

USER MANUAL

GEOTHERMAL HEAT PUMPS IGLU® Aleut





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THIS USER MANUAL APPLIES TO THE FOLLOWING HEAT PUMP MODELS



INTRODUCTION

Thank you for purchasing an IGLU® Aleut geothermal heat pump!

Our team hopes you will be satisfied with your new device and enjoy efficient heating, hot water and practically free cooling for a long time.

In this manual you will find information on how to use and maintain the purchased geothermal heat pump correctly. Keep this manual in a safe place for future reference.

IGLU® heat pumps are designed and selected for each facility to ensure maximum heating, cooling and hot water preparation in the building.

IGLU® heat pumps are equipped with a convenient control system that allows to control the functions of the heat pump, select individual settings and help to quickly find and eliminate faults. The device can also be controlled via a mobile application. All you have to do is download the user-friendly **IGLU®** Home app (see, page 8).

It is important to pay attention to the safety requirements that must be observed in order not prevent injuries and enjoy the device for a long time.

CONCEPTS AND SYMBOLS

Water heater (boiler) is a device that performs a very important function - it prepares hot water.

Thermal disinfection (thermal shock) is a process in which the temperature of hot water in a water heater is raised to at least 66°C and maintained for at least 1 hour. Thermal disinfection is used to prevent legionellosis, i.e., to kill bacteria of the genus Legionella.

Glycol (heat carrier) - antifreeze that is used to fill up the heating system (outdoor circuit).

Heating water is a liquid harmless to the environment and health that is used to fill the indoor part of the heating system (internal circuit).

Outdoor circuit is a part of a geothermal heating/cooling system located in the ground for the collection/transmission of underground thermal energy. It can be horizontal or vertical (geothermal wells).

COP – coefficient of performance. The instantaneous ratio of thermal energy produced to electricity consumed to produce that heat.

SCOP – seasonal coefficient of performance.

Electricity consumption – electricity consumption during the operation of the heat pump.

Thermal energy produced – heat energy produced during the operation of a heat pump.

WARNING!" SYMBOL

Warning of minor heating system faults or parameter deviations. Errors are not critical, the system can continue to operate.

ATTENTION!" SYMBOL

System failure warning. The heat pump is stopped.



IMPORTANT INFORMATION

The safety requirements are intended to protect consumers and ensure the long-term operation of the heat pump. By purchasing the device, users confirm that they undertake to use it in accordance with the manufacturer's requirements and rules. Users involved in the operation of the heat pump must be familiar with and comply with all safety requirements. Failure to follow these operating instructions will void the manufacturer's warranty and other guarantees and obligations. All work related to the transport, installation, start-up, activation and maintenance of the heat pump must be carried out by qualified personnel, using suitable tools and test equipment. The work must be carried out in accordance with all safety requirements.

The copyright of these operating instructions belongs to IGLU TECH UAB.

Only a qualified person may transport, connect, activate and maintain the heat pump.

SAFETY INSTRUCTIONS

Storage conditions

The device must be stored in a vertical position only, so that the compressor is always at the bottom.

Installation and reconstruction

Only a heating system maintenance company may be authorised to install or reconstruct the device.

Customer recommendation

Functional check. We recommend that you check the functioning of the device regularly, at least once a year*. Contact us for functionality check by e-mail **help@iglutech.eu**. The extended warranty for the device is valid even in cases where preventive maintenance is not performed regularly.

Liability and guarantees:

The manufacturer undertakes to rectify the device free of charge within a period of two years, provided that the user has not violated the technical requirements and operating conditions specified in the user manual. The product has a 24-month warranty upon submission of the purchase documents.

The product warranty is extended up to 60 months, under the following mandatory conditions:

- there is an additional cost of 5% of the pump price (payable immediately at the time of ordering);
- it is mandatory to connect the pump to our server for remote monitoring.

If the heat pump 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 heat pump 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 user 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.



SAFETY

The device is safe to use as intended. The construction and design of the device comply with all safety regulations. Prior to starting work, any person involved must read and be familiarised with the operating instructions. This also applies if the person concerned has already worked on such or similar equipment or has been trained by the manufacturer. Any person carrying out installation work must meet the health and safety requirements. This is especially true when using personal protective equipment.



DANGER!

Danger of fatal injuries due to electric shock! The electrical connection may only be installed by a qualified electrician. Prior to opening the device, disconnect the system from the power supply and prevent it from being switched on again!



WARNING!

Work on the device and its components may only be carried out by qualified specialists (heating, refrigeration, coolant technicians and electricians).



WARNING!

Observe the safety signs on and inside the device.



WARNING!

The unit contains coolant! If the coolant leaks, it poses risk to people and the environment, therefore, you must:

- turn off the system;
- make sure the installation room is well ventilated;
- inform the manufacturer's customer service.

ATTENTION!

For safety reasons, never open the device unless the device is disconnect from the power supply.

Do not use pure water in the outdoor circuit.

ENVIRONMENTAL PROTECTION

Environmental protection is a priority of IGLU TECH UAB. Product quality, cost-efficiency and environmental protection are equally important to us. Therefore, we strictly adhere to environmental requirements. In order to protect the environment and take into account financial possibilities, we use the best technologies and materials in our production.

Packaging. When designing packaging, we take into account the countries' local waste recycling systems, which ensure optimal reuse. All packaging materials are environmentally friendly and recyclable.

Disposal. Obsolete devices contain recyclable materials. The structural elements can be easily disassembled. The structural elements must be sorted for processing and recycling.

Glycol (antifreeze mixture) should not be discarded into the drains. Collect glycol and dispose of properly in accordance with applicable regulations, standards and directives.



IN CASE OF FAILURE

If the illuminated IGLU® logo on the front panel or the IGLU® Home mobile application reports system errors *(see, page 8)*, please contact us immediately and report any error by specifying:

- date of purchase of the device;
- error that occurred;
- environmental conditions (indoor and hot water tank temperature).

You can register a heat pump fault by e-mail help@iglutech.eu, by calling +370 523 94949 or on our website here.

IGLU TECH UAB CUSTOMER SERVICE CONTACTS

E-mail: help@iglutech.eu Tel.: +370 523 94949

PURPOSE

Geothermal heating is an alternative building heating system that uses free, underground heat. With the help of a ground-to-water heat pump, this geothermal energy is extracted and used for heating, cooling and hot water preparation in buildings.

Advantages of IGLU® Aleut heat pumps

- Uses inexhaustible and ecological underground energy
- · Next-generation technologies and solutions ensure maximum efficiency and minimum cost
- One device performs three functions room heating, cooling and hot water preparation
- · Comfort at home can be controlled from anywhere in the world

HOW DOES A GEOTHERMAL HEAT PUMP WORK?

The principle of operation of a geothermal heat pump is similar to that of a refrigerator. Only in this case cold output is directed outdoor or into soil, and the heat to the household.

The liquid (glycol) circulating in the outdoor circuit is heated by the heat accumulated in the ground, lake or groundwater. As it flows through the heat pump, the liquid enters another closed system. It contains a coolant called freon (refrigerant), which turns into gas at very low temperatures. The high-pressure compressor greatly increases the temperature of the gaseous freon. The condenser supplies heat to the home heating system and at the same time the freon becomes liquid again, ready to transform into gas again and store more thermal energy.

PRODUCT PACKAGING AND TRANSPORTATION

IMPORTANT! After purchasing a heat pump:

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

The heat pump may only be transported and stored in an upright position. The device can only be temporarily tilted, not laid down. The device can be stored at a temperature no lower than -10°C.



SELECTION OF THE INSTALLATION PLACE

- When choosing the place of installation of the heat pump, mind that the heat pump produces a certain level of noise (see, "Technical data according to European Commission Regulation No 813/2013").
- The device must be mounted on a flat and stationary surface with a permissible load of at least 300 kg/m². Minor surface irregularities can be compensated by adjusting the feet of the device.
- The ambient temperature near the heat pump must be between 10°C and 35°C, and the relative humidity must not exceed 80%.
- There must be no aggressive chemicals in the environment.
- The heat pump should not be installed close to walls; the front of the unit should always be accessible (see, Installation Manual "Heat pump installation drawing").
- A drainage system must be provided in the room where the unit is installed.

LOGO ILLUMINATION

The IGLU® Aleut heat pump has an illuminated IGLU® logo on the front panel. The logo can be illuminated in three different colours – blue, yellow or red. Each of them has a corresponding meaning:

- **blue** heat pump on, normal operation;
- **yellow** warning about non-critical failure of the heat pump or slight deviation of parameters from the norm; the heat pump continues to operate, but it is necessary to react promptly, within a reasonable period of time;
- **red** heat pump failure, operation is stopped.



IGLU® HOME MOBILE APPLICATION



IGLU® Aleut geothermal heat pumps are controlled via the IGLU® Home app. It allows to control the device and monitor the operating parameters of the heating system, electricity consumption, thermal energy produced and instantaneous or seasonal coefficient of performance in real time.



INSTALLATION OF THE APPLICATION

Download and install the IGLU® Home app.

The iOS version is available here.

The Android version is available here.

You can also download the app by scanning the QR codes on page 8.







App Store

Google Play

LOGIN AND REGISTRATION

When you open the IGLU® Home app for the first time, you will need to log in or register by clicking the Login or Register buttons (Window 1).

When the registration window opens, enter the following information (Window 2):

- Name: •
- Surname:
- Phone number;
- E-mail address: •
- Password.

Please also read the **Privacy Policy** and indicate that you agree to the terms specified.

To complete the registration, click the button:



When the login window opens, enter the following information (Window 3):

- E-mail address:
- Password. •

You can log in by clicking the button:



If you forgot your password, click Remind password.

ADDING A NEW DEVICE

Upon successful registration, you will be directed to the Add New Device window (Window 4), where you need to:

- Enter the address of installation of the heat pump; •
- Give the device a name to make it easier to distinguish between the devices in use; •
- Enter the serial number according to the scanned QR code (you will find the QR code on the device). •





Window 1

Window 2



Window 3



After entering this information, click "Add a device".

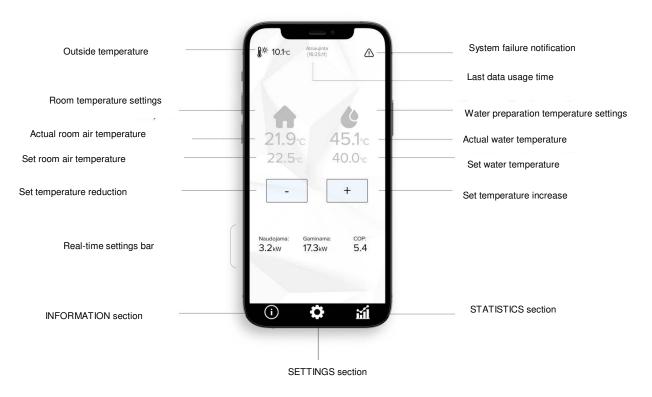
MAIN APPLICATION WINDOW

When you log in to the application, you will see the following information at the top of the main window:

- outside temperature;
- last data update time (data is automatically updated every 10 seconds); data can also be updated manually by swiping a finger from top to bottom;
- system error and failure notifications.

In the real-time settings bar, you will see:

- how much kW of electricity is being used;
- how much kW of heat energy is being produced;
- what is the coefficient of performance (COP) (the ratio of thermal energy produced to electricity consumed to produce that heat).





IMPORTANT!

The IGLU® Home application is supported by the latest versions of iOS and Android OS, but may not work properly with some mobile phone models. E.g.: OnePlus, Xiaomi. This list is not exhaustive.



TEMPERATURES SETTINGS

In the main window you can set the desired room air and hot water temperatures *(Window 5)*. This is carried out at follows:

- by clicking on one of the symbols, the settings of which you want to change (the activated function turns blue);
- use +/- buttons to increase or decrease the indoor air or hot water temperature;
- the numbers above indicate the current temperature and the numbers below indicate the set temperature (set for the system);
- the settings can be "locked" by clicking on the symbol again.

SYSTEM ERROR AND FAILURE INDICATIONS

If the symbol in the right corner of the main window is flashing \triangle or \square - the system indicates a system error or fault. In the event of a system fault (bright triangle), the heat pump will continue to operate, but every effort should be made to rectify the fault. In the event of a system fault (dark triangle), the heat pump operation will stop.

By clicking on the flashing symbol you will be redirected to the **Active Messages** window *(Window 6)*, where you will see a list of system errors and faults. The full list of the meanings of these messages and possible causes is provided below, as well as instructions on the actions the user should take.

When a non-critical issue is resolved, the error message disappears automatically (without confirmation). After of elimination of other errors or a system failure, they can only be confirmed from the local control panel. See, section Control Panel on page 16. The fault is confirmed by pressing the Report button on the control panel for >4 seconds.



Window 5



Window 6



LIST OF SYSTEM ERRORS AND FAULTS

ITEM	POSSIBLE CAUSE	ACTION		
Incoming glycol	Temperature sensor or connection	Contact customer service.		
temperature sensor	failure.	When the problem is resolved, the error disappears automatically.		
Outgoing glycol	Temperature sensor or connection	Contact customer service.		
temperature sensor	failure.	When the problem is resolved, the error disappears automatically.		
Outgoing heating	Temperature sensor or connection	Contact customer service.		
water temperature sensor	failure.	When the problem is resolved, the error disappears automatically.		
Incoming heating	Temperature sensor or connection	Contact customer service.		
water temperature sensor	failure.	When the problem is resolved, the error disappears automatically.		
Water heater	Temperature sensor or connection	Contact customer service.		
temperature sensor	failure.	When the problem is resolved, the error disappears automatically.		
Room temperature	Temperature sensor or connection	Contact customer service.		
sensor	failure.	When the problem is resolved, the error disappears automatically.		
Outdoor temperature	Temperature sensor or connection	Contact customer service.		
sensor	failure.	When the problem is resolved, the error disappears automatically.		
LP low pressure	Low refrigerant pressure during operation.	Clean the outdoor circuit filter. Check that the outdoor circuit pump is operating properly. Check for air in the outdoor circuit system. Possible freon deficiency.		
Low glycol flow in the outdoor circuit.		Check the heating water pressure in the outdoor circuit, rate 1-2 bar. Clean the dirt trap. If the problem persists, contact customer service.		
HP high pressure	High refrigerant pressure during operation.	Clean the internal circuit filter. Check that the internal circuit pump is operating properly. Check for air in the internal circuit system.		
	Low heating water flow in the internal circuit.	Check the heating water pressure in the internal circuit, rate 1-2 bar. Clean the dirt trap. If the problem persists, contact customer service.		
Compressor thermal protection	Overvoltage, low voltage.	Contact customer service.		



Voltage and phase control	Bad phase sequence. One or two phases are missing.	When the problem is resolved, the error disappears automatically.
Hot water preparation time too long	Three-way valve failure.	Contact customer service.
Large temperature	Low glycol flow in the outdoor circuit.	Clean the outdoor circuit filter.
difference in the outdoor circuit		If the problem persists, contact customer service.
Large temperature difference in the	Low heating water flow in the internal circuit.	Clean the internal circuit filter.
internal circuit		If the problem persists, contact customer service.
Tank temperature sensor	Temperature sensor or connection failure.	Contact customer service.
Selisoi		When the problem is resolved, the error disappears automatically.
Communication between controllers	Control unit failure.	Contact customer service.
Low pressure sensor	Pressure sensor failure.	Contact customer service.
High pressure sensor	Pressure sensor failure.	Contact customer service.
Exhaust temperature sensor	Temperature sensor failure.	Contact customer service.
Valve controller failure	Control unit failure.	Contact customer service.
Solar collector sensor	Sensor or connection failure.	Contact customer service.
		When the problem is resolved, the error disappears automatically.
Valve configuration	Incorrect EEV valve configuration.	Contact customer service.



FC not readyThe frequency converter is not ready for operation. E.g., oil return to the is resolved, the error disappears automatically.External alarmExternal failure (D)I. If its provided from an external signal.Eliminate the external fault signal.Possible refrigerant leakagePossible refrigerant leakage. Blocking of the outdoor circuit circulation pump (jamming).Contact customer service.Blocking of the outdoor circuit circulation pump (jamming).Electrical failure of the outdoor circuit circulation pump (iamming).Contact customer service.High temperature in the outdoor circuit circulation pump (iamming).If the operating mode was extreme: after switching of the heat pump, wait for the outdoor circuit circulation pump.Operation failure of the outdoor circuit circulation pumpOperation failure of the outdoor circuit circulation pump.Contact customer service.Operation failure of the outdoor circuit circulation pump.Blocking of the internal circuit circulation pump.Contact customer service.Operation failure of the outdoor circuit circulation pump.Blocking of the internal circuit circulation pump.Contact customer service.Operation failure of the internal circuit circulation pump.Blocking of the internal circuit circulation pump.Contact customer service.Operation failure of the the outdoor circuit circulation pump.Blocking of the internal circuit circulation pump.Contact customer service.Operation failure of the internal circuit circulation pump.Blocking of the internal circuit circulation pump. <t< th=""><th></th><th></th><th></th></t<>			
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Internal circuit circulating pump power measurement failure	Fault in the power measurement chain of the internal circuit's circulating pump.	Contact customer service.
Outdoor circuit circulating pump power measurement failure	Fault in the power measurement chain of the outdoor circuit's circulating pump.	Contact customer service.
Compressor frequency converter failure	Compressor frequency converter failure. Details are displayed on the frequency converter screen.	Contact customer service.
Internal circuit flow sensor failure	Internal circuit pressure sensor is defective.	Contact customer service.
Failure of analogue measurement from frequency converter	Measurement failure of the frequency converter's power measurement circuit.	Contact customer service.

INFORMATION SECTION

Clicking on the **Information** icon on the bottom bar will take you to the information window (*Window 7*) where you can:

- register system failure;
- visit the manufacturer's website;
- access this User Manual.

SETTINGS SECTION

Clicking on the **Settings** icon on the bottom bar will take you to the **System** window *(Window 8)*, where you will see:

- the name of the currently selected device;
- water heater settings;
- system status;
- disconnect function.

You can move to the next window by pressing "<" and return by pressing ">".

After selecting **My Device**, in the window that opens (*Window 9*) you can:

- see the name of the currently selected device and select another device from the list of devices;
- see information related to the device (serial number, name, address at which the heat pump is installed);
- edit the information of the selected device;
- add new device.

Clicking the **Edit Selection** button will take you to the device edit window *(Window 10)* where you can update:



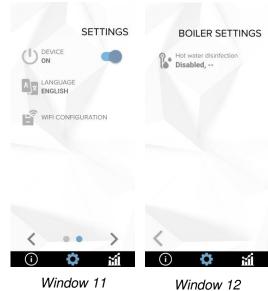


- device address;
- name of the device.

After making adjustments, click the **Save** button.

In the **SETTINGS** section, clicking the ">" button will take you to an additional window *(Window 11)* where you can:

- turn the device on/off;
- change the language of the IGLU® Home app.





THERMAL DISINFECTION

When a water heater is installed in the system and an electric heating element is integrated, the system periodically performs thermal disinfection. In the water heater settings window *(Window 12)* you can see information on the time of the next thermal disinfection.

Clicking the **Thermal Disinfection** takes you to the disinfection time setting window *(Window 13)*, where you can select the desired disinfection time.

In the **Disinfection Time** window, you can select:

- the day of the week or days when you want the water heater to be disinfected;
- the time you want the water heater to be disinfected.

After selecting the days of the week and the preferred time, click **Set**.

SYSTEM STATUS

In the **System Status** window *(Window 14)* you can see the device settings, such as:

- temperature of the glycol delivered to the ground;
- temperature of the glycol returning from the ground;
- temperature of the supplied heating water;
- temperature of the returning heating water.

STATISTICS SECTION

Clicking the **Chart** icon on the bottom bar will take you to the **Statistics**. **Home heating**, *(Window 15)* where you will see daily, weekly, monthly or yearly energy consumption statistics, heat production statistics and coefficient of performance.

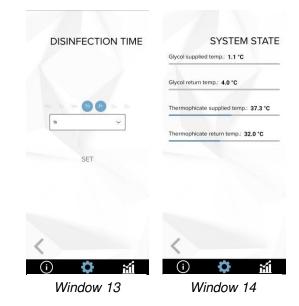
IMPORTANT! When you select the annual statistics view, you will see the **seasonal coefficient of performance** (SCOP) below the graph.

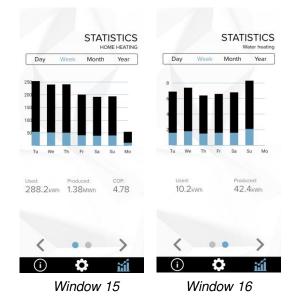
The blue bar shows how many kilowatt-hours of electricity were consumed during the selected period, and black – the number of kilowatt-hours of heat produced. Click on a column to see its exact value.

Pressing ">" will take you to the water heating statistics window.

In the window "Statistics. Water heating." (Window 16) you can see daily, weekly, monthly or yearly energy consumption and heat production statistics.

The blue bar shows how many kilowatt-hours of electricity were consumed during the selected period, and black – the number of kilowatt-hours of heat produced. Click on a column to see its exact value.







CONTROL PANEL

The control panel comes with the IGLU® Aleut heat pump.

The main panel window (Window 1) displays:

- outside temperature;
- water temperature;
- set room air temperature.

You can also see if there are active system alerts or faults. If the **WARNING!** symbol appears in the main panel window, click the icon to view the messages. Follow the instructions in the "List of system errors and warnings" table.

After rectifying the system error or fault, confirm it with the Report button on the control panel by holding it for > 4 seconds (Windows 3 and 4)

Clicking on the IGLU logo at the bottom in the main window *(Window 1)* will take you to the device status window *(Window 2)*.

In the device status window (Window 2) you can:

- turn the device off or on;
- activate the cooling function;
- set the heating mode;
- determine the time of thermal disinfection.

Navigation between windows in the control panel is performed using the "<" and ">" buttons.

In the heating mode window (*Window 5*) you can select one of the 2 automatic heating modes:

- economical (holiday) hot water is not prepared and the temperature in the rooms is maintained at 14 °C;
- comfort hot water temperature in models with integrated water heater is increased to 65 °C (if an electric heating

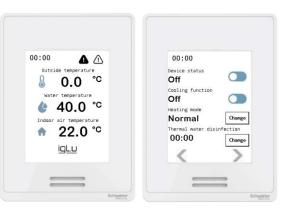
element is integrated). If there is no electric heating element, the hot water temperature is increased to the

maximum permissible temperature. It depends on the installed water heater capacity and technical characteristics.

and change the operating mode to:

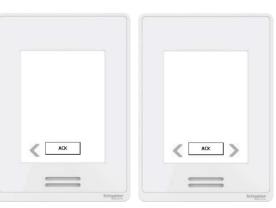
- automatic operation the mode is set automatically to summer or winter according to the outdoor temperature;
- summer operation only hot water is prepared automatically;
- winter operation rooms are heated automatically and higher priority is given to preparation of hot water.

In the water temperature window (Window 6) you can:



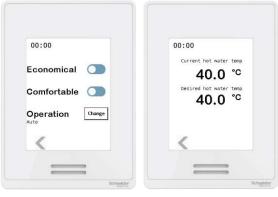
Window 1

Window 2



Window 3

Window 4



Window 5

Window 6



- see the current hot water temperature;
- set the preferred hot water temperature.

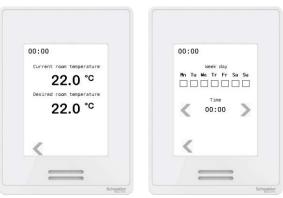
In the room temperature window (Window 7) you can:

- see the current room temperature;
- set the preferred room temperature.
- In the thermal water disinfection setting window (*Window 8*) you can select:
- day or days of the week on which the disinfection will be carried out;
- time at which disinfection will take place.

In the system window *(Window 9)*, select the language of the operator panel.

In the settings window (Window 10) you can see:

- exhaust temperature;
- temperature supplied by glycol;
- glycol return temperature;
- condensation;
- temperature of the supplied heating water;
- exhaust pressure;
- water heater temperature;
- temperature of the returning heating water.



Window 7

Window 8

00:00	00:00
System View	Suction temp. 0.
	Suction pressure 0.
Language	Glycol IN temp. 0.
EN	Glycol OUT temp. 0. Thermophicate IN temp. 0.
	Thermophicate OUT temp 0.
	Boiler temp. 0.
	Condensation 0.
<	<

Window 9

Window 10



Technical data of IGLU ® Aleut fixed capacity heat pumps

				· · ·	· · · · · · · · · · · · · · · · · · ·	
Units	5 kW	7 kW	9 kW	11 kW	13 kW	16 kW
			_			
kW	5,24	7,25	9,22	10,95	13,07	15,45
kW	4,89	6,85	8,67	9,98	12,30	14,75
kW	4,67	6,46	8,22	9,76	11,65	13,77
-	4,37	4,42	4,45	4,52	4,54	4,46
-	3,37	3,42	3,47	3,41	3,47	3,52
-	2,66	2,69	2,70	2,75	2,76	2,71
-	5,55	5,66	5,72	5,86	5,77	5,77
-	4,14	4,22	4,26	4,37	4,3	4,3
-	3,99	4,07	4,11	4,22	4,15	4,15
	· ·	1	1 -	-		· ·
m³/h	1,50	2,0	2,50	3,00	3,50	4,0
kPa	73	80	89	70	55	52
bar				4		
			5			6
°C			from	-10 to +20		
mm				28		
			Spiral "Scro	oll"		
kg	1,20	1,30	1,35	1,40	1,50	1,50
bar		· · · ·		30	-	
m³/h	1,00	1,50	2,00	2,00	2,20	2,20
°C				15		•
°C				65		
bar				4,0		
mm				28		
			3/N/PE	400V/ 50Hz		
А	10/16/20	16/16/20	16/20/25	16/25/25	20/25/32	20/25/32
kW	1,19	1,64	2,06	2,56	3,06	3,46
Α	4,10	5,20	6,80	8,23	10,10	11,8
IP				IP20		
°C			from	+10 to +35		
dBA			42			45
mm			600 x	600 x 1100		
kg	102	110	115	130	135	145
	for hot wate	er boiler:				
kW					m ²	
				< 2,5		
	kW kW kW kW kW kW kW kW kPa bar l %C mm kg bar kg bar kg bar mm C ms*/h %C bar kg bar mm %C bar mm %C bar mm %C A IP %C dBA mm	kW 5,24 kW 4,89 kW 4,67 - 4,37 - 3,37 - 2,66 - 5,55 - 4,14 - 3,99 m³/h 1,50 kPa 73 bar - l - %Pa 73 bar - l - %C - m³/h 1,00 °C - bar - m³/h 1,00 °C - bar - ms /h 1,00 °C - bar - mm - A 10/16/20 kW 1,19 A 4,10 IP - °C - dBA - mm - <td< td=""><td>kW 5,24 7,25 kW 4,89 6,85 kW 4,67 6,46 - 4,37 4,42 - 3,37 3,42 - 2,66 2,69 - 5,55 5,66 - 4,14 4,22 - 3,99 4,07 m³/h 1,50 2,0 kPa 73 80 bar </td><td>kW 5,24 7,25 9,22 kW 4,89 6,85 8,67 kW 4,67 6,46 8,22 - 4,37 4,42 4,45 - 3,37 3,42 3,47 - 2,66 2,69 2,70 - 5,55 5,66 5,72 - 4,14 4,22 4,26 - 3,99 4,07 4,11 m³/h 1,50 2,0 2,50 kPa 73 80 89 bar - - 5 °C from - - m³/h 1,00 1,50 2,00 °C - - - - mm - - - - bar - - - - 'C - - - - 'C - - - - <t< td=""><td>kW 5,24 7,25 9,22 10,95 kW 4,89 6,85 8,67 9,98 kW 4,67 6,46 8,22 9,76 - 4,37 4,42 4,45 4,52 - 3,37 3,42 3,47 3,41 - 2,66 2,69 2,70 2,75 - 5,55 5,66 5,72 5,86 - 4,14 4,22 4,26 4,37 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 73 80 89 70 bar - 4 1 5 6 ''' Kg 1,20 1,30 1,35 1,40 bar - - 65 5 5</td><td>kW 5,24 7,25 9,22 10,95 13,07 kW 4,89 6,85 8,67 9,98 12,30 kW 4,67 6,46 8,22 9,76 11,65 - 4,37 4,42 4,45 4,52 4,54 - 3,37 3,42 3,47 3,41 3,47 - 2,66 2,69 2,70 2,75 2,76 - 5,55 5,66 5,72 5,86 5,77 - 4,14 4,22 4,26 4,37 4,3 - 3,99 4,07 4,11 4,22 4,15 mm/h 1,50 2,0 2,50 3,00 3,50 bar 4 1 5 5 5 5 bar 4 1 5 5 5 5 bar 73 80 89 70 55 bar 4 1 1 5</td></t<></td></td<>	kW 5,24 7,25 kW 4,89 6,85 kW 4,67 6,46 - 4,37 4,42 - 3,37 3,42 - 2,66 2,69 - 5,55 5,66 - 4,14 4,22 - 3,99 4,07 m³/h 1,50 2,0 kPa 73 80 bar	kW 5,24 7,25 9,22 kW 4,89 6,85 8,67 kW 4,67 6,46 8,22 - 4,37 4,42 4,45 - 3,37 3,42 3,47 - 2,66 2,69 2,70 - 5,55 5,66 5,72 - 4,14 4,22 4,26 - 3,99 4,07 4,11 m³/h 1,50 2,0 2,50 kPa 73 80 89 bar - - 5 °C from - - m³/h 1,00 1,50 2,00 °C - - - - mm - - - - bar - - - - 'C - - - - 'C - - - - <t< td=""><td>kW 5,24 7,25 9,22 10,95 kW 4,89 6,85 8,67 9,98 kW 4,67 6,46 8,22 9,76 - 4,37 4,42 4,45 4,52 - 3,37 3,42 3,47 3,41 - 2,66 2,69 2,70 2,75 - 5,55 5,66 5,72 5,86 - 4,14 4,22 4,26 4,37 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 73 80 89 70 bar - 4 1 5 6 ''' Kg 1,20 1,30 1,35 1,40 bar - - 65 5 5</td><td>kW 5,24 7,25 9,22 10,95 13,07 kW 4,89 6,85 8,67 9,98 12,30 kW 4,67 6,46 8,22 9,76 11,65 - 4,37 4,42 4,45 4,52 4,54 - 3,37 3,42 3,47 3,41 3,47 - 2,66 2,69 2,70 2,75 2,76 - 5,55 5,66 5,72 5,86 5,77 - 4,14 4,22 4,26 4,37 4,3 - 3,99 4,07 4,11 4,22 4,15 mm/h 1,50 2,0 2,50 3,00 3,50 bar 4 1 5 5 5 5 bar 4 1 5 5 5 5 bar 73 80 89 70 55 bar 4 1 1 5</td></t<>	kW 5,24 7,25 9,22 10,95 kW 4,89 6,85 8,67 9,98 kW 4,67 6,46 8,22 9,76 - 4,37 4,42 4,45 4,52 - 3,37 3,42 3,47 3,41 - 2,66 2,69 2,70 2,75 - 5,55 5,66 5,72 5,86 - 4,14 4,22 4,26 4,37 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 3,99 4,07 4,11 4,22 - 73 80 89 70 bar - 4 1 5 6 ''' Kg 1,20 1,30 1,35 1,40 bar - - 65 5 5	kW 5,24 7,25 9,22 10,95 13,07 kW 4,89 6,85 8,67 9,98 12,30 kW 4,67 6,46 8,22 9,76 11,65 - 4,37 4,42 4,45 4,52 4,54 - 3,37 3,42 3,47 3,41 3,47 - 2,66 2,69 2,70 2,75 2,76 - 5,55 5,66 5,72 5,86 5,77 - 4,14 4,22 4,26 4,37 4,3 - 3,99 4,07 4,11 4,22 4,15 mm/h 1,50 2,0 2,50 3,00 3,50 bar 4 1 5 5 5 5 bar 4 1 5 5 5 5 bar 73 80 89 70 55 bar 4 1 1 5

5 – 7	< 2,5
9 – 11	< 3
13	< 3,5
16 – 18	< 4
24	< 6

Note: for higher power heat pumps hot water capacity should be "fresh water" type

With internal pump according to EN 14511
With ethylene glycol

3) Greenhouse potential, GWP100 = 1774

4) According to EN 3743-1

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Technical data of IGLU ® Aleut WT fixed capacity heat pump with water heater

	Units	5 kW	7 kW	9 kW	11 kW	13 kW	16 kW
Brine/water used							
Thermal power (B0/W35) ¹⁾	kW	5,24	7,25	9,22	10,95	13,07	15,45
Thermal power (B0/W45) ¹⁾	kW	4,89	6,85	8,67	9,98	12,30	14,75
Thermal power (B0/W55) ¹⁾	kW	4,67	6,46	8,22	9,76	11,65	13,77
COP (B0/W35) ¹⁾	-	4,37	4,42	4,45	4,52	4,54	4,46
COP (B0/W45) ¹⁾	-	3,37	3,42	3,47	3,41	3,47	3,52
COP (B0/W55) ¹⁾	-	2,66	2,69	2,70	2,75	2,76	2,71
SCOP (B0/W35)	-	5,55	5,66	5,72	5,86	5,77	5,77
SCOP (B0/W45)	-	4,14	4,22	4,26	4,37	4,3	4,3
SCOP (B0/W55)	-	3,99	4,07	4,11	4,22	4,15	4,15
Brine circuit		,			,		
Rated flow $(DT = 3K)^{2}$	m³/h	1,50	2,0	2,50	3,00	3,50	4,0
Permissible external pressure drop ²⁾	kPa	73	80	89	70	55	52
Maximum pressure	bar				4	1	- 1
Volume (internal)	1			5			6
Operating temperature	°C			fro	om -10 to +20)	1
Connection (Cu)	mm				28		
Compressor							
Туре				Spiral "Sci	oll"		
Mass of refrigerant R 407C ³⁾	kg	1,20	1,30	1,35	1,40	1,50	1,50
Maximum pressure	bar				30		
Heating system							
Rated flow (DT = 7K)	m³/h	1,00	1,50	2,00	2,00	2,20	2,20
Min, flow temperature	°C				15		
Max, flow temperature	°C				65		
Max, permissible operating pressure	bar				4,0		
Hot water tank volume	I				200		
Capacity material	-			Stainle	ess steel 1,44	04	
Connection (Cu)	mm				28		
Power network connection values							
Electrical connections				3/N/	PE 400V/ 50	Hz	
Inertial fuse; with electric heater 3kW/ 6kW/ 9kW	А	10/16/20	16/16/20	16/20/25	16/25/25	20/25/32	20/25/32
Compressor rated power (B0/W35)	kW	1,19	1,64	2,06	2,56	3,06	3,46
Max, current with inrush current limiter	А	4,10	5,20	6,80	8,23	10,10	11,8
Type of protection	IP				IP20		
General information							
Permissible ambient temperatures	°C			fro	om +10 to +3	5	- 1
Sound power level ⁴⁾	dBA			42			45
Dimensions (width x depth x height)	mm			70	0 x 700 x 175	50	
Weight (without packaging)	kg	187	195	200	215	220	230

1) With internal pump according to EN 14511

2) With ethylene glycol4) According to EN 3743-1

3) Greenhouse potential, GWP100 = 1774



Technical data of IGLU ® Aleut I variable capacity heat pump

	Units	Aleut 7 I			Aleut 12 I		Aleut 18 I			
Power network connecti	on va	alues								
Electrical connections						400 V 3 N	I~50 Hz			
Inertial fuse; with electric heater 3/6/9 kW	А		16-20-2	5		16-20-25		16-20-25		
Compressor rated power consumption (B0/W35) @ 60 rps	kW		1.91			1.73			2.84	
Compressor Max. current	Α		5.85			6.85			10.70	
Type of protection	IP					X1	•			
Heat (electric) power of a	a hea	t pump .	/ COP (B0/W35)						
		Heating capacity (kW)	Input	COP	Heating capacity (kW)	Input power (kW)	COP	Heating capacity (kW)	Input power (kW)	СОР
Compressor power @ 1200 rpm	kW	2,10	0,50	4,20	3,00	0,70	4,29	4,60	0,90	5,11
Compressor power @ 2100 rpm	kW	3,76	0,77	4,86	5,20	1,00	5,20	8,10	1,40	5,79
Compressor power @ 3500 rpm	kW	6,40	1,20	5,33	8,75	1,64	5,33	13,45	2,41	5,59
Compressor power @ 4300 rpm	kW	7,90	1,60	4,94	10,75	2,02	5,33	16,53	2,96	5,59
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	12,10	2,70	4,48	20,80	4,30	4,84
Heat (electric) power of a	a hea	t pump	/ COP (B0/W55)	1		1	1		
Compressor power @ 1200 rpm	kW	1,90	0,80	2,38	2,80	0,86	3,27	4,15	1,25	3,32
Compressor power @ 2110 rpm	kW	3,55	1,11	3,20	4,92	1,51	3,27	7,30	2,20	3,32
Compressor power @ 3500 rpm	kW	6,00	1,80	3,33	8,19	2,49	3,29	12,10	3,50	3,46
Compressor power @ 4300 rpm	kW	7,40	2,30	3,22	10,03	2,99	3,36	14,87	4,30	3,46
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	12,20	3,80	3,21	18,60	5,60	3,32
SCOP FLOOR HEATING (35 C°) average climate conditions	kW					5,72			5,95	
SCOP RADIATOR HEATING (55 C°) average climate conditions	kW	5,6								
average cimate conditions		3,98			4,14			4,44		



Brine circuit						
Rated flow (DT = 3K) ²⁾	m³/h	2,0	3,00	4,0		
Permissible external pressure drop ²⁾	kPa	80	70	52		
Maximum pressure	bar		4			
Volume (internal)	Ι		5	6		
Operating temperature	°C		from -10 to +20			
Connection (Cu)	mm		28			
Compressor						
Туре			"Scroll"			
Mass of refrigerant R410A	kg	1.3	1.5	2.2		
Maximum pressure	bar		45			
Heating system						
Max. permissible operating pressure	bar	4.00				
Max. supply temperature	°C	65				
Nominal flow (DT = 6K)	m³/h	1 1.4		2.1		
Min. flow temperature	°C		15			
Connection (Cu)	mm		28			
		Genera	al information			
Permissible ambient temperatures	°C		from +10 to +35			
Sound power level	dBA	30-42	30-43	34-43		
Dimensions (width x depth x height)	mm		600 x 600 x 1700			
Weight (without packaging)	kg	132	160	175		

Recommended maximum heating coil area for hot water boiler:

Thermal power, kW	Coil area, m ²
5 – 7	< 2,5
9-11	< 3
13	< 3,5
16 – 18	< 4
24	< 6

Note: for higher power heat pumps hot water capacity should be "fresh water" type

2) With ethylene glycol



Technical data of IGLU [®] Aleut WTI variable capacity heat pump with integrated water heater

	Units	Aleut 7 WTI			Aleut 12 WTI			Aleut 18 WTI		
Power network c										
Electrical	01110001011					00. V 0. NI	50 L I-			
connections					400 V 3 N~50 Hz					
Inertial fuse; with					16-20-25			16-20-25		
electric heater 3/6/9	A	16-20-25								
kW										
Compressor rated		1.01			1 70		2.84			
power consumption	kW	1.91			1.73		2.84			
(B0/W35) @ 60 rps Compressor Max.										
current	Α	5.85			6.85			10.70		
Type of protection	IP				X1					
Heat (electric) po		eat nump	COP (E	80/W35)						
110ut (01001110) po		Heating	Input	COP	Heating	Input	COP	Heating	Input	COP
	kW	capacity	powe	001	capacity	power	001	capacity	power	001
		(kW)	r (kW)		(kW)	(kW)		(kW)	(kW)	
Compressor			1 (100)		()	(100)		()	(100)	
power @ 1200	kW	2,10	0,50	4,20	3,00	0,70	4,29	4,60	0,90	5,11
Compressor		2,10	0,00	4,20	0,00	0,70	4,20	7,00	0,00	0,11
power @ 2100	kW	3,76	0,77	4,86	5,20	1,00	5,20	8,10	1,40	5,79
. –		3,70	0,77	4,00	5,20	1,00	5,20	0,10	1,40	5,79
Compressor power @ 3500 rpm	kW	6,40	1,20	5,33	8,75	1,64	5,33	13,45	2,41	5,59
		0,40	1,20	5,55	0,75	1,04	5,55	13,45	2,41	5,59
Compressor power @ 4300 rpm	kW	7,90	1,60	4,94	10,75	2,02	5,33	16,53	2,96	5,59
@ 4300 Ipin		7,30	1,00	4,94	10,75	2,02	5,55	10,00	2,90	5,59
Compressor power	kW									
@ 5300 rpm		N/A	N/A	N/A	12,10	2,70	4,48	20,8	4,30	4,84
Heat (electric) po	ower of a h	eat pump /	/ COP (B	80/W55)			1	1		
Compressor power	kW									
@ 1200 rpm		1,90	0,80	2,38	2,80	0,86	3,27	4,15	1,25	3,32
Compressor	kW									
power @ 2110	NVV	3,55	1,11	3,20	4,92	1,51	3,27	7,30	2,20	3,32
Compressor	kW									
power @ 3500		6,00	1,80	3,33	8,19	2,49	3,29	12,10	3,50	3,46
Compressor	kW	7,40	2,30	3,22	10,03	2,99	3,36	14,87	4,30	3,46
power @ 4300 Compressor		7,40	2,30	3,22	10,05	2,99	3,30	14,07	4,30	3,40
power @ 5300	kW									
-		N/A	N/A	N/A	12,20	3,80	3,21	18,60	5,60	3,32
SCOP										
FLOOR HEATING (35 C°) average climate	kW	5.6			5 72			5.05		
conditions										
		5,6		5,72			5,95			
SCOP										
RADIATOR HEATING	kW									
(55 C°) average climate		3,98			4,14			4,44		
(o) are ago onnato			0,00			7,14			4,44	



Brine circuit								
Rated flow (DT = 3K) ²⁾	m³/h	2,0	3,00	4,0				
Permissible external pressure drop ²⁾	kPa	80	70	52				
Maximum pressure	bar	4						
Volume (internal)	I		6					
Operating temperature	°C	from -10 to +20						
Connection (Cu)	mm	28						
Compressor								
Туре		"Scroll"						
Mass of refrigeran R410A	kg	1.3	1.5	2.2				
Maximum pressure	bar	45						
Heating system								
Hot water tank volume	I	200						
Max. permissible operating pressure	bar	4.00						
Max. supply temperature	°C	65						
Nominal flow (DT = 6K)	m³/h	1	1.4	2.1				
Min. flow temperature	°C	15						
DHW tank material	-	Stainless steel 1,4404						
Connection (Cu)	mm	28						
		Genera	l information					
Permissible ambient temperatures	°C	from +10 to +35						
Sound power level	dBA	30-42	30-43	34-43				
Dimensions (width x depth x height)	mm	700 x 700 x 1750						
Weight (without packaging)	kg	245	260	284				

2) With ethylene glycol



THIS USER MANUAL APPLIES TO THE FOLLOWING HEAT PUMP MODELS:

- IGLU Aleut 5
- IGLU Aleut 7
- IGLU Aleut 9
- IGLU Aleut 11
- IGLU Aleut 13
- IGLU Aleut 16
- IGLU Aleut 5 WT
- IGLU Aleut 7 WT
- IGLU Aleut 9 WT
- IGLU Aleut 11 WT
- IGLU Aleut 13 WT
- IGLU Aleut 16 WT
- IGLU Aleut 7I
- IGLU Aleut 12I
- IGLU Aleut 18I
- IGLU Aleut 7WTI
- IGLU Aleut 12 WTI
- IGLU Aleut 18 WTI

INFORMATION CONCERNING THE EU DECLARATION OF CONFORMITY

CE

The IGLU® Aleut heat pumps listed above meet the basic and other essential requirements of the European Union directives and standards and are CE marked. The full text of the EU declaration of conformity can be provided by distributors or importers.

USER MANUAL VERSION: 1.3.2© IGLU TECH UAB 2023