



Technical data / scope of delivery

Heat pump type	Brine/water Air/water Water/water	• applicable — not applicable
Installation location	Indoors Outdoors	• applicable — not applicable
Conformity		CE
Performance data	Heating capacity/COP at	
	A7/W35 Standard point acc. to EN14511 2 compressors 1 compressor	"kW ... kW ..."
	A7/W45 Standard point to EN14511 2 compressors 1 compressor	"kW ... kW ..."
	A2/W35 Operating point to EN14511 2 compressors 1 compressor	"kW ... kW ..."
	A10/W35 Operating point to EN14511 2 compressors 1 compressor	"kW ... kW ..."
	A-7/W35 Operating point to EN14511 2 compressors 1 compressor	"kW ... kW ..."
	A-15/W65 2 compressors 1 compressor	"kW ... kW ..."
Limits of application	Heating circuit	°C
	Heat source	°C
	additional operating points	°C
Sound	Sound pressure level inside (measured in free field at 1m distance around the machine)	dB(A)
	External sound pressure level (averaged in free field at 1m distance around air connections)	dB(A)
	Sound power inside	dB
	Sound power outside	dB
Heat source	Air volume flow at maximum external pressure	m³/h
	Maximum external pressure	Pa
Heating circuit	Volume flow: minimum flow rate nominal flow rate A7/W35 EN14511 maximum flow rate	l/h
	Heat pump pressure loss Δp volume flow	bar l/h
	Free compression heat pump Δp volume flow	bar l/h
	Content of buffer tank	l
	3-way valve, heating/hot water	...
General unit data	Dimensions (see dimensional drawing for the specified unit size)	unit size
	Total weight	kg
	Connections Heating circuit	...
	Domestic hot water circuit	...
	Refrigerant Refrigerant type Quantity	... kg
	Free cross section, air ducts	mm
	Cross section, condensate water hose / length from unit	mm m
Electrics	Voltage code three-phase circuit breaker heat pump **) see hydraulic module	... A
	Voltage code circuit breaker control voltage **) see hydraulic module	... A
	Voltage code circuit breaker electric heating element **) see hydraulic module	... A
Heat pump	Effective power consumption in standard point A7/W35 to EN14511: Power consumption current consumption $\cos\phi$	kW A ...
	Maximum device current within the limits of application	A
	Starting current: direct with soft starter	A A
	Protection type	IP
	Output electric heating element 3 2 1-phase	kW kW kW
Components	Heating circuit circulating pump at nominal flow rate: max. power consumption current consumption	kW A
Safety equipment	Safety assembly heating circuit Safety assembly heat source	in scope of delivery: • yes — no
Heating and heat pump regulator		Included in scope of delivery: • yes — no
Control and sensor wire		Included in scope of delivery: • yes — no
Power cable to unit		Included in scope of delivery: • yes — no
Electronic soft starter		integrated: • yes — no
Expansion vessels	Heating circuit: Scope of delivery Volume Initial pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration decouplers	Heating circuit	Included in scope of delivery: • yes — no

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*) depending on component tolerances and flow **) comply with local regulations n.n. = not detectable w.w. = optional
 1) hot water return flow 2) hot water forward flow



	LWD 50A	LWD 70A	LWD 90A
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	— •	— •	— •
	•	•	•
	—	—	—
	7,1 4,8	8,5 4,3	10,1 4,12
	—	—	—
	6,8 3,8	8,4 3,5	9,9 3,50
	—	—	—
	5,6 3,8	7,7 3,8	9,0 3,60
	—	—	—
	7,5 5,0	10,5 5,1	11,3 4,50
	—	—	—
	4,6 3,2	6,3 3,2	7,5 3,12
	—	—	—
	—	—	—
	20 ¹ – 62 ²	20 ¹ – 62 ²	20 ¹ – 60 ²
	-20 – 35	-20 – 35	-20 – 35
	A > -7 / 70 ²	A > -7 / 70 ²	A > -2 / 70 ²
	—	—	—
	45	45	50
	—	—	—
	57	57	62
	3000	3000	3500
	—	—	—
	900 1200 1500	1200 1600 2000	1600 2000 2500
	0,066 1200	0,055 1600	0,076 2000
	— —	— —	— —
	—	—	—
	—	—	—
	141	146	149
	G1 ⁺	G1 ⁺	G1 ⁺
	—	—	—
	R290 0,95	R290 1,1	R290 1,17
	—	—	—
	— —		
	—	—	—
	—	—	—
	1,5 3,2 0,66	2,0 4,1 0,71	2,5 5,0 0,72
	4	5,5	7,0
	— 20	— 22	— 24
	24	24	24
	— — —	— — —	— — —
	— —	— —	— —
	— —	— —	— —
	—	—	—
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	•	•	•
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	—	—	—
	—	—	—
	81354c	813542c	813549a



Technical data / scope of delivery

Heat pump type	Brine/water Air/water Water/water	• applicable — not applicable
Installation location	Indoors Outdoors	• applicable — not applicable
Conformity		CE
Performance data	Heating capacity/COP heat optimised at	
	A7/W35 Standard point as per EN14511	1 compressor kW ...
	A7/W45	1 compressor kW ...
	A2/W35 Operating point as per EN14511	1 compressor kW ...
	A10/W35 Operating point as per EN14511	1 compressor kW ...
	A-7/W35 Operating point as per EN14511	1 compressor kW ...
Performance data	Cooling capacity/EER cool optimised at	
	A27/W18	1 compressor kW ...
	A27/W7	1 compressor kW ...
	A35/W18	1 compressor kW ...
	A35/W7	1 compressor kW ...
Heating limits of application	heating circuit (water)	°C
	Heat source (air)	°C
	additional operating points	°C
Cooling limits	cooling circuit (water)	°C
	Heat sink (air)	°C
Sound	Sound pressure level outside (averaged in open space at 1 m distance from the machine)	dB(A)
	Sound power level, outside	dB
Heat source	Air volume flow	m³/h
	Maximum external pressure	Pa
Heating circuit	Volume flow: minimum flow rate nominal flow rate A7/W35 EN14511 maximum flow rate	l/h
	Heat pump pressure loss Δp Volume flow	bar l/h
	Free compression heat pump Δp Volume flow	bar l/h
	Content of buffer tank	l
	3-way valve, heating/hot water	...
General unit data	Dimensions (see dimensional drawing for the specified unit size)	unit size
	Total weight	kg
	Connections Heating circuit	...
	Domestic hot water circuit	...
	Refrigerant Refrigerant type Quantity	... kg
	Free cross section, air ducts	mm
	Cross section, condensate water hose / length from unit	mm m
Electrics	Voltage code all-pole circuit breaker heat pump **) see hydraulic module	... A
	Voltage code all-pole circuit breaker **) see hydraulic module	... A
	Voltage code electric heating element circuit breaker **) see hydraulic module	... A
Heat pump	Effective power consumption in standard point A7/W35 to EN14511: Power consumption current consumption $\cos\phi$	kW A ...
	Maximum machine current within the use limits	A
	Starting current: direct with soft starter	A A
	Degree of protection	IP
	Output, electric heating element 3 2 1 phase	kW kW kW
Components	Heating circuit circulating pump at nominal flow rate: max. power consumption current consumption	kW A
Safety equipment	Safety component heating circuit Safety component heat source	Included in scope of delivery: • yes — no
Heating and heat pump controller		Included in scope of delivery: • yes — no
Control and sensor lead		Included in scope of delivery: • yes — no
Power cable to unit		Included in scope of delivery: • yes — no
Electronic soft starter		integrated: • yes — no
Expansion vessels	Heating circuit: Scope of delivery Volume Initial pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration decouplers	Heating circuit	Included in scope of delivery: • yes — no

*) depending on component tolerances and flow **) comply with local regulations n.n. = not detectable w.w. = optional
 1) hot water return 2) hot water feed



	LWD 50A/RX	LWD 70A/RX
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	— •	— •
	•	•
	6,8 4,56	8,7 4,32
	6,5 3,62	8,8 3,66
	5,4 3,69	7,3 3,68
	7,2 4,80	9,7 4,92
	4,4 3,11	6,0 3,06
	7,9 4,98	11,1 4,59
	5,9 3,78	8,0 3,57
	7,4 3,97	10,1 3,64
	5,1 2,89	7,0 2,74
	20 ¹ – 62 ²	20 ¹ – 62 ²
	-20 – 35	-20 – 35
	A > -7 / 70 ²	A > -7 / 70 ²
	7 ² – 20 ²	7 ² – 20 ²
	15 – 45	15 – 45
	45	45
	57	57
	3000	3000
	—	—
	900 1200 1500	1200 1600 2000
	0,066 1200	0,055 1600
	— —	— —
	—	—
	—	—
	—	—
	146	151
	G1*	G1*
	—	—
	R290 2,1	R290 2,2
	—	—
	— —	— —
	—	—
	—	—
	1,5 3,2 0,66	2,0 4,1 0,71
	—	5,5
	— 20	— 22
	24	24
	— — —	— — —
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813545a

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