



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
	A7/W45 Standard point acc. to EN14511	2 Compressors 1 Compressor
	A2/W35 Operating point according to EN14511	2 Compressors 1 Compressor
	A10/W35 Operating point according to EN14511	2 Compressors 1 Compressor
	A-7/W35 Operating point according to EN14511	2 Compressors 1 Compressor
	A-15/W65	2 Compressors 1 Compressor
		kW ... kW ... kW ... kW ... kW ... kW ... kW ...
Limits of application	Heating circuit	°C
	Heat source	°C
	Additional operating points	°C
Sound	Internal sound pressure level (open air test field, distance of 1m around the engine, average)	dB(A)
	External sound pressure level (open air test field, distance of 1m around the air supplies, average)	dB(A)
	Sound power inside	dB(A)
	Sound power outside	dB(A)
Heat source	Air volume flow at maximum external compression	m³/h
	Maximum external pressure	Pa
Heating circuit	Volume flow: minimum flow rate nominal flow rate A7/W35 EN14511 maximum flow rate	l/h
	Pressure loss heat pump 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	...
	Heat source	...
	Refrigerant Refrigerant type Quantity	... kg
	Free cross section, air channels	mm
	Cross section, condensate water / length from unit	mm m
Electric	Voltage code all-pole circuit breaker heat pump **)	... A
	Voltage code circuit breaker control voltage **)	... A
	Voltage code circuit breaker electric heating element **)	... A
Heat Pump	Effective power consumption in standard point A7/W35 according 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	Circulating pump heating circuit at nominal flow rate: Power consumption current consumption	kW A
Safety equipment	Safety component heating circuit Safety component heat source	Includ. in sc. of del.: • yes — no
Heating and heat pump regulator		Includ. in scope of delivery: • yes — no
Control and sensor wire		Includ. in scope of delivery: • yes — no
Power cable to unit		Includ. in scope of delivery: • yes — no
Electronic soft starter		integrated: • yes — no
Expansion vessels	Heat source: Scope of delivery Volume Initial pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration decouplers	Heating circuit heat source	Included in scope of delivery: • yes — no

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*) depending on components tolerances and flow **) comply with local regulations n.n. = not detectable w.w. = to choice
 1) hot water return 2) hot water flow



	LW 71A	LW 81A	LW 101A	LW 121A
	— • —	— • —	— • —	— • —
	— •	— •	— •	— •
	•	•	•	•
	—	—	—	—
	8,1 3,9	9,4 3,9	10,3 4,2	12,8 4,2
	—	—	—	—
	7,7 3,0	9,0 3,0	10,1 3,5	12,7 3,5
	—	—	—	—
	7,2 3,5	8,4 3,5	9,5 3,7	11,8 3,7
	—	—	—	—
	8,8 4,3	10,3 4,3	11,1 4,4	12,8 4,4
	—	—	—	—
	5,7 2,8	6,6 2,8	7,5 2,9	9,1 2,9
	—	—	—	—
	—	—	—	—
	20 – 58 (60*)	20 – 58 (60*)	20' – 50 ²	20' – 50 ²
	-20 – 35	-20 – 35	-20 – 35	-20 – 35
	—	—	A> -7 / 60 ²	A> -7 / 60 ²
	—	—	—	—
	50	50	50	53
	—	—	—	—
	58	62	58	61
	3000	3000	4000	4000
	—	—	—	—
	1000 1500 1900	1200 1750 2200	1500 2000 2500	1650 2500 3100
	0,1 1500	0,12 1750	0,09 2000	0,09 2500
	— —	— —	— —	— —
	—	—	—	—
	—	—	—	—
	1	1	2	3
	145	145	260	280
	R1*AG	R1*AG	R1*AG	R1*AG
	—	—	—	—
	R404A 2,4	R404A 2,8	R407C 4,8	R407C 5,8
	—	—	—	—
	30 1	30 1	30 1	30 1
	3~/PE/400V/50Hz C10	3~/PE/400V/50Hz C10	3~/N/PE/400V/50Hz C10	3~/N/PE/400V/50Hz C16
	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10
	3~/N/PE/400V/50Hz B10	3~/N/PE/400V/50Hz B10	3~/N/PE/400V/50Hz B16	3~/N/PE/400V/50Hz B16
	2,1 4,0 0,75	2,4 4,6 0,75	2,6 5,4 0,7	3,1 6,4 0,7
	8,4	8,4	9,2	11,5
	38 22	45 22	51,5 19	64 23
	24	24	24	24
	6 4 2	6 4 2	9 6 3	9 6 3
	— —	— —	— —	— —
	— —	— —	— —	— —
	—	—	—	—
	—	—	—	—
	—	—	—	—
	•	•	•	•
	— — —	— — —	— — —	— — —
	—	—	—	—
	—	—	—	—
	813510d	813511d	813512c	813513c



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
	A7/W45 Standard point acc. to EN14511	2 Compressors 1 Compressor
	A2/W35 Operating point according to EN14511	2 Compressors 1 Compressor
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	A-7/W35 Operating point according to EN14511	2 Compressors 1 Compressor
	A-15/W65	2 Compressors 1 Compressor
		kW ... kW ... kW ... kW ... kW ... kW ... kW ...
Limits of application	Heating circuit	°C
	Heat source	°C
	Additional operating points	°C
Sound	Internal sound pressure level (open air test field, distance of 1m around the engine, average)	dB(A)
	External sound pressure level (open air test field, distance of 1m around the air supplies, average)	dB(A)
	Sound power inside	dB(A)
	Sound power outside	dB(A)
Heat source	Air volume flow at maximum external compression	m³/h
	Maximum external pressure	Pa
Heating circuit	Volume flow: minimum flow rate nominal flow rate A7/W35 EN14511 maximum flow rate	l/h
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	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	...
	Heat source	...
	Refrigerant Refrigerant type Quantity	... kg
	Free cross section, air channels	mm
	Cross section, condensate water / length from unit	mm m
Electric	Voltage code all-pole circuit breaker heat pump **)	... A
	Voltage code circuit breaker control voltage **)	... A
	Voltage code circuit breaker electric heating element **)	A
Heat Pump	Effective power consumption in standard point A7/W35 according 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	Circulating pump heating circuit at nominal flow rate: Power consumption current consumption	kW A
Safety equipment	Safety component heating circuit Safety component heat source	Includ. in sc. of del.: • yes — no
Heating and heat pump regulator		Includ. in scope of delivery: • yes — no
Control and sensor wire		Includ. in scope of delivery: • yes — no
Power cable to unit		Includ. in scope of delivery: • yes — no
Electronic soft starter		integrated: • yes — no
Expansion vessels	Heat source: Scope of delivery Volume Initial pressure	• yes — no bar
Overflow valve		integrated: • yes — no
Vibration decouplers	Heating circuit heat source	Included in scope of delivery: • yes — no

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	LW 140A	LW 180A	LW 251A	LW 310A
	— • —	— • —	— • —	— • —
	— •	— •	— •	— •
	•	•	•	•
	—	19,6 3,9	27,3 3,9	35,0 4,0
	14,4 4,3	10,1 4,2	14,1 4,2	19,1 4,2
	—	18,7 3,3	26,1 3,3	34,4 3,5
	13,9 3,5	9,8 3,4	13,7 3,4	18,9 3,6
	—	17,2 3,6	24,0 3,6	31,0 3,5
	13,8 3,7	9,5 3,8	13,2 3,8	16,8 3,6
	—	21,2 4,0	29,2 4,0	37,0 4,1
	14,1 4,4	10,3 4,5	14,2 4,5	20,2 4,3
	—	14,1 2,8	19,4 2,8	25,0 2,8
	10,8 3,0	7,3 2,9	10,1 2,9	13,2 2,9
	—	—	—	—
	20 ¹ – 50 ²	20 ¹ – 50 ²	20 ¹ – 50 ²	20 – 58 (60)*
	-20 – 35	-20 – 35	-20 – 35	-20 – 35
	A> -7 / 60 ²	A> -7 / 60 ²	A> -7 / 60 ²	—
	—	—	—	—
	50	52	57	59
	—	—	—	—
	58	60	65	67
	5600	5600	7800	7800
	—	—	—	—
	2000 2900 3600	2000 3800 4800	2500 5000 6200	4000 6000 10000
	0,12 2900	0,18 3800	0,12 5000	0,04 6000
	— —	— —	— —	— —
	—	—	—	—
	—	—	—	—
	4	4	5	6
	370	420	540	573
	R5/4"AG	R5/4"AG	R5/4"AG	R6/4"AG
	—	—	—	—
	R407C 5,8	R407C 6,8	R407C 9,8	R404A 13,0
	—	—	—	—
	30 1	30 1	30 1	30 1
	3~/N/PE/400V/50Hz C16	3~/N/PE/400V/50Hz C20	3~/N/PE/400V/50Hz C25	3~/PE/400V/50Hz C32
	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10
	3~/N/PE/400V/50Hz B16	3~/N/PE/400V/50Hz B16	3~/N/PE/400V/50Hz B16	— —
	3,4 7,0 0,7	5,0 (2,4) 10,3 (4,9) 0,7 (0,7)	7,0 (3,4) 14,4 (7,0) 0,7 (0,7)	8,75 (4,5) 16,8 (8,7) 0,75 (0,75)
	13,0	18,0	24,5	28
	74 26	51,5 30	74 30	80 38
	24	24	24	24
	9 6 3	9 6 3	9 6 3	— — —
	— —	— —	— —	— —
	— —	— —	— —	— —
	—	—	—	—
	—	—	—	—
	—	—	—	—
	•	•	•	•
	— — —	— — —	— — —	— — —
	—	—	—	—
	—	—	—	—
	813514c	813515d	813516d	813507d