Air to Water Heat Pump

Split system
Packing list

<table>
<thead>
<tr>
<th>Heat Pump</th>
<th>Outdoor Unit</th>
<th>Hydraulic Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterstage High Power 11 single phase</td>
<td>WO*G112LCT</td>
<td>WS*G140DC6</td>
</tr>
<tr>
<td>Waterstage High Power 14 single phase</td>
<td>WO*G140LCT</td>
<td></td>
</tr>
<tr>
<td>Waterstage High Power 11 3-phase</td>
<td>WO*K112LCT</td>
<td>WS*K160DC9</td>
</tr>
<tr>
<td>Waterstage High Power 14 3-phase</td>
<td>WO*K140LCT</td>
<td></td>
</tr>
<tr>
<td>Waterstage High Power 16 3-phase</td>
<td>WO*K160LCT</td>
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Contents

Instructions to be read before using the equipment. .................................. 3

Safety instructions ........................................ 3
Start-up .................................................... 3
Use ......................................................... 3
Maintenance ................................................ 3
Precautions and warnings regarding your installation. ................................. 4
The outdoor unit ........................................... 4
The hydraulic unit .......................................... 4
Control system ............................................ 4
The radiators ............................................. 4
Floor-heating systems ..................................... 4
Fan convectors with integrated control system .......................................... 4
Domestic hot water (DHW) .................................. 4

Overall view of the installation ................................................................. 5

Operation of the installation. ................................................................. 6

User interface, Remote control (option) and Room thermostat (option). ............. 6
Description of the display ............................................................................. 8
Appliance start up ......................................................................................... 9
Quick start-up ............................................................................................... 9
Setting the time .............................................................................................. 10
Structure of the "End user" control menu ...................................................... 11
Parameterizing the setting ............................................................................. 12
General ........................................................................................................ 12
Setting parameters ....................................................................................... 12
List of "End user" settings ........................................................................... 12
Information display ....................................................................................... 16
Details .......................................................................................................... 16
Operation of the DHW system ................................................................. 17
Selecting cooling mode ............................................................................... 17
Pilot-wire ................................................................................................. 17
Telephone modem ....................................................................................... 17
Configuring remote control (option) ..................................................... 17

Maintenance ................................................................................................. 18

Regular checks ............................................................................................ 18
Checking the outdoor unit ............................................................................. 18
1 Instructions to be read before using the equipment

Please comply with the following instructions in order to avoid any risk of injury or inappropriate use of the appliance.

1.1 Safety instructions

1.1.1 Start-up

- Do not switch the appliance on until every fillings have been done.
- Do not try to install this appliance yourself.
- This heat pump requires an appropriately qualified person to install it.
- The installation must always be connected to the Earth and fitted with a protective circuit breaker.
- Do not modify the electricity supply.
- The appliances are not fireproof and should therefore not be installed in a potentially explosive atmosphere.

1.1.2 Use

- Do not let children insert foreign bodies into the fan protection grill or climb on top of the outdoor unit. The fins on the air exchanger are extremely fine and cause cuts.
- Nothing should obstruct the air circulation through the evaporator and from the fan.
- The outdoor unit must only be installed outdoor (outdoors). If a shelter is required, it must have broad openings on the 4 walls and observe the installation clearances (see with your installer).
- Do not climb on the top of the outdoor unit.
- The room in which the appliance is operating must be correctly ventilated in order to prevent any loss of oxygen if there is an escape of refrigerant gas.
- Consult your Installer before making any changes or modifications to the premises where the appliance is installed.
- Do not place any heat source under the remote control.

1.1.3 Maintenance

- Do not try to repair this appliance yourself.
- This appliance does not contain any components capable of being repaired by the user himself. Removing one or other of the covers can expose you to dangerous electrical voltages.
- In any case, switching off the current is not sufficient to protect you from any external electrical shocks (capacitors).
- Do not open the outdoor unit or the hydraulic unit while they are operating.
- Switch off the power supply if there are any abnormal noises, smells or smoke coming from the appliance and contact your installer.
- Switch off the power to the appliance before you clean it.
- Do not use aggressive cleaning liquid or solvents to clean the body work.
- Do not use a pressure washer to clean the outdoor unit. This could damage the air exchanger and the water might penetrate into the electrical circuits.
1.2 Precautions and warnings regarding your installation.

1.2.1 The outdoor unit
The outdoor unit contains the equipment for capturing energy from the ambient air.
Your installer has placed this unit in a location that enables it to operate in an optimum manner.
Nothing should obstruct the air circulation through the evaporator and from the fan.
The control system for your heating system is designed in flow temperature for the water based on the outdoor temperature (water control).
In cold periods, this water freezes in contact with the exchanger and is drained away by regular defrosting cycles. The control system automatically controls the defrosting cycle, whose operation can lead to the quite normal emission of steam.

1.2.2 The hydraulic unit
The hydraulic unit contains the heat pump complete control system, in charge of controlling the heating comfort level and the production of domestic hot water (if the installation is fitted with a DHW tank with electrical back-up heating).
The heat pump is equipped with an electric back-up system, which is designed to provide additional heat during the coldest periods.

1.2.3 Control system
Your installer has carefully adjusted your installation. Do not modify setting parameters without his agreement. If in doubt, do not hesitate to contact him.
The control system for your heating system is designed in flow temperature for the water based on the outdoor temperature (water control).
The installation of a room thermostat (option) allows to improve operation of the regulation (the influence of the room temperature is taken into account).
The frost protection works in all modes of operation and has priority over other functions (provided that the heat pump's electrical power supply is not interrupted).

⚠️ Warning! In winter, in case of power failure, the frost protection is no longer assured.
The water in the tank of the hydraulic module can freeze and cause damage.

1.2.4 The radiators
To ensure the function of the regulation with room influence, it's necessary that the room in which the room thermostat is installed has no thermostatic valve or that they must be completely open.

1.2.5 Floor-heating systems
New floor-heating systems require to be initially heated slowly to avoid any problems with cracking. Check with your installer that this initial heating procedure has indeed been performed before using your heating system freely.
The great stability in a regulation system for floor-heating systems avoids sharp differences in temperature. However, this stability involves a reaction time of the order of several hours, (approx 6 hours).
Any changes to the setting must be made slowly, leaving the installation time to react. Adjusting the system to exaggerated setting or in an untimely manner always results in significant temperature fluctuations during course of the day.
Similarly if your dwelling has a floor-heating system, do not reduce the heating or switch it off if you will be absent for a short period. The reheating period is always quite long (approx 6 hours).

1.2.6 Fan convectors with integrated control system
Do not use a room sensor in the area.

1.2.7 Domestic hot water (DHW)
This function is designed as an option through the use of a DHW tank with electrical back-up heating.
When the DHW production is required, the heat pump adapts to this demand with higher priority.
No space heating is produced while the domestic hot water is being prepared.
Domestic hot water (DHW) is produced by the heat pump and then topped up, if necessary, by electrical backup heating or the boiler.
To ensure a DHW setting over 45°C, the electrical back-up heating or the boiler must be left on (Optional boiler connection kit).
The electrical back-up heating enables anti-legionella cycles to be conducted efficiently.
2 Overall view of the installation

Your heat pump has been configured by your installer. It is composed of the following main elements:
- The outdoor unit is positioned, as its name indicates, outside your dwelling and extracts energy from the outside air.
- The hydraulic unit positioned in your boiler room, cellar, garage or even your kitchen, transfers the energy to the heating circuit (and the domestic hot water).
- The outdoor sensor detects the outdoor temperature.

Optional equipment:
- Room thermostat.
- Remote control.

Heat pumps are systems that can be connected to any form of low temperature heat distribution systems: the heat captured by the heat pump can therefore be used in different ways:
- Floor-heating systems.
- Radiators or fan coil heaters.
- Domestic hot water (DHW).
- The pool.

---

**figure 1 - Overall view of the configuration of a complete installation**
3 Operation of the installation

3.1 User interface, Remote control (option) and Room thermostat (option)

![User interface diagram](image1)

![Remote control diagram](image2)

![Room thermostat diagram](image3)

*figure 2 -*
<table>
<thead>
<tr>
<th>Ref.</th>
<th>Functions</th>
<th>- Definitions</th>
</tr>
</thead>
</table>
| 1    | Selecting of the DHW operating mode (Domestic hot water). | - If the installation is fitted with a DHW tank.  
- **On**: Production of DHW according to the time program.  
- **Off**: Preparing the domestic hot water for stopping with the anti-frost function active.  
- **Manual start button**: Hold down the DHW key for 3 seconds. Switch from "reduced" to "comfort" until the next time the ECS timer switches over. |
| 2    | Digital display. | - Operating control. Readout of the current temperature, of the heating mode and of any faults 🚫.  
- View the settings. |
| 3    | Exit "ESC". | - Quit the menu. |
| 4    | Navigation and setting. | - Selecting the menu.  
- Setting parameters.  
- Adjusting the ambient temperature setpoint. |
| 5    | Selecting the heating mode. | - ☀️ Heating operating according to the heating program (Summer/winter mode switchover is automatic).  
- ☀️ Constant comfort temperature.  
- ☀️ Constant reduced temperature.  
- ☀️ Stand-by mode with anti-frost protection (Provided that the heat pump’s electrical power supply is not interrupted). |
| 6    | Information display. | - Various data (see page 16).  
- 🚫 Reading error codes (see Installation and operating manual).  
- 📜 Information concerning maintenance, special mode. |
| 7    | Confirm "OK". | - Input into the selected menu.  
- Confirmation of the parameter settings.  
- Confirmation of the adjustment to the comfort temp. setting. |
| 8    | Selecting cooling mode. | - If the installation is fitted with the cooling kit:  
- ☀️ Cooling operating according to the heating program (Summer/winter mode switchover is automatic). |
| 9    | RESET button (Hold down the "RESET" key for 3 sec). | - Reinitialising the parameters and cancelling error messages.  
**Do not use during normal operation.** |
| 10   | Control knob. | - Adjusting the ambient temperature setpoint. |
| 11   | Presence key. | - Comfort / Reduced switchover. |
3.2 Description of the display

![Figure 3 - Display Description](image)

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>🧪</td>
<td>- Heating mode active with reference to the heating circuit.</td>
</tr>
<tr>
<td>☀️</td>
<td>- Heating in comfort mode.</td>
</tr>
<tr>
<td>🌙</td>
<td>- Heating in reduced mode.</td>
</tr>
<tr>
<td>🏷️</td>
<td>- Heating in &quot;standby&quot; mode (freeze protection).</td>
</tr>
<tr>
<td>☀️</td>
<td>- Cooling mode active.</td>
</tr>
<tr>
<td>📸</td>
<td>- Holiday mode activated.</td>
</tr>
<tr>
<td>🕒</td>
<td>- Process in progress.</td>
</tr>
<tr>
<td>🎆</td>
<td>- Compressor operation.</td>
</tr>
<tr>
<td>🔥</td>
<td>- Burner operation.</td>
</tr>
<tr>
<td>📣</td>
<td>- Default message.</td>
</tr>
<tr>
<td>🔧</td>
<td>- Service / Special operation.</td>
</tr>
<tr>
<td>INFO</td>
<td>- Information level activated.</td>
</tr>
<tr>
<td>PROG</td>
<td>- Program activated.</td>
</tr>
<tr>
<td>ECO</td>
<td>- ECO mode activated (Heating temporarily stopped).</td>
</tr>
<tr>
<td>🕒</td>
<td>- Hour / Parameter number / Setpoint value.</td>
</tr>
<tr>
<td>🌡️</td>
<td>- Room temperature / Setpoint value.</td>
</tr>
<tr>
<td>🔄️</td>
<td>- Setpoint information / Parameter Information.</td>
</tr>
</tbody>
</table>
### 3.3 Appliance start up

- The installation and 1st start up of the appliance must be done by a qualified installer. That person will also give you instructions on starting and running the appliance.
- Ensure that the installation is fully filled with water and has been correctly bled and that there is a sufficient pressure of 1.5 to 2 bars on the manometer (ref. 2, figure 4).
- Close the installation’s main circuit breaker.

In winter, so that the compressor can be preheated, close the installation's main circuit breaker (outdoor unit's power supply) some hours before pressing the on/off button.

### 3.4 Quick start-up

Once your installer has started your installation for the first time:

- Engage the start/stop switch.

  During the regulator initialisation phase, the display shows all the symbols and then "Data, update" and then "State heat pump".
- Select the "AUTO" heating mode (figure 5).
- Select the DHW mode (figure 5).
- Adjust the date and time if necessary (figure 6).

---

**figure 4 - Start-up**

1. User interface
2. Manometer (installation hydraulic pressure)
3. Start/stop switch

**figure 5 - Selecting the heating mode AUTO and Select the DHW mode**

**figure 6 - Setting the time and the date**
3.5 Setting the time

<table>
<thead>
<tr>
<th>Keys</th>
<th>Display example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1" alt="Basic display" /></td>
<td>Basic display&lt;br&gt; If the basic display is not shown, press <strong>ESC</strong> to return to it&lt;br&gt; Press <strong>OK</strong> to confirm.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image2" alt="Time and date" /></td>
<td>Turn the knob&lt;br&gt; Select menu hour and date&lt;br&gt; Press <strong>OK</strong> to confirm.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image3" alt="Time and date" /></td>
<td>Turn the knob&lt;br&gt; Select line 1 Hours / minutes&lt;br&gt; Press <strong>OK</strong> to confirm.</td>
</tr>
<tr>
<td>4</td>
<td><img src="image4" alt="Time and date" /></td>
<td>The hour display flashes&lt;br&gt; Turn the knob to set the time&lt;br&gt; Press <strong>OK</strong> to confirm.</td>
</tr>
<tr>
<td>5</td>
<td><img src="image5" alt="Time and date" /></td>
<td>The minutes display flashes&lt;br&gt; Turn the knob to set the minutes&lt;br&gt; Press <strong>OK</strong> to confirm.</td>
</tr>
<tr>
<td>6</td>
<td><img src="image6" alt="Time and date" /></td>
<td>The setting are recorded&lt;br&gt; Turn the knob to make other settings&lt;br&gt; or&lt;br&gt; Press heating <strong>Mode</strong> key to return to basic display.</td>
</tr>
</tbody>
</table>

*figure 7*
3.6 Structure of the "End user" control menu

![Diagram of the End user control menu with various options and commands.

- Basic display
- OK
- Brief press
- End user
- Commissioning Engineer OEM
- Time of day and date
- Hours / minutes
- Day / Month
- Year
- Language
- Pre-selection
- Time prog heating circuit 1
- Time prog heating circuit 2
- Time program 4/DHW
- Holidays heating circuit 1
- Holidays heating circuit 2
- Heating circuit 1
- Heating circuit 2
- Domestic hot water
- Fault
- Service/special operation
- Diagnostics heat generation
- Diagnostics consumers
- Hours 1...24 h
- Minutes 0...60 min
- English, German...
- Mon-Sun
- Mon-Fri
- Sat-Sun
- Monday
- Tuesday
- …
- Sunday
- Period 1
- Period 2
- …
- Period 8
- Comfort setpoint
- Reduced temp... 28 °C
- Temp. frost protect... comfort
- 4 °C... reduced temp.
- Reduced setpoint
- Frost protect. setpoint
- Nominal setpoint
- Reduced temp... 65 °C
- Operation level
- Default values
- Copy
- Period 1
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- Operation level
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3.7 Parametering the setting

3.7.1 General
Only the parameters accessible to levels: End user
Are described in this document.

The parameters accessible at level: Commissioning Engineer
... are described in the document reserved for these professional specialists. Do not make any modifications to these parameters without advice from these professional specialists. Incorrect use of any kind may result in serious malfunctioning.

3.7.2 Setting parameters
With the screen on basic display.
- Press OK.

Once in "End user" level.
- Scroll the menu list.
- Choose the desired menu.
- Scroll the function lines.
- Choose the desired line.
- Adjust the parameter.
- Check the setting by pressing OK.

- To return the menu, press ESC.

If no setting is made for 8 minutes, the screen returns automatically to the basic display.

3.7.3 List of "End user" settings

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hours / minutes</td>
<td>00:00... 23:59</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Day / Month</td>
<td>01.01... 31.12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Year</td>
<td>1900... 2099</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Operator section

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Language</td>
<td>English, Deutsch, Français, Italiano, Nederlands,...</td>
<td></td>
<td>English</td>
</tr>
</tbody>
</table>
### Time program heating, circuit 1

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>Pre-selection (Day / Week)</td>
<td>Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …</td>
<td>Mon-Sun</td>
<td></td>
</tr>
<tr>
<td>501</td>
<td>1st phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>6:00</td>
</tr>
<tr>
<td>502</td>
<td>1st phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>22:00</td>
</tr>
<tr>
<td>503</td>
<td>2nd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>504</td>
<td>2nd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>505</td>
<td>3rd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>506</td>
<td>3rd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>515</td>
<td>Copy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>516</td>
<td>Default values</td>
<td>No, Yes</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

### Time program heating, circuit 2

Only with the 2nd circuit kit option.

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>520</td>
<td>Pre-selection (Day / Week)</td>
<td>Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …</td>
<td>Mon-Sun</td>
<td></td>
</tr>
<tr>
<td>521</td>
<td>1st phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>6:00</td>
</tr>
<tr>
<td>522</td>
<td>1st phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>22:00</td>
</tr>
<tr>
<td>523</td>
<td>2nd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>524</td>
<td>2nd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>525</td>
<td>3rd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>526</td>
<td>3rd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>535</td>
<td>Copy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>536</td>
<td>Default values</td>
<td>No, Yes</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

### Time program 4 / DHW

If the installation is fitted with the DHW kit (Only with the DHW kit option).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>560</td>
<td>Pre-selection (Day / Week)</td>
<td>Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …</td>
<td>Mon-Sun</td>
<td></td>
</tr>
<tr>
<td>561</td>
<td>1st phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>00:00</td>
</tr>
<tr>
<td>562</td>
<td>1st phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>05:00</td>
</tr>
<tr>
<td>563</td>
<td>2nd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>14:30</td>
</tr>
<tr>
<td>564</td>
<td>2nd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>17:00</td>
</tr>
<tr>
<td>565</td>
<td>3rd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>566</td>
<td>3rd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>575</td>
<td>Copy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>576</td>
<td>Default values</td>
<td>No, Yes</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.
### Time program 5 / Cooling

If the installation is fitted with the cooling kit (Only with the cooling kit option).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Pre-selection (Day / Week)</td>
<td>Mon-Sun, Mon-Fri, Sat-Sun, Monday, Tuesday, …</td>
<td>Mon-Sun</td>
<td>Mon-Sun</td>
</tr>
<tr>
<td>601</td>
<td>1st phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>8:00</td>
</tr>
<tr>
<td>602</td>
<td>1st phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>20:00</td>
</tr>
<tr>
<td>603</td>
<td>2nd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>604</td>
<td>2nd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>605</td>
<td>3rd phase On (start)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>606</td>
<td>3rd phase Off (end)</td>
<td>00:00... --:--</td>
<td>10 min</td>
<td>--:--</td>
</tr>
<tr>
<td>615</td>
<td>Copy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>616</td>
<td>Default values</td>
<td>No, Yes</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

Yes + OK: The default values memorised in the regulator replace and cancel the customised heating programs. Your customised settings are therefore lost.

### Holidays, heating circuit 1
(For the Holiday program is active, the heating mode should be on AUTO).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>641</td>
<td>Preselection</td>
<td>Period 1 to 8</td>
<td></td>
<td>Period 1</td>
</tr>
<tr>
<td>642</td>
<td>Period Start (Day / Month)</td>
<td>01.01... 31.12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>643</td>
<td>Period End (Day / Month)</td>
<td>01.01... 31.12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>648</td>
<td>Operating level</td>
<td>Frost protection, Reduced</td>
<td></td>
<td>Frost protection</td>
</tr>
</tbody>
</table>

### Holidays, heating circuit 2
(For the Holiday program is active, the heating mode should be on AUTO).

If the installation consists of 2 heating circuits (Only with the 2nd circuit kit option).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>651</td>
<td>Preselection</td>
<td>Period 1 to 8</td>
<td></td>
<td>Period 1</td>
</tr>
<tr>
<td>652</td>
<td>Period Start (Day / Month)</td>
<td>01.01... 31.12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>653</td>
<td>Period End (Day / Month)</td>
<td>01.01... 31.12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>658</td>
<td>Operating level</td>
<td>Frost protection, Reduced</td>
<td></td>
<td>Frost protection</td>
</tr>
</tbody>
</table>

### Heating, circuit 1

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>710</td>
<td>Comfort setpoint</td>
<td>Reduced setpoint… 28 °C</td>
<td>0,5 °C</td>
<td>20 °C</td>
</tr>
<tr>
<td>712</td>
<td>Reduced setpoint</td>
<td>Frost protection setpoint… Comfort setpoint</td>
<td>0,5 °C</td>
<td>19 °C</td>
</tr>
<tr>
<td>714</td>
<td>Frost protection setpoint</td>
<td>4 °C… Reduced setpoint</td>
<td>0,5 °C</td>
<td>8 °C</td>
</tr>
</tbody>
</table>

### Cooling circuit 1

If the installation is fitted with the cooling kit (Only with the cooling kit option).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>Operating mode</td>
<td>Off, Automatic</td>
<td></td>
<td>Off</td>
</tr>
<tr>
<td>902</td>
<td>Comfort cooling setpoint</td>
<td>17... 40 °C</td>
<td>0,5 °C</td>
<td>24 °C</td>
</tr>
<tr>
<td>907</td>
<td>Release</td>
<td>24h/day, Time program HC, Time program 5 / Cooling</td>
<td></td>
<td>Time program 5</td>
</tr>
</tbody>
</table>

If the installation is fitted with a DHW tank, set the parameter 907 to "Time program 5 / Cooling" (In order to activate cooling only during the day and leave the DHW system to operate during the night).

### Heating, Circuit 2

Only with the 2nd circuit kit option (If the installation consists of 2 heating circuits).

<table>
<thead>
<tr>
<th>Line</th>
<th>Function</th>
<th>Setting range or display</th>
<th>Setting increment</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1010</td>
<td>Comfort setpoint</td>
<td>Reduced setpoint… 28 °C</td>
<td>0,5 °C</td>
<td>20 °C</td>
</tr>
<tr>
<td>1012</td>
<td>Reduced setpoint</td>
<td>Frost protection setpoint… Comfort setpoint</td>
<td>0,5 °C</td>
<td>19 °C</td>
</tr>
<tr>
<td>1014</td>
<td>Frost protection setpoint</td>
<td>4°C… Reduced setpoint</td>
<td>0,5 °C</td>
<td>8 °C</td>
</tr>
<tr>
<td>Line</td>
<td>Function</td>
<td>Setting range or display</td>
<td>Setting increment</td>
<td>Basic setting</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>--------------------------</td>
<td>-------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>

**Domestic hot water**

If the installation is fitted with the DHW kit (Only with the DHW kit option).

1610 Nominal setpoint

<table>
<thead>
<tr>
<th>Reduced setpoint (line 1612) 65 °C</th>
</tr>
</thead>
</table>

1612 Reduced setpoint

<table>
<thead>
<tr>
<th>Nominal setpoint (line 1610)</th>
</tr>
</thead>
</table>

The backup electrical system is required to reach this level.

**Swimming pool** (Only with swimming pool kit option)

2056 Setpoint source heating

<table>
<thead>
<tr>
<th>8... 35 °C</th>
</tr>
</thead>
</table>

**Error**

6711 Reset HP

<table>
<thead>
<tr>
<th>No, Yes</th>
</tr>
</thead>
</table>

**Maintenance / special regime**

7141 Emergency operation

<table>
<thead>
<tr>
<th>Off, On</th>
</tr>
</thead>
</table>

Off: Heat pump functions normally (with boosters if necessary).
On: Heat pump uses the electric boost system or the boiler connection.
Use the “On” position only in Assist mode or Test mode: may result in high power bills.

**Diagnostics heat generation**

8410 Return temp HP

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

8412 Flow temp HP

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

**Diagnostics consumers**

8700 Outside temperature

<table>
<thead>
<tr>
<th>-50... 50 °C</th>
</tr>
</thead>
</table>

8701 Outside temp min

<table>
<thead>
<tr>
<th>Reset ? (no, yes) -50... 50 °C</th>
</tr>
</thead>
</table>

8702 Outside temp max

<table>
<thead>
<tr>
<th>Reset ? (no, yes) -50... 50 °C</th>
</tr>
</thead>
</table>

8740 Room temperature 1

<table>
<thead>
<tr>
<th>0... 50 °C</th>
</tr>
</thead>
</table>

Room setting 1

<table>
<thead>
<tr>
<th>20 °C</th>
</tr>
</thead>
</table>

8743 Flow temperature 1

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

8756 Cooling flow temperature 1

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

8770 Room temperature 2

<table>
<thead>
<tr>
<th>0... 50 °C</th>
</tr>
</thead>
</table>

Room setting 2

<table>
<thead>
<tr>
<th>20 °C</th>
</tr>
</thead>
</table>

8773 Flow temperature 2

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

8830 DHW (domestic hot water) temperature

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

DHW temperature setpoint

<table>
<thead>
<tr>
<th>50 °C</th>
</tr>
</thead>
</table>

8900 Swimming pool temperature

<table>
<thead>
<tr>
<th>0... 140 °C</th>
</tr>
</thead>
</table>

Swimming pool temperature setpoint

<table>
<thead>
<tr>
<th>22 °C</th>
</tr>
</thead>
</table>

Operation manual “1534 - EN” - 15 -
3.8 Information display

Various data can be displayed by pressing the info button.

Depending on the type of unit, configuration and operating state, some of the info lines listed below may not appear.

- Possible error messages: The display shows the "Bell" symbol 🎷.
  ❗️ Consult your heating technician.
- Service messages; Special mode messages: The display shows the "Key" symbol 🔑.
  ❗️ Consult your heating technician.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor drying current setpoint</td>
<td>-</td>
</tr>
<tr>
<td>Current drying day</td>
<td>-</td>
</tr>
<tr>
<td>Terminated drying days</td>
<td>-</td>
</tr>
<tr>
<td>State heat pump</td>
<td>8006</td>
</tr>
<tr>
<td>State supplementary source</td>
<td>8022</td>
</tr>
<tr>
<td>State DHW</td>
<td>8003</td>
</tr>
<tr>
<td>State swimming pool</td>
<td>8011</td>
</tr>
<tr>
<td>State heating circuit 1</td>
<td>8000</td>
</tr>
<tr>
<td>State heating circuit 2</td>
<td>8001</td>
</tr>
<tr>
<td>State cooling circuit 1</td>
<td>8004</td>
</tr>
<tr>
<td>Outdoor temperature</td>
<td>8700</td>
</tr>
<tr>
<td>Room temperature 1</td>
<td>8740</td>
</tr>
<tr>
<td>Room setpoint 1</td>
<td></td>
</tr>
<tr>
<td>Flow temperature 1</td>
<td>8743</td>
</tr>
<tr>
<td>Flow temperature setpoint 1</td>
<td></td>
</tr>
<tr>
<td>Room temperature 2</td>
<td>8770</td>
</tr>
<tr>
<td>Room setpoint 2</td>
<td></td>
</tr>
<tr>
<td>Flow temperature 2</td>
<td>8773</td>
</tr>
<tr>
<td>Flow temperature setpoint 2</td>
<td></td>
</tr>
<tr>
<td>DHW (domestic hot water) temperature</td>
<td>8830</td>
</tr>
<tr>
<td>Heat pump return temperature</td>
<td>8410</td>
</tr>
<tr>
<td>Setpoint (return) HP</td>
<td></td>
</tr>
<tr>
<td>Heat pump flow temperature</td>
<td>8412</td>
</tr>
<tr>
<td>Setpoint (flow) HP</td>
<td></td>
</tr>
<tr>
<td>Swimming pool temperature</td>
<td>8900</td>
</tr>
<tr>
<td>Swimming pool temperature setpoint</td>
<td></td>
</tr>
<tr>
<td>Minimum remaining stop time for compressor 1</td>
<td>-</td>
</tr>
<tr>
<td>Minimum remaining running time for compressor 1</td>
<td>-</td>
</tr>
</tbody>
</table>

3.9 Details

If the electrical power supply has been cut off while the heat pump is operating (electrical power failure or unprogrammed pressing of the on/off switch on the hydraulic unit) the display will show error 370 when the appliance restarts. Do not be concerned, the communication between the outdoor and hydraulic unit will re-establish itself in a few moments.
3.10 Operation of the DHW system

The key enables you to switch the DHW (domestic hot water) mode on and off. The selection is shown by a bar, which appears under the corresponding symbol.

Manual activation: Hold down the DHW key for 3 seconds (Switch from "reduced" to "nominal" until the next time the DHW timer switches over).

To ensure a DHW setting over 45°C, the electrical back-up heating or the boiler must be left on.

In order to optimise operation of the DHW, it is possible to:
- Program the timer settings (parameters 560 to 576),
- Adjust the nominal temperature set point (parameter 1610),
- Adjust the reduced temperature set point (parameter 1612).

Press the info key to obtain the details on the DHW (temperature setting operation).

3.11 Selecting cooling mode

If the installation is fitted with the cooling kit.

The key activates and deactivates cooling mode.

3.12 Pilot-wire
(if Regulation extension kit AVS 55)

It's possible to order up to 15 electric heaters via output "pilot wire".

The "pilot wire" handles only the hourly operation of radiators (comfort mode / reduced mode commutation and Frost protection mode).

The comfort temperature setting should be done directly on the radiator(s). The "pilot wire" does not handle the temperature of the radiators. Refer to the manual supplied with the radiator(s).

Put the radiators on "PROG" mode or "AUTO" mode for piloting by the regulation board.

The difference between the comfort temperature and the reduced temperature is from 3,5 °C.

Frost protection temperature is preset at 8°C (parameter 1014).

In the absence of signal (HP on "Off"), radiators operating in comfort mode

3.13 Telephone modem
(if Regulation extension kit AVS 55)

It is possible to select the freeze protection mode on the heat pump using a modem contact (e.g. Siemens TEL 110).

The telephone command switches the current heat pump settings to freeze protection mode. In accordance with the setting, any temperature requests from the heating circuits and the DHW are ignored.

The heat pump and/or the remote control must not be in freeze protection mode.

3.14 Configuring remote control (option)

In the event that the remote control (see figure 2), is used, on start-up, after initialising for around 3 minutes, the language needs setting:
- Press OK.
- Choose menu "Operator section".
- Choose language "Language" English.
4 Maintenance

In order to insure your appliance operates correctly for many years, the maintenance operations described below are required at the start of each heating season. Generally, these are performed as part of a service contract.

4.1 Regular checks

- Periodically check the water pressure in the heating circuit (Refer to the pressure recommended by the installer - between 1 to 2 bar).
- If filling and re-pressurization are required, check what type of fluid has been used initially (If in any doubt, contact your installer).

- If frequent refills are required it is essential that you look for any leaks.

  The frequent water supply is at risk of scaling for the Heat exchanger and degrades performance and longevity of it.

4.2 Checking the outdoor unit

Dust off the heat exchanger if necessary, being careful not to damage the fins.

Check that there is nothing obstructing the passage of air.

• Checking the refrigeration circuit

When the refrigerant charge is in excess of 2kg (High Power 11 single phase, High Power 14 single phase, High Power 11 3-phase, High Power 14 3-phase and High Power 16 3-phase models) it is compulsory to have an approved after sales service check the refrigeration circuit every year (with a certificate of capacity for the handling of refrigerants). Consult your heating technician.
Date of installation:

Contact of your heating technician or your after-sales service.

This appliance is marked with this symbol. This means that electrical and electronic products shall not be mixed with general household waste. European Community countries(*), Norway, Iceland and Liechtenstein should have a dedicated collection system for these products. Do not try to dismantle the system yourself as this could have harmful effects on your health and on the environment. The dismantling and treatment of refrigerant, oil and other parts must be done by a qualified installer in accordance with relevant local and national regulations. This appliance must be treated at a specialized treatment facility for re-use, recycling and other forms of recovery and shall not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

* subject to the national law of each member state