



Technical Data/Scope of Supply

Heat pump type	Brine/Water Air/Water Water/Water	• relevant — not relevant
Installation location	Indoors Outdoors	• relevant — not relevant
Conformity		CE
Power data	Heating power/COP at	
	B0/W35 Standard point as per EN255	2 Compressors 1 Compressor
	B0/W50 Standard point as per EN255	2 Compressors 1 Compressor
	B-5/W35 Standard point as per EN255	2 Compressors 1 Compressor
	B-0/W45 Standard point as per EN14511	2 Compressors 1 Compressor
Operating limits	Heat circuit	°C
	Heat source	°C
	Additional operating points	...
Noise	Sound pressure level at 1m gap around the machine averaged (in free field)	dB(A)
	Sound power level as per EN12102	dB
Heat source	Volumetric flow: minimum throughput nominal throughput maximum throughput	l/h
	Pressure loss in heat pump Δp 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
Heat circuit	Volumetric flow: minimum throughput nominal throughput maximum throughput	l/h
	Pressure loss in heat pump Δp Volumetric flow	bar l/h
	Free compression of heat pump Δp Volumetric flow	bar l/h
	Temperature spread for B0/W35	K
General device data	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
Electrics	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	Effective power consumption in the normal point B0/W35 as per EN255: 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
Passive cooling function	Data only for devices with ID K: Cooling power at nominal volumetric flow rates (15 °C heat source, 25 °C hot water)	kW
Safety devices	Safety assembly for heat circuit Safety assembly for heat source	in scope of supply: • yes — no
Heating and heat pump control		in scope of supply: • yes — no
Electronic soft-starter		integrated: • yes — no
Expansion vessels	Heat source: Scope of supply Volume Supply pressure	• yes — no bar
	Heat circuit: Scope of supply Volume Supply pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration isolation	Heat circuit Heat source	in scope of supply: • yes — no



	SWP1100	SWP1250	SWP1600
	• — —	• — —	• — —
	• —	• —	• —
	•	•	•
	107,5 4,3	125,1 4,3	161,6 4,4
	57,0 4,4	66,3 4,4	85,6 4,5
	107,6 3,1	125,2 3,1	161,8 3,2
	57,1 3,2	66,4 3,2	85,8 3,3
	96,5 3,9	112,3 3,9	145,1 4,0
	51,2 4,0	59,5 4,0	76,9 4,1
	100,0 3,2	116,3 3,2	150,3 3,3
	53,0 3,3	61,7 3,3	76,6 3,3
	20 - 55	20 - 55	20 - 55
	-5 - 25	-5 - 25	-5 - 25
	62	64	66
	20000 20000 38400	22300 22300 44600	29100 29100 58200
	0,23 20000	0,18 22300	0,26 29100
	Grundfos UPS 50-180F	Grundfos UPS 65-180F	Grundfos UPS 65-180F
	0,9	1,06	0,92
	•	•	•
	25 -13	25 -13	25 -13
	9500 10500 21000	10700 11500 23000	13900 15200 30400
	0,1 10500	0,06 11500	0,07 15200
	— —	— —	— —
	8,9	9,3	9,1
	2	2	2
	870	935	1000
	—	—	—
	—	—	—
	DN50 DIN2566	DN65 DIN2566	DN65 DIN2566
	DN65 DIN2566	DN65 DIN2566	DN65 DIN2566
	R407c 19,0	R407c 18,8	R407c 20,7
	3~/PE/400V/50Hz C100	3~/PE/400V/50Hz C125	3~/PE/400V/50Hz C125
	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10
	— —	— —	— —
	25,0 2x24,6 0,74	29,1 2x28,8 0,73	36,7 2x33,4 0,79
	2 x 38,6	2 x 47,0	2 x 58,7
	225 130	270 146	310 270
	20	20	20
	— — —	— — —	— — —
	— —	— —	— —
	1,0 2,0	1,55 2,9	1,55 2,9
	1,8 - 2,5	2,8 - 4,0	2,8 - 4,0
	—	—	—
	— —	— —	— —
	•	•	•
	•	•	•
	— —	— —	— —
	— —	— —	— —
	—	—	—
	—	—	—

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Technical Data/Scope of Supply

Heat pump type	Brine/Water Air/Water Water/Water	• relevant — not relevant
Installation location	Indoors Outdoors	• relevant — not relevant
Conformity		CE
Power data	Heating power/COP at	
	B0/W35 Standard point as per EN255	2 Compressors 1 Compressor
	B0/W50 Standard point as per EN255	2 Compressors 1 Compressor
	B-5/W35 Standard point as per EN255	2 Compressors 1 Compressor
	B-0/W45 Standard point as per EN14511	2 Compressors 1 Compressor
Operating limits	Heat circuit	°C
	Heat source	°C
	Additional operating points	...
Noise	Sound pressure level at 1m gap around the machine averaged (in free field)	dB(A)
	Sound power level as per EN12102	dB
Heat source	Volumetric flow: minimum throughput nominal throughput maximum throughput	l/h
	Pressure loss in heat pump Δp 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
Heat circuit	Volumetric flow: minimum throughput nominal throughput maximum throughput	l/h
	Pressure loss in heat pump Δp Volumetric flow	bar l/h
	Free compression of heat pump Δp Volumetric flow	bar l/h
	Temperature spread for B0/W35	K
General device data	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
Electrics	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	Effective power consumption in the normal point B0/W35 as per EN255: 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
Passive cooling function	Data only for devices with ID K: Cooling power at nominal volumetric flow rates (15 °C heat source, 25 °C hot water)	kW
Safety devices	Safety assembly for heat circuit Safety assembly for heat source	in scope of supply: • yes — no
Heating and heat pump control		in scope of supply: • yes — no
Electronic soft-starter		integrated: • yes — no
Expansion vessels	Heat source: Scope of supply Volume Supply pressure	• yes — no bar
	Heat circuit: Scope of supply Volume Supply pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration isolation	Heat circuit Heat source	in scope of supply: • yes — no



	SWP700H	SWP850H	SWP1000H
	• — —	• — —	• — —
	• —	• —	• —
	•	•	•
	70,0 4,1	88,0 4,1	100,0 4,1
	37,1 4,2	46,5 4,2	53,0 4,2
	66,8 3,0	86,4 3,0	93,0 2,8
	32,7 3,0	42,5 3,2	49,3 2,9
	58,8 3,6	78,0 3,8	89,8 3,7
	29,4 3,6	40,5 4,0	47,6 3,8
	65,1 3,2	81,8 3,2	93,0 3,2
	34,5 3,1	43,2 3,1	49,3 3,1
	20 - 65	20 - 65	20 - 65
	-5 - 25	-5 - 25	-5 - 25
	B5 W70	B5 W70	B5 W70
	64	64	68
	12400 16500 24800	14800 14800 29600	18000 18000 36000
	0,16 16500	0,09 14800	0,18 18000
	Grundfos UPS 50-180F	Grundfos UPS 50-180F	Grundfos UPS 50-180F
	1,10	1,16	1,01
	•	•	•
	25 -13	25 -13	25 -13
	6000 6600 13200	7200 8200 16400	7850 9400 17000
	0,04 6600	0,05 8200	0,08 9400
	— —	— —	— —
	9,1	8,8	9,1
	2	2	2
	930	935	965
	—	—	—
	—	—	—
	DN50 DIN2566	DN50 DIN2566	DN50 DIN2566
	DN65 DIN2566	DN65 DIN2566	DN65 DIN2566
	R134a 15,5	R134a 17,0	R134a 17,6
	3~/PE/400V/50Hz C80	3~/PE/400V/50Hz C80	3~/PE/400V/50Hz C100
	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10
	— —	— —	— —
	17,1 2x19,2 0,65	20,5 2x22,8 0,65	24,3 2x27,6 0,65
	2 x 29,3	2 x 37,9	2 x 45,6
	215 130	270 146	310 270
	20	20	20
	— — —	— — —	— — —
	— —	— —	— —
	1,0 2,0	1,0 2,0	1,0 2,0
	1,8 - 2,5	1,8 - 2,5	1,8 - 2,5
	—	—	—
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