1 Quick Start Guide

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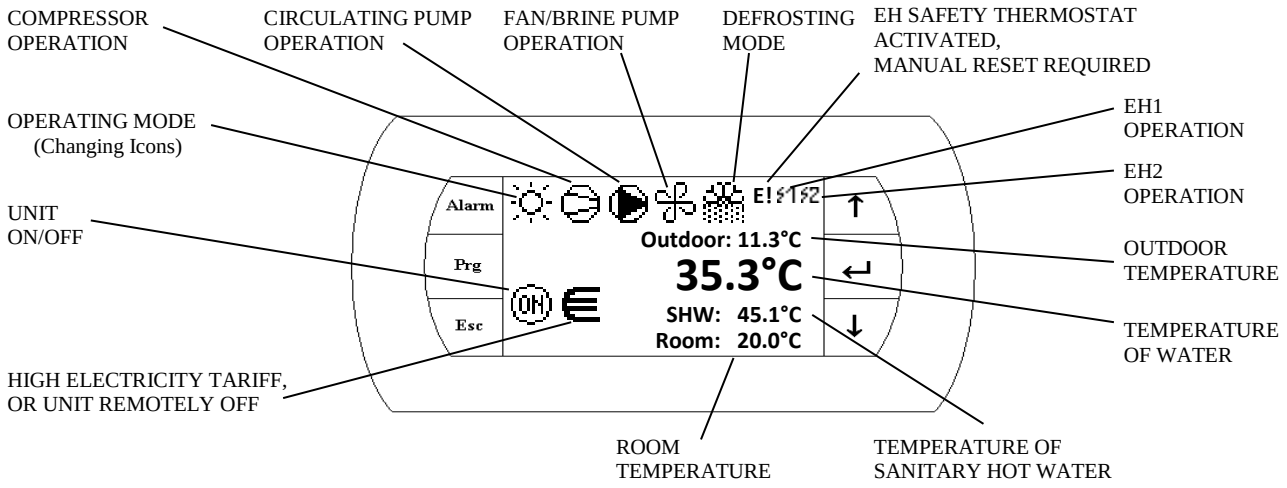
Serves for the basic orientation in displaying and adjusting the heat pump parameters on the main display. For details, open the „pGD1“ INSTRUCTION MANUAL - End User Manual. The heat pump function can also be set from the Internet (optional equipment) and from the room terminal „pAD“ (optional equipment).



1.2 Base description

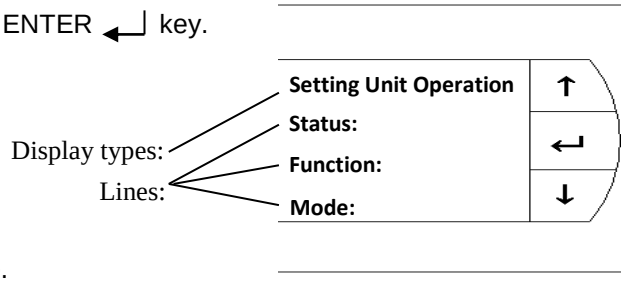
Jumping in the menu/saving parameters – press ENTER ↵ key.

The main screen/back – press ESC key.

Lists – press Up ↑ and Down ↓ key.

Prg key – special function.

Esc (still pressed) + ↵ (repeatly press) – language change.



1.3 Operating Mode - first “changing icon” (when blinking → Summer mode)

Heating

Heating – low outdoor temperature (aux. heaters only, compressor OFF)

Cooling, or Passive Cooling (Brine/water only)

Cooling with Dew Point protection (no humidity condensation possible)

Sanitary Hot Water preparation active

Swimming Pool heating active (optional)

1.4 Next standard “Icons“

Compressor in operation (optional no.1 / 2)

Recommended Unit Service Inspection (not alarm)

Heating Circulating Pump in operation

Fan/Brine Pump in operation

Defrost status indication for Air/Water heat pumps

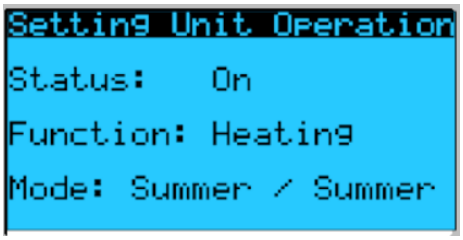
Electric (Auxiliary) Heater Safety Thermostat is activated

El. heater no. 1 in operation

El. heater no. 2 in operation

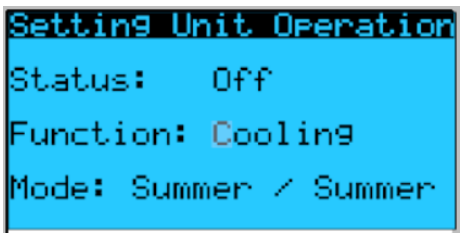
1.5 Status: On / Off – Heat Pump

1. Down ↓ key on the display „Setting Unit Operation“.
2. Press the Enter key to „Status“ line.
3. Use Down ↓ or Up ↑ keys and change ON (OFF).
4. Press Enter key to confirm.
5. Esc key will return to the „Main screen“.



1.6 Function: Heating or Cooling (optional function)

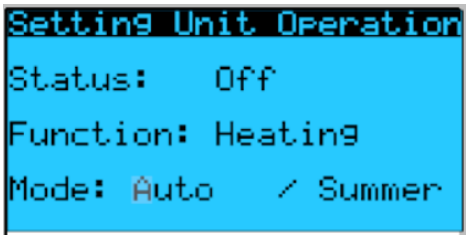
1. Down ↓ key on the display „Setting Unit Operation“.
2. Press the Enter key to „Status“ line.
3. Use Down ↓ or Up ↑ keys and change „OFF” status.
4. Press the Enter key to confirm and go to next „Function“ line.
5. Use Down ↓ or Up ↑ keys and change Auto (Heating or Cooling).
6. 3x press Enter key to confirm and back to „Status“ line.
7. Use Down ↓ or Up ↑ keys and change „ON” status.
8. Press Enter key to confirm.



9. Esc key will return to the „Main screen“.

„Heating“ function is only for heating. Additional settings allow you to activate Heating Circuits and SHW (DHW). When „Cooling“, the Heat Pump primarily cooling. Cooling circuits are in operation. The „Hot water“ and „Pool heating“ (if activated) remains on.
„Auto“ Mode automatically switches between „Heating“ and „Cooling“ mode according to the outside (outdoor) temperature automatically switches between „Winter“ and „Summer“.

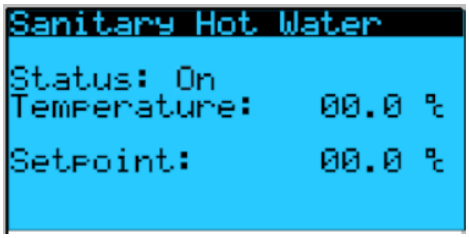
1.7 Mode: Winter or Summer



1. Down ↓ key on the display „Setting Unit Operation“.
2. 3x press Enter key to „Mode“ line.
3. Use Down ↓ or Up ↑ keys and change Summer (Winter) or Auto.
4. Press Enter key to confirm.
5. Esc key will return to the „Main screen“.

„Winter“ mode makes heating and hot water heating.
„Summer“ mode activated only hot water or pool heating (if activated). „Summer“ mode selectively activates cooling mode (if activated).
„Auto“ Mode automatically switches between „Winter“ and „Summer“ mode according to the outside (outdoor) temperature. The preset switching temperatures for „Winter“ are below 13°C and for „Summer“ above 17°C. The mode is displayed as „Auto“ Summer or „Auto“ Winter.

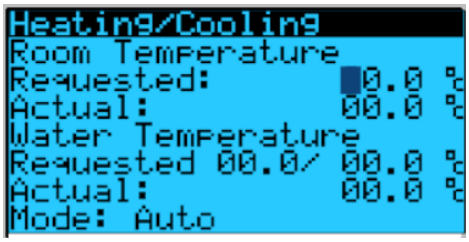
1.8 Switching „On“ - Hot water and / or changing temperature



1. 2x Down ↓ key on the display „Sanitary Hot Water“.
2. Press Enter key to „Status“ line.
3. Use Down ↓ or Up ↑ keys and change ON (OFF).
4. Press Enter key to confirm and/or go to „Setpoint“ line temperature.
5. Use Down ↓ or Up ↑ keys and change temperature (max.45°C).
6. Press Enter key to confirm.
7. Esc key will return to the „Main screen“.

The hot water temperature is usually measured at the bottom of the Hot Water tank. The water flowing out of the tank is warmer by 5-8°C.

1.9 Adjusting - Room Temperature of the main heating circuit



1. 3x Down ↓ key on the display „Heating/Cooling“.
2. Press Enter key to „Requested“ line.
3. Use Down ↓ or Up ↑ keys and change temperature (max.32°C by type).
4. Press Enter key to confirm.
5. Esc key will return to the „Main screen“.

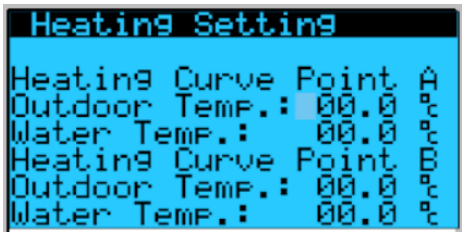
If "pAD room terminal" or "room temperature probe" is installed in the reference room to the main heating circuit, the actual room temperature is displayed on the display (pAD/pGD).

The adjustment will increase or decrease the room temperature to setpoint (the adjustment can be made easily from the "pAD room terminal" using Down ↓ or Up ↑ keys).

If room temperature information is missing → virtual room temperature of 20°C is used. Setpoint temperature changes to the heating water temperature in the appropriate range and the room temperature increases or decreases proportionally (without the possibility of feedback).

1.10 Setting – Weather compensation (equitherm) of the main heating circuit

1. 3x Down ↓ key on the display „Heating or Cooling“ (Next Down ↓ key go to „Cooling Setting“).
2. Press Prg key on the display „Heating Setting“.
3. Press Enter key to „Outdoor Temp“ line (part „Heating curve Point A“).
4. Use Down ↓ or Up ↑ keys and change temperature (-30/30°C or 0/40°C by type).
5. Press Enter key to confirm and go to next „Water Temp“ line.
6. Use Down ↓ or Up ↑ keys and change temperature (20/50°C or 14,5/30°C by type).
7. Press Enter key to confirm and/or go to next „Outdoor Temp“ line (part „Heating curve Point B“).
8. Use Down ↓ or Up ↑ keys and change temperature (-30/30°C or 0/40°C by type).
9. Press Enter key to confirm and go to next „Water Temp“ line.
10. Use Down ↓ or Up ↑ keys and change temperature (20/50°C or 14,5/30°C by type).
11. Press Enter key to confirm.
12. Esc key will return to the „Main screen“.



Note: **„Cooling Setting“** has similar settings.

Weather compensation manage equitherm control curve for heating water temperature and the heating / cooling power according to outside (outdoor) temperature. The water temperature is measured at return pipe of the circuit.

If "pAD room terminal" or "room temperature probe" is not installed, the equithermal control directly controls the heating of the house. In this case, the curve must be precisely set for the object (project heat losses).
If the "pAD room terminal" or "room temperature probe" is connected, a coarse setting is sufficient and the curve is calibrated in according to the actual room temperature.

If „Next heating circuits HC1, HC2“ etc. are activated, setting is in accordance with the main heating circuit (analogous setting). The display of „Next heating circuits HC1, HC2“ etc. can be displayed in the "Heating / Cooling" displays by pressing Down ↓ key repeatedly. If some „Next heating circuits HC1, HC2“ etc. are active, the main heating circuit automatically accepts requirement the water temperature request from this „Next heating circuits HC1, HC2“ etc. ("Heating" mode from hottest „Next circuit“ and "Cooler" mode from coolest „Next circuit“).

1.11 Troubleshooting: malfunction, the alarm button lights or flashes

13. Inspect Main circuit-breaker in the Heat Pump (or Main switch-by type). Also check the thermal protection of the compressor (or circuit-breaker – by type).

14. The alarm backlight flashes. There was a random failure. Press Alarm button to display the alarm type (Active Alarms). After 6 minutes (by type) the alarm automatically resets and the Heat Pump is put into operation. The alarm also flashes when the device is switched on as part of the self-diagnosis process, and after 6 minutes the Heat Pump starts up.

15. The backlight is constantly on. Repeated occurrence of the same Alarm. The device is decommissioned. It can be reset by pressing 2x Alarm button consecutively or using the main switch (or follow Alarm instructions shown).

16. When the pump alarm or flow alarm is displayed, clean the heating water filter, clean the system, check its pressure.

17. Frost protection is triggered at low heating / cooling water temperature. The heating function temporarily takes over the built-in „electric heater“ (boiler) until the water temperature reaches the required limit.

18. The electric boiler does not work if „Safety thermostat“ is activated. Inspect the circuit-breaker and next devices (in cooperation with electrician expert). This is due to reduced flow or by sucking hot water into a Heat Pump from another source. Unscrew „Safety thermostat“ cover and press the button. Before opening the Heat Pump cover, always disconnect the power supply through the circuit breaker in the cabinet!

19. Other problems - Follow „pGD1“ INSTRUCTION MANUAL - End User Manual - chap. Troubleshooting.

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Modifications and errors excepted. Check: Ing. J. Jiranek, revision: P. Kurfirt