

Commissioning log for heat pump

DR-0105-EN / v11-202207

> Return by fax +43 7252 / 50002-953 or by e-mail service@solarfocus.at



System operator

First name / surname
Street
Postcode / city
Telephone
Email
Responsible SOLARFOCUS sales representative
.....

Company / heating engineer

Company name
Street
Postcode / city
Telephone
Fax No.
Email
Name of commissioning technician

i To commission the heat pump, the return temperature from the heating circuit must be > 16°C (depending on the outside temperature, see installation instructions DR-0072, chapter *Initial operation*).

1. Heat pump data

- a. **Serial number:**
- b. v_{amp}^{air} K 08 K 10 K 12 K 15
- c. Electric heating element: no 3 kW 6 kW 9 kW
- d. Other heat generators:
Type:
Capacity: kW

2. Heating system data

- a. Building: Heated surface (estimated): m²
- b. For heater restoration:
Previous consumption of oil/gas:

3. Location of the heat pump

- a. The requirements of the foundation are fulfilled:
Horizontal version: yes no
Sealed against rodents: yes no
- b. Hydraulic connection of the heat pump:
 from underneath from rear
- c. Condensate drain line according to specification:
 yes no
Seepage: Drain into frost-free depth, seepable substrate; [introduction into drain](#): Installation with gradient, trap (depending on the discharge into rainwater drainage or sewerage)
- d. When connecting from rear: Has the minimum insulation thickness (19 mm) been observed for the heating line: yes no

- e. Air intake side:
Distance to the next wall: m
- f. Air outlet side:
Distance to the next obstacle: m
Distance to the property line: m
- g. Frost-proof installation of the connection line (e.g. heat pump pipe) from the heat pump to the house installation:
 yes no

4. Power supply company, grid operator

- a. Company:
- b. Electric heating element affected by blocking period: yes no

5. Electrical installation carried out by:

Company:
Contact person:
Telephone:
Street:
Postcode, town:

6. Electrical connection

- a. Wiring in accordance with terminal diagram: yes no
- b. The following components are electrically connected:
Scroll compressor yes no
Control current yes no
Electric heating element yes no
OTR wiring correctly executed yes no

- c. Bus cable
The bus cable was routed correctly: yes no
Type and make of bus cable:
.....
- d. The position of the sensors agrees with the system schematic: yes no
- e. The sensors are connected/attached correctly and deliver plausible values: yes no

7. Hydraulic connection

- a. Plant schematic
 SOLARFOCUS standard schematic:
vampair-.....
e.g. vampair-H-SPS2R-FWMoZ-Solar
 Customer specific schema, name:
.....
The hydraulics were connected according to the system schematic: yes no
- b. The heat pump is decoupled from the building (i.e. flexible hoses were used): yes no
- c. The heating system is filled, air-free and tight: yes no
- d. A dirt and sludge trap is installed (= condition for guarantee and warranty claims): yes no
- e. The minimum defrost volume is provided by:
 Underfloor heating without single room control
 Buffer tank

- f. Heating water – measured pH value:
- g. Pipework (manufacturer, pipe dimension)
Photos added to form with visible pipe designation: yes no
Connection to DHW tank/buffer tank:
Type: Dimension:
(e.g. INOX press fitting, Ø28mm)
Heat pump to heating circuit distributor:
Type: Dimension:
(e.g. REHAU-RAUTITAN, sturdy 32)
Smallest pipe dimension between heat pump and heating circuit distributor:
Type: Dimension:
(e.g. Geberit MEPLA, e.g. d 40)
- h. Is the heat pump used for cooling rooms/spaces: yes no
- i. System (lines, buffer tank) lagged tightly to prevent diffusion: yes no

- j. Have corrosion-resistant materials been used for the lines (not corrosion-resistant is: C-steel, galvanised pipes, galvanised components, "black" fitting): yes no
- k. Is a room temperature sensor with humidity sensor (or dew-point sensor) used: yes no

8. DHW preparation

DHW preparation with SOLARFOCUS heating heat pump: yes no
Hot water requirement for persons

- 8.1 DHW tank yes no

Make/type:
Surface: m²
Tank volume: l

- 8.2 Fresh water module yes no

FWM – type:
Circulation present: yes no

- 8.3 Combi tank/HYKO yes no

Type:
Tank volume: l

9. Buffer tank

Buffer tank present: yes no
Make/type:
 SOLARFOCUS stratified buffer tank
 SOLARFOCUS buffer tank
 foam insulation
 not foamed
 third-party brand:
Buffer tank volume: litres

10. Heating circuit

- a. Number of heating circuits: mixed: unmixed:
- b. Heating circuit supplied directly via primary circuit pump: yes no
- c. Overflow valve installed: yes no
- d. Heating circuits hydraulically decoupled via buffer tank: yes no
- e. Connection via T-hydraulics: yes no
- f. Heating circuit supply: Buffer tank upper Buffer tank centre
- g. All heating circuits can be opened: yes no
If *no*: Reason:
- h. Is a single room control available:
 yes - for all rooms
 Partially - the heating area without single room control is m².
 No

11. System flow rate

- a. Flow rate in *heating mode*, at
- | | |
|-------------------------|-----|
| 100% pump control | l/h |
| 60 % pump control | l/h |
| 30 % pump control | l/h |
- b. Flow rate in *domestic hot water mode*, at
- | | |
|-------------------------|-----|
| 100% pump control | l/h |
| 60 % pump control | l/h |
| 30 % pump control | l/h |

12. Handover of the system to the operator

- a. The menu navigation of the control/operation has been explained to the system operator: yes no
- b. The system operator has been informed of the risk of frost in the event of a power failure: yes no
Notice: The risk of frost increases if power outage is >24 h
- c. The subject of *power company blocking times* has been discussed (impact): yes no
- d. Required maintenance activities have been discussed: yes no
- e. The system may be listed by SOLARFOCUS as a reference system: yes no
- f. The system operator permits SOLARFOCUS to view the system: yes no

13. Commissioning

13.1 Type of commissioning

- Initial commissioning
 Repeat of a commissioning

13.2 Details and parameters

- a. The commissioning routine of the control has been carried out: yes no
- b. Check the oil temperature (this should be 10°C above the outside temperature).
 Too low, compressor must be warmed up.
 Temperature OK, no warm-up required.
Caution: Heat the compressor over a large area. Maximum surface temperature < 60°C.
- c. Switch on the heat pump - does the heat pump achieve stable operation?
Suction gas superheating stable: yes no
Evaporation temperature stable: yes no
Condensation temperature stable: yes no
Fault messages: yes no
which:
- d. The commissioning data was saved to a USB memory device: yes no

13.3 Status of commissioning

- Commissioning has been successfully completed.
 Commissioning has been completed, the following points require attention on-site:
- Commissioning was aborted, follow-up appointment is required, reason:.....
.....

14. Control and external connections

- a. Control data:
Display serial number:
Software version:
- b. External connections:
 Network connection available:
 SOLARFOCUS-Connect
 mySOLARFOCUS app
 Modbus-TCP, -server (Loxone, KNX, etc.)
- c. Photovoltaic self-consumption optimisation:
 Photovoltaic system available
Inverter type:
 Smart grid (i5/i9)
 Direct connection to the inverter
 External Modbus with inverter (Loxone, etc.)

15. Remarks, supplements (list no.)

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.....

16. Signature of system operator

DSVGO notice / data protection agreement

- I, the undersigned, declare that I am of full age and have full capacity to act.
- I hereby declare that I agree to my voluntarily provided details listed above being saved by SOLARFOCUS for further processing in accordance with the DSGVO and used for sending information material about our products, invitations to open days, campaigns and product supplements by email or post. The details may be forwarded to third parties for further processing (such as: heating engineers, installation companies etc.).
- I acknowledge that I have the right to withdraw the permission hereby given at any time in full or in part, effective on the day for the future.

Date:

.....

17. Signature of commissioning technician

Date:

.....

Fault rectification / confirmation of completion

The faults noted in the commissioning report must be removed immediately (basis for warranty). Within six weeks after commissioning by SOLARFOCUS customer service or its authorised partner, confirmation of completion must be sent to the SOLARFOCUS Service Department. This confirmation of completion must contain all mentioned defects and the client's signature.