



High capacity Heat Pumps & Energy centres
SmartHeat Titan & SmartHeat Titan Z

Project request

Customer data

Company _____

Contact person _____

Project data

Name _____

Address _____

1. Type of application

- Heating Cooling
- Reversible (Heating or cooling) Dual operation (Heating and cooling)
- Hot domestic water preparation

2. Requirements Heating Operation

Capacity demand:

Building _____ kW

Hot domestic water _____ kW

Required temperatures:

Heating T_{out} ____°C T_{back} ____°C

Hot domestic water T_{out} ____°C T_{back} ____°C

Type of operation

- monovalent bivalent-parallel bivalent-alternative

If bivalent, Fraction of heating capacity covered by the heat pump _____% / _____ kW

3. Requirements Cooling operation

Cooling demand:

(Building) Cooling capacity _____ kW

Fraction of cooling capacity covered by the heat pump _____% / _____ kW

Type of cooling

Passive / Natural Cooling Active Cooling

Required temperatures:

Cooling circuit T_{out} _____°C T_{back} _____°C

4. Heat pump type

Brine/water heat pump

with vertical probes with horizontal collector _____

Brine temperature _____ °C

Water/Water heat pumps

groundwater surface water
 sewage water _____

Heat source temperature _____ °C

Feasible flow rate _____ m³/h

Water quality checked? Yes No

Separating heat exchanger required? Yes No

Air/Water Heat Pump

Ambient air Exhaust air from _____

Mean temperature _____ °C Feasible flow rate _____ m³/h

5. Technical requirements

max. outgoing temperature heating operation _____ °C (feasible: 55°C / 68°C / 75°C)

min. outgoing temperature cooling operation _____ °C (feasible: 6°C / 10°C)

No. of capacity levels _____

No. of compressors _____ No. of refrigerant circuits _____

Medium primary / secondary circuit _____ / _____

- Additional sound protection (reduction of sound pressure level ~ 10dB)? yes no
- Max. dimensions of heat pump
width: _____m depth: _____m height: _____m
- Possibility of controlling by BMS (Building Management System)? yes no
Used protocol LonBus ModBus Bacnet
- Remote sensing by integrated WebCard? yes no

6. Integrated Components (only Titan Z)

- Integrated separating heat exchanger
- Integrated passive cooling unit (plate heat exchanger, 3-way-valves)
- Integrated hot gas heat exchanger
- Integrated circulation pumps
 - Buffer loading pump pressure loss pipes and buffer _____kPa
 - DHW loading pump pressure loss pipes and buffer _____kPa
 - primary circuit pressure loss primary circuit _____kPa
- Dual operation (Internal Hydraulic device for Heating & Cooling at the same time)

6. Additional information

Please send your request by email or Telefax.

We are pleased to support you with optimized, high-efficient heat pump technology and the experience of 20 years own development and production.

SmartHeat Deutschland GmbH
Am Augraben 10
D-18273 Güstrow
Germany

Tel +49 3843 2279 0
Fax +49 3843 683132
info@smartheat.de