

HEAT PUMP SYSTEMS

QUESTIONNAIRE FOR SYSTEM ENGINEERING AND SYSTEM DESIGN



ENGLISH

Please complete the following fields fully on your PC. Print out and sign the questionnaire and then send it to the relevant sales partner.

1. Project data

Sender	
Sales partner	_____
Cust. no. / Completed by	_____
Company	_____
Contact	_____
Telephone / Mobile	_____
Fax / Email	_____
Street, no.	_____
Postal code, town	_____
Country	_____

Intended build	
Building owner / Project	_____
Contact	_____
Telephone / Mobile	_____
Fax / Email	_____
Street, no. (place of construction)	_____
Postal code (place of construction)	_____
Country	_____
Comments on intended Build	_____

2. Building details

Building plans and intended purpose	
Current dimensioned building plans are enclosed	_____
Private use	_____
Commercial or public use	_____
Non-residential buildings	_____
Detached house	_____
Apartment building, residential units:	_____
Old building, Year of build:	_____
New build	_____
Standard design temperature	_____

Power voltage	
230 V	_____
400 V	_____

Standard building heat load	
Heat load (in kW)	_____

Estimated heating load determination	
HT' W/m*K	_____
Enveloping surface (in m ²)	_____
Volume (in m ³)	_____

3. System design specification

3.1 Heat pump system application

Heat pump system	
For central heating	_____
For DHW heating	_____
For swimming pool water heating	_____

3.2 Heating system

Heat exchanger	Flow °C	Return °C
Area heating system	_____	_____
Heating system with radiators	_____	_____
Fan convectors	_____	_____

Buffer cylinder	
Without buffer cylinder	_____
Wall-mounted buffer cylinder	_____
Floor-standing buffer cylinder	_____
Low loss header	_____
Combi cylinder	_____

Solar thermal system

For DHW heating	_____
For central heating backup	_____

For swimming pool water heating	_____
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3.3 DHW heating

DHW heating	
Including central heating heat pump	_____
With DHW heat pump	_____

With DHW circulation line	_____
Excl. DHW circulation line	_____

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DHW demand per day and person

Number of occupants	Required value: (l/person at 45 °C)
Approx. 30 l at 45 °C, Δ low consumption	Own calculated value
Approx. 40 l at 45 °C, Δ average consumption	Reheating with oil, gas, solid fuel
Approx. 50 l at 45 °C, Δ high consumption	Direct electric heating
	Reheating output (in kW)

3.4 Swimming pool

Swimming pool

Indoor pool	Length, in metres
Open air pool	Width, in metres
Usage period from: to:	Depth, in metres
With swimming pool cover	Volume (in m ³)
Tile color	

3.5 Building cooling

Cooling system

Active cooling	With area cooling
Passive cooling	With fan convectors

3.6 Energy supplier

Power-OFF periods

Number of power-OFF periods per day	Duration of a power-OFF period in hours
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3.7 Heat source system

Geothermal probes

Number of geothermal probes	Extraction rate per probe (in W/m)
Depth of the probe bore holes	

Geothermal collector

Average extraction rate (in W/m ²) (sand 20 W/m ² , clay 25 W/m ² , wet clay 30 W/m ²)	Average heat source entry temperature (in °C)
	Unsealed heat source area that can be used (in m ²)

Groundwater

Average heat source entry temperature (in °C)	Groundwater depth (in metres)
Water analysis enclosed	

Air

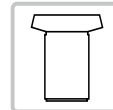
Indoor installation of the heat pump	Direct distance from the heat pump to the next building (in metres)
Outdoor installation of the heat pump	

3.8 Heat pump operating mode

Operating mode
Mono mode
Mono energetic
Dual mode - parallel
Dual mode - alternative

3.9 Additional heat sources

Heat source
Oil booster heater with 3-way/4-way mixer
Wall mounted gas boiler
Gas boiler
Solid fuel boiler (wood/pellet)
Direct electric



3.10 Printing and sending the design questionnaire

Printing the design questionnaire

Print out and sign your questionnaire and then send it to the relevant sales partner.

Further construction documents

The more detailed and accurate the description of your system or building, the more precisely we can plan your project. If you have any further technical drawings, photographs and specifications for the building, please send us a complete set.

Legal note

You confirm that the details are complete and correct. We use them as a basis for the design and calculation of your system. We accept no liability for calculations or designs based on incorrect, inaccurate or incomplete details. We accept no liability nor offer any warranty if our design is used for the creation of a system using third party components.

Date

Signature
