



OPERATING INSTRUCTIONS

HPW300 drinking water heat pump

A. PROXON T300 SETUP DIAGRAM	31
B. CONTROL / DISPLAY	32
C. Activating the Basic Menu	33
D. Main Menu	33
E. Selecting the Operating Mode	33
F. Water Temperature	34
G. Heater Rod / BOOST	34
H. Settings	35
H.1 Temperature of electric heater rod	35
H.2 Language	36
H.3 Display Standby	36
H.4 Legionella protection function	37
H.5 PV priority	37
H.6 Time / Date	38
I. System	39
J. Installer	39
K. Error Messages	39
L. Floor Heating Module (Optional)	40
M. FAQs	41

HPW 300 domestic hot water heat pump with a capacity of 300 litres.

The HPW 300 drinking water heat pump generates all-year-round up to 800 litres of hot water per day. It requires a short heat-up time, and is therefore ideally suited also for larger households.

The heat pump generates the energy from the waste heat of the fresh air, or from the exit air of the HPV unit.

The integrated air-to-water heat pump heats the hot water to max. 55° C. If necessary, the temperature can be set to max. 75° C*. HPW 300 is equipped with an interface to the on-site solar panel**. When using the optional BOOST function HPW 300 becomes a real "hot water turbo machine".

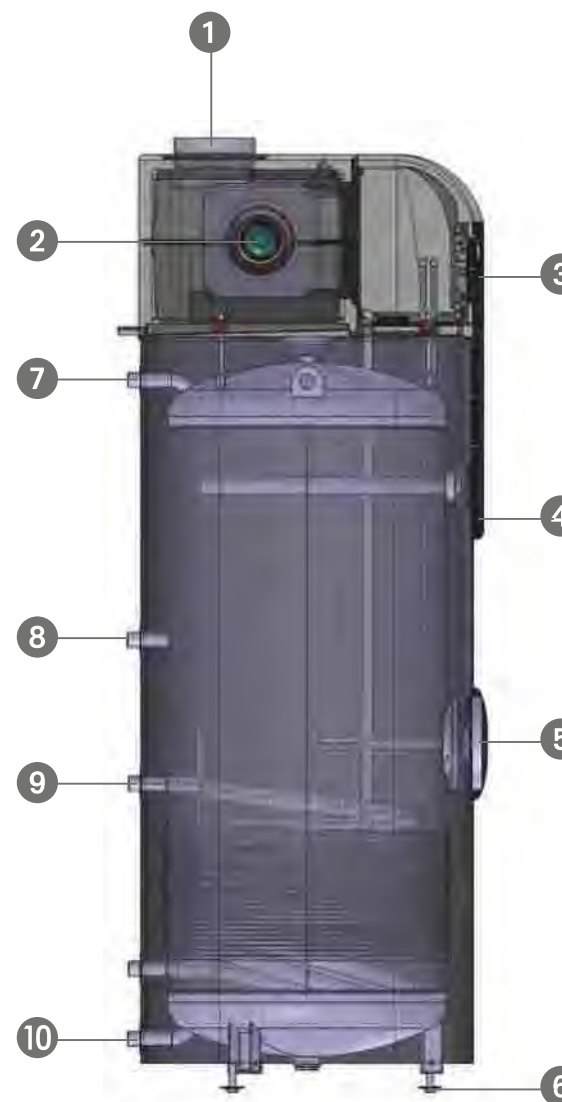
HPW 300 is also equipped with an optional floor heating system. You can comfortably heat up to 120 m² of floor space (e.g. in a bathroom). The specially developed "floor heating module" (see Page 42) is used for this purpose.

Outstanding heat insulation, microprocessor control, effective protection against legionella, and easy maintenance due to accessibility of all components make HPW 300 an innovative and future-proof system component within HPV Series comfort technology.

* With heater rod / BOOST

** from version 11/15

A. SETUP DIAGRAM



- 1 Air fittings
- 2 Heat pump
- 3 Display
- 4 Galvanic anode
- 5 BOOST Function
- 6 Feet, with height adjustment
- 7 Hot water outlet
- 8 Circulation
- 9 Additional heat exchanger (optional connection for the "floor heating system" module)
- 10 Cold water connection



Exit air and fresh air intake



Replaceable insulating cover


B. CONTROL / DISPLAY



HPV 300 is equipped with a microprocessor control with an illuminated display. It contains settings for water temperature, Legionella protection function, priority switching of the solar panel*, and for activating the boost function.

* Not part of the HPV scope of delivery

The display provides the following indicators or input options:

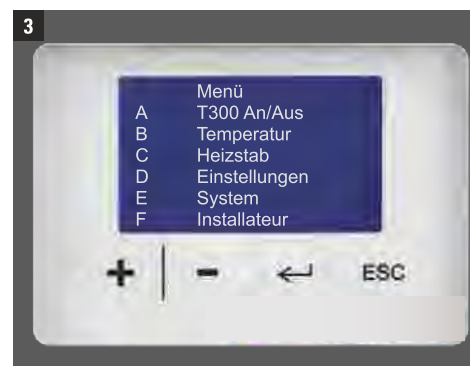
- 1 Time
- 2 Temperature
- 3 Heater rod operating mode:
 = Electric heater rod / BOOST (mode active)
- 4 Main menu, program step forward or raise temperature
- 5 Main menu, program step back or reduce temperature
- 6 Confirm input
- 7 Leave selected option

C. Activating the Basic Menu



Initially, the display is darkened (standby mode). Touch any key (4, 5, 6 or 7) to access the basic menu (see Fig. 1). The current water temperature, the time, and the status of the heater rod / boost are displayed here.

D. Main Menu

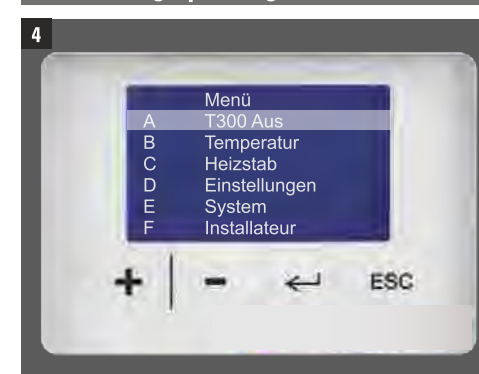


Touch any key (4, 5, 6 or 7) to change from the basic menu to the main menu.

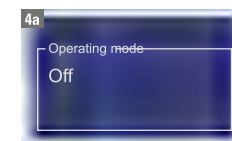
In the main menu, you can access 6 subsections (A to F) using the + and - keys.

Confirm with ←.

E. Selecting Operating Modes



When you select the **A** menu item using the + / - buttons, you can select the following functions:

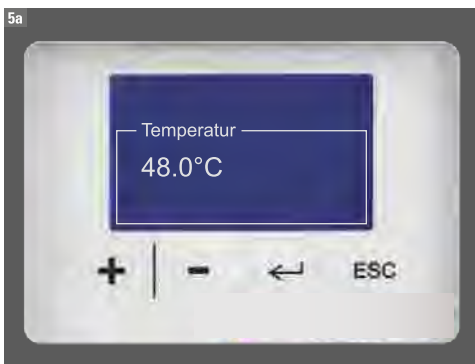


Off Press ← to confirm. The device is switched off.



On Press ← to confirm. The heat pump is switched on.

B. Water temperature



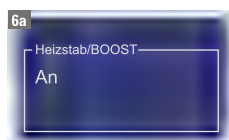
Once you have selected the **B** menu item using the **+** / **-** buttons, set the required water temperature with the **+** / **-** buttons. Press **↵** to confirm.

For cost reasons, we recommend a maximum water temperature of 48° C (except for legionella protection).

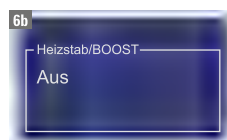
G. Heater Rod / BOOST



After selecting the **C** menu item using the **+** / **-** buttons, you can select the following functions:



Heater rod/BOOST **ON**.
Confirm with **↵**.



Heater rod/BOOST **OFF**.
Confirm with **↵**.

Heater rod/BOOST is disabled in the default configuration.

If water temperature falls below 43° C, the heater rod/ BOOST is switched on in parallel to the heat pump until the set water temperature is reached (see also D01, page 29 Heater rod/BOOST).

(The operating mode of the heater rod / BOOST is shown on the display, see ③ on page 34).

BOOST option:

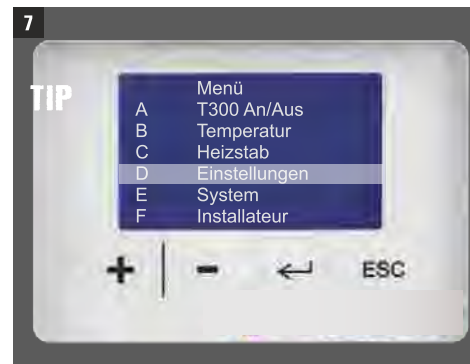
The device can be equipped with a BOOST function. In the BOOST mode, 1.5 kW heater rod is replaced by a heater rod with 4.5 or 9.0 kW (3x 400 V/50 Hz).

This shortens the heat-up time of the water by 3 to 6 times.

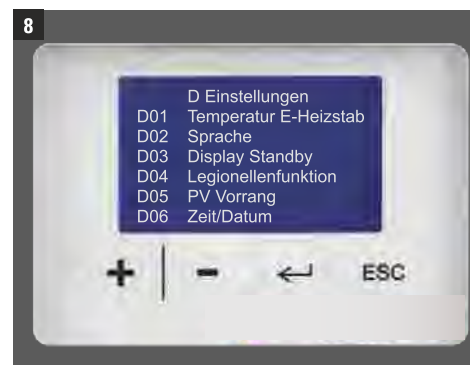
If it is enabled, you can activate it via the tank temperature control or the PV priority switching.

Note that high water temperature (> 48° C) and using heater rod or BOOST function may result in higher power consumption.

H. Settings

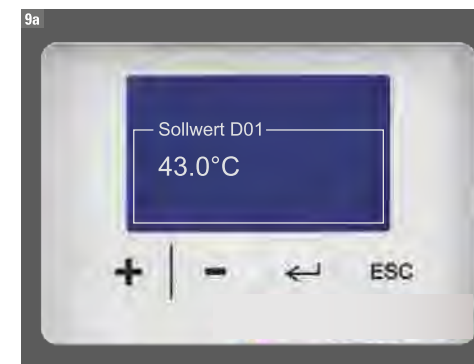
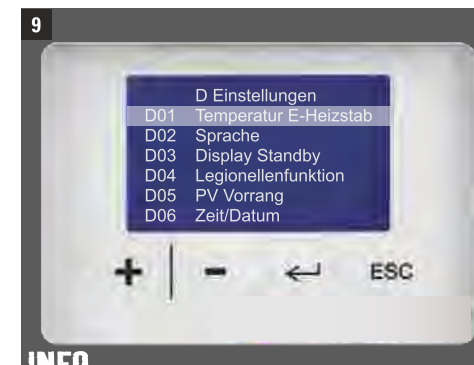


After selecting the **D** menu item using the **+** / **-** buttons, select the "Settings" menu item. Confirm with **↵**.



In the "Settings" menu item, you can find 6 submenu items, which you can select using the **+** / **-** buttons. Confirm each entry with **↵**.

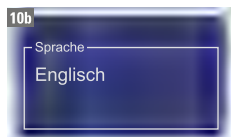
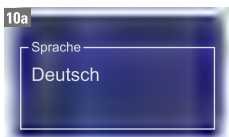
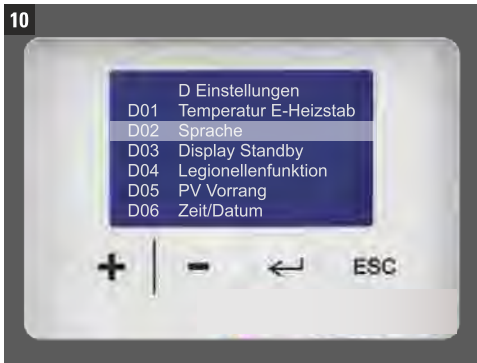
H.1 Temperature of electric heater rod



Target temperature of electric heater rod

Here, you can set the maximum water temperature at which the heater rod/boost should work in parallel to the heat pump. When the heater rod/boost is activated, the heating time is reduced. Note that using heater rod/BOOST may result in higher power consumption.

H.2 Language

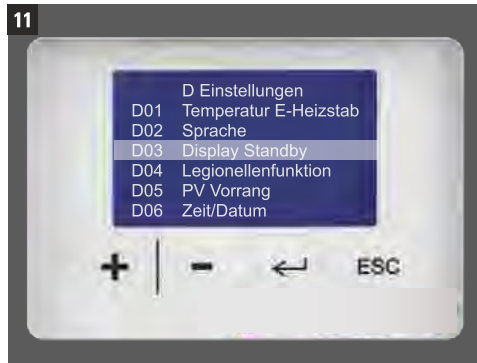


Language

Choose between German and English. Confirm the entries with ←.

English. Confirm the

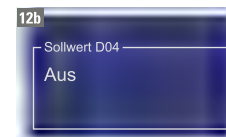
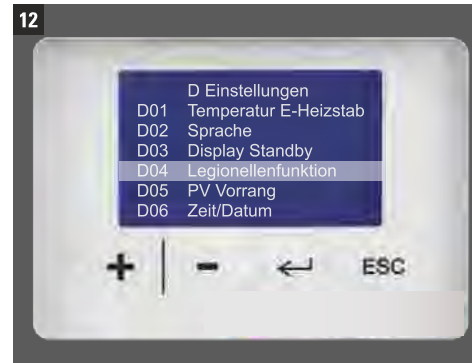
H.3 Display Standby



Display Standby

Here, you can set for how long the display should be active. Confirm with ←. The display goes into standby mode afterwards.

H.4 Legionella protection function

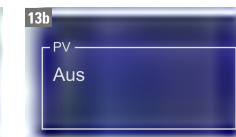
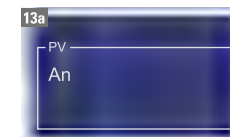
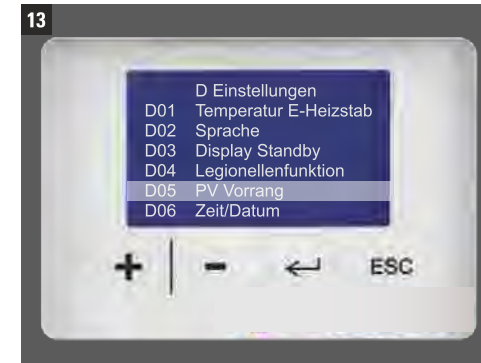


Legionella protection function

The Legionella protection function is disabled by default. When this function is enabled, the tank will be automatically heated to 70° C once per week.

We recommend activating this function if you do not use hot water for more than one week.

H.5 PV priority



PV priority

If the HPW 300 is connected to a solar panel (PV), the heat pump and the heater rod / BOOST are activated if the PV system generates enough electricity. This will heat the water to 70° C.

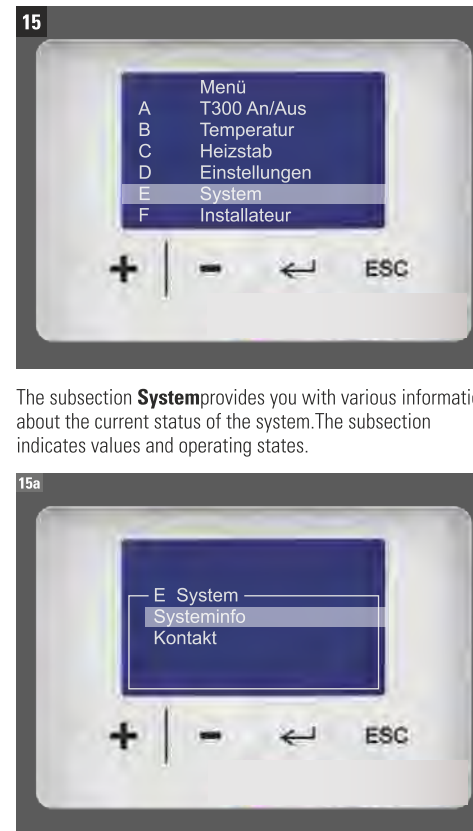
H.6 Time / Date



Time/Date

This is where you can set the time, date, and daylight saving time. Confirm the entries with \leftarrow .

I. System



System info:

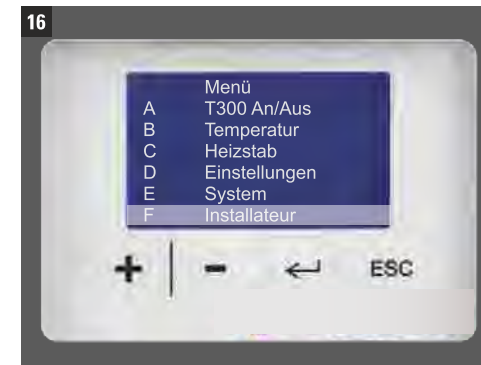
Temperature display of individual sensors Relay status
report off/on

T5 Pre-evaporator	R2 Compressor
T6 Evaporator	R3 Solar pump
T20 Tank at the bottom	R4 Electric heater rod
T21 Tank in the centre	R5 Fan
T13 Compressor	R6 Defrosting
T11 Suction gas	
T9 Extra	

Contact:

Here are the contact details of the company
Zimmermann GmbH & Co. KG.

J. Installer

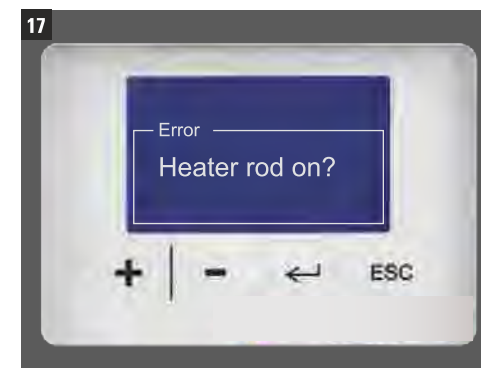


This function is reserved for PROXON technicians.

K. Error Messages

Errors occurring in the device are displayed in the main menu. The system then switches to emergency mode; the heat pump and fan are switched off.

You will be asked if the heater rod/BOOST should be activated in emergency mode to ensure hot water supply.



In case of errors, contact

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Lüftungs- und Wärmesysteme GmbH & Co. KG
Phone: +49(0)271 405730-27
Fax: +49(0)271 405760-69
kundendienst@proxon.de
www.proxon.de

L. Floor heating module (optional)



The HPW 300 domestic hot water heat pump can be equipped with an additional module for connection to a water-based floor heating system (max. 20 m² surface).

The module is delivered as one component. It will be connected on-site to the internal auxiliary heat exchanger of the HPW (which then won't be available anymore for connection to a solar heating system).

The module is equipped with an integrated heater rod, and a constant flow temperature control.

The system is operated by means of a panel in the respective bathroom. The flow temperature will be set by your HPW technician.

Activation and time control is carried out via enclosed panel in the respective bathroom.

Read the enclosed operating instructions before programming the timer!

Lead time of approx. 2 hours is required to heat the floor. The timer should be set accordingly. The floor heating system should be used only when using the bathroom (when bathing or showering).

Note that switching the floor heating system on results in higher energy consumption.

M. FAQs

How many litres of hot water does the HPV drinking water heat pump hold?

T300 holds 300 litres of water, which can be heated to the required target temperature.

How hot is the water?

Water temperature is set to 48° C by default. You can set this value between 15° C and 60° C.

How long does it take for a cold tank to heat up?

When a tank is put into operation, the heating process takes approx. 4 hours (heat pump and heater rod in parallel).

When the BOOST function is used, the heat-up time is reduced accordingly.

Can I connect a solar heating system?

Yes; you can connect it to the auxiliary heat exchanger in the unit. You cannot connect the solar panel if your device is equipped with the optional bathroom floor heating system.

What do the heater rod and BOOST do?

At times of increased hot water demand (when filling a large tub or operating "rain shower"), the heater rod or BOOST ensure that water is heated rapidly.

When should I enable the Legionella protection function?

Activate the Legionella protection if you won't consume hot water for more than one week (e.g. if you are going on a holiday).

Can I operate HPV using electricity generated by solar panel?

Yes; the system is equipped with PV priority switching (see Page 31, D05).



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