TECHNICAL DATA WEIDER – Heat Pumps

HEAT PUMP TYPE	SW500	SW600	2SW500	2SW600

GROUNDWATER OPERATION with a feed temperature of 10 °C and heating flow temperature of 35 and 50 °C

°C		35	50	35	50	35	50	35	50
Heating output	kW	47	43	58	53	94	86	116	106
Electric power consumption	kW	7,8	10,8	9,7	13,3	15,6	21,6	19,4	26,6
Coefficient of performance (Δt 10 K)		6	4,0	6	4,0	6	4,0	6	4,0
Coefficient of performance (Δt 5 K)		5,6	3,5	5,6	3,5	5,6	3,5	5,6	3,5
Volume flow rate - groundwater	m³/h	10		12		20		24	
Pressure drop - evaporator	mbar	260		260		260		260	
Temperature range - groundwater	°C	+ 7 to +20							

At groundwater operation it is necessary to use a secondary heat loop for these types of heat pumps.

BRINE OPERATION with a feed temperature of 0 °C and heating flow temperature of 35 and 50°C

°C		35	50	35	50	35	50	35	50
Heating output	kW	36	33	44	40	72	66	88	80
Electric power consumption	kW	7,8	11	9,6	13,3	15,6	22	19,2	26,6
Coefficient of performance (Δt 10 K)		4,6	3,0	4,6	3,0	4,6	3,0	4,6	3,0
Coefficient of performance (Δt 5 K)		4,3	2,6	4,3	2,6	4,3	2,6	4,3	2,6
Volume flow rate - brine	m³/h	8		10		16		20	
Pressure drop (25% ethylene gl.)	mbar	190		200		190		200	
Temperature range - brine	°C	-6° to +20							

JOINT DATA for groundwater and brine operation

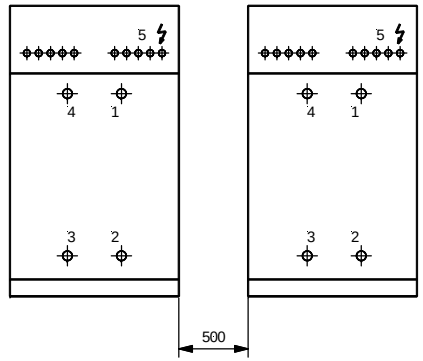
Volume flow rate - heating water	m³/h	4 to 8	5 to 11	8,1	10,3
Pressure drop - heating water	mbar	40 to 150	40 to 150	300	340
Temperature difference Δt	°C	5 to 10	5 to 10	7 to 10	7 to 10
Flow temperature	°C	25 to 55° (at ground water up to 60°)			
Mains connection	V	2x 3 x 230/400	2 x 3 x 230/400	3 x 3 x 230/400	3 x 3 x 230/400
Operating current max.	A	25	32	50	64
Electric power consumption max.	kW	13,6	17,1	27,2	34,2
Starting current	A	167	198	192	230
Pre-fuse, external	A	3x13/ 3x32	3x13/ 3x32	3x13/ 2x3x32	3x13/ 2x3x32
Approx. weight (complete)	kg	400	450	800	900
Refrigerant R407C	kg	6,6	8,8	13,2	17,6

* * delayed engagement of the second compressor
Electrical protection system: IP41
Heat exchanger: material no.1.4401, V4A steel made of chromium-nickel-molybdenum

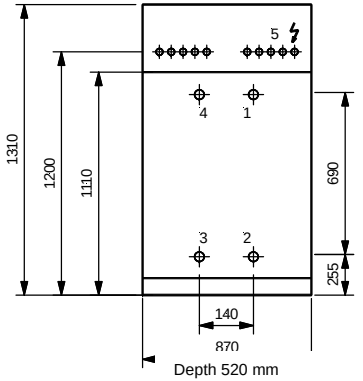
Subject to alterations
Date 12/2010
Version 4.3 WT08

2SW500
2SW600

Modules installed side by side



SW500
SW600



Depth 520 mm

View of rear panel
1 = Heating flow
2 = Heating return
3 = Cold water discharge
4 = Cold water supply
5 = Electrical connections all 6/4"