

# Operation Manual

## WEBASTO BLUE COOL CLASSIC

### Compact Air Condition Systems



## General Information

Dear Webasto Customer!

This operation manual provides an overview about how to use the compact air condition system and its control panel. An extensive documentation and description can be found in the installation and service manual.

## Safety Notes

In general, all A/C systems are running on 230 Volt AC. For all work at any of the components like pumps, compressor, blowers or electronics, the power connection has to be interrupted. All work at the electric wiring must be performed by specialized installers.

Before starting the air-condition system, check the following points:

- The closing valve at the sea-cock is open!
- The sea-water strainer is clean and filled with water!
- The boat has enough water under the body and the sea-cock is not blocked!
- All supply and return air grilles are open and not blocked by luggage, clothing or anything else!
- After switching on, water comes out of the over-board discharge. If not, switch off the system and check the sea-water circuit again!

## The control panel „Air-Control“ for Compact Systems











The digital control panel is always factory pre-programmed and the secondary commands are code-protected.

- If your Compact air-condition system has a heat cycle (easily detectable by the magnetic valve next to the compressor), the cabin(s) can be heated until a sea-water temperature of about 10°C. The control panel will be pre-set with the function „Automatic“.
- If your air-condition does not have a heat cycle, the function „Cooling“ is pre-set.



## Operating the Air-Control for Compact Systems

When the air-conditioning is connected with the electrical power, the system initialises itself. The display shows *Init* and afterwards the frequency, e.g. *50 Hz*.

<b>Starting</b>	<p>Press once the  button.</p> <p><i>On</i> is displayed and after appr. 20 sec. the current room temperature, e.g. <i>28.5</i> (°C) is shown. Depending on the room and set-point temperature the appropriate mode will start. Mode indication by LED.</p> <p>→ A malfunction is indicated by a blinking error code (see below)</p> <p>→ <i>ba11</i> is no error code that causes a system stop (see below)</p>
<b>Setting the Temperature</b>	<p>With the buttons  and  between 15°C and 29°C while the room - temperature is displayed.</p> <p>Air-condition without heat cycle</p> <p>→ the set temperature must be below the room temperature. e.g. room temperature 25° C Set temperature between 15°C and 24°C.</p> <ul style="list-style-type: none"><li>• Air-condition with heat cycle</li></ul> <p>→ the set temperature can be between 15°C and 29°C. e.g. room temperature 25° C Set temperature = 20°C, Cool mode starts. Set temperature = 29°C, Heat mode starts.</p>
<b>Setting Blower Speed</b>	<p>Press the button  until <i>b</i> is shown to the left and the selected value to the right, e.g. <i>b 5</i> (Blower speed 5)</p> <ul style="list-style-type: none"><li>• Value Range (Blower speeds): <i>1-2-3-4-5</i> and <i>A</i></li><li>• Factory Setting: <i>A</i> (Automatic Blower Speed)</li></ul> <p>Program with the buttons  and . Confirm by pressing the  button.</p> <p>Secure your setting by pressing the  button. The display shows <i>memo</i> and then the room-temperature.</p> <p>→ In the automatic blower speed mode (<i>b A</i>) the blower start and operation depends on the temperature. If there is no need for blower operation, the display shows <i>ba11</i>. It can take some time before the blower starts.</p> <p>→ The manual blower speed mode (<i>1 to 5</i>) is indicated by the LED „Manual blower operation“.</p>
<b>Displaying the Evaporator Temperature</b>	<p>Press the  button until <i>E</i> is shown to the left and a numerical value to the right, e.g. <i>E10.5</i>. Check if the current operation mode is functioning properly.</p> <p>→ Cool mode (LED snow flake) = Evaporator temperature drops constantly</p> <p>→ Heat mode (LED sun) = Evaporator temperature rises constantly.</p>
<b>Access to further program levels</b>	<p>Press the  button until <i>code</i> is displayed. With a special access code specific settings can be modified (by the installer).</p> <p>Further information can be found in the installation manual.</p>

## Error code display and actions

The error codes are viewed on the display screen. After the error codes are displayed, the system is shut off for 60 sec. and re-started (except for **ba11**). If the same error occurs within 30 minutes, the A/C system will be completely stopped. In this case, it can only start again if the error has been solved and the system has been completely switched off and on again.

## Error codes and causes

<b>AAA</b>	Persistent low voltage (below 195 Volt for more than 5 sec.)
<b>A01</b>	Low pressure cut-out compressor 1 → Not enough refrigerant in the system, please inform service station. → Sea water temperature in heat mode too low (<7°C), heat mode not possible.
<b>A02</b>	High pressure cut-out compressor 1 → Sea water circuit interrupted, please check circuit. → Too much refrigerant in system, please call service station. → Sea water temperature in heat mode too high (>17°C), heat mode not possible.
<b>A03 - 08</b>	Not applicable for "Classic" systems
<b>A09</b>	Room temperature sensor (external or internal) defective or absent.
<b>A10</b>	Temperature sensor at evaporator defective or absent.
<b>CA11</b>	All compressors have been deactivated. Re-activate with the <b>code</b> menu
<b>EA11</b>	Compressor stopped by de-icing control. Automatic re-start. This error is only visible in the evaporator temperature read-out <b>E10.0</b> .

## Warranty claims

Failure to follow the installation manual and the information, recommendations and descriptions therein will void all warranties. The same applies if repairs are carried out incorrectly, with the use of non-genuine parts or by unauthorized personnel. Warranty claims are only valid if the claimant can verify that he has complied with the maintenance and safety instructions.

## Maintenance

<b>Check monthly</b>	<ul style="list-style-type: none"><li>• Air filter in the return air grilles (where applicable) and clean if necessary.</li><li>• Sea water circuit for leaks in the whole system from the sea-cock to the sea water exit.</li><li>• Condensation drain for free flow and leaks.</li><li>• Air-ducting for damage, interruption and free flow.</li><li>• Function of the system by having it run for at least 10 minutes.</li></ul>
<b>Winter storage</b>	At frost temperatures the whole sea water circuit must be emptied and the sea water valve closed.