



INSTALLATION & USER MANUAL

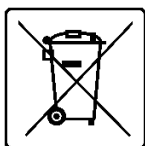
CONTROL DISPLAY FOR THE IGLU HEAT PUMPS



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Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)



(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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1.Important safety instructions



This manual contains critical safety instructions for the installation, operation, and maintenance of the IGLU Control Display. These instructions must be followed exactly to ensure safe and correct operation. Installation and servicing of the IGLU Control Display must be performed only by IGLU TECH Certified Installers. IGLU TECH assumes no liability for injury, equipment damage, or property loss caused by unauthorized servicing or failure to follow the instructions provided. All warnings and cautions included in this manual must be strictly observed.

Product specifications

All specifications and descriptions in this document are accurate as of the time of printing. However, because IGLU TECH is committed to continuous improvement, we may make product modifications at any time.

The images in this document are for demonstration purposes only. Product details may vary slightly depending on the version and region.

Errors or omissions

If you notice any inaccuracies or omissions in this manual, please email us at: info@iglutech.eu

Meaning of warnings and symbols

Symbol / Label	Meaning
	WARNING: indicates a hazardous situation which, if not avoided, could result in injury or death.
	CAUTION: indicates a hazardous situation which, if not avoided, could result in minor injury or damage to the equipment.
	NOTE: indicate an important step or tip that leads to the best results but is not safety or damage related
	REFER TO OPERATING INSTRUCTIONS: indicates that the user should refer to operating or installation instructions before proceeding
	RISK OF ELECTRIC SHOCK: indicates components that present the risk of electrical shock.
	WARNING: FLAMMABLE MATERIAL

2.About this document

2.1 Introduction

This installation and user manual provides instructions for installing the IGLU Control Display. The Control Display is an optional accessory that enables convenient local monitoring and adjustment of essential operating parameters of the IGLU heat pump system. It supports basic system operation and settings directly on the device, while advanced configuration and system management are performed via the IGLU Home Next app for end-user, and via the Service Tool for installers.

2.2 Use of the Manual

This manual is an integral part of the product and must be easily accessible to the installer. The manual must be available throughout the life of the device. In the event of a change in the owners of the device, the manual must be passed on to the new owners or users. Read the instructions before installing the IGLU Control Display. Follow all instructions as specified by the manufacturer. If you have any questions, please contact the your local manufacturer's representative.

2.3 Purpose

This manual is intended exclusively for qualified installers responsible for installation and end users operating the heat pump through the Control Display. Treat all constituents responsibly. The IGLU Control Display is designed for basic heat pump operation and essential system configuration. It allows the installer or user to adjust primary settings, monitor operating parameters, view system status, and access basic functions of heating, and domestic hot water settings. All advanced configuration, detailed monitoring, and extended functionality must be performed through the IGLU Home Next app for end-user, and through the Service Tool for the installers. The Control Display may only be used for its intended purpose and within the technical specifications provided by the manufacturer. Improper use may result in malfunction or reduced system performance.

2.4 Liability

The manufacturer shall not be liable for damage caused by improper use or installation of the control display system. The manufacturer's liability shall also not apply:

- If work has been performed that differs from the specifications in these operating instructions.
- If work has been carried out on the equipment which is not described in this manual, or which has not been approved in writing by the manufacturer.
- If the equipment or its components have been modified, altered, or removed without the written consent of the manufacturer.

If the system does not operate in proper conditions or is not used properly, the present rules and requirements are not followed or the checks are not performed, the manufacturer shall not bear liability for the operation of the product. The system operator must take precautions to prevent accidents and injuries to bystanders. The user is responsible for the safety of the heating system and compliance with environmental protection requirements.

If a fault is detected, it is necessary to react promptly, within a reasonable time and as provided in this installation manual, because failure to rectify a fault in a timely manner may result in other faults or damage.

If the fault or other actions were carried out by an unqualified worker and in prejudice to the rules, the manufacturer cannot be held liable for the consequences and the warranty obligations may no longer apply.

The warranty does not apply to normal wear and tear, external damage due to improper maintenance or negligence.

2.5 Warranty

The product is covered by an IGLU TECH manufacturer's warranty.

To maintain warranty coverage, it is essential that the product is installed, operated, and maintained strictly in accordance with the instructions and requirements provided in this manual. Failure to comply with these instructions — including improper installation, unauthorized modifications, use of non-approved components, or lack of maintenance — will void the warranty.

Details regarding the warranty and post-warranty periods, including all applicable terms and conditions, are provided in the purchase documents.

2.6 Product packaging and transportation

After purchasing the products:

- Inspect the delivered product for external damage during delivery.
- In the event of delivery defects, submit a claim to the company that sold the device immediately.

3.Safety Instructions for the installer



- Carefully follow the precautions listed below, as they are essential to ensure the safety of IGLU Tech products and all related components.
- The Control Display is an option and cannot be used standalone. Also see the installation and user manual of the IGLU heat pumps.

- Carefully read the content of this manual before installing the Control Display system and store the manual in a safe place in order to be able to use it as a reference after the installation.
- Verify that installation and testing operations are performed by qualified personnel.
- Make sure installation, testing and applied materials comply with applicable legislation.
- Verify that the Control Display is not installed in an easily accessible area (vandalism/ sabotage/ other harmful activities).
- For maximum safety, installers shall always carefully read the warnings mentioned in this installation manual.

- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric lines. Failure to comply with these instructions indicated in the manual shall immediately invalidate the warranty.
- Do not use the products if you see some damages on the units and recognize something problematic such as noise or smell of burning.
- The Control Display MUST be mounted indoors.
- Improper installation or attachment of equipment or accessories could result in electrical shock, short-circuit, leaks, fire or other damage to the equipment. ONLY use accessories, optional equipment and spare parts approved by IGLU TECH.
- If you are NOT sure how to install or operate the unit, contact IGLU TECH service team, or local manufacture's representative.
- After finishing installation: Conduct a trial operation to check for faults, explain the user how to operate the Control Display, ask the user to store the manual for future reference.

Do not install the Control Display in the following places:

- In places where it is exposed to direct sunlight.
- In places where it is near a heat source
- In places that are affected by outside air or air draught due to e.g. door opening/ closing.
- In places where the display can easily get dirty.
- In places where there is NO easy access to the controls.
- In places with temperatures of 50°C or higher.
- In places where the relative humidity is >95%
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the Control Display system, and cause malfunction of the equipment.
- In places where it may be exposed to water, or in generally moist areas.
- If you are NOT sure how to install or operate the device, contact your local manufacture's representative.

Electrical safety



DANGER!

Electrical work must be performed by a qualified electrician and in accordance with local and national electrical codes.

- Before the start – also read the precautions and requirements in the following sections: „Safety instructions“, „Do not install the Control Display in the following places“.
- The wiring for installation and connection are NOT included.
- When wiring, run the wiring away from the power supply wiring in order to avoid receiving electric noise (external noise).
- NEVER touch the internal parts of the Control Display.
- When mounting the Control Display, be careful not to pinch the wiring

- Always make sure that the power supply is compliant with local safety standards.

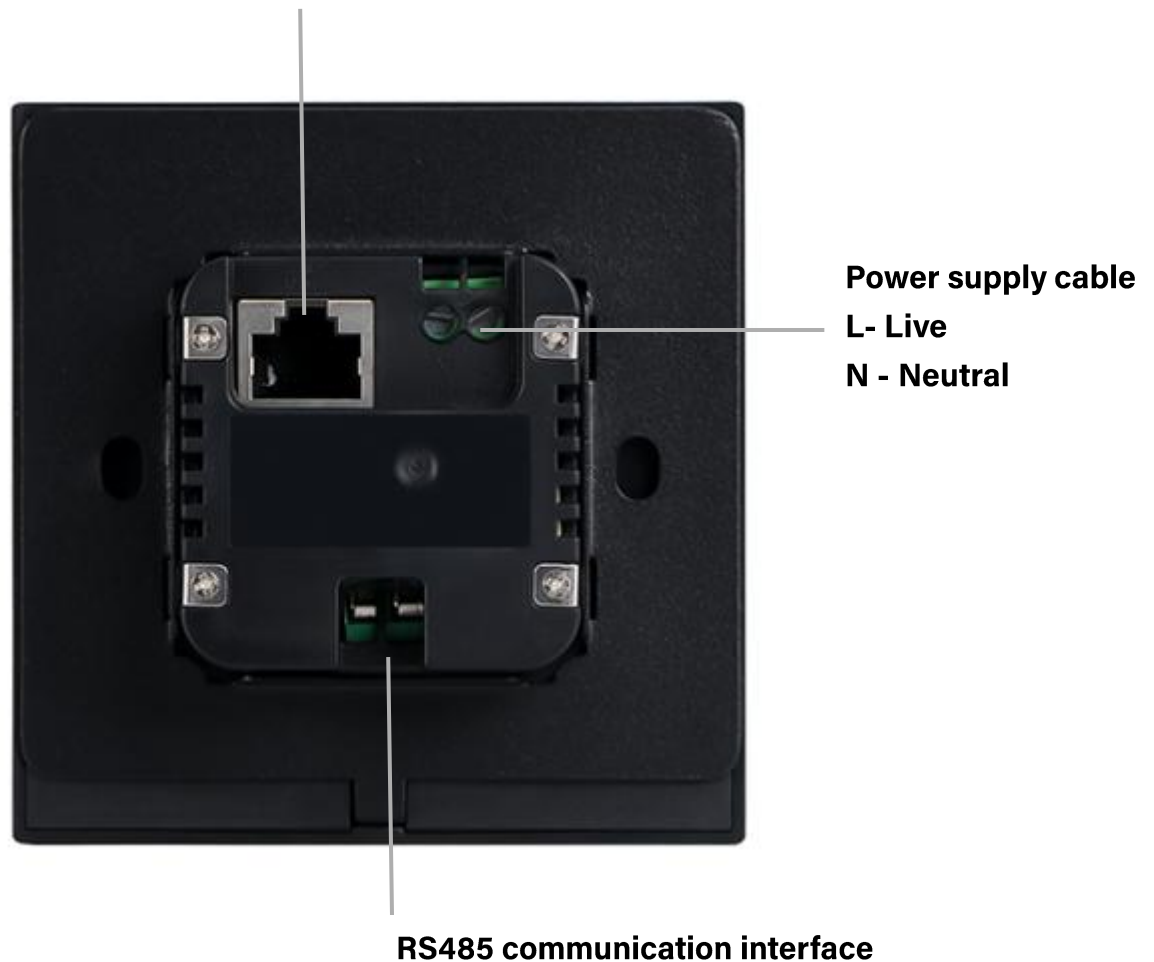
3.1 Safety precautions for the user

- To clean the Control Display, do NOT use organic solvents, such as paint thinner.
- Do NOT use flammable materials (e.g. hairspray or insecticide) near the Control Display.
- To prevent electric shocks or fire: Do NOT operate the Control Display with wet hands.
- Do NOT disassemble the Control Display and touch interior parts.
- Do NOT modify or repair the Control Display, in case of the failure contact IGLU TECH service team, or your local manufacturer's representative.
- Do NOT relocate or reinstall the Control Display by yourself, contact your installer.
- Do NOT play with the IGLU heat pump or its Control Display. Accidental operation by a child may result in impairment of bodily functions and harm health.

4. Control Display-Technical Data and Interface

Category	Parameter	Specification
Installation	Dimensions	86*85*36 mm
	Installation Type	In-wall, Ø 60 mm wall box
Electrical & Power	Power supply	PoE 48V, IEEE802.3af AC 110~240V, 50HZ
Environmental	Operating Temperature	-10°C ~ 50°C
Display	Display size	4"
Connectivity	Wi-Fi	IEEE 802.11 b/g/n (2.4 GHz);
	Ethernet	10/100 Mbps
Interface	RJ45	Ethernet port with PoE support
	RS485	RS485 communication interface
Accessories included	Wall box (Ø 60 mm) Mounting bracket Mounting screws	

RJ45 Ethernet port



*RS485 communication interface is not yet supported.

5. Installing the Control Display

The Control Display can be **installed** in one of the following ways, depending on the installation location and wiring arrangement:

- In-wall (flush-mounted) installation using the supplied round wall box (Ø 60 mm)
- Replacement installation in place of an existing electrical wall outlet

The Control Display can be **powered** using one of the following methods:

- Wired power supply connection (L / N).
- Power over Ethernet (PoE) via an Ethernet (RJ45) cable.



Ensure that installation is performed by a qualified installer and in accordance with local electrical regulations.



5.1 Power Supply Connection



- Installation and electrical connection must be carried out only by a qualified electrician.
- Always switch off the mains power and secure it against being switched on again before working on the installation.
- Observe all local wiring regulations and standards.

The Control Display can be powered using one of the following methods:

1. Wired power supply connection

The Control Display is powered via a wired power supply connection. Power is supplied using a power supply cable (not included in the package). The recommended cable cross-section is **0.75 mm²**.

The power terminals are located on the rear side of the Control Display. Connect the power supply as:

L- Live

N-Neutral

2. Power Supply via Ethernet (PoE)

Alternatively, The Control Display can be powered via an Ethernet cable with an **RJ45 connector** supporting **Power over Ethernet (PoE)**. A **PoE-enabled network switch or PoE injector with an output of at least 48V** is required to provide power to the device. This method allows both power and data to be supplied through a single cable, eliminating the need for a separate power cord.

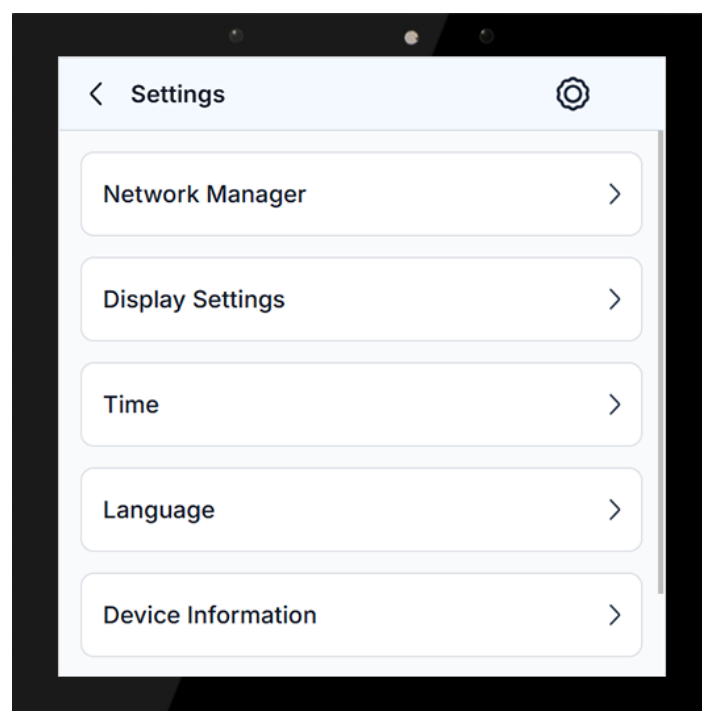
5.2 Installer Network Setup and System Communication

The Control Display supports two network connection methods: **Wi-Fi** and **LAN (wired)**

Once the Control Display is powered on and active, access the main dashboard of the control display and select the Settings icon to open the **General Settings** menu. This menu provides access to the network configuration and the system communication setup required to establish communication between the Control Display and the IGLU heat pump.



General settings



5.2.1 Wi-Fi Connection

You can connect the Control Display to the Wi-Fi network in one of the following ways:

1. Client's Wi-Fi Network

Connect the Control Display to the same client's home Wi-Fi network as the heat pump.

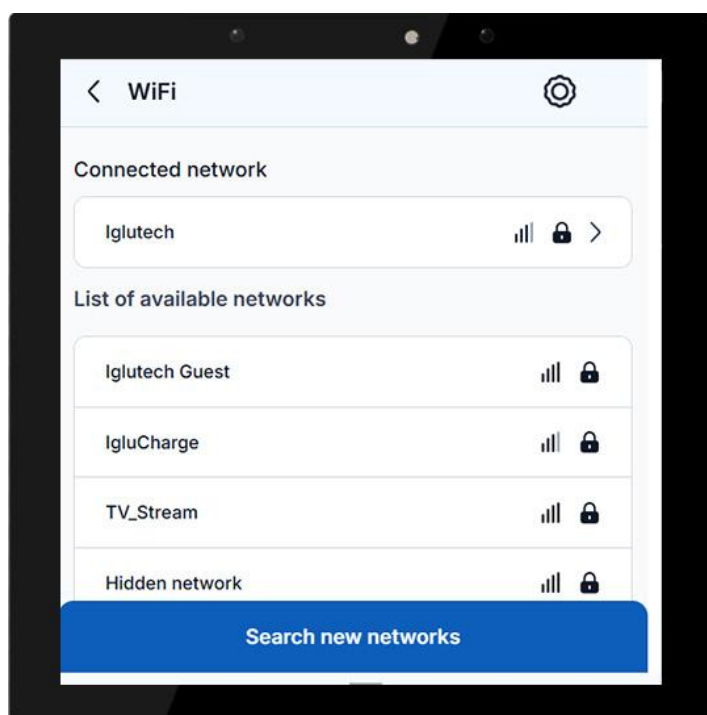
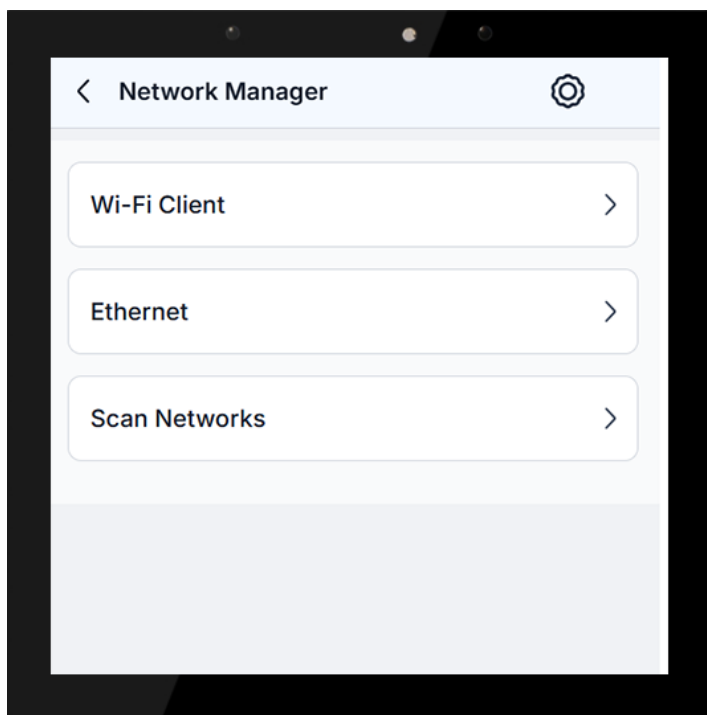
2. Heat Pump's Wi-Fi hotspot

Connect the Control Display directly to the heat pump's Wi-Fi hotspot.

5.2.1.1 Client's Wi-Fi Network

- Navigate to the General Settings of the Control Display
- In the Settings menu, select „**Network Manager**“ and then, „**Wi-Fi Client**“
- Choose the Client's Home Wi-Fi network
- Enter the Wi-Fi password and tap „**Proceed**“ to connect

NOTE: The Control Display has to be connected to the same Home Wi-Fi as the Heat pump is connected.



5.2.1.2 Heat pump's Wi-Fi hotspot

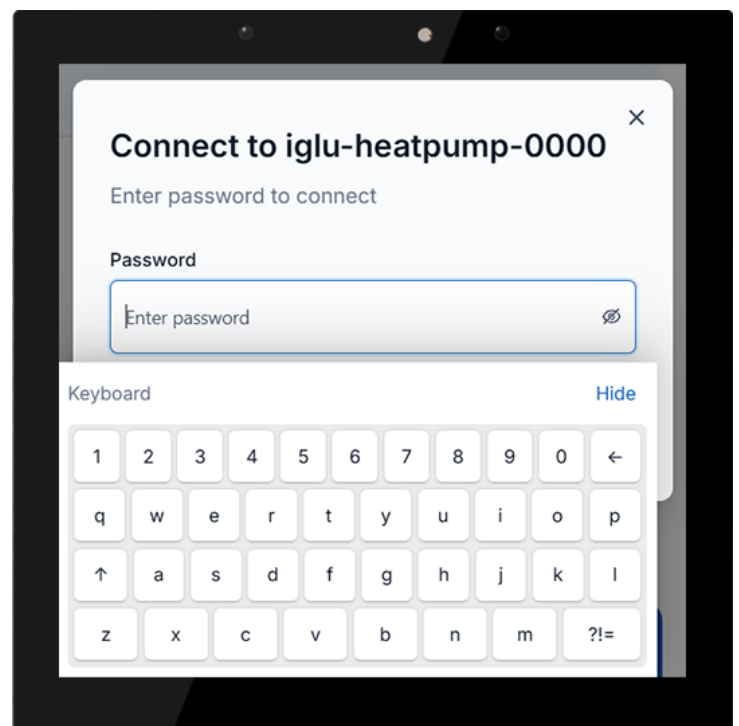
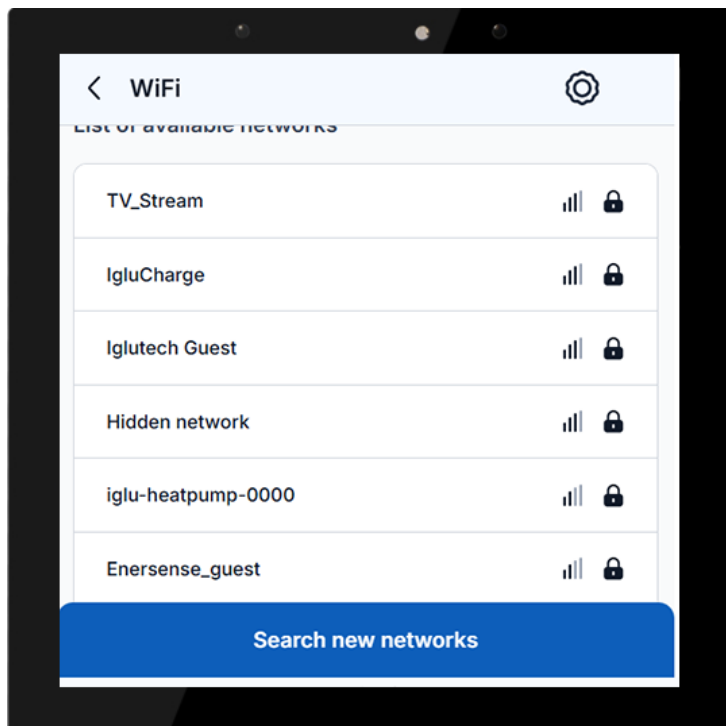
As an alternative, you can connect the Control Display to the heat pump's Wi-Fi hotspot

- Navigate to the General Settings of the Control Display
- In the Settings menu, select „**Network Manager**“ and then, „**Wi-Fi Client**“
- In the list of available Wi-Fi networks, select the heat pump's network named „**iglu-heatpump-0000**“ where the last four digits correspond to the final digits of the heat pump's serial number.
- When prompted, enter the password of IGLU Heat Pump Wi-Fi Hotspot and tap „**Proceed**“ to connect

NOTE: The password of IGLU Heat Pump Wi-Fi hotspot can be found in the IGLU Local Configurator: <http://iglu-heatpump-0000.local>

(Replace the last four digits with the final digits of the heat pump's serial number.)

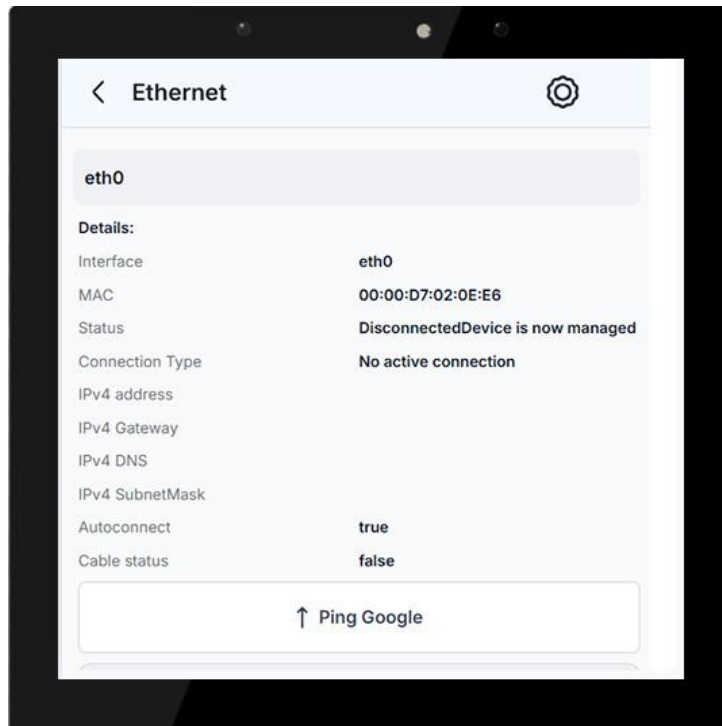
- Log in using your account credentials
- From the left-hand menu, select „**Wi-Fi Access point**“
- The Heat Pump's Wi-Fi hotspot password can be found in the „**Settings**“ field under „**Password**“. Click the eye icon to reveal the password.



5.2.2 LAN (Wired) Connection

You can connect the Control Display to the network using a wired Ethernet connection.

- Connect the Control Display to the network using an Ethernet cable (RJ45)
- Navigate to the General Settings of the Control Display.
- In the Settings menu, select „**Network Manager**“
- Choose „**Ethernet**“ and verify that the connection status is shown as active.



NOTE

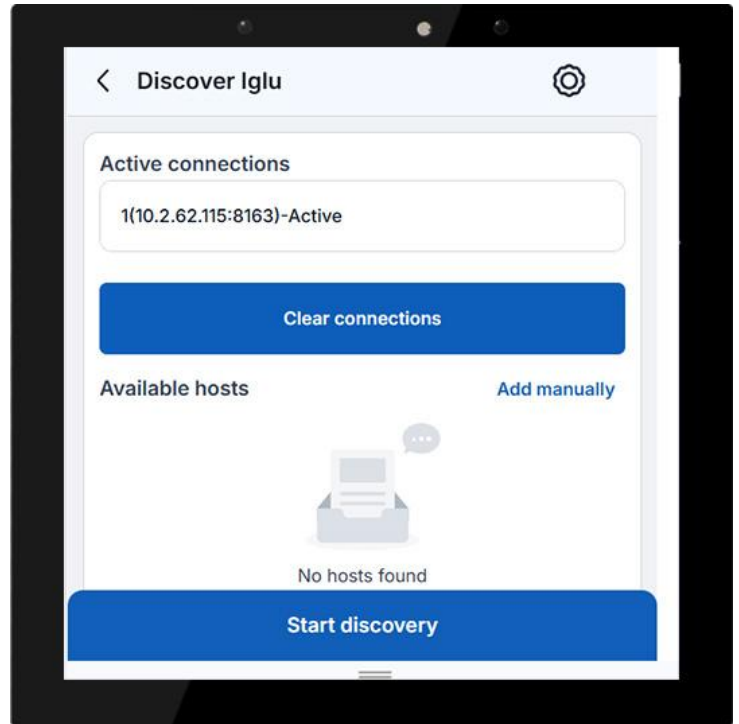
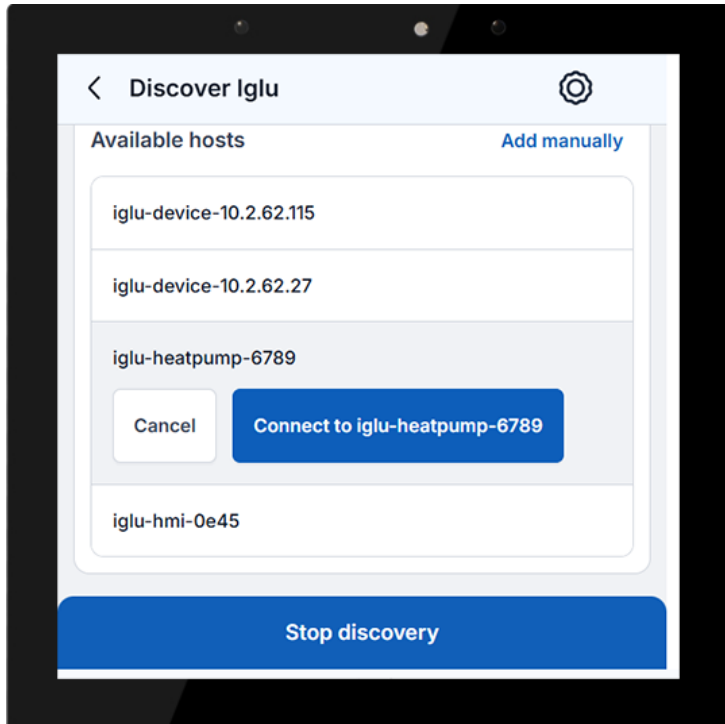
The Control Display can be powered via an Ethernet cable using **Power over Ethernet (PoE)**. For more information, refer to **Section “Power Supply Connection”**

5.3 Control Display Communication Connection with the Heat Pump

Once the Control Display is powered on and connected to the network, the final step is to establish communication between the Control Display and the IGLU heat pump.

- Navigate to the General Settings of the Control Display and choose „**Network Manager**“
- Select „**Scan Networks**“
- Tap „**Start discovery**“ and wait for the Heat Pump connection to appear in the list as „**iglu-heatpump-0000**“
Note: The last four digits correspond to the final four digits of the heat pump's serial number.
- Select the heat pump from the list to connect.
- After a successful connection, the „**Active Connections**“ field will display the connection status as **Active**, along with the heat pump's IP address, as shown in the image below.

Once connected, the main Control Display dashboard will display the heat pump status and temperature settings.



Manual Connection (if Discovery Fails)

If the heat pump does not appear in the list after selecting "Start Discovery", the connection can be added manually.

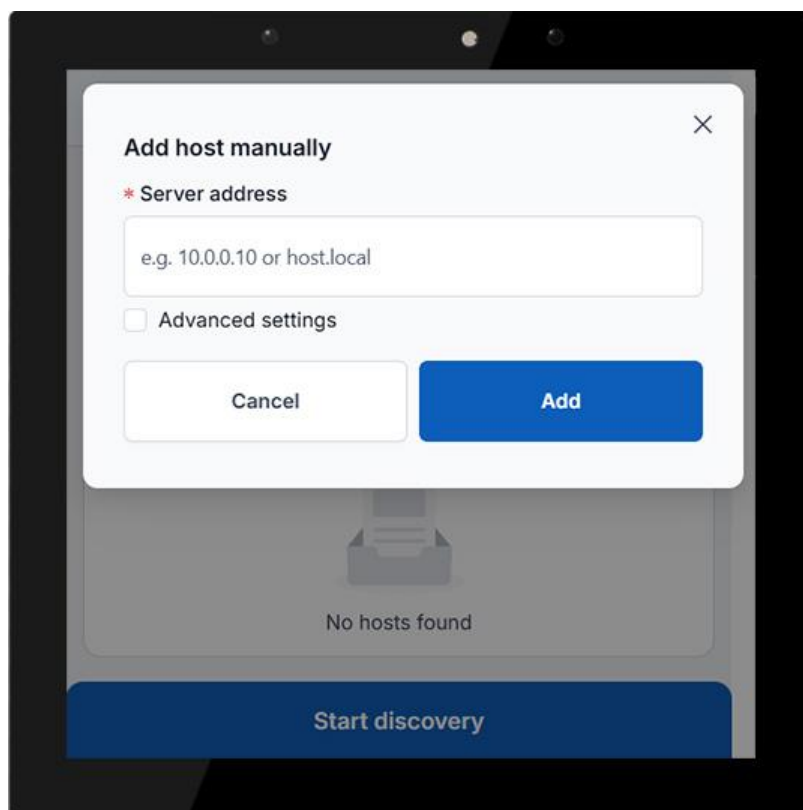
- In the same Discover IGLU settings window, select „**Add Manually**“
- Enter the IP address of the IGLU heat pump.

Finding the Heat Pump IP Address

- Open the IGLU local configurator: „ <http://iglu-heatpump-0000.local> “

(Replace the last four digits with the final digits of the heat pump's serial number.)

- Log in using your account credentials
- From the left-hand menu, select „**Wi-Fi Client**“
- The heat pump's IP address is displayed on the right side of the **Wi-Fi Client** section.



6. General Settings of the Control Display

The General Settings menu allows you to configure basic system and display options of the Control Display. The following settings are available:

- **Network Manager**– Connect the Control Display to a network and pair it with the IGLU Heat Pump.
- **Display Settings** – Adjust the screen brightness.
- **Time** – Select the time zone or enable NTP synchronization.
- **Language** – Select the Control Display language.
- **Device Information** – View general information about the Control Display.
- **Restart System** – Restart the Control Display.

6.1 Control Display Information

The „**Device Information**“ section in the Control Display settings provides general system information about the device. This information is intended for monitoring and service purposes and includes:

- Hostname
- System software version
- CPU temperature
- Storage usage
- RAM usage



CAUTION

If the **CPU temperature exceeds 80 °C**, or if **storage usage exceeds 90 %**, contact the **IGLU Service Team** for further assistance.



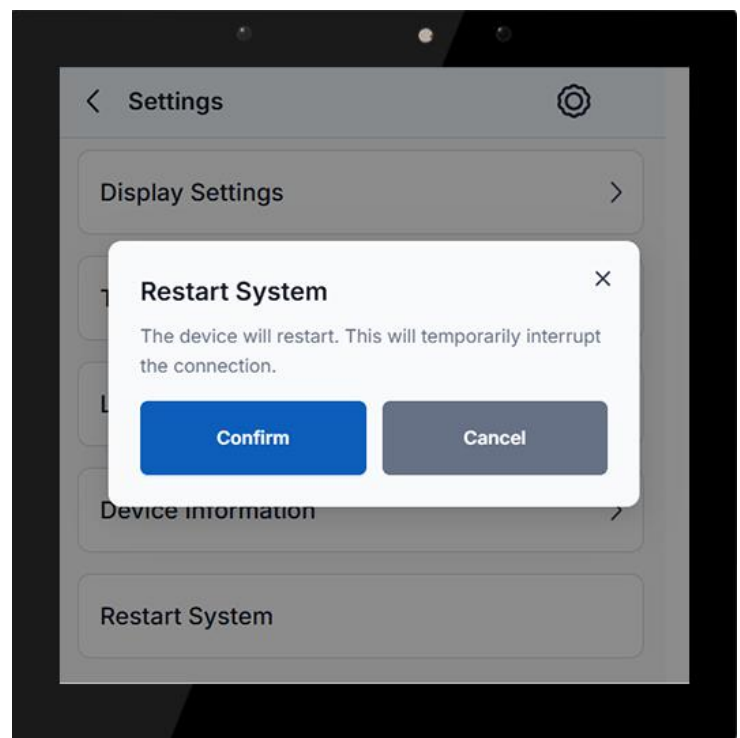
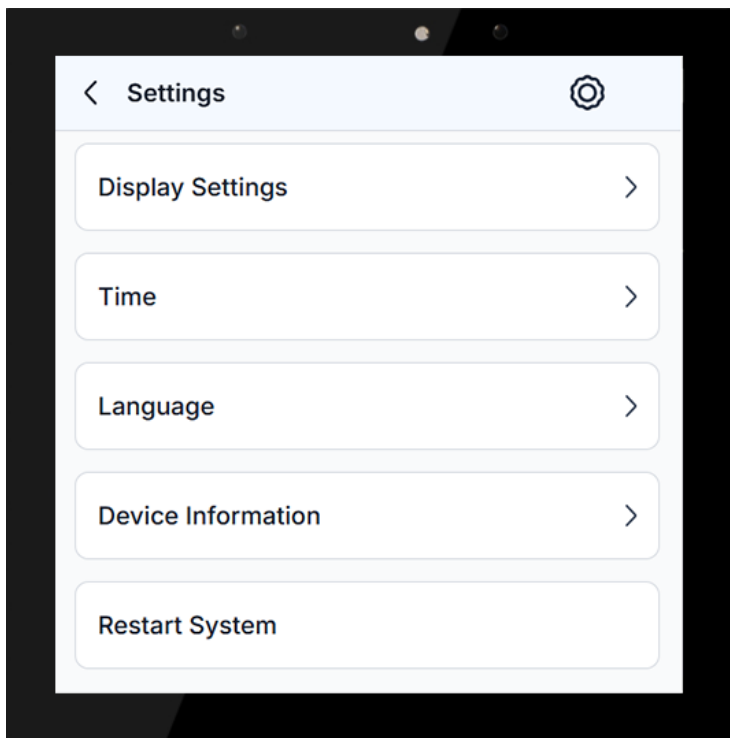
< Device information	
Hostname iglu-hmi-0ee6	System HMI
System Version 0.1.0~beta.7	UI version 0.1.0~beta.7
CPU temp 37°C	CPU usage 6.1%
Storage used 29.0%	Storage size 23.5 GB
RAM used 14.9%	RAM Total 1.9 GB

6.2 Control Display Restart

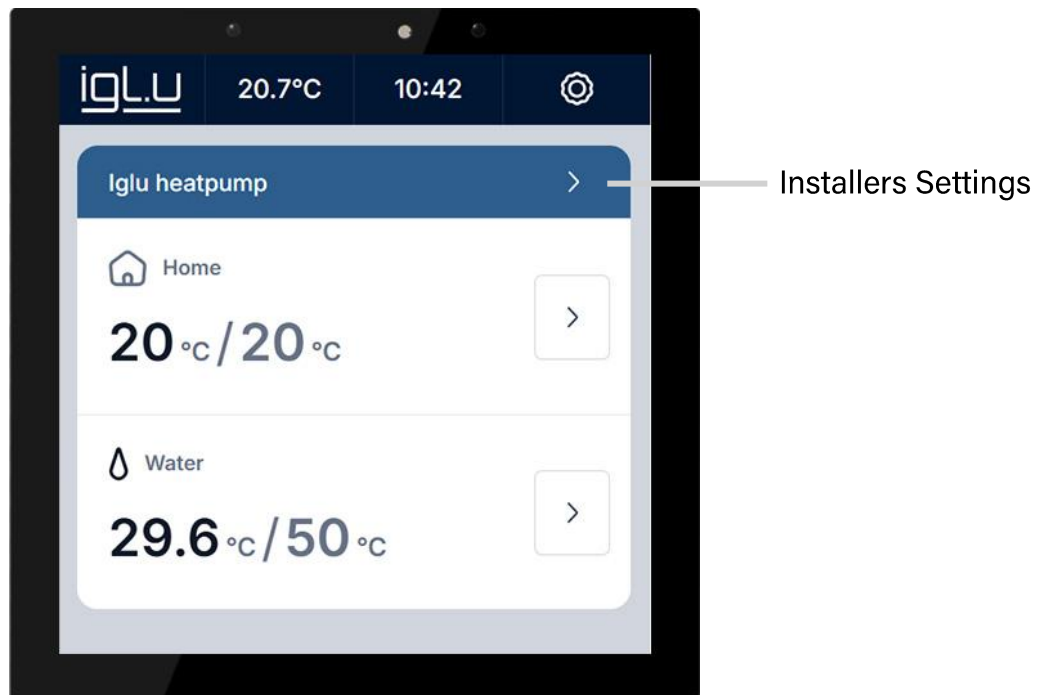
If, after successfully pairing the Control Display with the heat pump, the heat pump status does not appear on the main dashboard or if any interference, unresponsiveness, or irregular behavior is observed, you can use the „**Restart System**“ function.

Restarting the Control Display clears temporary communication or system issues. This can help restore proper operation without affecting any saved settings or the connection to the heat pump.

- Navigate to the General Settings of the Control Display, scroll down the setting menu and click „**Restart System**“
- Confirmation message will appear asking „ **Restart System?**“, click „**Confirm**“ to start rebooting.



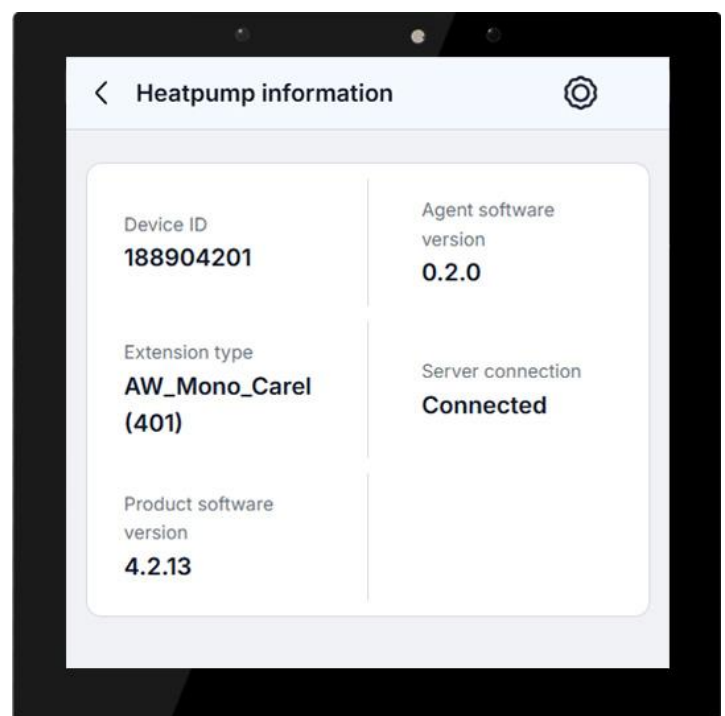
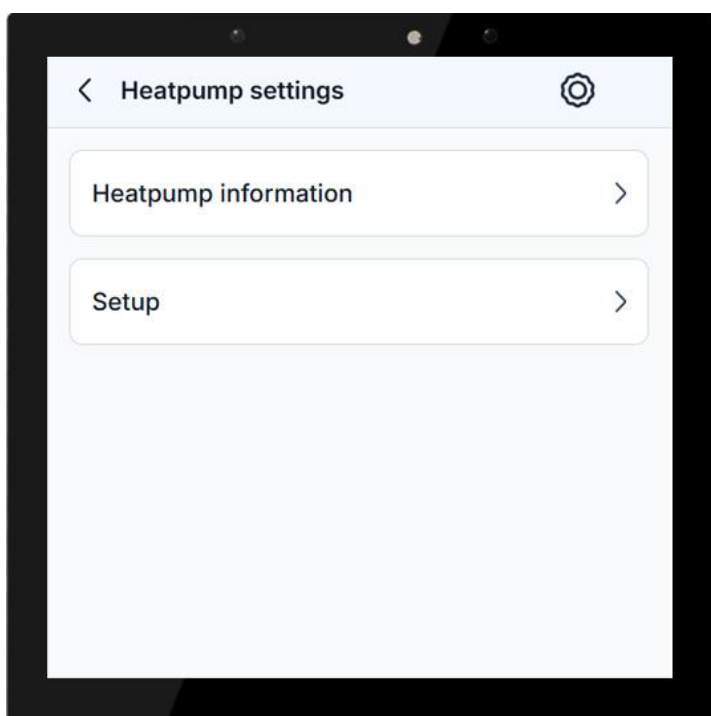
7. Installer Settings



Heat Pump Information

Within the **Installer Settings**, installers can view detailed information about the heat pump that is currently paired with the Control Display. The following information is available:

- **Device ID**– Displays the serial number of the connected heat pump.
- **Agent software version**– Indicates the software version of the heat pump's network board.
- **Extension type** – Shows the model designation of the connected heat pump.
- **Server Connection**– Displays the current operational status of the heat pump.
- **Product software version**– Indicates the software version of the heat pump's main controller.



7.1 Installer Startup Configuration of the Heat Pump

During initial commissioning of a new IGLU heat pump, the installer must complete the initial Startup Setup of the heat pump using either the Control Display (if installed) or the IGLU Service Tool. This setup is required before the heat pump can be started for the first time.

The „**Setup**“ function in the Installer Settings of the Control Display provides a guided startup questionnaire that allows the installer to configure essential system parameters directly on the device.

The startup questionnaire covers key configuration areas, including:

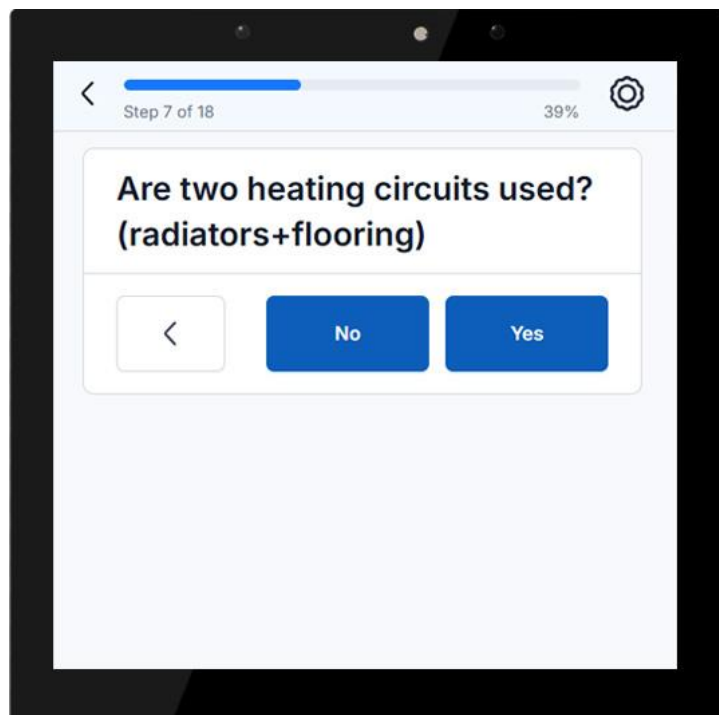
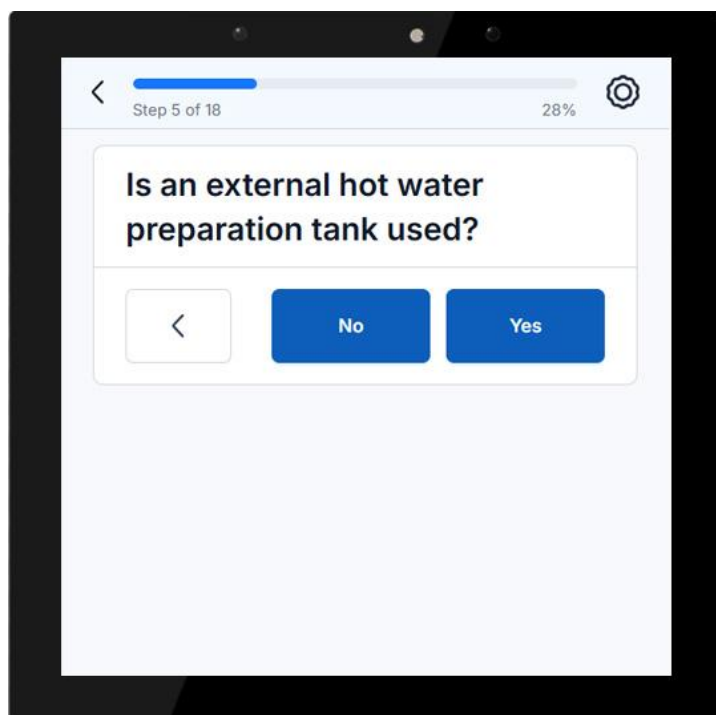
- Sensor and Temperature Measurement
- Heating System Configuration
- Hydraulic Components and Pumps
- Domestic Hot Water (DHW) Configuration
- Electrical and Power Settings

All questions are presented sequentially and must be completed to proceed with startup. Once finished, the heat pump automatically applies the selected configuration.



NOTE

- Final startup of the heat pump must be completed using the IGLU Service Tool.
- The Control Display supports configuration for initial commissioning only. Advanced system configuration, detailed parameter adjustment, and service-level functions must be performed using the IGLU Service Tool.



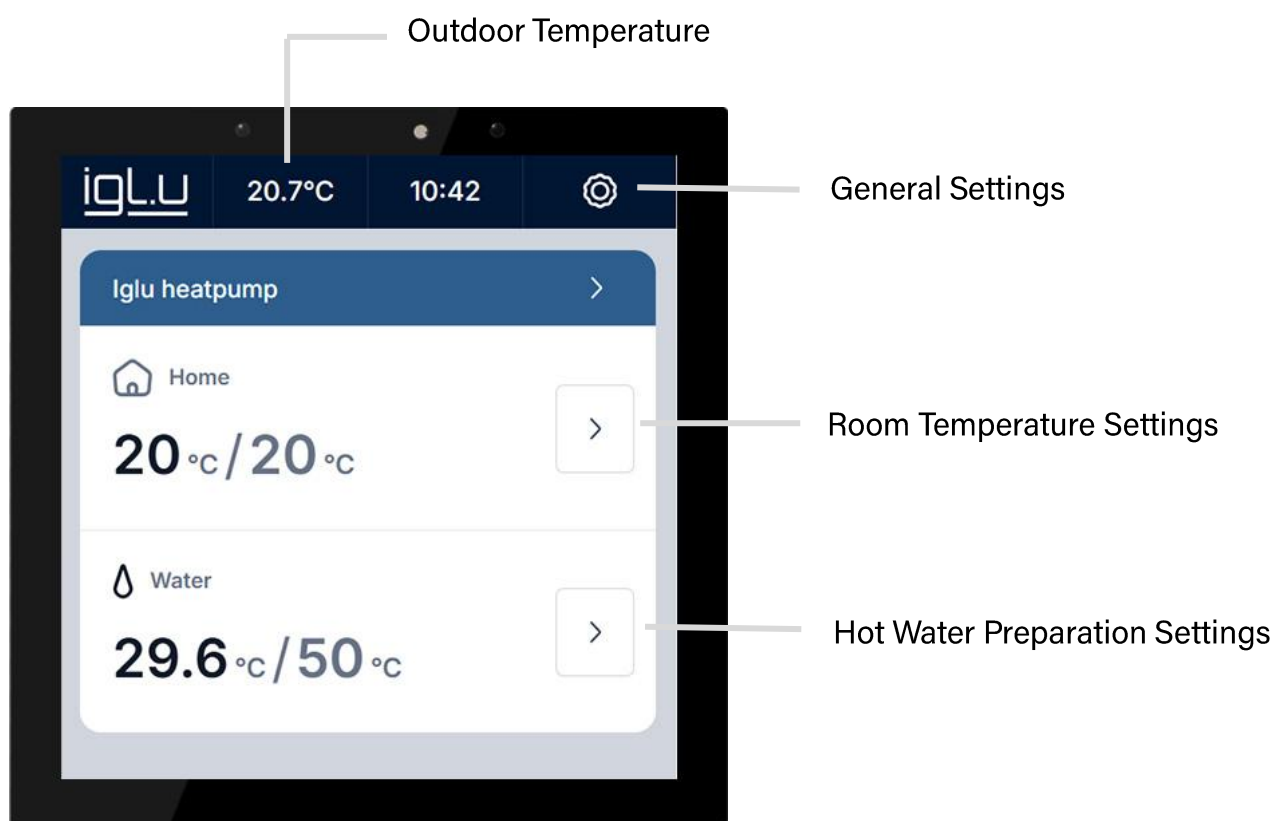


NOTE

The heat pump must be started by service personnel authorized by the manufacturer. Once commissioning is completed, the responsible service technician will fill out and sign the official start-up report.

8. Heat pump settings via Control Display

Through the control display, basic settings such as the heat pump operating status, room temperature, heating curve, heating mode, and domestic hot water temperature can be set or monitored. The functionality and behaviour of these basic settings are identical to those available in the “**IGLU Home Next**” app, where advanced configuration and operation are performed.



NOTE: In the main Control Display dashboard window each section (**Home** and **Water**) displays two temperature values in the format: Actual temperature / Setpoint temperature.



NOTE

Any heat pump settings changed on the Control Display will automatically synchronize and appear in the “**IGLU Home Next**” application, and vice versa.

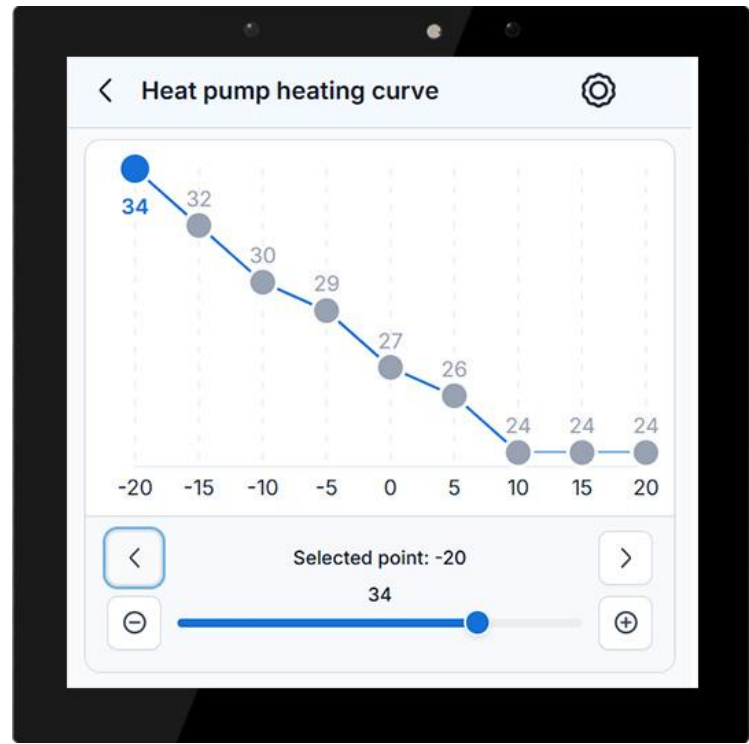
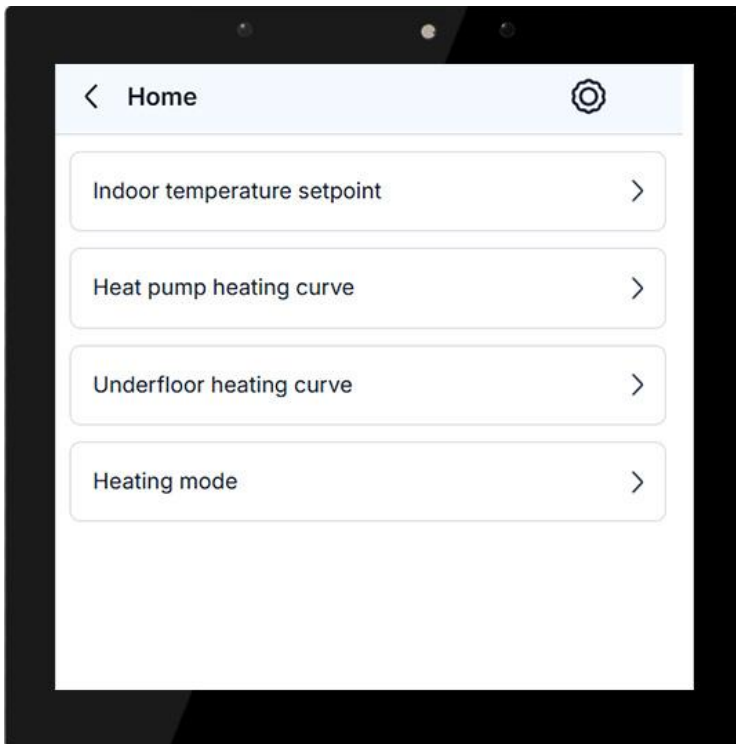
8.1 Heating Settings

The Heating settings menu on the Control Display provides access to the main heating-related settings of the heat pump. Within this menu, the following parameters can be viewed and adjusted:

- **Indoor Temperature Setpoint** – Set the desired indoor temperature.
- **Heat Pump Heating Curve / Underfloor Heating Curve** – adjust system supply water temperature according to the outdoor air temperature.
- **Heating Mode** – Select Heat pumps season mode: Auto, Winter, or Summer.

The operation and effect of these settings are identical to those available in the „**IGLU Home Next**“ app. Detailed descriptions and guidance for each parameter are provided in User manual of the Heat pump, the sections **“5.1 Heating Curve”** and **“5.3 Season Control”**

***“Summer”** Heating mode– Cooling settings are controlled via „**IGLU Home Next application**“



8.2 Domestic Hot Water Control

The Domestic Hot Water control menu on the Control Display allows users to view and adjust the main domestic hot water (DHW) settings of the heat pump. The following parameters are available:

- **DHW Temperature Setpoint** – Set the desired domestic hot water temperature.
- **DHW Produce** – Enable or disable domestic hot water production.
- **DHW Comfort Mode** – Enables domestic hot water preparation at a higher temperature to provide increased comfort.

When “**DHW Comfort Mode**” is activated, it overrides the selected DHW temperature setpoint. For example, if the DHW temperature setpoint is set to **30 °C**, enabling “DHW Comfort Mode” will heat the water to the Comfort temperature (up to **65 °C**), regardless of the setpoint.

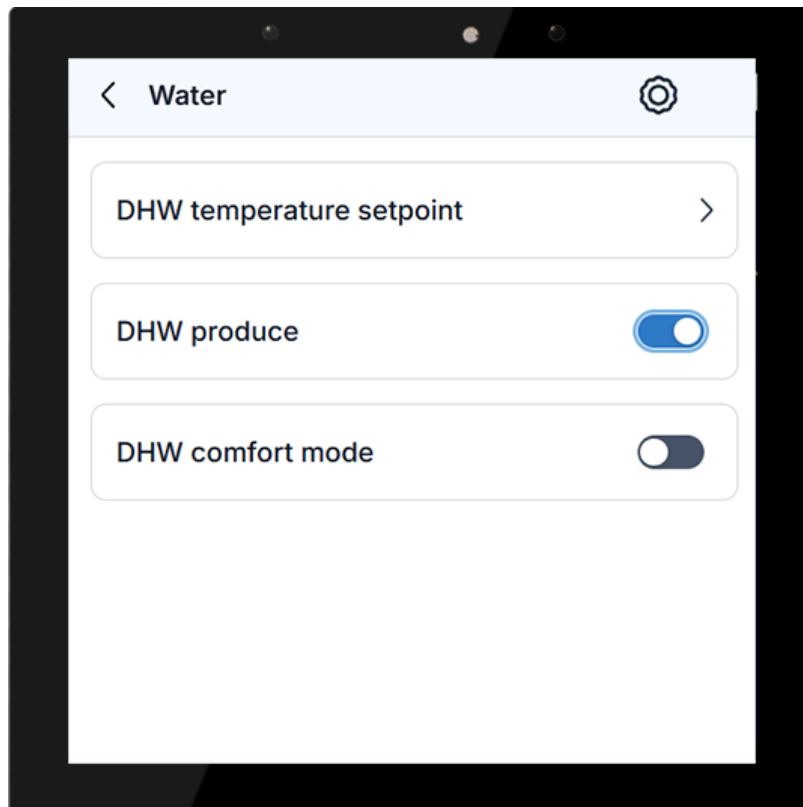


NOTE

Please note that for **IGLU Inuit** models, domestic hot water temperatures from **54 °C to 65 °C** are achieved with the help of the **backup heater**, which results in higher energy consumption.

For **IGLU Inuit Mono** models, the compressor alone can heat the water up to **65 °C**, without using the backup heater.

For **IGLU Aleut** modes, domestic hot water temperatures from **50°C to 65 °C** are achieved with the help of the backup heater.





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