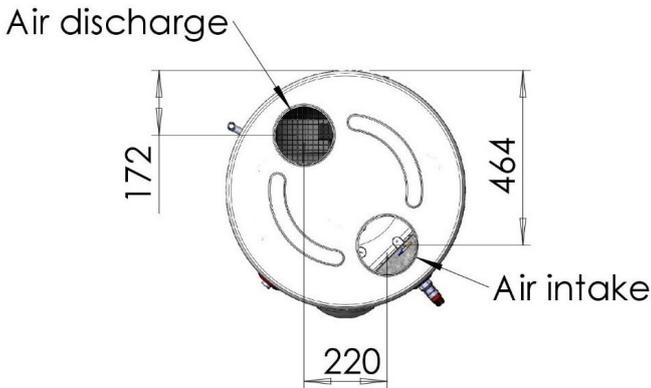


Figure 8: Air intake and Air discharge

The air supply to and from the Edel heat pump water heater must **NOT** extract air from the living space of the dwelling. The air must be supplied to the appliance directly from the outside or from another source outside the thermal envelop of the living space.

The ducting used to connect the air intake and exhaust must be sufficiently insulated to prevent condensation forming. Condensation may result in damage to the appliance and/or building fabric.

Dimplex does not take any responsibility for issues caused by poor ducting design or installation.

Figure 8 provides an example of how the ducting inlet and outlet connections should be installed.

Ducting must be installed in such a way that it can be easily removed for servicing and inspection.

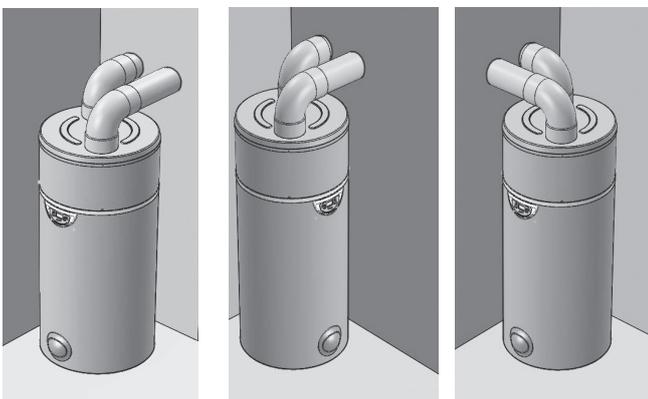


Figure 9: Examples of air connection to the water heater

Dimplex does not take responsibility for installation and the operating efficiency of the appliance when installed outside the scope of the guidelines provided in this document.

6.7 Ducting Design

It is essential to maintain a minimum air low rate through the ducting for correct operation of the appliance. The nominal mass low rate must be maintained above $320\text{m}^3/\text{hr}$.

For the fan to operate in Fan speed 1, the maximum system pressure drop across the ducting connections must not exceed 100Pa and for Fan speed 2 the maximum pressure drop must not exceed 260Pa



Fan speed 1 will operate when the system pressure drop is minimal as a result of very short duct runs. System efficiency will be slightly increased and the noise level slightly reduced.

NOTE: The system reliability and efficiency will be compromised should the mass air flow rate drop below $320\text{m}^3/\text{hr}$.

During the product specification stage, it is essential that the system designer calculated the required total quantity of ducting connections, lengths, bends and terminations to establish an accurate value for total system pressure drop based on the system air flow rate requirements.

6.7.1 Worked Example

A ducting system with the following design;

| | Item | Qty | ΔP [Pa] | Total [Pa] |
|---|-------------------|-----|-----------------------|------------|
| Air Intake | 2m straight | X 5 | 4.8 | 24.0 |
| | 90°bend | X 3 | 12.5 | 37.5 |
| | External terminal | X 1 | 51.0 | 51.0 |
| Air Exhaust | 2m straight | X 4 | 4.8 | 19.2 |
| | 90°bend | X 2 | 12.5 | 25.0 |
| | External terminal | X 1 | 51.0 | 51.0 |
| Total System Calculated Pressure Drop @ $320\text{m}^3/\text{hr}$ | | | | 207.7 Pa |

Table 3: Worked example

Note:

- The calculated worked example includes all the necessary ducting components to complete the installation and has resulted in a total system pressure drop of 207.7 Pa at $320\text{m}^3/\text{hr}$ mass air flow rate. This is acceptable as the pressure drop is below the maximum permissible allowed.
- The pressure drop information provided is for 160mm semi rigid Ubbink ducting, other ducting types, for example Verplas Self Seal Thermal rectangular ducting system, or equivalents may be used where void spaces dictate, however the total maximum pressure drop must not exceed the stated values and be capable of meeting the $320\text{m}^3/\text{hr}$ mass air flow rate. Ducting must be insulated.

6.8 Condensates Draining

The condensates tube should not be directly connected to a drain. It must terminate into open air through a U-bend which has been added and contains water.

- Do not use an elbow on the flexible hose

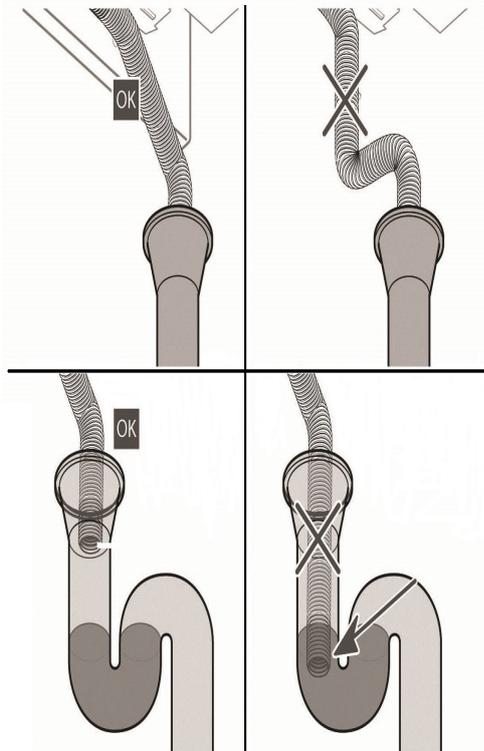


Figure 10: Detailing the correct connection of condensates draining

6.9 Electrical Connections

The power supply should comply with the regulations in the country of installation, as well as the IEE Wiring Regulations.

A means of disconnection which ensure an electrical isolation in Category III conditions should be installed in fixed cabling in compliance with the installation rules.

Protect the appliance with :

- A 13A fused spur or isolator must be installed adjacent to the appliance for mains supply connection.
- A 16A RCBO type C circuit breaker must be fitted at the local consumer unit on the same supply.

If the power supply cable is damaged it must be replaced by a suitably qualified technician or electrician.

6.9.1 Accessing Electrical Connections

To access electrical connections:

- Isolate the electrical connections.
- Remove the cover from the top of the appliance by taking out the screws which fix the lid onto the lower base of the heater.
- Remove the black protective cover from the electronic board.



Only a voltage-free, external connection may be used, or the electronics board may be destroyed.

6.9.1.1 Electricity Provider Contact

To stop the electrical back-up immersion running during peak time, connect the voltage-free contact from your electricity meter to terminal n°1, please refer to Figure 8.

- Contact open = electrical back-up not authorised to run
- Contact closed = electrical back-up authorised to run

If you choose load shedding level 1, the electrical back-up is prevented from running. If you choose load shedding level 0, both the electrical back-up and the heat pump will be prevented from running (see Section 7.10.2.4).

To prevent electrical backup operating during peak hours, if a volt free output is not available from the meter, a timer switch should be used if:

- Switch off = backup not allowed
- Switch on = backup allowed

Only a zero-voltage, external control such as a timer switch should be used (if not, the electronic board could be destroyed).

- Pass a 0.75mm 2-wire cable with crimped ends through a cable gland at the back of the appliance and bring the end of the cable round to the electronic board. The other end of the cable should be connected to the timer switch.
- Insert the 2-wire cable through a grommet on the electronics board.
- Connect the 2-wire cable to "Entrée 1" indicated on the electronic board, having removed the existing red bridge beforehand.

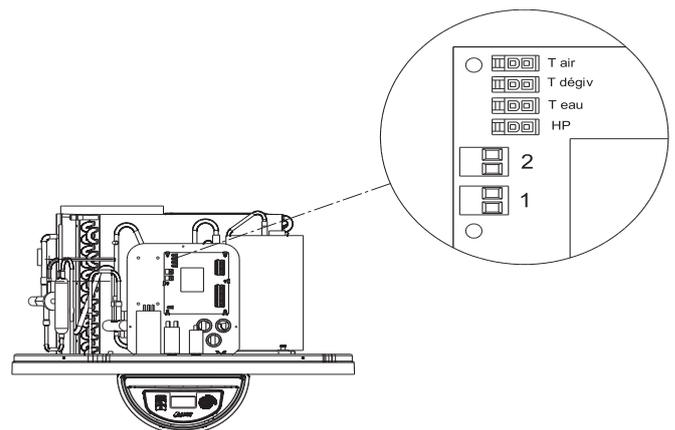


Figure 11: Detailing the electricity provider contact on the electronic board

6.9.1.2 Connecting the PV Function

This function enables the appliance to operate in auto-production mode, which means that it will use the energy produced by the PV function to supply the heat pump as well as the electrical back-up, in order to heat the water in the tank.

The connection is made between the PV Inverter and connectors 1 and 2 on the electronics board.

- Remove the appliance lid.
- Remove the black cover from the electronic board.
- Connect the PV function cable to connector 1 on the electronic board.
- If the PV function regulator has two control contacts, connect them to Entrée 1 and 2 on the electronic board (see Figure 9).
- Terminal 1: a low level of electrical energy is produced by the PV function.
- Terminal 2: a high level of electrical energy is produced by the PV function.

7 Set-Up and Use

7.1 Commissioning

Deterioration risk: The water tank must be filled before the appliance is switched on or connected to a power supply.

At the time of commissioning, complete all relevant sections of the Checklist located on the inside back pages of this document.

The following commissioning procedures only detail the required steps to be taken for the potable water loop.

- 1) Before making any mains connections to the inlet control group, flush the mains pipework out to ensure all debris has been removed so as not to damage the strainer within the combination valve.
- 2) Make final mains connection on combination valve and check all connections and joints. Ensure they have been tightened and secured correctly.

- 3) Before turning on the mains supply to the water heater a hot water tap should be opened, preferably on the same floor or the floor below where the water heater is located.
- 4) Check the pre-charge in the expansion vessel and ensure it is at least 3 bar. Note actual pressure on label on expansion vessel.
- 5) Turn on the supply to the water heater and fill until water runs from the open hot water tap. Continue to flush the system until all debris has been removed.
- 6) Close the hot water tap.
- 7) Check all joints for leaks, even those not having been altered especially when replacing a vented water heater.
- 8) Open temperature and pressure relief valve to ensure proper discharge and check after closing that valve is not dripping.
- 9) Open expansion relief valve to ensure proper discharge and check after closing that valve is not dripping.
- 10) Check all shower outlets, toilet cisterns and other draw off points for leaks or dripping (especially when replacing a vented unit). Open all water outlets to purge air from pipework and ensure proper operation.
- 11) Instruct user in the operation of the unit and hand over this manual advising the owner of annual service requirements.
- 12) Complete the technical data label on the water heater with legible and permanent writing.

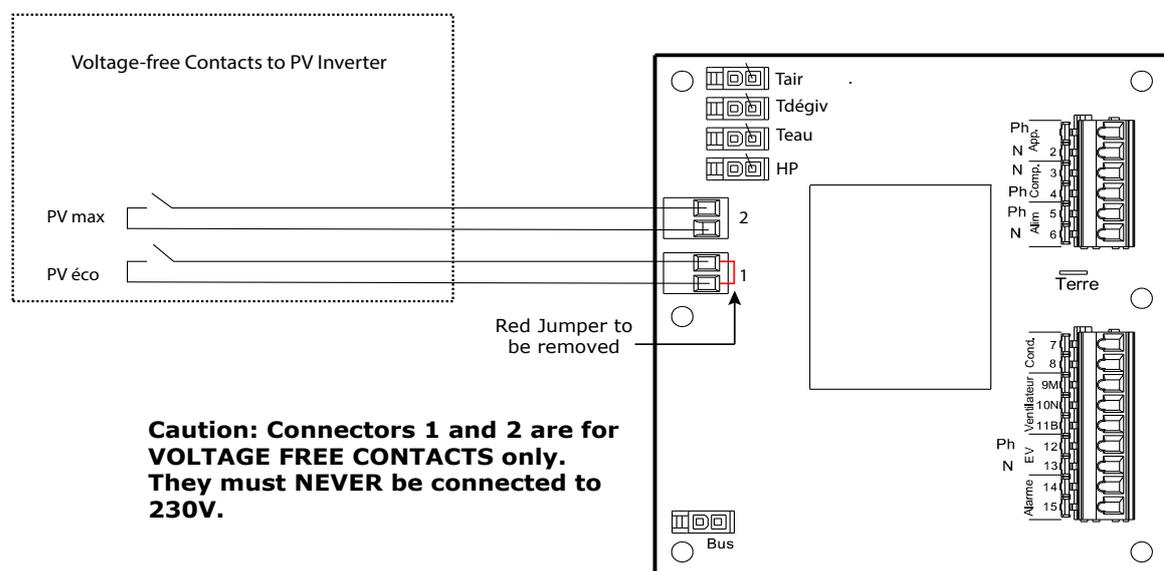


Figure 12: Diagram showing PV connections

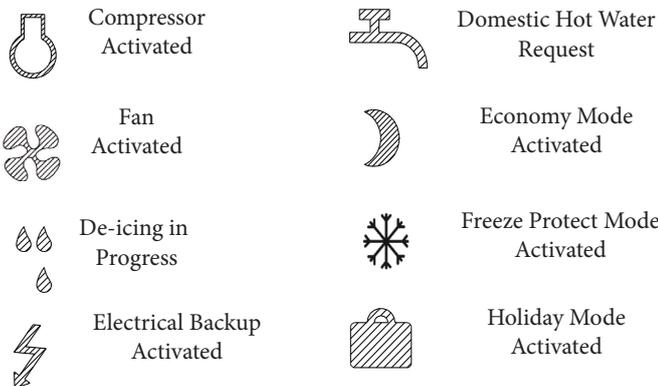
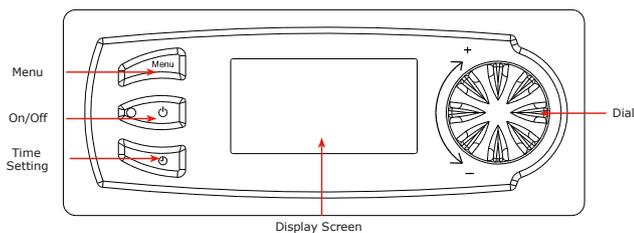
7.2 Using your Hot Water Heat Pump

The hot water heat pump mainly operates with the heat pump, as long as the air intake temperature remains in the authorised - 7°C to + 35°C range. Outside of this range, electrical backup ensures that the domestic hot water is heated.

The domestic hot water temperature provided by the heat pump is adjustable up to 60°C. In case of high domestic hot water consumption, the domestic hot water heater has a comfort function which increases the heating capacity when there is less than 1/3 of the tank's volume left at over 38°C (see Section 7.10.2.3). There is also a setting to activate electrical backup if the heating time is too long.

If more domestic hot water is required from time to time, the heat pump water heater has a "Boost" function (activated by the user) which ensures that the water heats to the desired temperature (for example : 50°C) quickly with the help of the heat pump and electrical backup. This function is deactivated as soon as the required temperature is reached. From time to time, check that there are no alerts (in case of an alert, please refer to Section 8.5).

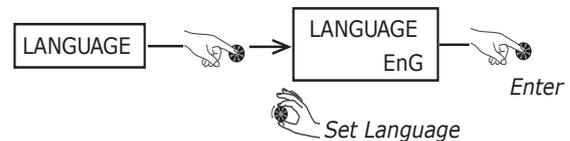
7.3 Control Box



7.4 Setting the Language

The language must be selected when the appliance is turned on for the first time. Turn the dial to the left, select 'English' and press the dial to confirm. The language menu can be accessed at any time.

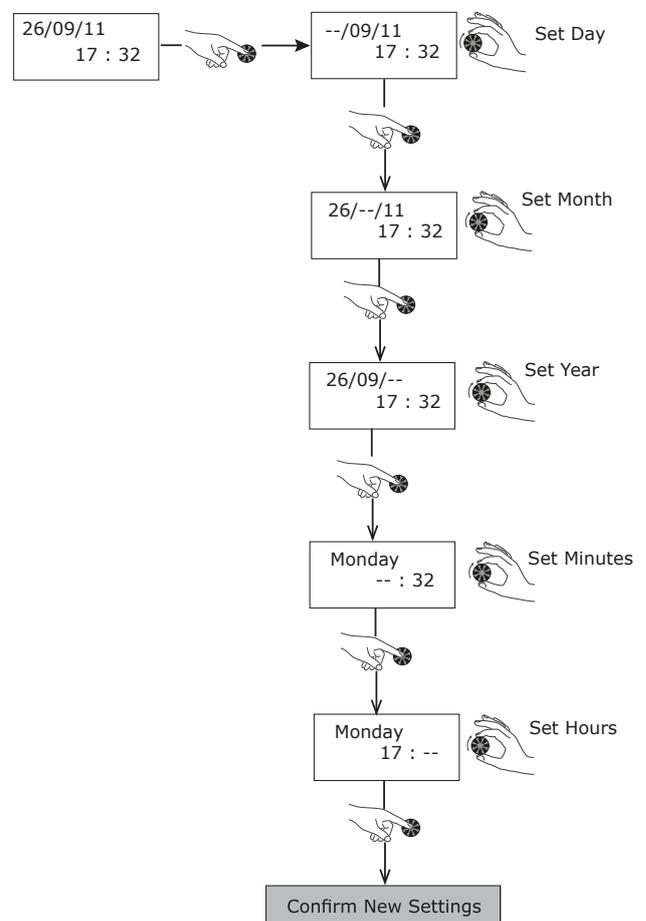
- Press 'Menu'.
- Turn the dial to scroll through the menu options:



- Press 'Menu' to return to the main screen.

7.5 Setting the Time

- Press 'Clock':

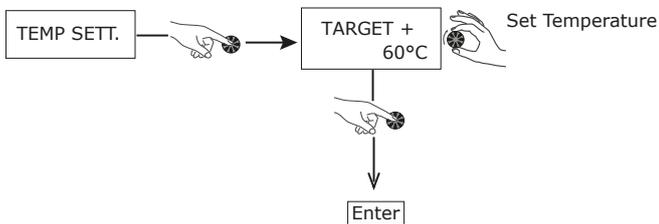


- See section 7.11 for instructions to gain access to installer menu

7.6 Setting the Water Temperature

The water temperature can be adjusted between 30°C and 65°C. The heat pump alone heats the water up until 60°C. Beyond this temperature, up to 65°C, the electrical backup immersion takes over.

- Press 'Menu'.
- Turn the dial to scroll through the menu options:

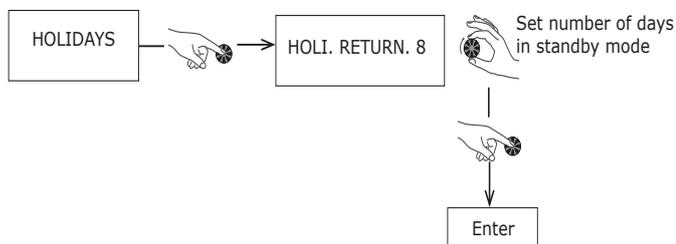


- Press 'Menu' to return to the main screen
- In order to get the best from your heat pump, we recommend that you do not leave the set water temperature too high unless necessary. The default temperature is set at 60°C.

7.7 Holiday Mode

'Holiday' mode puts the appliance on standby whilst the freeze protection mode remains active. This function can be programmed to run between 1 and 99 days and is effective as soon as the number of days has been confirmed.

- Press 'Menu'.
- Turn the dial to scroll through the menu options:



- Press 'Menu' to return to the main screen.

'HOLIDAY' mode switches off automatically at the same time when the number of days set has ended. Throughout the holiday period, the heat pump water heater shows 'Holi. Return.' on the display screen, as well as a countdown of the days.

-To cancel holiday mode select 0 days

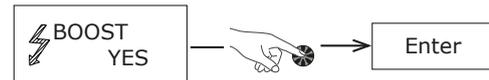
7.8 BOOST Function (for occasional use)

The 'BOOST' function temporarily uses both the immersion heater and the heat pump to increase the temperature during a heating cycle. The "electrical backup" symbol flashes while it is activated.



We recommend using the Boost function when first commissioning the cylinder, in order to get the cylinder up to temperature as quickly as possible.

- Press 'Menu'.
- Turn the dial to scroll through the menu options:



- Press 'Menu' to return to the main screen

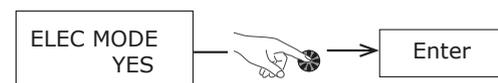
The 'BOOST' function is automatically deactivated as soon as the set temperature is reached (end of heating cycle).

- 'BOOST' can be cancelled by selecting 'no' in the menu

7.9 Electric Mode (to operate with electrical backup)

Electric mode uses only the immersion heater to heat the water in the heat pump water heater. It provides a back-up option if for any reason the heat pump is not running (ducting not yet connected, dusty renovation work being carried out near the appliance....). This can be turned off if preferred.

- Press 'Menu'.
- Turn the dial to scroll through the menu options:



- Press 'Menu' to return to the main screen.

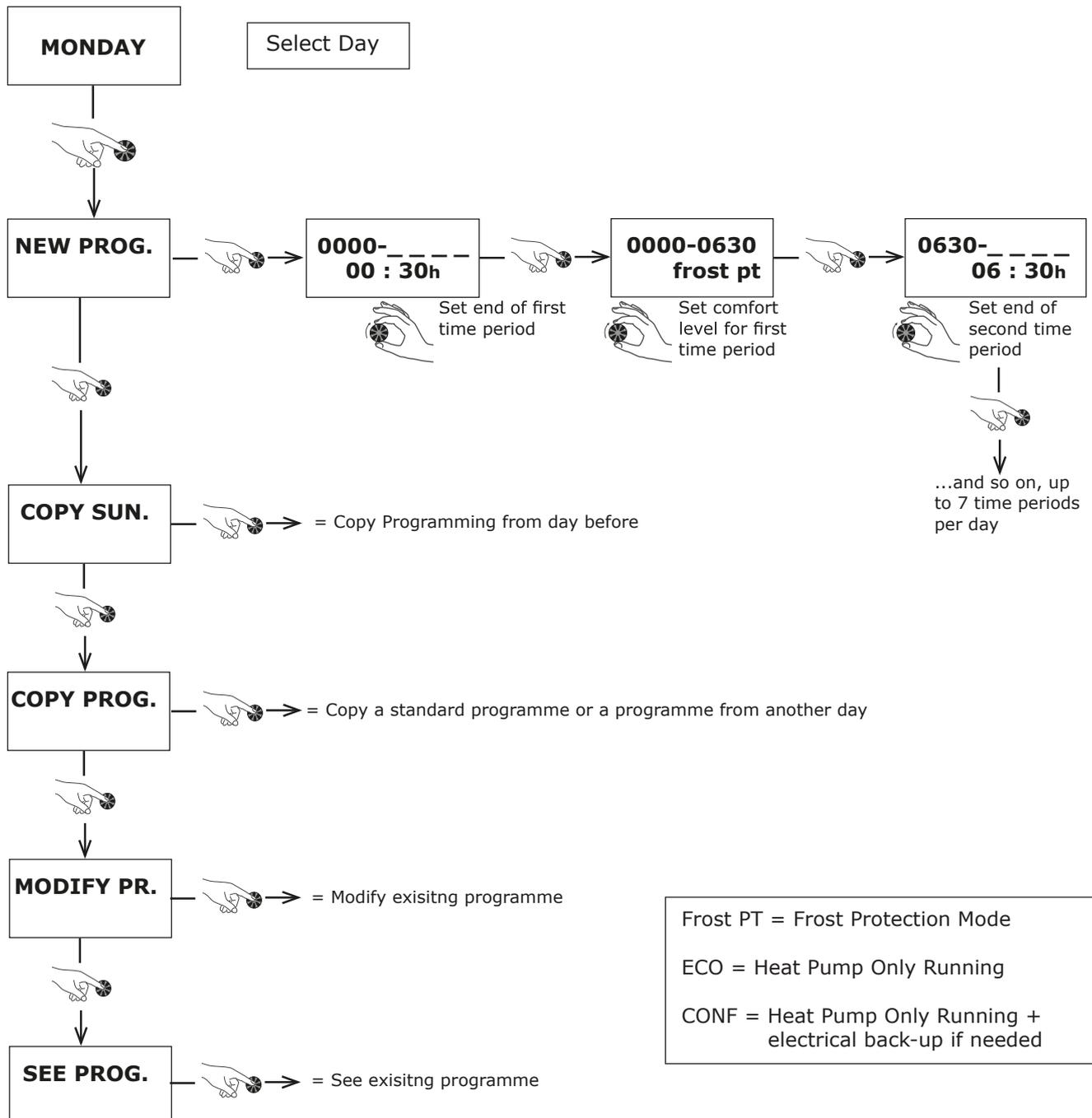
7.10 Programming

Programming enables you to define the periods of time the appliance runs in 'Economy', 'Comfort' or 'Off' mode (freeze protection mode). Electrical backup is not allowed while the appliance is in 'Economy' mode.

Please note setting the cylinder into Eco or Frost mode at the same time as the legionella hygiene cycle will block the cycle from running.

To access the program menu:

- Press the 'Clock'.
- Press down for 3 seconds until the screen display 'Settings'.



Heating time for the tank varies according to the outdoor temperature.

7.11 Installer Menu

It may be necessary to adjust certain settings to optimise the performance of the heat pump water heater, depending on how the appliance is installed.

Accessing the Installer Menu:

- Press 'Menu' and 'clock' simultaneously
- Turn the dial until the screen displays 'Inst. Menu'
- Press the 'Clock' and 'Menu' buttons simultaneously
- Keep both buttons pressed down until the screen goes blank



To adjust installation settings



To go back to default settings



To display temperatures of sensors and inlets default settings



To see the meters running, count start-ups etc.



To display locking settings



To display PV settings

7.11.1 PV Mode

| Setting | Description | Unit | Range | Factory setting |
|----------|---|------|-----------|-----------------|
| MODE PV | Photovoltaic mode activated | - | yes no | no |
| PRIORITY | Anti-legionellosis cycle time intervals | - | yes no | yes |

- PV mode must be activated in the controller to take account of connections as described in Section 6.9.1.2. If the PV mode regulator is connected to connectors 1 and 2 on the electronics board.
 - The electrical energy which is produced is stored in the form of hot water. The PV function can be set to two different levels of production.
 - PV ECO = the lower level of photovoltaic electricity production. The heat pump generates a higher water temperature. The hot water temperature must be somewhere in-between the ordinary hot water temperature and 60°C (factory setting: 60°C).
 - PV MAX = the higher level of photovoltaic electricity production. The heat pump and electrical back-up generate a higher water temperature. The hot water temperature must be somewhere in between the eco mode hot water temperature and 65°C (factory setting: 65°C).

- Turn the dial to set the mode:

MENU → INST. MENU → PV MODE

- Select 'Yes'.

- Press the dial to confirm.

- Press the 'Menu' key.

- Set the desired domestic hot water temperature.

- Turn the dial to select the primary function:

MENU → INST. MENU → PV MODE → PRIORITY

Yes: the signals from connectors 1 and 2 take precedence over eco, holiday and frost protection modes.

No: frost protection and eco modes take precedence over the signals from connectors 1 and 2.

N.B:

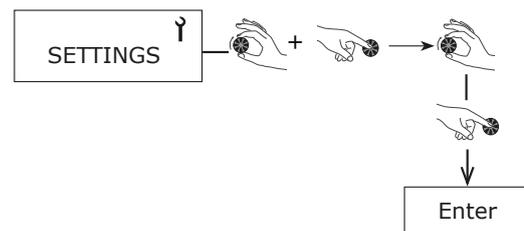
If **PV mode** is chosen as the primary function, the domestic hot water will also be heated during non-selected time periods, e.g. in **holiday mode** and outside of the programmed time slots.

If you only wish the domestic hot water to be heated during authorised time slots, adjust the setting to "No".

- Press the dial to confirm.

- The load shedding function will not be available.

7.11.2 Adjusting the Operating Settings

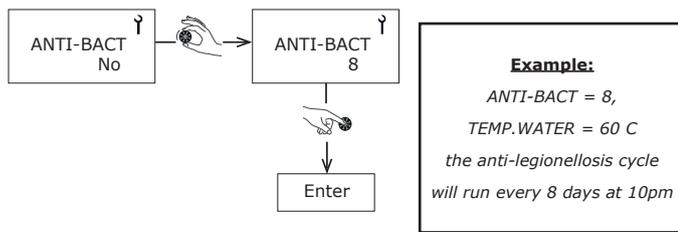


| Setting | Description | Unit | Options | Factory Setting |
|------------|---|-------|------------------|-----------------|
| ANTI-BACT. | Time interval for anti-legionella cycle | Days | No - 99 | No |
| FAN MODE | Ventilation mode | - | 1, 2 or 3 | 1 |
| T°C MINI | Min. temp. for electrical backup | - | No or 43°C | No |
| SHEDDING | Load shedding level | - | 0, 1 or 2 | 1 |
| MAX. TIME | Max. heating time | Hours | No, auto 1 to 24 | No |

Table 4: Settings

- Press 'Menu' twice to return to the main screen.

7.11.2.1 Anti-Bacteria (Anti-Bact)

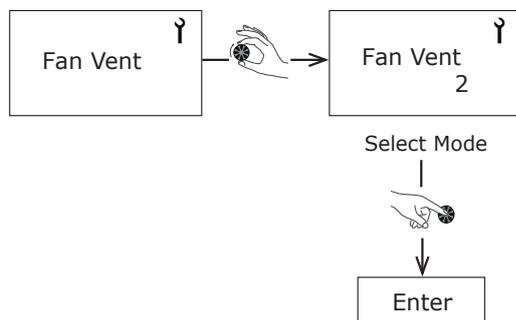


- Press 'Menu' twice to return to the main screen.

Factory Setting = No

- No legionella cycle except the return from vacation and during exit frost over 3 days.
- During the legionella cycle the water temperature is raised to 60°C by the heat pump.
- If the hot water is already set to 60°C (See Section 7.5) then legionella cycle will not run as temperature is already obtained.
- If a cycle is interrupted by loss of electrical power then the cycle will run at the next cycle period.
- The frequency of day can be adjusted according to number of days
- During the anti-legionellosis cycle the temperature is raised between 55°C and 70°C

7.11.2.2 Fan Mode



- Press 'Menu' twice to return to the main screen.

Factory Setting = 1

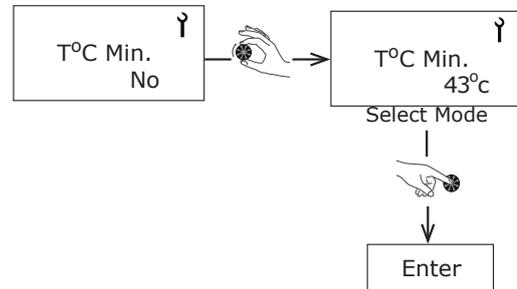
- Mode 1 = Standard mode, automatic ventilation.
- Mode 2 = Manual mode, forced ventilation.
- Mode 3* = Ventilation during the heating of the water and ventilation controlled by thermostat. Thermostat is connected to input of the electronic card in the heat pump water heater (see wiring diagram).

* Not typically used in the UK and in the case of activation of the PV mode, controlled ventilation (Mode 3) is not available.

* The electric back-up immersion heater will activate until the water temperature reaches 43°C. The heat pump will complete the remaining charge to set temperature.

7.11.2.3 Minimum Temperature

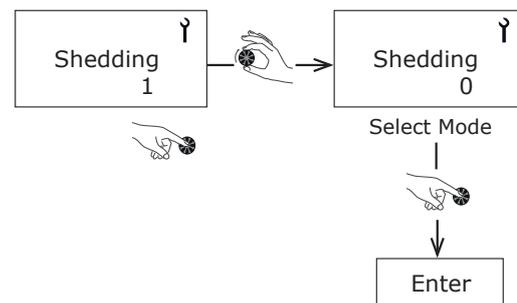
It is possible to allow the operation of the immersion heater along with the heat pump to prevent the water temperature falling below a minimum comfort temperature of 38°C. The immersion will then heat the water to 43°C, once this temperature has been reached the immersion will stop and the heat pump will finish the complete heating of the water heater.



- Press 'Menu' to return to the main screen.
- By default this is not active.
- In case of load shedding, the function <T⁰C Mini> is not active.

7.11.2.4 Shedding

You can select which items are restricted from running during load shedding (immersion heater or heat pump).



- Press 'Menu' to return to the main screen.

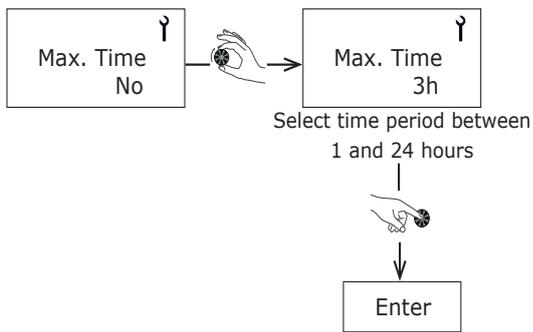
If the power contact is open:

- Mode 0 = Nothing is allowed to run.
- Mode 1 = Only the heat pump will operate.
- Mode 2 = Heat pump and boost are will operate (neutralising the peak hours).

If the PV function is activated then the load shedding from the voltage-free contact (Entrée 1/2) is not possible. In this case it is necessary to go through the programme scheduling (See Section 7.9).

7.11.2.5 Maximum Time

A period of time can be chosen where the electrical back-up will run at the same time as the heat pump to speed up the heating of the water in the tank. If you choose **Max. Time= AUTO**, the heating time is limited to 5 hours maximum.

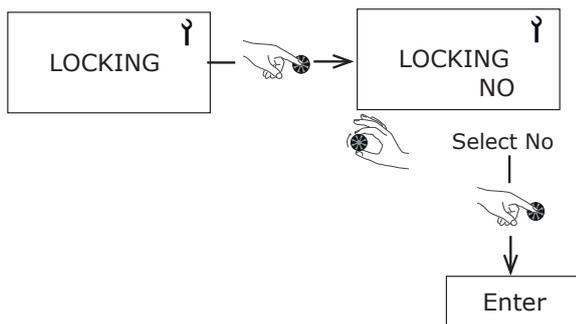


- This function is deactivated by default.
- Press 'Menu' to return to the main screen.

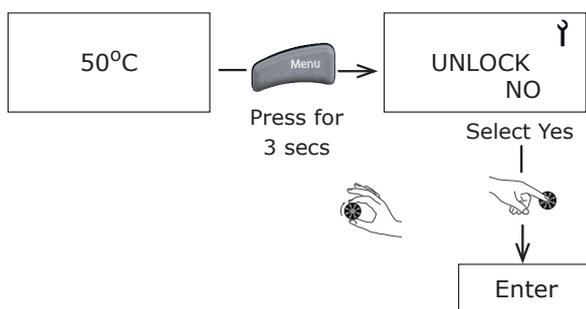
7.11.3 Locking the Keyboard

Permanent and automatic locking

The "Locking" option enables you to create three possible levels of locking for accessing the menus. In the "Installer" menu, turn the dial to "Locking".



NO = Locking is not activated but manual locking is possible by pressing 'Menu' for 3 seconds.

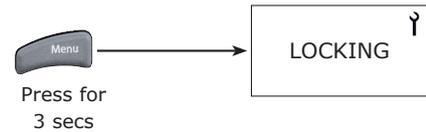


AUTO = To lock menu access with temporary unlocking (60) sec, press 'Menu' for 3 seconds.

PRO = To lock menu access with temporary unlocking (300) sec, press 'Menu' for 3 seconds and then the clock button and dial together for 3 seconds.

Manual Locking from the Main Screen

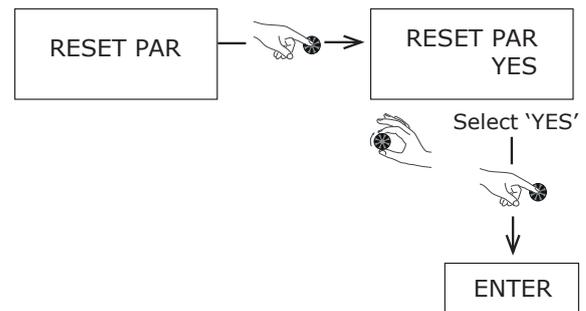
Without gaining access through the 'installer' menu and provided that locking settings are not already in place.



- Press 'Menu' to return to the main screen.

7.11.4 Resetting Parameters

Resetting the parameters enables you to go back to the default settings. Go to the 'Installer' Menu and turn the dial to 'Reset'.



7.11.5 Reading Display

The 'Read Data' menu shows you, in real time, the information given by sensors. To access hold the dial for 3 seconds until 'Display' menu shows, turn the dial to select the desired display.

| Display | Description | Reference on electronics board |
|--------------|--|--------------------------------|
| WATER | Domestic hot water temperature in lower part of tank | Teau |
| AIR | Temperature of heat pump air intake | Tair |
| EVAP. | Temperature of heat pump evaporator (expansion valve outlet) | Tdegiv. |
| CLOCK SWITCH | Off-peak hours switch (0 = on; 1 =off) | heures creuses |
| FAN CONTR. | Fan control switch (0 =on; 1 =off) | hygrostat |
| PV ECO | Contact input 1 0 = open 1 = closed | 1 |
| PV MAX | Contact input 2 0 = open 1 = closed | 2 |

The temperature which is permanently displayed on the screen is the set temperature and does not necessarily indicate the temperature of the water immediately available in the tank.

7.11.6 Counters (Meters)

The 'Counters' menu shows the number of start-ups from the heat pump and the electrical backup. In the 'Installer' menu, turn the dial to 'Counters'.

Counter No.1: Number of start-ups from the heat pump.

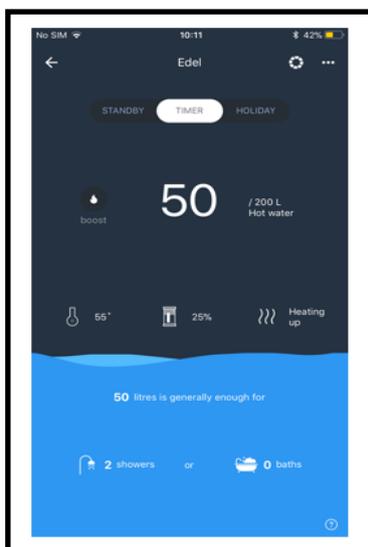
Counter No. 2: Number of start-ups from the electrical backup.

Counter No. 4: Accumulated heated pump running time.

7.12 Control App (Requires Dimplex Hub)

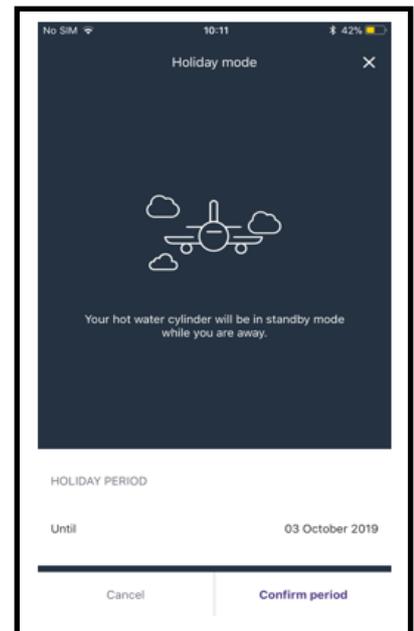
7.12.1 Home Screen

- Turn Edel into Timer mode regardless of schedule.
- Use boost function for immediate hot water.
- Overview of the cylinder charge and available hot water.



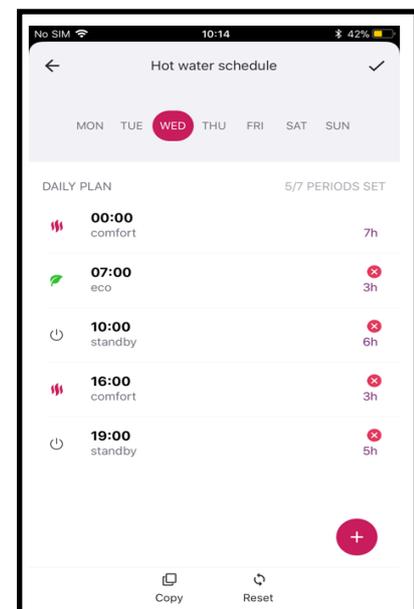
7.12.2 Holiday Mode

- Ensures the cylinder doesn't charge when away, and that there will be hot water upon your return.
- Define a number of days up to any date.
- Turn cylinder back into Timer mode at any point.



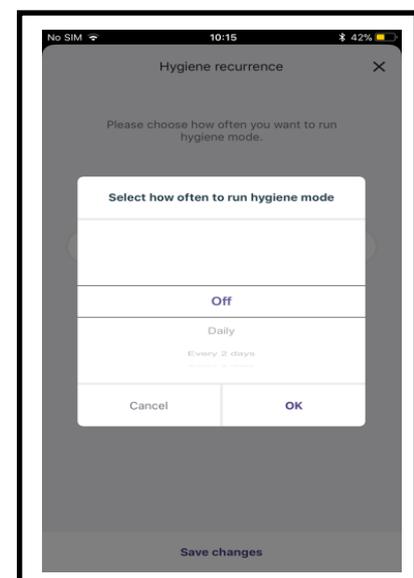
7.12.3 Schedule Control

- Create individual schedules for each day to suit the customer.
- Copy a schedule to any day of the week.
- Allows control over your appliance to ensure that you always have hot water and are not unnecessarily using energy.



7.12.4 Hygiene Mode

- Select to run hygiene mode on the app, and define the frequency of hygiene mode up to 99 days.



8 Maintenance

The maintenance of this appliance covers the critical areas of the Domestic Hot Water Cylinder, the Heat Pump Module, Air Connections and Electrical Connections.



All maintenance on this product must be undertaken by a suitably qualified and trained technician.

8.1 DHW Cylinder

After servicing, complete the relevant Service Record section of the checklist located on the inside back pages of this document. To meet with warranty requirements the cylinder must be serviced annually.



When draining the tank, ensure that there is a large enough air inlet at the top to avoid any depression in the tank; failure to do so will invalidate the warranty.

1. Draw some water from cold water tap and retain in container.
2. Isolate cold water mains supply from cylinder.
3. Briefly open temperature and pressure relief valve to assure safe discharge and check that valve is not dripping when closed.
4. Briefly open the expansion relief valve to assure safe discharge and check that valve is not dripping when closed. The expansion relief valve should be operated regularly to remove lime deposits and to verify that it is not blocked.
5. Open hot water tap and release remaining pressure from unit.
6. If the system is drained completely for an internal inspection, ensure the hot water tap remains open, connect a hose to the drain valve and ensure a safe discharge.
7. Note the set pressure of the pressure reducing valve. Remove cartridge and clean strainer in water provided in container. Re-assemble pressure reducing valve ensuring the correct pressure is set.
8. Periodically the immersion heater should be removed cleaned and the unit flushed out. If the system is drained for internal inspection Check the O-ring seal for damage and replace if necessary. A torque of 70 Nm is recommended when tightening up the immersion after it has been removed and refitted.
9. Check electrical wiring connections and the condition of the cable of the immersion heater and the thermostat.
10. The immersion heater boss can also be used for access to view the internal components of the cylinder.
11. Re-commission unit (see chapter 7.1).

8.2 Heat Pump



Any work on the refrigerant circuit must be carried out by a qualified professional with an F Gas Category 1 certificate of aptitude.



It is strictly prohibited to release refrigerant into the atmosphere. The refrigerant must be collected before any work is carried out on the circuit.

1. Remove insulation from ducting as well as the ducting itself and thus remove the hood from the unit to expose the compressor, heat exchanger etc.
2. Check the compressor for ice formation.
3. Check the circuit for leak-tightness by carrying out a test of the refrigeration components with an appropriate R290 sniffer.
4. Check whether the components of the refrigerant circuit show any signs of rust or traces of oil.
5. Check the unit's components for wear or defective items.
6. Inspect for build-up of debris in ducting and hood, remove if necessary.
7. The heat exchanger should be examined for dirt and dust and cleaned with warm water carefully to avoid damaging the fins. Make sure that the air can circulate between the fins and around the product.
8. Check that the cables are securely seated on the connection terminals.
9. Check that the fan runs freely.

8.3 Air intake & Exhaust

1. Both the exhaust and air intake vents must be inspected and cleared of any debris stuck in the vents.
2. Ensure the evaporator is checked at least once a year, more depending on the cleanliness of the air taken in.

8.4 Heat Pump Condensation

1. To check that condensation is draining correctly:
 - Remove upper cover (see Section 6.9.1).
 - Check for blockages in the drainage hole.
 - Clean the condensate recovery container, were deposits from air intake may have gathered.
 - Clean the flexible draining hose.
2. The pressure limiting device must be switched on regularly to eliminate limescale and check for blockages.
3. Check that all hydraulic connections on the heat pump water heater are watertight.
4. The condensate drain should be inspected to ensure the red plug has been removed and unrestricted draining of condensation is allowed.

8.5 Electrical Connections

Incorrectly made electrical connections can result in over-heating and hence a fire risk. When installing or servicing the product, please ensure the wiring is adequate to minimise risk of overheating. Please ensure you have:

1. Remove the dust from power supply connections.
2. Used the correct type and cross-sectional area cable to meet manufacturer and Wiring Regulation requirements.
3. When stripping the insulation from the individual conductors, taken care to not damage the strands of the conductor wire, which would reduce the cross-sectional area of the conductor.
4. Ensured the conductors are tightly and securely connected to the controls or immersion heater
5. Ensured the bared conductors are correctly inserted into the terminals, to avoid bearing on the insulation sleeving or only partially clamping the conductors.
6. Securely anchored the supply cable using the means provided to avoid exerting any external strain to the cable and hence to the terminals.
7. Checked to ensure the product is earthed correctly; the Live and Neutral connections are to the correct terminals, and the Residual Current Device (RCD) operates correctly.
8. Regularly checked the electrical connections as part of the maintenance schedule, to ensure the wires remain in good condition and terminations remain secure. Ensure any spare parts used during maintenance of the product are an authorised spare part and meet the manufacturers' requirements.



Waste electrical product should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

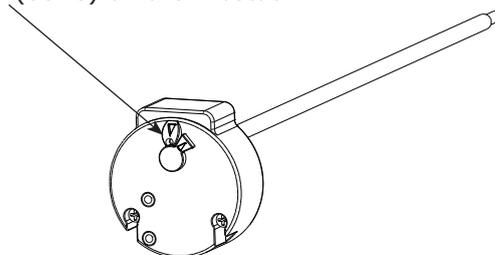
8.6 Troubleshooting

| Issue | Check |
|--|--|
| <u>The Heat Pump is not working</u> | <ul style="list-style-type: none"> - That the desired water temperature is higher than the temperature of the water in the tank. - There is power supply to the appliance. - The the green light is on. - That the appliance is not in holiday mode (see Section 7.6) - That the air intake or ambient temperature is under -7°C or over $+35^{\circ}\text{C}$. - That the timer has not been programmed to stop the appliance operating ('Economy' light will be on (see Section 7.2). - If an error message is displayed on the screen (see Section 8.5). |
| <u>No Hot Water</u> | <ul style="list-style-type: none"> - That the volume consumed is not higher than the volume in the tank. - The time period the appliance operates is not too short (12hrs minimum if connected to piping). - The water temperature is not set too low. |
| <u>Condensates are not draining</u> | <ul style="list-style-type: none"> - The draining system for dirt or blockages: Remove the cover (see Section 6.9.1) and check the opening. - That tubes do not have bends or "U" shapes that can collect water. - That the end of the tube is not blocked off and has access to open air. |
| <u>Electrical backup is not working</u> | <ul style="list-style-type: none"> - That your electricity provider or your timer is not preventing the appliance from functioning, 'Economy' symbol should be on (see Section 7.2). - A heat-limiting safety thermostat for electrical backup has not been activated after over-heating ($>85^{\circ}\text{C}$). If this is the case, reset it. - Before resetting, check: <ul style="list-style-type: none"> • that the heating element does not have limescale. • clean or replace if necessary. |

Table 5: Troubleshooting

Do not adjust the settings on the thermostat.

Reset button (85°C) on thermostat



8.7 Spare Parts

| Description | | Part No |
|-----------------------------------|---|------------|
| 22mm x 3bar Inlet control group |  | X-R00041-1 |
| Inlet control group PRV cartridge |  | X-R00009-1 |
| 18 litre expansion vessel |  | X-R00045-2 |
| Expansion vessel fixing kit |  | X-R00094-2 |
| DN16 3/4" BSP x 1000 flex pipe |  | X-R00095-1 |
| 1/2" BSP T&P valve |  | X-R00020-1 |
| 15 x 22 straight PE tundish |  | X-R00047-1 |
| Defrosting Sensor |  | X-B4993072 |
| E2-7 Air Probe Lg460mm |  | X-B1244576 |
| Edel NTC10 Temperature Probe |  | 500000570 |
| E7 Temp Sensor 10kOhm LG 1200mm |  | X-B1244575 |
| C3S PCB Controller |  | X-B1244096 |
| 70-85°C Thermostat |  | X-B4992886 |
| 1200W electric heating element |  | X-B1244562 |
| Electric heating seal |  | X-B1657452 |
| Display PCB & Cable |  | X-B4992570 |
| Display Screen Dial |  | X-B1758866 |
| Thread sealant |  | 500003214 |
| E2-7 Instruc EDL200-270-630-RF N |  | 300004527 |
| Edel 200 RF Module |  | 500002231 |
| Edel 270 RF Module |  | 500002305 |

Table 6: Edel Air Source Water Heater Spare Part List

8.8 Error Message Codes: Errors, Solutions and Operating in case of Error

N.B Errors can be dismissed by briefly pressing the dial (manual reset).

| Display | Error | Probable causes | Solutions | Temporary operation measures while waiting for problem to be solved |
|--------------|--|--|--|---|
| MEMO/ BUS | <ul style="list-style-type: none"> Electronic board defect. Bus wire defect. Display screen defect. | <ul style="list-style-type: none"> Voltage too high on electrical network. Cabling error during electrical connection (connection to electricity provider or moisture sensor...). Damage during transportation. | <ul style="list-style-type: none"> Replace main electronics board or; Replace display screen board. | <ul style="list-style-type: none"> Appliance non-functional. |
| T_AIR | <ul style="list-style-type: none"> Air temperature sensor defect (Temperature of air taken in). | <ul style="list-style-type: none"> Sensor not functioning. Sensor unplugged from board. Sensor cable damaged. | <ul style="list-style-type: none"> Replace sensor. | <ul style="list-style-type: none"> Heat pump non-functional. Electrical backup heats water to 43°C (min 38°C). |
| T_DE-FROST | <ul style="list-style-type: none"> Evaporator sensor defect (de-icing temperature). | <ul style="list-style-type: none"> Sensor not functioning. Sensor unplugged from board. Sensor cable damaged. | <ul style="list-style-type: none"> Replace sensor. | <ul style="list-style-type: none"> Heat pump non-functional. Electrical backup heats water to 43°C (min 38°C). |
| T_water | <ul style="list-style-type: none"> Tank water sensor defect. | <ul style="list-style-type: none"> Sensor not functioning. Sensor unplugged from board. Sensor cable damaged. | <ul style="list-style-type: none"> Replace sensor. | <ul style="list-style-type: none"> Heat pump non-functional. |
| Clock | <ul style="list-style-type: none"> Clock/timer defect. | <ul style="list-style-type: none"> Voltage too high on electrical network. Damage during transportation. | <ul style="list-style-type: none"> 1-Press «clock settings» and set date and time. 2-If the error message still does not disappear, replace the electronics board. | <ul style="list-style-type: none"> Programmed heating periods are no longer valid: the water is maintained continuously at the standard set temperature (if no signal or control is connected to the «external control» switch). |
| OVER PRESS. | <ul style="list-style-type: none"> Heat pump pressure too high. | <ul style="list-style-type: none"> No water in tank. Water is too hot (>75°C) Water sensor removed from tank. Defective water sensor. | <ul style="list-style-type: none"> Check that the tank has been properly filled with water and purged of air. Change the water sensor Check that the water sensor is in the right position in the tank. | <ul style="list-style-type: none"> Heat pump is non-functional. Resets automatically. Authorised to run on backup. |
| FREQ. DEFRO | <ul style="list-style-type: none"> De-icing too often. | <ul style="list-style-type: none"> Insufficient airflow. Air inlet / outlet blocked. Ventilation duct blocked. Air duct is too long or has too many elbows. Evaporator clogged. | <ul style="list-style-type: none"> Check that air is circulating properly throughout the piping circuit. Check pipe lengths: <ul style="list-style-type: none"> -10m total of flexible hose. -20m total of rigid piping. Check any filters on air ducts. Check evaporator is clean. | <ul style="list-style-type: none"> Heat pump non-functional. Electrical backup heats water to 43°C (min 38°C). |
| LOW PRES | <ul style="list-style-type: none"> Heat pump pressure too low. | <ul style="list-style-type: none"> Insufficient airflow. Air inlet / outlet blocked. Ventilation duct blocked. Fan blocked or out of order. Evaporator clogged. Ice on evaporator. | <ul style="list-style-type: none"> Check the fan is working. Check that air is circulating properly throughout the piping circuit. Check pipe lengths: <ul style="list-style-type: none"> -20m total of rigid piping. Check any filters on air ducts. Check evaporator is clean. | <ul style="list-style-type: none"> Heat pump non-functional. Electrical backup heats water to 43°C (min 38°C). |

| Display | Error | Probable causes | Solutions | Temporary operation measures while waiting for problem to be solved |
|------------|--|--|---|---|
| OVER-HEAT | <ul style="list-style-type: none"> Domestic hot water overheat (water temperature >85°C) | <ul style="list-style-type: none"> Defective water sensor Water sensor removed from tank | <ul style="list-style-type: none"> Check that sensor is in the right position in the tank | <ul style="list-style-type: none"> Heat pump is non-functional Resets automatically |
| ERR 01 | <ul style="list-style-type: none"> Incorrect temperature sensor reading. | <ul style="list-style-type: none"> The air and de-icing sensors are the wrong way round on the electronics board. The de-icing sensor and water sensors are the wrong way round on the electronics board. The de-icing sensor is connected to the air input, the air sensor is connected to the water input, the water sensor is connected to the de-icing input. | <ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main electronics board. | <ul style="list-style-type: none"> Heat pump non-functional. |
| | <ul style="list-style-type: none"> Incorrect reading from the de-icing sensor. | <ul style="list-style-type: none"> The de-icing sensor is not properly connected to the tube and is measuring air. | <ul style="list-style-type: none"> Reposition the de-icing sensor properly in the tube. | |
| | <ul style="list-style-type: none"> The heat pump has run out of gas. | <ul style="list-style-type: none"> There is a leak on the refrigerant circuit. | <ul style="list-style-type: none"> Find and repair the leak before filling the refrigerant circuit. | |
| | <ul style="list-style-type: none"> The expansion valve is not working. | <ul style="list-style-type: none"> The expansion valve is damaged or broken due to work being carried out on the appliance or it being in contact with a part which vibrates. | <ul style="list-style-type: none"> Replace expansion valve. | |
| ERR 01 | <ul style="list-style-type: none"> The compressor is not working and safety temperature is activated. | <ul style="list-style-type: none"> Weakness in compressor. | <ul style="list-style-type: none"> Replace compressor. | |
| | <ul style="list-style-type: none"> Incorrect temperature sensor readings. | <ul style="list-style-type: none"> The air and water sensors are the wrong way round on the electronics board. The de-icing sensor is connected to the air input, the air sensor is connected to the water input, the water sensor is connected to the de-icing input. | <ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main electronics board. | <ul style="list-style-type: none"> Appliance non-functional. |
| ERR 02 | <ul style="list-style-type: none"> Incorrect temperature sensor readings. | <ul style="list-style-type: none"> The de-icing sensor is connected to the air input, the air sensor is connected to the water input, the water sensor is connected to the de-icing input. | <ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main electronics board. | <ul style="list-style-type: none"> Appliance non-functional. |
| ERR 03 | <ul style="list-style-type: none"> Incorrect temperature sensor readings. | <ul style="list-style-type: none"> The de-icing sensor is connected to the air input, the air sensor is connected to the water input, the water sensor is connected to the de-icing input. | <ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main electronics board. | <ul style="list-style-type: none"> Appliance non-functional. |
| ERR 04 | <ul style="list-style-type: none"> Incorrect de-icing and water sensor readings. | <ul style="list-style-type: none"> The de-icing sensor and the water sensor are the wrong way round on the electronics board. | <ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main electronics board. | <ul style="list-style-type: none"> Heat pump non-functional. |
| ERR 08 | <ul style="list-style-type: none"> Wrong measure on de-icing sensor. | <ul style="list-style-type: none"> De-icing sensor is defective. | <ul style="list-style-type: none"> Replace de-icing sensor. | <ul style="list-style-type: none"> Product runs in alternative mode with heat pump. |
| ALARM EPRO | <ul style="list-style-type: none"> The display screen electronics board has a memory problem. | <ul style="list-style-type: none"> The display screen electronics board is damaged. | <ul style="list-style-type: none"> Replace display screen electronics board. | <ul style="list-style-type: none"> Appliance non-functional. |

*DHW = Domestic Hot Water

Table 7: Errors

9 Warranty

The tank is guaranteed against breakage for a period of five years, starting from the date the appliance was activated, if the warranty voucher was sent back to the manufacturer. In the absence of this document, the date of manufacture will be used to determine the start date. If the tank is broken, the whole appliance will be replaced.

The other parts are guaranteed for a five year period starting from the date the appliance was activated, if the warranty voucher was sent back to the manufacturer. In the absence of this document, the date of manufacture will be used to determine the start date.

The appliance is guaranteed against all manufacturing defects, provided that it was installed by a qualified professional using our instruction manuals, the C15-100 standard for electrical connections and the plumbing DTU 60-1 additional clause 4 for domestic water. A defective part does not warrant the whole appliance being replaced.

The warranty only extends to parts which we identify as having been defective at manufacture. If necessary, the part or product should be returned to the manufacturer but only with prior agreement from our technical department. Labour, transport and packaging costs are the responsibility of the user. Repairs on a device will not result in compensation. The parts warranty ends at the same time as the appliance warranty.

The warranty only applies to the appliance and its components and excludes any part or installation external to the appliance. Regular maintenance of the appliance by a trained professional is essential for ensuring sustained use and durability. In the absence of regular maintenance, the warranty will not apply. If an appliance is presumed to have been the cause of any damage, the appliance and the damage must be left as they are and not tampered with.

9.1 Warranty Limits

9.1.1 General Information

Please read the following statements carefully as it affects your warranty.

Please ensure that the installer has fully completed the checklist on the inside back pages of this document and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations Part G3 (England and Wales), Part P of Northern Ireland and Section 6 of Scotland.

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the checklist. This product should be serviced annually to

optimise its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the checklist after each service.

The checklist will be required in the event of any warranty work.

The warranty does not apply to defects or damage caused by situations or events such as:

- Misuse, abuse, negligence, improper transport or handling.
- Incorrect installation, or installation which has been carried out without following the instructions in the manual and user guide.
- Insufficient maintenance.
- Modifications or changes carried out on the appliance.
- Impacts from foreign objects, fire, earthquakes, floods, lightning, ice, hailstones, hurricanes or any other natural catastrophe.
- Movement, imbalance, collapse or settling of the ground or the structure where the appliance is installed.
- Any other damage which is not due to defects in the product.

The heat pump water heater is not guaranteed against:

- Variations in colour of the appliance or damage caused by air pollution, exposure to chemical elements or changes brought about by bad weather conditions.
- Dirt, rust, grease or stains which occur on the surface of the appliance.

9.1.2 Exclusion from Warranty

9.1.2.1 Use

Cases where warranty (unlimited) is void :

- Water supply being other than cold domestic water, (such as rainwater or water from a well), or which has particularly hostile or abnormal properties which do not comply with the national rules and current standards (DTU 60 - 1 additional clause 4, hot water).
- The appliance being switched on before it is filled.

9.1.2.2 Handling

Cases (unlimited) where warranty is void:

- Any damage sustained by impacts or falls during handling after delivery from the factory.
- Deterioration in the condition of the appliance after handling where the instructions in the manual have not been followed.
- Damage occurring in the appliance when it has been switched on less than an hour after it has been leaning to the side or laid flat.

9.1.2.3 Installation Site

Cases (unlimited) where the warranty is void:

- Placing the appliance where it can be subject to ice or other bad weather conditions.
- Non-compliance with the instructions in the manual when installing the appliance.
- Installing the appliance on a surface which cannot bear its weight when it contains water.
- Installing the appliance in a room with surface area of less than 20m² where there is no piping for air intake and rejection.
- Installing the appliance at a tilted angle which does not allow condensates to flow out correctly.
- Where servicing or replacement of the product is rendered impossible due to the cupboard space being too restrictive.

Costs incurred by access difficulties are not the manufacturer's responsibility.

9.1.2.4 Electrical Connections

Cases (unlimited) where the warranty is void:

- Faulty electrical connection which does not comply with the current national installation standards.
- Not following the connection diagrams in the instruction manual.
- Power supply being significantly under or over the required voltage.
- Failure to comply with supply cable sections.
- Absence of, or insufficient, electrical protection throughout the appliance (fuse / circuit-breaker, grounding etc).
- Damage which results from deactivating the electrical backup thermostat and / or the heat pump.

9.1.2.5 Hydraulic Connections

Cases (unlimited) where warranty is void:

- Inverting the hot/cold water connections.
- Water pressure being higher than 6 bars.
- Absence of, incorrect fitting of, or obstruction of pressure relief valve.
- Not fitting the pressure relief valve directly onto the cold water inlet on the appliance.
- Fitting a pressure relief valve which does not comply with the current national standards.
- Installing a previously-used pressure-relief valve.
- Tampering with the pressure-relief valve.
- Abnormal levels of corrosion caused by an incorrect hydraulic connection (direct contact between iron and copper) without a sleeve (cast iron, steel or insulator).
- External corrosion caused by the piping not being correctly sealed or condensates not draining off properly.
- Improper connection of the condensates recovery system.

No claim for compensation may be made for damage which has occurred as a result of not fitting thermostatic mixing valves.

9.1.2.6 Accessories

The warranty does not cover defects resulting from:

- fitting accessories which do not comply with our recommendations,
- using accessories which were not provided by us.

9.1.2.7 Maintenance

Cases (unlimited) where the warranty is void:

- Non-maintenance of the evaporator or the condensates draining system.
- Abnormal levels of limescale on heating elements or safety devices.
- Not using parts supplied by the manufacturer.
- Protective outer casing being subjected to any external damage.

10 Technical Data and Product Fiche

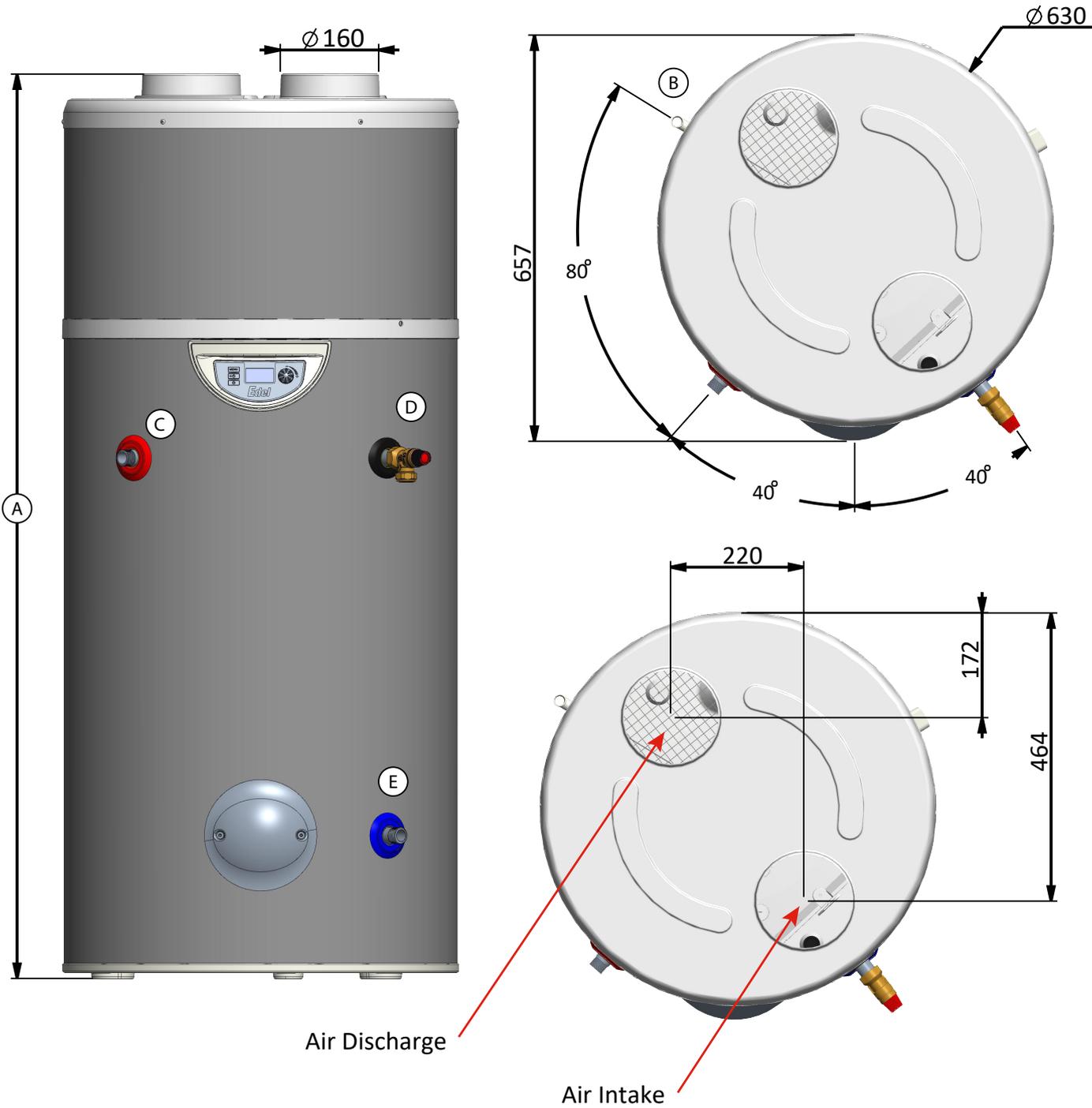


Figure 13: Edel Air Source Water Heater Dimensions (for reference only)

| Edel Air Source Water Heater - Dimensions | | | |
|---|---|-------------------|-------------------|
| Reference | | EDL200UK-630-RF N | EDL270UK-630-RF N |
| Capacity [l] | | 200 | 270 |
| Hot Water Capacity [l]* | | 164.12 | 228.65 |
| Weight - Empty [kg] | | 56.5 | 63 |
| Weight - Full [kg] | | 254 | 332 |
| Heat Up Time [hh:mm]* | | 07:15 | 09:48 |
| Heat Loss [kWh/24h] | | 1.61 | 1.77 |
| Height [mm] | A | 1460 | 1780 |
| Outer Diameter [mm] | | 630 | 630 |
| Condensates Pipe [mm] | B | 1025 | 1310 |
| Hot Water Outlet [mm] | C | 831.4 | 1153 |
| T&P Valve [mm] | D | 831.4 | 1153 |
| Cold Water Inlet [mm] | E | 221.5 | 221.5 |

Table 8: Edel Air Source Water Heater Product Dimensions

| GDC Group Ltd | | Edel Air Source Water Heater - Product Fiche | |
|-------------------------------------|--|--|-------------------|
| Reference | | EDL200UK-630-RF N | EDL270UK-630-RF N |
| Load Profile - Primary | | M | L |
| Energy Rating | | A+ | A+ |
| COP | | 3.36 | 3.30 |
| Thermostat Setting | | 55°C | 55°C |
| Sound Pressure level at 2m [dB(A)] | | 37(Speed 1)/40(Speed 2) | |
| Average Climatic Conditions | | | |
| Average Energy Consumption [kWh] | | 377 | 746 |
| Water Heating Efficiency [%] | | 136 | 138 |
| Daily Electricity Consumption [kWh] | | 1.84 | 3.53 |
| Warmer Climatic Conditions | | | |
| Annual Energy Consumption [kWh] | | 351 | 617 |
| Water Heating Efficiency [%] | | 136 | 166 |
| Daily Electricity Consumption [kWh] | | 1.84 | 2.93 |
| Cooler Climatic Conditions | | | |
| Annual Energy Consumption [kWh] | | 351 | 805 |
| Water Heating Efficiency [%] | | 113 | 113 |
| Daily Electricity Consumption [kWh] | | 2.21 | 3.8 |

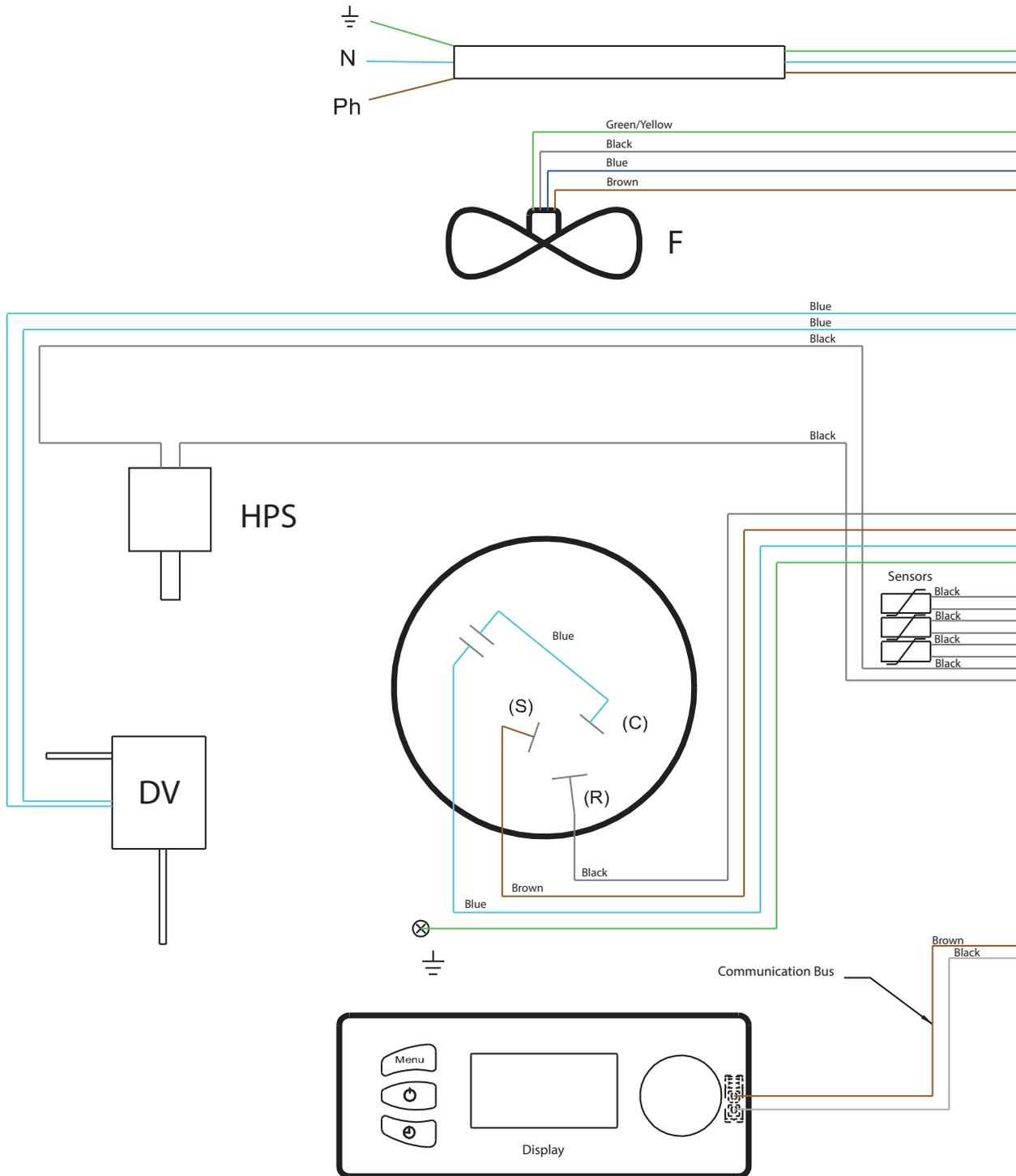
Table 9: Edel Air Source Water Heater Product Fiche

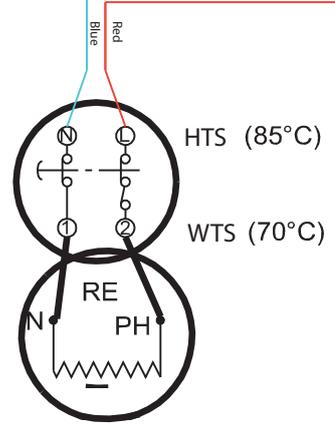
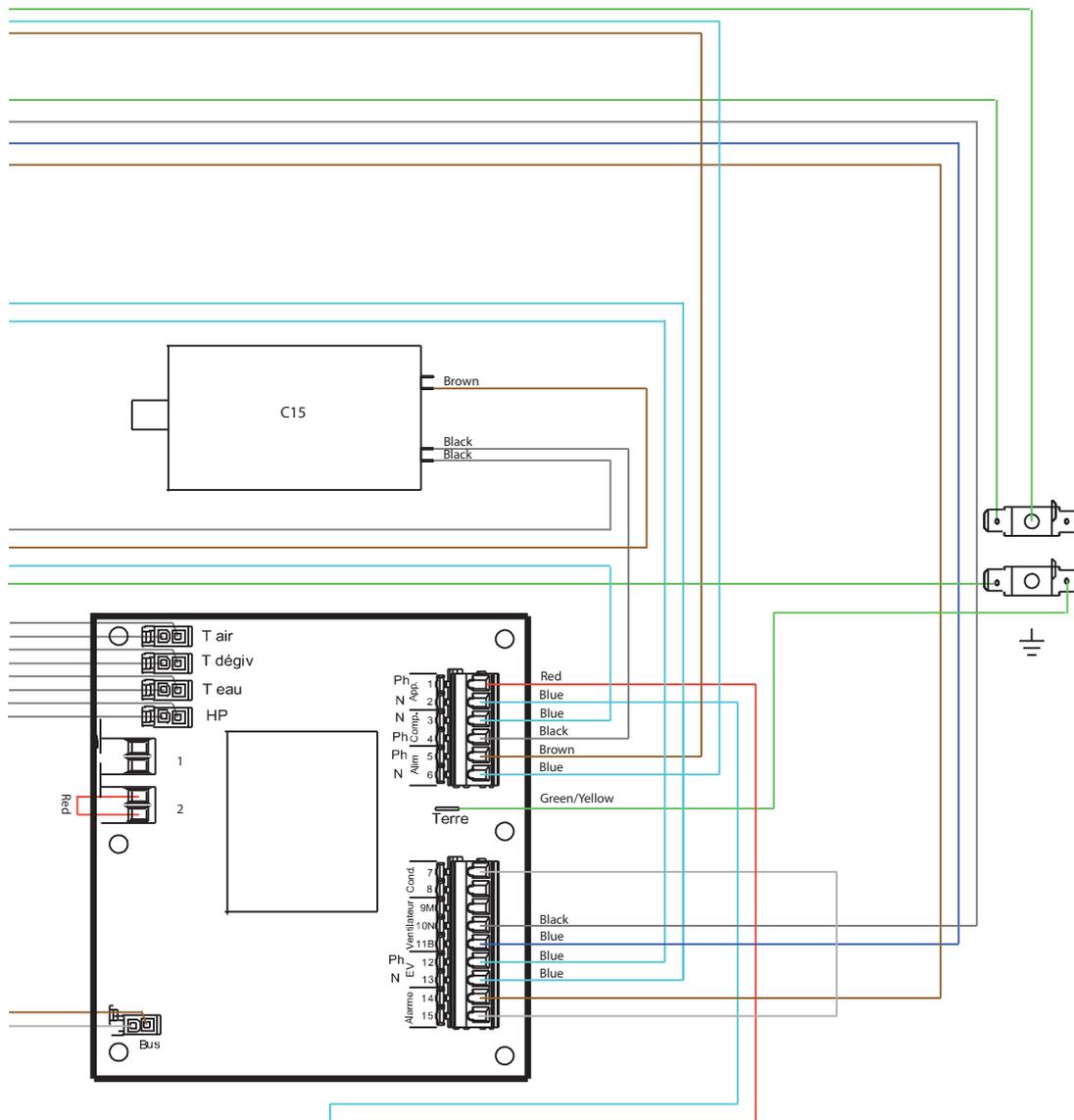
*Cylinder is tested in accordance with EN12897:2006

| Edel Air Source Water Heater - Product Features | |
|--|---|
| Materials | |
| Inner cylinder | Stainless steel |
| Outer cylinder | Plastic |
| Inlet/outlet | Stainless steel |
| Insulation | 50mm PU foam (GWP=1, ODP=0) |
| Maximum Operating Conditions | |
| Potable water temperature | 65°C |
| Operating pressure | 3 bar |
| Maximum design pressure | 6 bar |
| Heat Pump max. pressure | 25 bar |
| Cold Water Supply | |
| Minimum dynamic pressure | 1.5 bar |
| Maximum pressure | 12 bar |
| Minimum flow rate | 15 l/min |
| Connections | |
| Cold water inlet | M 3/4" stainless steel |
| Hot water outlet | M 3/4" stainless steel |
| Air pipe diameter (inlet and outlet) | 160 mm |
| Immersion Heater | |
| 1 ¼ M BSP 1.2 kW@240V | |
| Ventilation | |
| Air flow rate | 320 to 400 m ³ /h |
| Air temperature | -7°C to 35°C |
| Max. air pipe length | rigid piping: 20m in total (intake and rejection) |
| Condensates flow rate | 0.3 L/h |
| Condensates drainage pipe | 18/24 mm |
| Safety Components | |
| Pressure reducing valve and strainer | 3 bar |
| Expansion relief valve | 6 bar |
| Temperature and pressure relief valve | 7 bar/90°C 1/2" BSP |
| Factory pressure test | 12 bar |
| Integrated electrical back-up power | 1200W (safety setting = 85°C) |
| Approvals | |
| KIWA approval number - 1701712 | |
| Guarantee | |
| Inner cylinder | 5 years |
| Immersion heaters | 5 years - excluding the effects of lime scale or other water borne contaminants |
| Other components | 5 years - excluding expansion vessel membrane pressure |

Table 10: Edel Air Source Water Heater Product Features

Air Intake





- | | |
|-----|-------------------------------------|
| HPS | - High Pressure Switch |
| C15 | - Compressor Start Capacitor |
| F | - Fan |
| DV | - Defrost Valve |
| RE | - Immersion Heater |
| LTS | - Immersion Heater Safety Cut-out |
| WTS | - Immersion Heater Water Temp. Stat |



To view the full guarantee terms and conditions scan this QR code using your smartphone or go to <https://www.gdhv.co.uk/guarantee-terms-and-conditions>.

Your Product is manufactured by Glen Dimplex UK operating as Glen Dimplex Heating & Ventilation. GDHV designs and manufactures products to ensure they deliver reliable service for normal use in domestic dwellings and, where specified by us, in light commercial premises.

GDHV products are individually tested before leaving the factory, Your product comes with a 5 year parts and labour guarantee for repair or replacement of faulty goods and/or partial refund in the event that a repair or replacement is not available.

Your guarantee is provided by Glen Dimplex UK Ltd operating as Glen Dimplex Heating & Ventilation Ltd, Millbrook House, Grange Drive, Southampton SO30 2DF. Terms and conditions apply.

The GDHV guarantee does not in any way diminish or affect your statutory consumer rights in connection with your product.



If you experience a problem with your product during or after the guarantee period, visit our online help centre:

support.dimplex.co.uk

Please note for support you will need the model and serial number of your product and a description of the fault which has occurred.

Disregarding the instructions given in this manual in its entirety and any relevant regulations, standards and codes of practice will void the guarantee of this product. Glen Dimplex reserve the right to revise products, literature and guarantee terms without prior notice due to a policy of continuous improvement.



Important: For electrical products sold within the European Community. At the end of the electrical products useful life it should not be disposed of with household waste. Please recycle where facilities exist. Check with a Local Authority or retailer for recycling advice in your country. Batteries should be disposed of or recycled in accordance with WEEE Directive 2012/19/EU. Packaging should be recycled where possible.

www.dimplex.co.uk



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