



USER GUIDE

HP290 MONOBLOC HEAT PUMP SYSTEM

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website [idealheating.com](https://www.idealheating.com) where you can download the relevant information in PDF format.




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WEEE DIRECTIVE 2012/19/EU
Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in a corresponding recycle centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.



Ideal Heating is a member of the Benchmark scheme and fully supports the aims of the programme. Benchmark has been introduced to improve the standards of installation and commissioning of central heating systems in the UK and to encourage the regular servicing of all central heating systems to ensure safety and efficiency.



THE BENCHMARK SERVICE INTERVAL RECORD MUST BE COMPLETED AFTER EACH SERVICE

1. INTRODUCTION

The HP290 Heat Pump System. This document applies to the installation and maintenance of the following individual and combined products when installed in the United Kingdom and Republic of Ireland.

- HP290 Heat Pump
- DHW Cylinder
- HP290 controls:
 - HP290 Control Box (included on HP290 preplumbed cylinders)
 - HP290 Controller

The HP290 Monobloc Heat Pump is an Air to Water type system and suitable to be installed in a domestic household within a sealed heating system. The Monobloc heat pump does not provide a cooling function. The appliance will produce condensate water. Thus, the necessary disposal system and drainage points must be installed

The heat pump takes heat from the ambient outdoor air for transfer into domestic hot water or space heating system. This air is not to be ducted or re utilised and must be allowed to flow freely back into the natural environment.

The HP290 Domestic Hot Water cylinder is to be used to store heat from the heat pump. The DHW cylinder is to be installed within a domestic household.

Overall control of the heating system is provided by the HP290 Control Box or the HP290 Controller. Day-to-day control will be provided by the HP290 Controller or a programmable room thermostat.

2. SAFETY

Flammable Refrigerant:

The Heat Pump is charged with R290 which is a flammable, odourless, and colourless refrigerant. In the event of a leak from the refrigerant circuit this can create a hazardous environment. To reduce the risk of a hazardous event, the installation instructions should be followed, and the installation area should be kept clear of ignition sources, including but not limited to; electrical switches, electrical plug sockets, and lamps.

Modification of the Products and Installation Environment:

The product is not to be modified or tampered with in any way that is not defined and approved by this document. Make sure that the requirements for both the products and installation environments are always followed. The end user should be properly informed of the installation area and product requirements during the handover process.

Improper Maintenance:

The product is to be regularly maintained and serviced by an appropriately qualified service engineer. The end user should be properly informed of maintenance and care requirements during the handover process.

Inappropriate Operation:

The product is to be operated as outlined in both this document and the user manuals. The end user must be properly informed of intended and acceptable operation methods during the handover process.

Electrical Risk:

Work on electrical components must only be done by a competent electrician. Electrical supplies must be locked in the off position

when any work is done near electrical components. Failure to comply with this requirement can result in severe injury or death. If any of the supply cables are damaged, they must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Correct Disposal of Waste:

Waste from the products, such as cardboard, plastics, and refrigerant must be disposed of appropriately and recycled where applicable. Refrigerant must not be released into the atmosphere.

Presence of Frozen Condensate in Walkways:

There is condensate produced by the heat pump which can potentially build up around the heat pump and freeze if not properly disposed of. Appropriate disposal methods of the condensate should be implemented and maintained to prevent slipping hazard.

ⓘ IMPORTANT: This appliance must not be operated without all the covers and casing(s) correctly fitted.

If it is known or suspected that a fault exists on the system, then it MUST NOT BE USED until the fault has been investigated and corrected by a suitably trained and competent person.

Under NO circumstances should this appliance be used incorrectly or tampered with.

This appliance can be used by children 8 years and above. Also, persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, provided they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be made by children without supervision.

⚠ WARNING: The product contains the hydrocarbon refrigerant R290 which is very flammable. The refrigerant may mix with air to form a flammable atmosphere increasing the risk of fire and/or explosion. Work that requires the removal of the exterior casing of the Heat Pump must only be done by competent persons who are familiar with the risks of R290 refrigerant. Work on the refrigeration circuit must only be done by a Cat I or Cat II F-gas certified engineer with a City and Guilds 6187-21 certificate or equivalent. Work done on the heat pump should be done in accordance with industry standard safety procedures and practices for working with hydrocarbons.

3. PROTECTIVE SAFETY ZONE

⚠ WARNING: The product contains the hydrocarbon refrigerant R290 which is very flammable. The refrigerant may mix with air to form a flammable atmosphere increasing the risk of fire and/or explosion.

Work that requires the removal of the exterior casing of the Heat Pump must only be done by competent persons who are familiar with the risks of R290 refrigerant.

Work on the refrigeration circuit must only be done by a Cat I or Cat II F-gas certified engineer with a City and Guilds 6187-21 certificate or equivalent. Work done on the heat pump should be done in accordance with industry standard safety procedures and practices for working with hydrocarbons.

The refrigerant circuit of the outdoor heat pump is charged with R290 refrigerant, which is an odourless, colourless, and flammable refrigerant and classified in the safety group A3 in accordance with ISO 817 and ANSI/ASHRAE standard 34.

When selecting an installation area, it should be considered that R290 has a higher density than air and therefore in the event of leakage from the heat pump, will displace air and pool in low-lying areas. A protective safety zone is defined around the area to prevent explosive and asphyxiating atmospheres, by avoiding the following within this area:

1. Building openings, e.g., doors, windows, air intakes, exhausts, cellar entrances, etc.
2. Ignition sources, e.g., electrical switches, plugs sockets, drills, heaters, etc.
3. Areas outside of the property lines e.g., public areas, adjacent buildings.
4. Ditches, troughs, or depressions in the ground.
5. Surfaces exceeding 400°C in temperature.

The protective safety zone is dependent on the installation areas and adjacent structural installations. See *Figure 1*, *Figure 2* and *Figure 3* to determine the extent of the protective safety zone.

In this area no further works should be done which would affect the stated rules and measures for the protective safety zone.

For all shown types of installations, the top of the protective

safety zone is in line with the top face of the heat pump.

ⓘ IMPORTANT: Dimensions shown in See *Figure 1*, *Figure 2* and *Figure 3* below are the minimum dimensions for the extent of the protective safety zone.

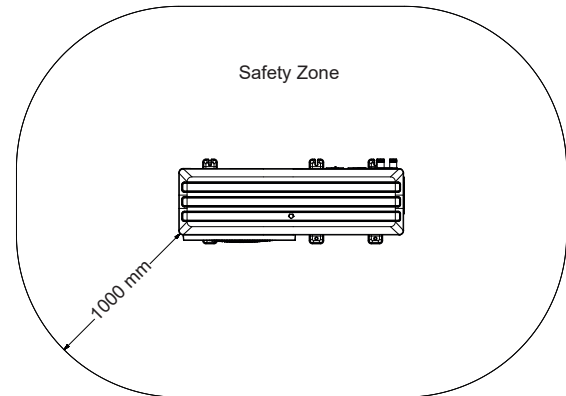


Figure 1. Freestanding installation

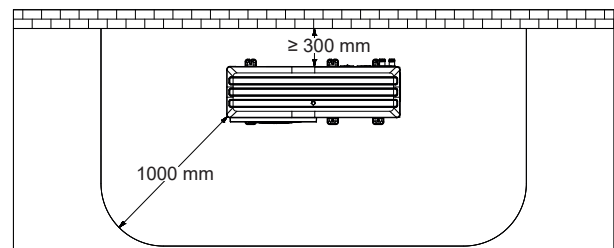
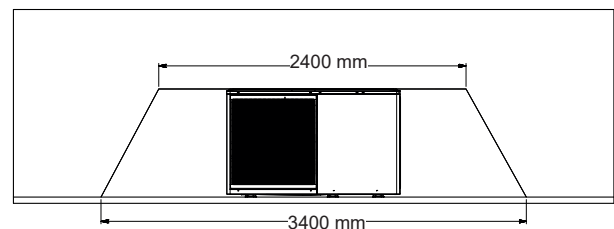


Figure 2. Installation in front of wall

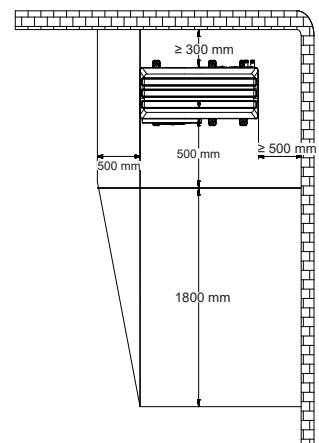
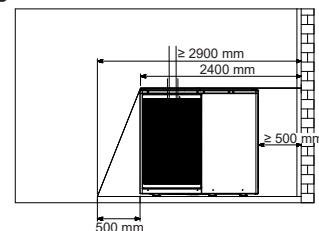


Figure 3. Installation in corner

4. GENERAL INFORMATION

- During periods of heat pump operation, notably during defrost cycles, a plume of steam may be visible. This is normal and due to moisture and/or ice formation evaporating.
- During periods of heat pump operation, the appliance will produce condensate water.
- During periods of heat pump operation, both the evaporator fan and compressor speed will change, dependent upon the prevailing conditions and heat output level required. Due to this there may be a noticeable change in the appliance noise levels and tone which is normal.
- The area directly around the heat pump should be kept clear at all times. Any items that may restrict the airflow to the heat pump such as leaves, litter etc. should be removed immediately as these may negatively affect the operational efficiency.
- The area directly around the control box should be kept clear at all times. Items such as wet laundry should not be placed upon the control box and general clearances illustrated within the Installation Manual must be respected.

CLEANING

⚠ CAUTION: The heat pump contains sensitive components that may be damaged by the use of hose pipes or high-pressure washers.

DO NOT use abrasive cleaning agents when cleaning the heat pump.

HP290 Monobloc Heat Pump Casing:

For normal cleaning of the heat pump casing use a weak soap spray solution only. Rinse off soap spray solution with a low-pressure hose or low-pressure spray bottle only.

HP290 Control Box/HP290 Controller:

For normal cleaning simply dust with a dry cloth. For stubborn marks and stains, wipe with a damp cloth and finish with a dry cloth.

Domestic Hot Water Cylinder:

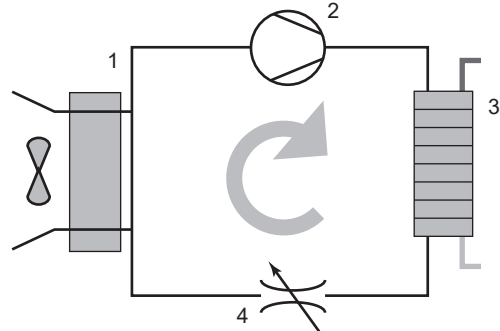
For normal cleaning simply dust with a dry cloth. For stubborn marks and stains, wipe with a damp cloth and finish with a dry cloth.

MAINTENANCE

The frequency of servicing will depend upon the installation condition and usage, but it should be done at least annually by a competent heat pump engineer.

5. BASIC HEAT PUMP OPERATING PRINCIPLE

The heat pump contains a sealed and closed loop refrigerant circuit which contains a flammable refrigerant R290. When operating, refrigerant is continuously circulated by a compressor where it absorbs heat from the outdoor air which is passed through a heat exchanger and transferring that heat to water which is used in heating and hot water systems.



The circuit consists of four main components/functions.

1. Evaporator Heat Exchanger - Refrigerant absorbs heat energy from the outdoor ambient air.
2. Compressor – Refrigerant is compressed and circulated around the closed loop circuit.
3. Condenser Heat Exchanger – Refrigerant transfers heat energy to the heating or hot water systems.
4. Expansion Device – Refrigerant pressure and temperature is reduced.

6. BASIC FUNCTIONS

Domestic Hot Water:

If there is a domestic hot water (DHW) cylinder installed and the temperature of the DHW cylinder is less than the hot water setpoint, the primary heat pump circuit is activated and directed (via the divertor valve) to heat the hot DHW cylinder.

The heat pump will operate until the DHW cylinder has reached its setpoint. This function will always take priority over the space heating system within the programmed time.

Note: Domestic hot water heating and space heating functions cannot operate simultaneously.

Space Heating:

If there is a heating demand and the temperature of any thermostat is less than its setpoint, the primary circuit is activated and directed (via the divertor valve) to heat the space heating circuits. The heat pump and primary heating circuit circulator will be active until the space heating has reached its setpoint.

Note: Domestic hot water heating and space heating functions cannot operate simultaneously.

Anti-Legionella:

If there is a DHW cylinder installed, anti-legionella measures should be utilised in accordance with HSE guidance HSG274 Part 2. The control system is provided with an anti-legionella function for the DHW cylinder, the default parameter, which is adjustable according to the installation and user requirements, initiates this function once per week and heats the DHW cylinder to 60°C for a period of 1 hour.

Monobloc ASHP Defrost Method:

During operation, the heat pump will periodically be required to go through an automatic defrosting process dependent on the outdoor air temperature and humidity levels. Over time the evaporator will begin to collect water which will then frost. The defrost process causes the accumulated frost to thaw and change to liquid. This liquid water then collects in the base panel and flows through into the condensate drain openings located on the base panel of the heat pump. Dependent upon the installation type, the water will drain to ground or a dedicated drainage point.

Frost Protection (Dwelling):

Frost protection is controlled in accordance with the outdoor temperature, and water temperature sensors on the outdoor unit. When the frost protection occurs, the outdoor unit displays the error code Pb and the unit will stop operating.

Frost protection will activate under either of the following conditions:

- Outdoor temperature < 3°C and minimum water temperature < 5°C
- Minimum water temperature < 2°C.

Once either of these conditions are met, the primary circulator will first operate for 5mins at maximum output.

At the end of this period if the water temperature is $\geq 8^{\circ}\text{C}$, then the compressor will run for a 10 minutes until the minimum water temperature is $> 15^{\circ}\text{C}$.

If the water temperature is $< 8^{\circ}\text{C}$ and there is normal water flow, then either the compressor or auxiliary heat source (if applicable) will operate until the minimum water temperature is met.

The compressor will operate for a minimum period of 10 minutes until the minimum water temperature is $> 15^{\circ}\text{C}$.

An auxiliary heat source will be active for a minimum period of 5 minutes until the minimum water temperature is $> 10^{\circ}\text{C}$.

Weather Compensation:

Weather compensation regulates and maintains optimum flow temperatures which allows the heat pump to run more efficiently. This function will modulate the water flow temperature relative to the external ambient temperatures. The lower the outdoor air temperature, the higher the flow temperature and vice versa.

7. CONTROLLER AND DISPLAY FUNCTIONS

The Heat Pump controls are a centralised controller for all systems settings including domestic hot water schedule and temperature control.

For space heating schedule and temperature controls please refer to the instructions supplied with your Programmable Room Thermostat (PRT).

Should there not be a programmable room thermostat control fitted, the Ideal Controller display can function as a room thermostat and the heating schedule must be configured on this device.

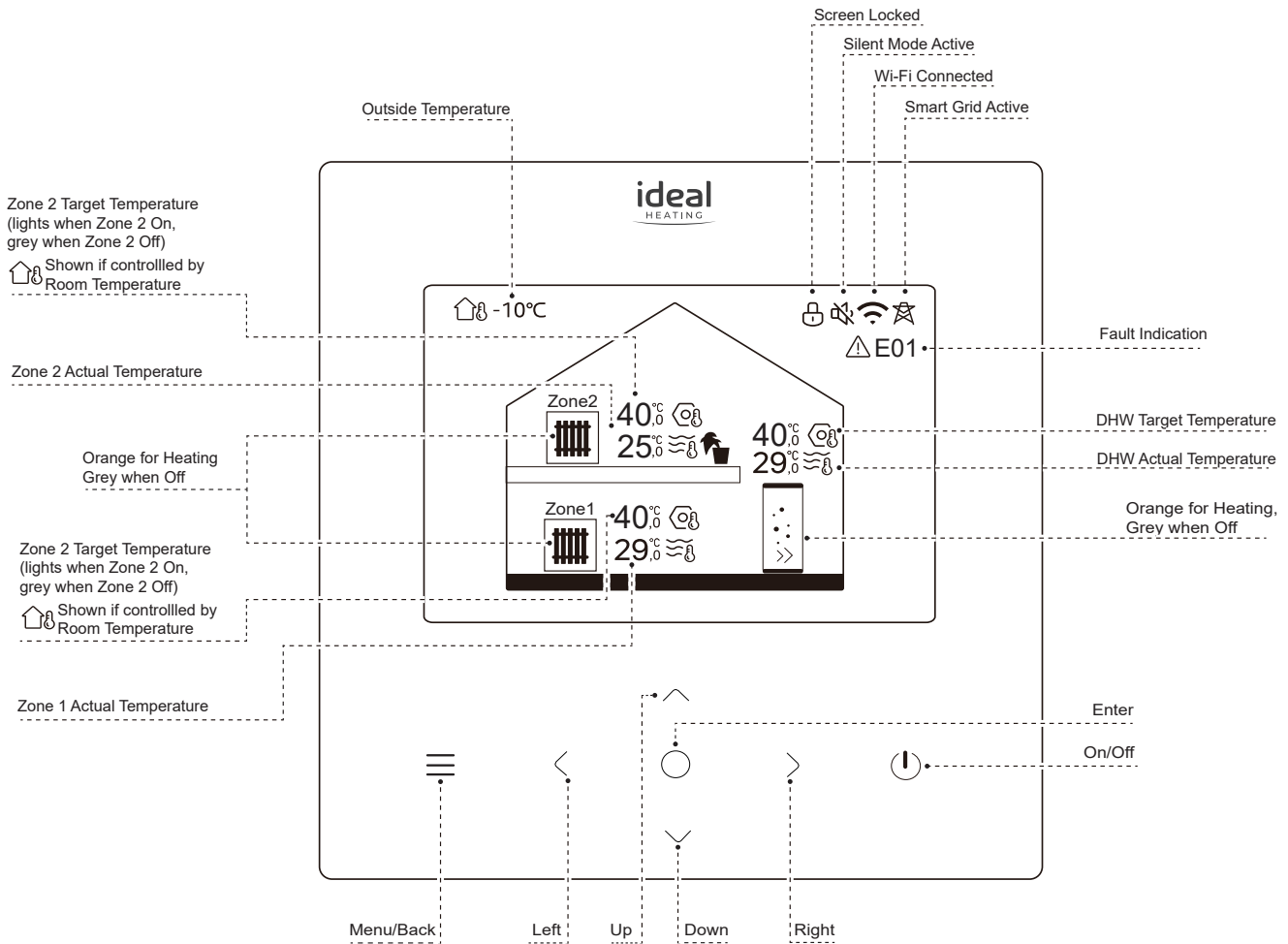


Figure 4. Control Box Homepage display

For Operating Status press O.

For Menu press ≡ (refer to Figure 4).

If no touch-buttons are pressed for 30 seconds the screen dims, switching off after a further 10 seconds.

Press any touch-button to re-activate the screen.

To enable/disable DHW press ∨, ∧, > and < until the DHW tank symbol is illuminated. Then press ⏏.

To change the DHW target temperature press ∨, ∧, > and < until the DHW tank symbol is illuminated. Then press O, then press ∨ and ∧.

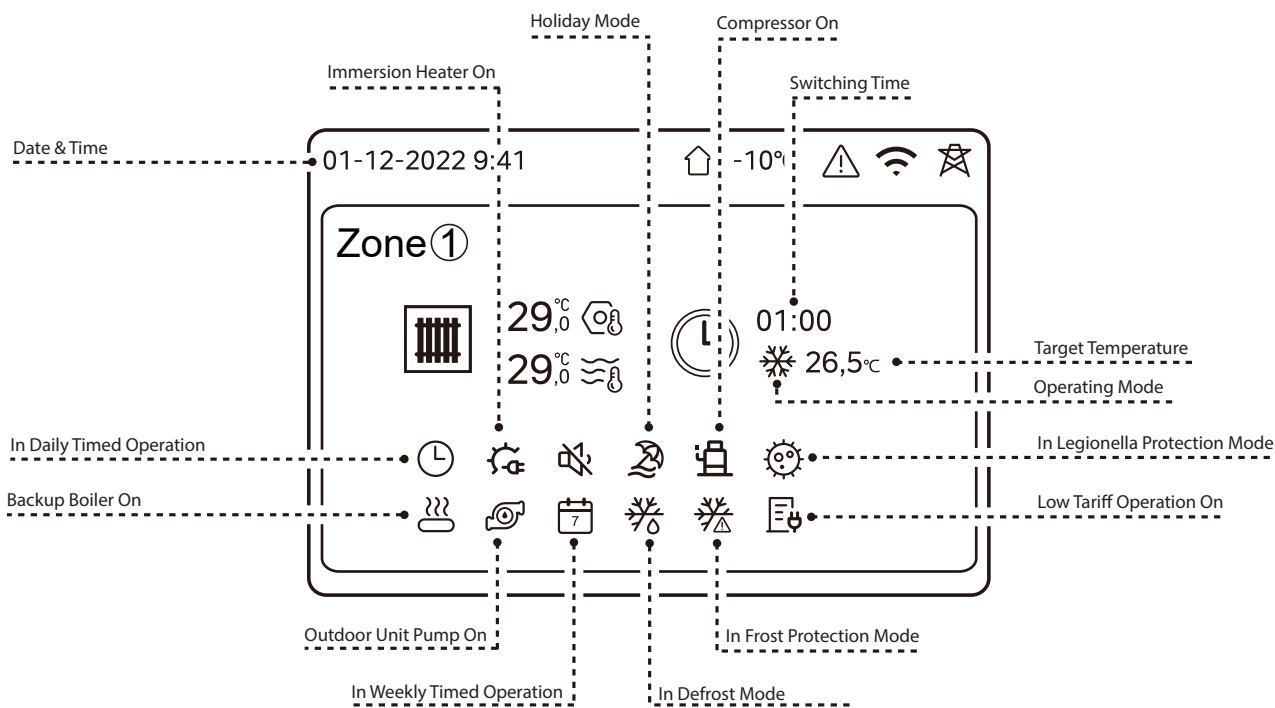


Figure 5. Operating status display

To select a menu press \downarrow , \uparrow , \rightarrow and \leftarrow until the required menu option is illuminated. Then press O.

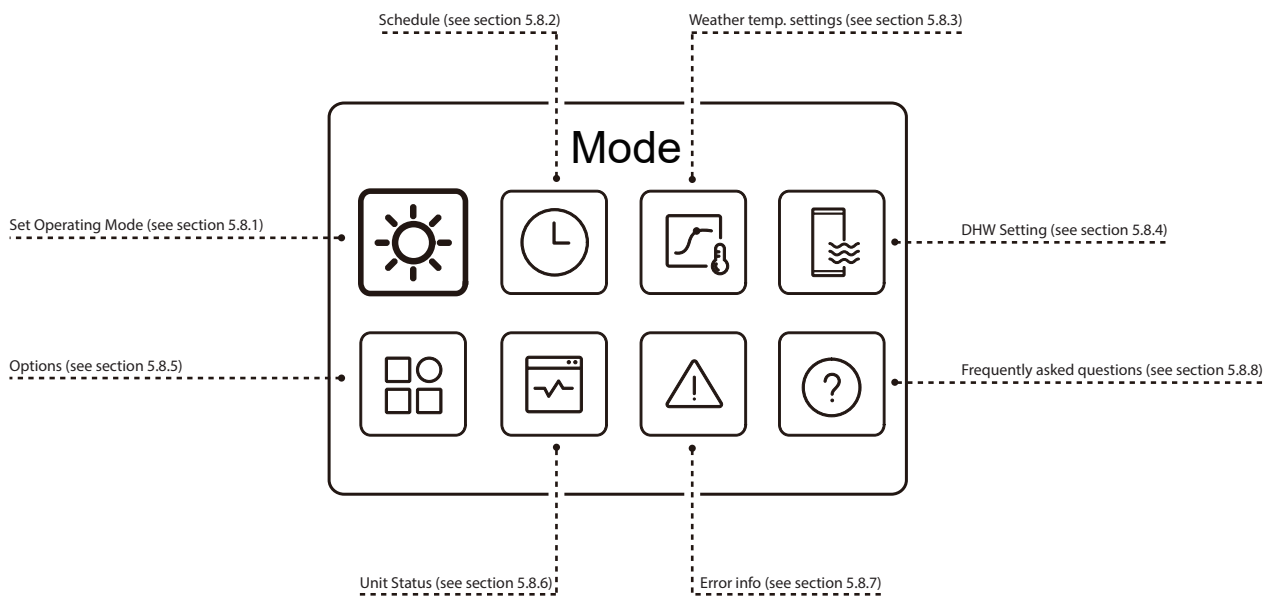


Figure 6. Menu display

Display setting

Display Setting

Time 12:30

Date 15-08-2022

Language >

Backlight >



Display Setting

Buzzer

Screen Lock >

Screen lock time 120 S

To change the time, press ∨ and ^ until **Time** is illuminated. Then press O and then press ∨ or ^.

To change the date, press ∨ and ^ until **Date** is illuminated. Then press O.

To change the Language, press ∨ and ^ until **Language** is illuminated. Then press O (refer to 5.8.5.2.1).

To change Backlight setting, press ∨ and ^ until **Backlight** is illuminated. Then press O (refer to 5.8.5.2.2).

To enable/disable the buzzer for the buttons, press ∨ and ^ until **Buzzer** is illuminated. Then press O.

To change the screen lock setting, press ∨ and ^ until **Screen Lock** is illuminated. Then press O (refer to 5.8.6.1).

To change the screen lock time, press ∨ and ^ until **Screen Lock** is illuminated. Then press O and then press ∨ and ^.

Schedule, DHW

Schedule

Zone1 daily timer ON >

Zone2 daily timer ON >

DHW daily timer OFF >

Zone1 weekly schedule ON >



Schedule

Zone 2 weekly schedule ON

DHW weekly schedule ON >

Holiday away OFF >

Holiday home ON >

To set a schedule for DHW where the operating times and temperatures are the same for each day of the week then select **DHW daily timer**

Schedule, DHW daily timer

To change the setting:

To set the option to OFF, press O.

To set the option to ON, press O.

🕒 DHW daily timer

No.	Time	Mode	Temp.	
01	01:00	ON	55°C	<input checked="" type="checkbox"/>
02	20:00	OFF	55°C	<input type="checkbox"/>
03	00:30	ON	55°C	<input checked="" type="checkbox"/>
04	00:30	ON	60°C	<input checked="" type="checkbox"/>

The first column shows the order in which the events will happen.

The second column is the time at which the events will happen.

The third column shows if the heat demand is ON, or OFF, it should only be ON for this application (☀️).

The fourth column is the target hot water temperature.

The fifth column shows if the event is ON or OFF.

To scroll through the options, press ∨, ^, >, and <.

To select an option, press O.

To change a setting, press ∨ or ^.

To set a schedule for DHW where the operating times and temperatures are different across the week select **DHW weekly schedule**.

Creating a space heating demand with PRT [Halo Lite or Third-Party Thermostat]

The space heating function will be controlled via the use of a Halo Lite RF or equivalent PRT. Please refer to the instructions supplied with the PRT to set the schedule. Non-Programmable Room Thermostats cannot be used in conjunction with this appliance.

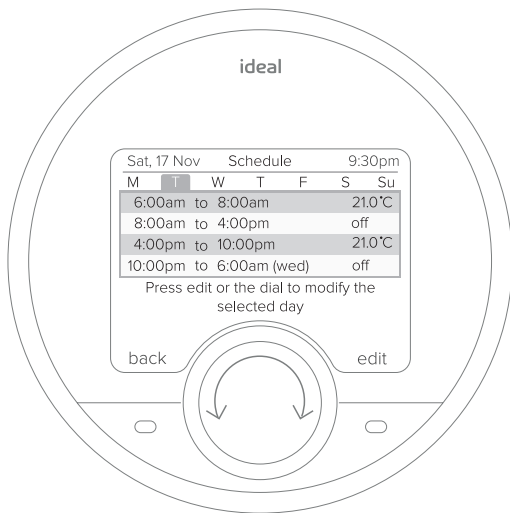


Figure 7. Halo Lite display

Creating a space heating demand with Ideal Controller

This section shows how to set the heating schedule using the Ideal Controller where no programmable room thermostat is present.

To change the setting:

To set the option to OFF, press O.

To set the option to ON, press O.

Zone 1 daily timer				
No.	Time	Mode	Temp.	
01	01:00	☀	26,5°C	●
02	20:00	☀	26,5°C	●
03	00:30	☀	26,5°C	●
04	00:30	☀	26,5°C	●

ⓘ IMPORTANT: For ON periods heat will be provided using a flow temperature calculated from measured outside temperature.

ⓘ IMPORTANT: For OFF periods no heat will be provided, therefore ON periods should be set allowing sufficient time (multiple hours) for the correct room.

The first column shows the order of events.

The second column is the times that the events will occur.

The third column shows if the heat demand is ON or OFF. The Heat demand should only be ON for this application.

The temperature in the fourth column cannot be changed.

The fifth column shows if the event is ON or OFF.

The temperature in the fourth column cannot be changed (it is set automatically based on the outdoor temperature).

The fifth column shows if the event is ON or OFF.

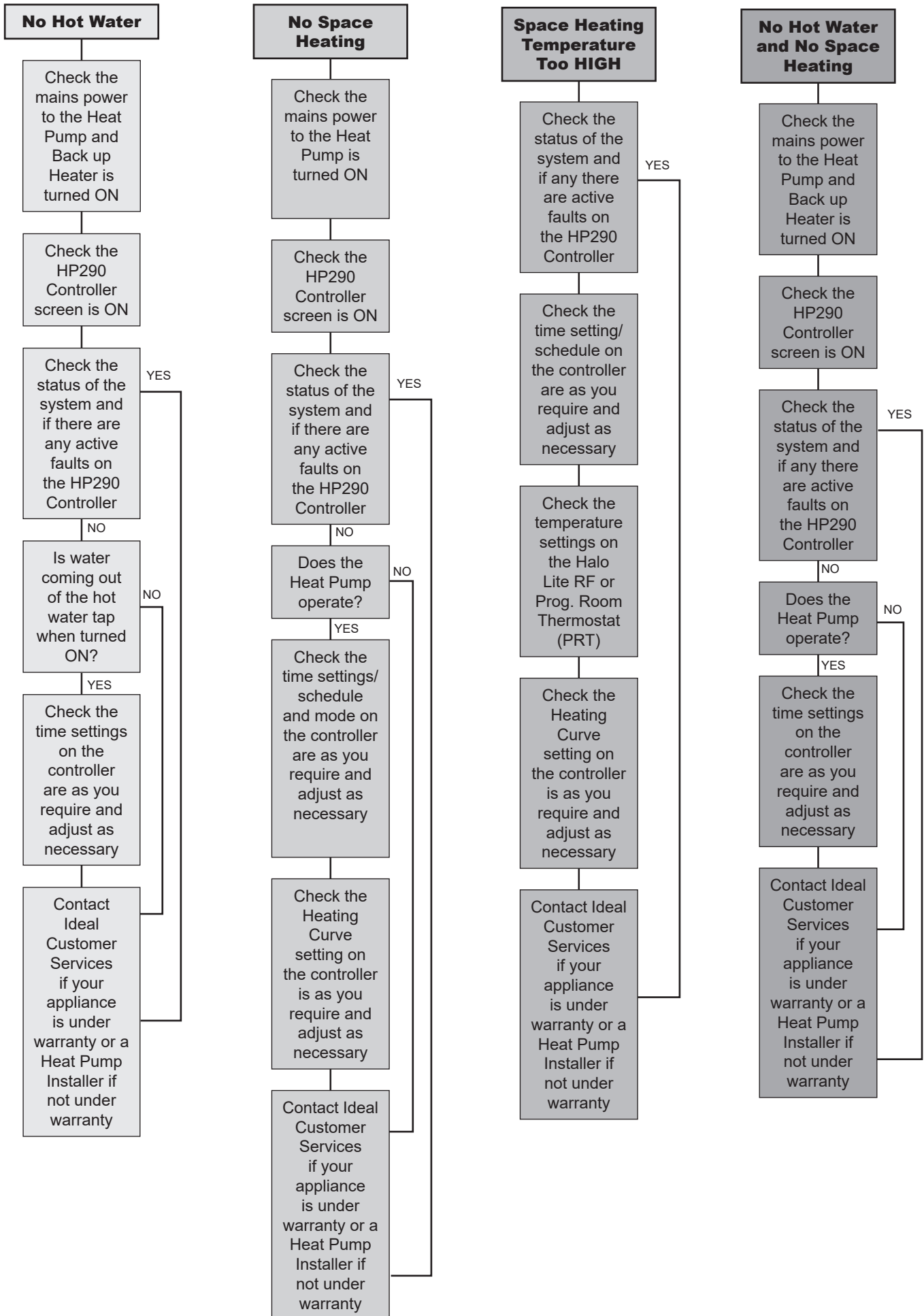
To scroll through the options select \vee , \wedge , \rangle and \langle .

To select an option select O.

To change a setting select \vee or \wedge .

For weekly schedule configuration and holiday mode please refer to Appendix 1.3 to 1.3.4.3 and 1.3.5 of the Installation Instructions.

8. TROUBLE SHOOTING



9. HP290 ALARMS

Any active faults will be displayed on the home screen.

To see error information, from the Home Screen, press the menu button \equiv , then use the up and down arrows \vee or \wedge to move the display so that the error symbol \triangle is displayed (Error info.), then press enter (O).

Error info.			
Unit	Code	Time	Date
#01	E8 (70%)	11:27	19-12-2022
#02	E8 (70%)	15:30	19-12-2022
#03	E12	10:30	19-05-2022
#04	E8 (70%)	00:30	20-12-2022

To set a parameter scroll through the fault codes use \vee or \wedge . Press O to scroll through the pages for more information.

Error info.			
Unit	Code	Time	Date
#01	E 1	11:27	19-12-2022
E8 water flow fault			

10. FAULT CODES

Code ID	Description	Reference
C7	Inverter Error	9.1.1 on page 96
E0	No Water Flow, through Outdoor Unit, 10 times in succession	9.1.2 on page 97
E1	Live and Neutral reversed	9.1.3 on page 98
E2	No connection Outdoor PCB to User Interface	9.1.4 on page 98
E3	Header Thermistor (T1) Error (for Hybrid/Cascade)	9.1.5 on page 98
E4	DHW Cylinder Thermistor (T5) Error	9.1.6 on page 99
E5	Outdoor Unit, Air to Refrigerant Heat Exchanger Outlet Thermistor (T3) Error	9.1.8 on page 100
E6	Outdoor Sensor within Outdoor Unit (T4) Error	9.1.9 on page 100
E8	No Water Flow, through Outdoor Unit	9.1.9 on page 100
E9	Compressor Refrigerant Return Thermistor (Th) Error (E9)	9.1.10 on page 100
EA	Discharge Thermistor (Tp) Error	9.1.11 on page 100
Ed	Outdoor Unit, Return Thermistor (Tw_in) Error	9.1.12 on page 101
F1	Inverter Error	9.1.1 on page 96
H0	No connection Outdoor PCB to Indoor PCB	9.1.13 on page 101
H1	No connection Outdoor PCB to Inverter PCB	9.1.14 on page 102
H2	Plate Heat Exchanger Outlet Refrigerant Thermistor (T2) Error	9.1.15 on page 102
H3	Plate Heat Exchanger Inlet Refrigerant Thermistor (T2B) Error	9.1.16 on page 102
H4	Inverter High Current (L1E/L11/L12) 3 times within 60mins	9.1.17 on page 103
H6	Fan Error	9.1.18 on page 103
H7	Mains High Voltage or Low Voltage Error	9.1.19 on page 103
H8	High Pressure Sensor Error	9.1.20 on page 104
H9	Central Heating Zone 2 Thermistor Fault	9.1.7 on page 99
HA	Outdoor Unit, Flow Thermistor (Tw_out) Error	9.1.21 on page 104
Hb	High Flow/Return Differential, 3 times in succession and Flow Temperature <7°C	9.1.22 on page 105
Hd	No connection Master Heat Pump to Slave Heat Pump	9.1.23 on page 105
HF	Inverter not matched to Outdoor PCB dip switch setting	9.1.24 on page 106
HH	10 Fan Errors in 2 hours	9.1.18 on page 103
P0	Low Pressure Error	9.1.25 on page 106
P1	High Pressure Switch Operated	9.1.26 on page 107
P3	Overcurrent Protection Error	9.1.27 on page 108
P4	Compressor Discharge Temperature High	9.1.28 on page 109
P5	High Flow/Return Differential	9.1.22 on page 105
P21	Low Pressure Sensor Error	9.1.29 on page 109
P27	High Pressure Sensor and Low Pressure Sensor Wiring Reversed	9.1.30 on page 109
Pd	Condensing Temperature High	9.1.31 on page 110
PP	High Flow/Return Differential	9.1.22 on page 105
FC1	Outdoor Unit, Air to Refrigerant Heat Exchanger Outlet Thermistor Error	9.1.8 on page 100
-	3-way Valve does not operate	9.1.35 on page 113
-	Anti-Legionella does not operate	9.1.36 on page 114
-	CH1 Pump does not operate	9.1.37 on page 115
-	CH2 Pump does not operate	9.1.38 on page 116
-	No CH	9.1.37 on page 115
-	No DHW	9.1.35 on page 113
-	No Display	9.1.39 on page 117
L11	Inverter High Current	9.1.17 on page 103
L12	Inverter High Current	9.1.17 on page 103
L1E	Inverter High Current	9.1.17 on page 103
L2E	Inverter High Temperature	9.1.32 on page 111

L31	Inverter Error	9.1.1 on page 96
L32	Inverter Error	9.1.1 on page 96
L34	Inverter Error	9.1.1 on page 96
L3E	Inverter Error	9.1.1 on page 96
L43	Inverter Error	9.1.1 on page 96
L45	Wrong Fan Fitted	9.1.33 on page 111
L46	Inverter Error	9.1.1 on page 96
L47	Inverter Error	9.1.1 on page 96
L52	Compressor Stall Error	9.1.34 on page 112
L5E	Compressor Start Error	9.1.34 on page 112
L61	Short Circuit to Compressor Terminals	9.1.34 on page 112
L65	Inverter Error	9.1.1 on page 96
L6E	Inverter Error	9.1.1 on page 96
LB7	Inverter Error	9.1.1 on page 96
LBE	High Pressure Switch Operated	9.1.26 on page 107
LC1	Inverter Error	9.1.1 on page 96
LC2	Inverter Error	9.1.1 on page 96
LC3	Inverter Error	9.1.1 on page 96
LC4	Inverter Error	9.1.1 on page 96
LC5	Inverter Error	9.1.1 on page 96
LC6	Inverter Error	9.1.1 on page 96
LC7	Inverter Error	9.1.1 on page 96
LC8	Inverter Error	9.1.1 on page 96
LC9	Inverter High Temperature	9.1.32 on page 111
LCA	Inverter High Current	9.1.17 on page 103
LCB	Inverter Error	9.1.1 on page 96
LBC	Inverter Error	9.1.1 on page 96
LCD	Inverter Error	9.1.1 on page 96
LCE	Inverter High Current	9.1.17 on page 103
J11	Inverter High Current	9.1.17 on page 103
J12	Inverter High Current	9.1.17 on page 103
J2E	Inverter High Temperature	9.1.32 on page 111
J31	Inverter Error	9.1.1 on page 96
J32	Inverter Error	9.1.1 on page 96
J3E	Inverter Error	9.1.1 on page 96
J43	Inverter Error	9.1.1 on page 96
J45	Wrong Fan Motor Fitted	9.1.33 on page 111
J46	Inverter Error	9.1.1 on page 96
J47	Inverter Error	9.1.1 on page 96
J52	Compressor Stall Error	9.1.34 on page 112
J5E	Compressor Error	9.1.34 on page 112
J61	Fan Connections Short Circuit	9.1.33 on page 111
J65	Inverter Error	9.1.1 on page 96
J6E	Inverter Error	9.1.1 on page 96

Note: DHW thermistor fault and CH zone 2 thermistor fault: check outdoor PCB, dipswitch 2, switch 1, is in the On position

11. WARRANTY

At the end of each 12-month period after commissioning, the Heat Pump must be serviced by a suitable competent heat pump engineer in accordance with the process in the manufacturer's instructions. Should this condition not be met the Heat Pump warranty will lapse.



At Ideal Heating we take our environmental impact seriously, therefore when installing any Ideal Heating product please make sure to dispose of any previous appliance in an environmentally conscious manner. Households can contact their local authority to find out how. See <https://www.gov.uk/managing-your-waste-an-overview> for guidance on how to efficiently recycle your business waste.

Technical Training

Our Expert Academy offer a range of training options designed and delivered by our experts in heating. For details please visit: expert-academy.co.uk

Ideal Boilers Ltd., pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

Ideal is a trademark of Ideal Boilers.

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