



<b>Heat pump type</b>	Brine/Water   Air/Water   Water/Water	• relevant   — not relevant
<b>Installation location</b>	Indoors   Outdoors	• relevant   — not relevant
<b>Conformity</b>		CE
<b>Power data</b>	Heating power/COP at	
	<b>B0/W35</b> Standard point as per EN14511	2 Compressors 1 Compressor
	<b>B0/W45</b> Standard point as per EN14511	2 Compressors 1 Compressor
	<b>B7/W35</b> Standard point as per EN14511	2 Compressors 1 Compressor
	<b>B0/W50</b> Standard point as per EN14511	2 Compressors 1 Compressor
<b>Operating limits</b>	Heat circuit	°C
	Heat source	°C
	Additional operating points	...
<b>Noise</b>	Sound pressure level at 1m gap around the machine averaged (in free field)	dB(A)
	Sound power level as per EN12102	dB
<b>Heat source</b>	Volumetric flow: minimum throughput   nominal throughput   maximum throughput	l/h
	Pressure loss in heat pump $\Delta p$   Volumetric flow	bar   l/h
	Recommended brine circulating pump	...
	Total compression of the recommended pump at nominal brine volumetric flow	bar   l/h
	Antifreeze	Monoethylene glycol
	Minimum concentration   frostproof to	%   °C
<b>Heat circuit</b>	Volumetric flow: minimum throughput   nominal throughput   maximum throughput	l/h
	Pressure loss in heat pump $\Delta p$   Volumetric flow	bar   l/h
	Free compression of heat pump $\Delta p$   Volumetric flow	bar   l/h
	Temperature spread for B0/W35	K
<b>General device data</b>	Earth (see dimensional diagram for the size indicated)	Size
	Total weight	kg
	Extra weight of construction unit 1	kg
	Extra weight of construction unit 2	kg
	Connections	Heat circuit Heat source
	Refrigerant	Refrigerant type   Filling capacity
<b>Electrics</b>	Voltage code   All-pole circuit breaker for pump *)	...   A
	Voltage code   Control voltage circuit breaker *)	...   A
	Voltage code   Electrical heating element circuit breaker *)	A
Heat pump	Effect. power consumption in the normal point B0/W35 as per EN14511: Power consumption   Current consumption   $\cos\phi$	kW   A   ...
	Maximum machine current within the operating limits	A
	Starting current: direct   with slow-starter	A   A
	Protection type	IP
	Power of electrical heating element 3   2   1-phase	kW   kW   kW
Components	Circulating pump for heat circuit at nominal throughput: Power consumption   Current consumption	kW   A
	Circulating pump for heat source at nominal throughput: Power consumption   Current consumption	kW   A
	Setting range for motor protection switch of heat source circulating pump	A
<b>Passive cooling function</b>	Data only for devices with ID K: Cooling power at nominal volumetric flow rates (15 °C heat source, 25 °C hot water)	kW
<b>Safety devices</b>	Safety assembly for heat circuit   Safety assembly for heat source	in scope of supply: • yes — no
<b>Heating and heat pump control</b>		in scope of supply: • yes — no
<b>Electronic soft-starter</b>		integrated: • yes — no
<b>Expansion vessels</b>	Heat source: Scope of supply   Volume   Supply pressure	• yes — no   l   bar
	Heat circuit: Scope of supply   Volume   Supply pressure	• yes — no   l   bar
<b>Overflow valve</b>		integrated: • yes — no
<b>Vibration isolation</b>	Heat circuit   Heat source	in scope of supply: • yes — no



	SWP371	SWP451	SWP581	SWP691	SWP291H	SWP561H
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	37,2   4,80	45,0   4,80	57,6   4,80	68,5   4,60	25,9   4,37	53,8   4,50
	—	—	—	—	—	—
	35,8   3,70	42,7   3,70	55,8   3,80	66,1   3,60	24,9   3,46	52,9   3,80
	—	—	—	—	—	—
	45,4   5,60	55,0   5,70	71,1   5,80	84,1   5,40	31,5   5,10	65,9   5,20
	—	—	—	—	—	—
	34,8   2,90	41,1   2,90	54,1   3,00	64,6   2,90	24,7   2,80	52,1   3,10
	20 - 57	20 - 58	20 - 60	20 - 60	20 - 64	20 - 64
	-5 - 25	-5 - 25	-5 - 25	-5 - 25	-5 - 25	-5 - 25
	B3/W65	B0/W65	B0/W65	B0/W65	B4/W70	B0/W70
	39	41	42	44	43	44
	54	56	57	59	58	59
	6900   9200   11100	8100   10800   13000	10200   13600   16300	13000   17300   21000	4900   6500   7800	9400   12600   19100
	0,16   9200	0,15   10800	0,15   13600	0,16   17300	0,16   6500	0,16   12600
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	25   -13	25   -13	25   -13	25   -13	25   -13	25   -13
	3200   6400   8000	3900   7800   9400	4900   9700   12200	5700   11300   14200	2400   4700   5900	4400   8900   11200
	0,12   6400	0,12   7800	0,12   9700	0,12   11300	0,12   4700	0,12   8900
	—   —	—   —	—   —	—   —	—   —	—   —
	5,0	5,0	5,1	5,2	5,0	5,0
	1	1	1	1	1	1
	371	385	441	484	319	521
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	—	—	—	—	—	—
	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566
	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566
	R410A   7,2	R410A   8,2	R410A   11,2	R410A   13,4	R134a   6,7	R134a   12,8
	3~/PE/400V/50Hz   C32	3~/PE/400V/50Hz   C40	3~/PE/400V/50Hz   C50	3~/PE/400V/50Hz   C50	3~/PE/400V/50Hz   C40	3~/PE/400V/50Hz   C50
	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16
	—   —	—   —	—   —	—   —	—   —	—   —
	7,8   13,97   0,8	9,4   18,28   0,72	12,0   22,16   0,76	14,9   28,14   0,75	5,9   15,16   0,56	12,0   27,80   0,63
	31	34	40	48,5	34	45,6
	140   26	174   37	225   88	272   85	174   82	310   105
	20	20	20	20	20	20
	—   —   —	—   —   —	—   —   —	—   —   —	—   —   —	—   —   —
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813428b

813429b

813430b

813431b

813432c

813433a



<b>Heat pump type</b>	Brine/Water   Air/Water   Water/Water	• relevant   — not relevant
<b>Installation location</b>	Indoors   Outdoors	• relevant   — not relevant
<b>Conformity</b>		CE
<b>Power data</b>	Heating power/COP at	
	<b>W10/W35</b> Standard nominal conditions based on EN14511	2 Compressors 1 Compressor
	<b>W10/W55</b> **	2 Compressors 1 Compressor
		kW   ... kW   ... kW   ... kW   ...
<b>Operating limits</b>	Heat circuit	°C
	Heat source	°C
	Additional operating points	...
<b>Noise</b>	Sound pressure level at 1m gap around the machine averaged (in free field)	dB(A)
	Sound power level as per EN12102	dB
<b>Heat source</b>	Volumetric flow: minimum throughput   nominal throughput   maximum throughput	l/h
	Pressure loss in heat pump $\Delta p$   Volumetric flow	bar   l/h
	Recommended brine circulating pump	...
	Total compression of the recommended pump at nominal brine volumetric flow	bar   l/h
	Antifreeze	Monoethylene glycol
	Minimum concentration   frostproof to	%   °C
<b>Heat circuit</b>	Volumetric flow: minimum throughput   nominal throughput   maximum throughput	l/h
	Pressure loss in heat pump $\Delta p$   Volumetric flow	bar   l/h
	Free compression of heat pump $\Delta p$   Volumetric flow	bar   l/h
	Temperature spread for W10/W35	K
<b>General device data</b>	Earth (see dimensional diagram for the size indicated)	Size
	Total weight	kg
	Extra weight of construction unit 1	kg
	Extra weight of construction unit 2	kg
	Connections Heat circuit	...
	Heat source	...
	Refrigerant Refrigerant type   Filling capacity	...   kg
	Medium im Zwischenkreis	Heizungswasser nach VDI 2035
<b>Electrics</b>	Voltage code   All-pole circuit breaker for pump *)	...   A
	Voltage code   Control voltage circuit breaker *)	...   A
	Voltage code   Electrical heating element circuit breaker *)	A
Heat pump	Effect. power consumption in the normal point W10/W55 as per EN14511: Power consumption   Current consumption   $\cos\phi$	kW   A   ...
	Maximum machine current within the operating limits	A
	Starting current: direct   with slow-starter	A   A
	Protection type	IP
	Power of electrical heating element 3   2   1-phase	kW   kW   kW
Components	Circulating pump for heat circuit at nominal throughput: Power consumption   Current consumption	kW   A
	Circulating pump for heat source at nominal throughput: Power consumption   Current consumption	kW   A
	Setting range for motor protection switch of heat source circulating pump	A
<b>Passive cooling function</b>	Data only for devices with ID K: Cooling power at nominal volumetric flow rates (15 °C heat source, 25 °C hot water)	kW
<b>Safety devices</b>	Safety assembly for heat circuit   Safety assembly for heat source	in scope of supply: • yes — no
<b>Heating and heat pump control</b>		in scope of supply: • yes — no
<b>Electronic soft-starter</b>		integrated: • yes — no
<b>Expansion vessels</b>	Heat source: Scope of supply   Volume   Supply pressure	• yes — no   l   bar
	Heat circuit: Scope of supply   Volume   Supply pressure	• yes — no   l   bar
<b>Overflow valve</b>		integrated: • yes — no
<b>Vibration isolation</b>	Heat circuit   Heat source	in scope of supply: • yes — no



SWP371	SWP451	SWP581	SWP691	SWP291H	SWP561H
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49,8   6,0	60,2   6,10	77,1   6,10	92,8   5,80	36,9   5,30	73,7   5,30
44,6   3,6	54,9   3,80	71,4   3,80	85,4   3,70	33,2   3,30	69,7   3,50
—	—	—	—	—	—
20 - 65	20 - 65	20 - 65	20 - 65	20 - 70	20 - 70
7 - 25	7 - 25	7 - 25	7 - 25	7 - 25	7 - 25
—	—	—	—	—	—
39	41	42	44	43	44
54	56	57	59	58	59
12800   12800   19200	15500   15500   23200	19300   19300   28900	24700   24700   37000	10000   10000   15000	19400   19400   29100
0,3   12800	0,32   15500	0,31   19300	0,33   24700	0,38   10000	0,38   19400
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4300   8600   10800	5200   10400   13000	6600   13200   16500	8000   16000   20000	3200   6400   8000	6300   12600   15800
0,22   8600	0,21   10400	0,22   13200	0,24   16000	0,22   6400	0,24   12600
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5	5	5	5	5	5
1	1	1	1	1	1
371	385	441	484	319	521
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—	—	—	—	—	—
DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566
DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566
R410A   7,2	R410A   8,2	R410A   11,2	R410A   13,4	R134a   6,7	R134a   12,8
•	•	•	•	•	•
3~/PE/400V/50Hz   C32	3~/PE/400V/50Hz   C40	3~/PE/400V/50Hz   C50	3~/PE/400V/50Hz   C50	3~/PE/400V/50Hz   C40	3~/PE/400V/50Hz   C50
1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16	1~/N/PE/230V/50Hz   B16
— —	— —	— —	— —	— —	— —
8,3   14,4   0,83	9,8   19,1   0,74	12,6   22,5   0,81	16,0   28,6   0,81	7,0   15,2   0,66	13,9   28,2   0,71
31	34	40	48,5	34	45,6
140   26	174   37	225   88	272   85	174   82	310   105
20	20	20	20	20	20
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813444	813445	813446	813447	813448	813449