

Operating instructions

Marine self-contained airconditioning units
BlueCool S-Series



1 About this document

1.1 Purpose of the document

This operating instructions are part of the product and provides the user with information on the safe operation of the unit.

1.2 Using this document

- ▶ Before operating the unit, read this operating instruction and the supplementary sheet "Important Information on Operating and Installation Instructions".
- ▶ Keep these operating instructions ready to hand.
- ▶ Hand these operating instructions on to the following owner or user of the unit.

1.3 Use of symbols and highlighting



WARNING

Type and source of the risk
Result: non-observance can lead to severe or mortal injuries.

- ▶ Actions to protect yourself against risks.



CAUTION

Type and source of the risk
Result: non-observance leads to property damage.

- ▶ Actions to protect yourself against risks.



Note on a special technical feature

Disregard can result in damage to the plant or its surroundings

Highlight	Explanation
✓	Requirements for the following necessary action
▶	Necessary action

1.4 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result that the installation and operating instructions as well as the instructions contained therein being disregarded. This liability exclusion particularly applies for:

- ▶ improper use
- ▶ repairs not carried out by a Webasto service workshop
- ▶ use of non-genuine parts
- ▶ conversion of the unit without permission from Webasto

2 Safety

2.1 Intended use

The BlueCool S-Series is approved only for installation in ships.

2.2 Regulations and safety instructions

- ▶ Regulations on the supplementary sheet "Important Information on Operating and Installation Instructions" must be observed.

2.3 Safety precautions



WARNING

Ignition of surrounding gases or highly flammable liquids by sparking of the air-conditioning system!

Danger of fire and explosion of ship or of petrol station.

- ▶ The air-conditioning systems must ALWAYS be switched off during refuelling or while in a petrol station area.

3 Description

The BlueCool MyTouch is the standard control element for the BlueCool S-Series and enables easy operation and setting of the connected plant. The screen is designed as a touch screen. System operation is described in the following.



CAUTION

Damage to BlueCool MyTouch

- The screen should not come in contact with any other electrical devices as electrostatic discharge could cause malfunctions.
- Do not use pointed or sharp objects to operate the screen and do not exert excessive pressure with your fingers.



Note

- It is recommended to operate the screen with your fingers. The touch sensitivity of the screen is optimised to direct contact with the fingers. The screen may not respond to touch if gloves are worn.
- Tapping outside the touch-sensitive area at the edge of the screen may not be recognised.

4 Home screen and symbols

There is a choice of 3 different designs of the Home screen with temperature and fan setting. The functions are the same.

To change the design (in settings menu) see "9.1 Selecting Settings menu" on page 6.

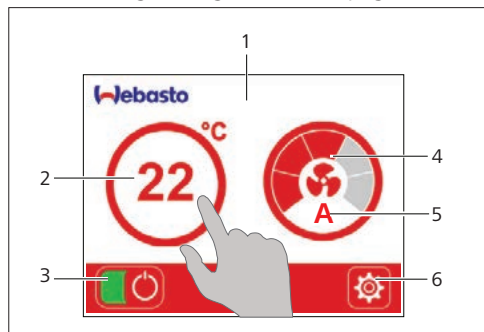


Fig. 1 Design 1

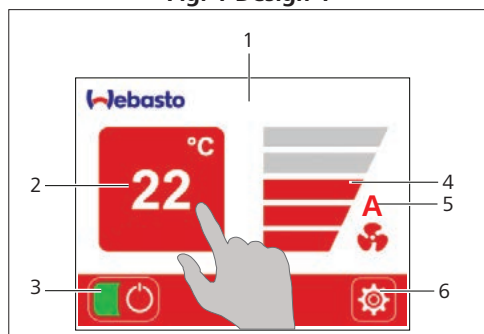


Fig. 2 Design 2



Fig. 3 Design 3

The illustrations show examples of design 1 to 3.

- 1 Home screen
- 2 Temperature setting
- 3 ON/OFF
- 4 Fan display
- 5 Display of automatic fan control
- 6 Settings

The symbols on the Home screen provide information on the system status. The symbols are explained in the table:

Symbol	Meaning
1	 On/Off
2	 Temperature
3	 Fan
4	 Settings
6	 Notification
7	 Increase values
8	 Decrease values
9	AUTO Automatic fan control
10	 previous
11	22 Setpoint temperature
12	 previous
13	 Forward
14	 Parameter value
15	 Select
16	 Home screen
17	 Scroll up
18	 Scroll down

Symbol	Meaning
21	 Keypad
22	 Display selection

Fig. 4 Meaning of symbols

5 Standby

The screen will go to Standby mode after 5 minutes if no entries are made on the screen. Tap anywhere on the screen to call up the Home screen.

6 Notification

The notification symbol  appears on the bottom status line to draw your attention to the current status of the plant. Tap on the symbol to show the corresponding status message.

7 ON/OFF

■ When the screen is switched off:

► Tap the screen.

The screen switches on.

■ When the screen is switched on:

► Tap .

The colour of the ON/OFF symbol indicates the operating status (green = switched on, grey = switched off).

8 Operation

After switching on, the control system starts up the self-contained air-conditioning unit in steps and then assumes normal operation. The control element now shows the current temperature where the temperature sensor of the self-contained air-conditioning unit is installed. Depending on the installation location, this may also be the temperature of another cabin for example.

After approx. 20 seconds, the base colour of the control element changes to indicate the operating mode (cooling or heating) in which the self-contained air-conditioning unit was started. Blue indicates cooling mode, red heating mode. The selection is dependent on the set setpoint temperature and the room temperature measured by the cabin temperature sensor. The plant will assume standby mode if the cabin temperature and the setpoint temperature are the same.



Note

- The plant only cools under the following conditions:
cabin temperature > 15 °C. Setpoint temperature < cabin temperature.
- The plant only heats under the following conditions:
cabin temperature < 29 °C. Setpoint temperature > cabin temperature.

8.1 Setting setpoint temperature

To set the required cabin temperature:

- Tap on the temperature or  on the Home screen.

The setpoint temperature appears to the right.

- Tap Plus  or Minus  to increase or decrease the setpoint temperature.

The Settings menu is automatically exited after 30 seconds and the value last set is adopted.



Note

Alternatively:

Save and exit menu immediately:

- Tap Previous .

8.2 Setting fan speed

- To set the required fan speed tap on Fan  on the Home screen.

With automatic fan control mode selected, the symbol A appears on the Home screen. The control system of the fan automatically adapts the fan speed.

To manually adapt the fan speed:

- Tap the fan display (design 1, 2) or .
- You can now change the displayed fan speed by tapping Plus  or Minus .
- Tap AUTO when you wish to return to automatic fan mode.

The Settings menu is automatically exited after 30 seconds and the value last set is adopted.



Note

Alternatively:

Save and exit menu immediately:

- Tap Previous .

9 System settings

The operating logic is explained based on the Timer function. The explanation also applies to other setting levels or functions.

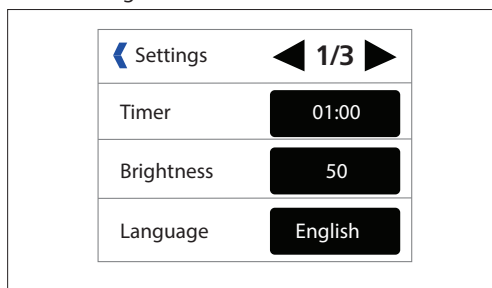


Fig. 5 Example, Settings menu

Call up Settings menu:

- ▶ Tap the Settings  symbol.

The Settings menu opens up.

- ▶ Tap  or  to scroll between the various pages.



- ▶ Tap Timer . The setting window for this function opens up.

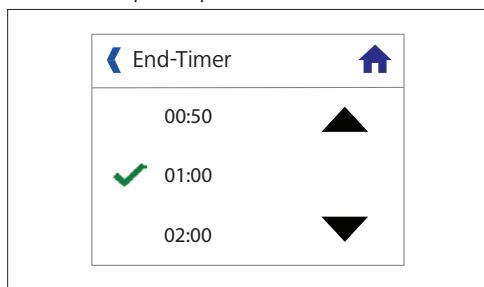


Fig. 6 End-timer

- ▶ Tap  to reduce the time interval or tap  to increase the time interval.

The  symbol marks the current selection.

- ▶ Tap on the required time to set the time interval.
- ▶ Tap the Previous  symbol to go to the previous level. The selected settings are then adopted.

or:

- ▶ Tap the Home screen  symbol to return to the Home screen.

The selected settings are then adopted.

9.1 Selecting Settings menu

You can call up the Settings menu from the Home screen:

- ▶ Tap the Settings  symbol.

The Settings menu opens up. The available functions are:

9.1.1 Timer

Adjust the preset Start or Stop on the self-contained air-conditioning unit.

With the plant already switched on:

The timer acts as a remaining time counter. The air conditioning plant switches off automatically after the set time runs down.

With the plant switched off:

The timer acts as a start timer. The plant starts up automatically after the set time has elapsed. It is not possible to program a switch-on and switch-off time at the same time.

9.1.2 Brightness

Adapts the screen brightness to the ambient light levels.

9.1.3 Language

Sets the operating language.

9.1.4 Design

Changes the screen design.

9.1.5 Colour

Adapts the background colour.

9.1.6 Standby

Sets the BlueCool MyTouch display to standby mode. The available functions are:

■ Webasto Logo

Shows the Webasto logo.

■ Customer logo

Shows an individual file that can be loaded onto BlueCool MyTouch with the aid of the BlueCool Expert tool.

■ Cabin temperature - bright

Shows the current cabin temperature at high brightness levels in areas with bright ambient light.

■ Cabin temperature - dark

Shows the current cabin temperature at low brightness levels in areas with little

ambient light.

- **Display off**

No display in standby mode.

- **Operation indicator**

An illuminated dot indicates that the plant is ready for operation.

- **Standby off**

Home screen remains active.

9.1.7 Key tone

For setting whether the control element makes a sound when you touch the surface of the screen.

9.1.8 °C / °F

Sets the temperature display in degrees Celsius °C or degrees Fahrenheit °F.

9.1.9 Cleaning

Disables the screen functions for 30 seconds to clean the surface.

Fault code	Possible cause	Correction
AAA - Undervoltage	Switch-off in case of undervoltage. Power supply below set undervoltage value for longer than 5 seconds. Cause is probably excessively long cable, overloading or an insufficiently high power generator output.	Use a on-shore power connection with a more stable power supply. Use a shorter power cable for the on-shore connection. Switch off other electrical loads. Please contact your authorised Webasto Marine dealer.
A01 - low pressure compressor	Compressor shut-down due to low pressure. Pressure switch defective or power circuit interruption/short circuit.	Please contact your authorised Webasto Marine dealer.
	Cooling mode: Air supply insufficient	Check air supply. Difference between air inlet/air outlet temperature of evaporator at least 4 K.
	Heating mode: Sea water flow rate insufficient or sea water too cold (Temperature below 6 °C). Sea water strainer blocked or no intake.	Remove blockage at sea water inlet. Check/clean sea water strainer and bleed sea water circuit.
	Refrigerant shortage.	Please contact your authorised Webasto Marine dealer.
	Compressor shut-down due to high pressure. Pressure switch defective or power circuit interruption/short circuit.	Please contact your authorised Webasto Marine dealer.
A02 - High pressure compressor	In cooling mode: Sea water cooling insufficient. Sea water strainer soiled or no intake.	Remove blockage at sea water inlet. Clean sea water strainer and bleed sea water circuit.
	In heating mode: Air supply insufficient	Check air supply. Difference between air inlet/air outlet temperature of evaporator at least 4 K.
A09 - Cabin temperature sensor	Cabin temperature sensor defective, break/short-circuit in electrical circuit, cabin temperature sensor not connected.	
A10 - Evaporator temperature sensor	Temperature sensor of evaporator defective or power circuit interruption/short circuit.	Please contact your authorised Webasto Marine dealer.
TA11 - Evaporator temperature value exceeded	Evaporator temperature too low in cooling mode or too high in heating mode	No corrective measures necessary. The compressor switches off and switches on again as soon as the cut-in temperature is reached.
 Note Fault code TA11 - Evaporator temperature value exceeded: This code is a system information and not a fault which must be eliminated. The status indicator will go out automatically on reaching the cut-in temperature.		
INIT	Initialisation procedure or system blocked. Electrical wiring defective, interruption in power circuit/short circuit.	Please contact your authorised Webasto Marine dealer.

Fault code	Possible cause	Correction
n/a	No pc-board output. Fuse faulty or break/short-circuit in this electrical circuit.	
	Pc-board damaged by high voltage.	Please contact your authorised Webasto Marine dealer.
	Electronic relay (TRIAC) defective.	
	Compressor not running. Compressor defective or break/short-circuit in compressor wiring.	
	Compressor not running. Compressor overload or overload protection element on top of compressor defective.	Allow to cool down for some time. Please contact your authorised Webasto Marine dealer.
	No or insufficient cooling or heating capacity. Poor air or sea water flow, soiled or circulation blocked.	
	No or insufficient cooling or heating capacity:	Secure adequate air or sea water flow (see A01 and/or A02).
	Refrigerant shortage.	
	No or insufficient cooling or heating capacity:	
	Oil block.	Please contact your authorised Webasto Marine dealer.
	No or insufficient cooling or heating capacity:	
	Refrigerant circuit blocked. (capillary lines).	
	No or insufficient cooling or heating capacity:	Check whether the sensor is subject to direct fault sources such as direct sunlight or devices radiating heat.
	Compressor fault.	
	Incorrect cabin/ambient temperature displayed. Temperature sensor positioned incorrectly, subject to interference or display values falsified.	Please contact your authorised Webasto Marine dealer.

In multilingual versions the German language is binding.

The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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