

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

Project request

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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 wate	r _		kW		
Required temperatures:						
Hea	ating	T _{out}	°C	T _{back} ℃		
Hot	domestic water	T _{out}	°C	T _{back} ℃		
Type of operation						
	monovalent	(bivalent-parallel		bivalent-alternative
lf bi	valent, Fraction of h	neating ca	ipac	ity covered by the heat pur	np _	% / kW

3.	Requirements Cooling operation						
<u>Co</u>	Cooling demand:						
	(Building) Cooling capacity kW						
	Fraction of cooling capacity covered by the heat pump% / kW						
Тy	pe of cooling						
	Passive / Natural Cooling Active Cooling						
<u>Re</u>	quired temperatures:						
Со	oling circuit T _{out} °C T _{back} °C						
4.	Heat pump type						
	Brine/water heat pump						
	\square with vertical probes \square with horizontal collector \square						
	Brine temperature ℃						
	Water/Water heat pumps						
	□ groundwater □ surface water						
	□ sewage water □						
	Heat source temperature ℃						
	Feasible flow ratem ³ /h						
	Water quality checked? Yes No						
	Seperating heat exchanger required? Yes No						
	Air/Water Heat Pump						
	Ambient air Exhaust air from						
	Mean temperature $^{\circ}$ Feasible flow rate m ³ /h						
5.	Technical requirements						
	max. outgoing temperature heating operation $^{\circ}$ C (feasible: 55 $^{\circ}$ / 68 $^{\circ}$ / 75 $^{\circ}$ C)						
	min. outgoing temperature cooling operation $^{\circ}$ C (feasible: 6 $^{\circ}$ / 10 $^{\circ}$ 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)? us uno						
	Max. dimensions of heat pump						
	width:m d	lepth:m hight:m					
	Possibility of controlling by E	🗆 yes 🗖 no					
	Used protocol	🗅 LonBus 🗖 ModBus 🗖 Bacnet					
	Remote sensing by integrate	d WebCard?	🗅 yes 🗅 no				
6.	5. 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 over 25 years own development and production.

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