



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 acc. to EN14511	1 compressor kW ...
	A7/W45 Standard point acc. to EN14511	1 compressor kW ...
	A2/W35 Operating point acc. to EN14511	1 compressor kW ...
	A10/W35 Operating point acc. to EN14511	1 compressor kW ...
	A-7/W35 Operating point acc. to EN14511	1 compressor kW ...
Performance data	Cooling capacity/EER cool optimised at	
	A27/W18 Operating point acc. to EN14511	1 compressor kW ...
	A27/W7 Operating point acc. to EN14511	1 compressor kW ...
	A35/W18 Operating point acc. to EN14511	1 compressor kW ...
	A35/W7 Operating point acc. to EN14511	1 compressor kW ...
Heating limits of application	Heating circuit (water)	°C
	Heat source (air)	°C
	Additional operating points	°C
Cooling limits of application	Cooling circuit (water)	°C
	Heat sink (air)	°C
Sound	Sound pressure level outside (measured at distance of 1m around air connections)	dB(A)
	Sound pressure level outside (measured at distance of 1m around air connections)	dB(A)
Heat transfer medium air	Air volume flow at maximum external compression	m ³ /h
	Maximum external pressure	Pa
Heat transfer medium water	Volume flow: minimum flow rate nominal flow rate A7/W35 EN14511 maximum flow rate	l/h
	Pressure losses heating/cooling Δp volume flow	bar l/h
	Pressure losses hot water circuit/swimming pool circuit Δp volume flow	bar l/h
General unit data	Dimensions (see dimensional drawing for the specified unit size)	unit size
	Total weight	kg
	Connections Heating circuit / cooling circuit	...
	Hot water circuit / swimming pool circuit	...
	Refrigerant Refrigerant type Quantity	... kg
	Free cross section, air channels	mm
	Cross section, condensate water / length from unit	mm m
Elektric	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	Effect, power consumption in standard point A7/W35 acc. to EN14511: Power consumption current consumption cos ϕ	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
Safety equipment	Safety component heating circuit Safety component heat source	Incl. 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 components tolerances and flow **) comply with local regulations n.n. = not detectable w.w. = optional
 1) hot water return flow 2) hot water forward flow



	LW 90 A/RX	LW 140 A/RX
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	— •	— •
	•	•
	9,2 4,1	14,4 4,2
	8,9 3,3	13,9 3,5
	9,4 3,5	13,8 3,5
	9,7 4,3	14,1 4,3
	7,2 2,8	10,8 2,9
	14,5 3,7	20,3 3,8
	10,8 3,2	15,4 3,2
	13,0 2,9	18,4 2,9
	9,9 2,5	14,2 2,5
	20 ¹ – 52 ²	20 ¹ – 52 ²
	-20 – 40	-20 – 40
	A> -7 / 60 ²	A> -7 / 60 ²
	7 ² – 20 ²	7 ² – 20 ²
	15 – 40	15 – 40
	—	—
	55	56
	4000	5100
	—	—
	1350 2000 2500	2000 3000 3750
	0,031 1450	0,024 2100
	— —	— —
	2	4
	260	280
	R 1"AG	R5/4"AG
	—	—
	R407C 6,8	R407C 10,2
	—	—
	30 1	30 1
	3~/PE/400V/50Hz C10	3~/PE/400V/50Hz C16
	1~/N/PE/230V/50Hz B10	1~/N/PE/230V/50Hz B10
	—	—
	2,25 4,3 0,75	3,95 7,6 0,75
	8,1	11,9
	51,5 30	74 30
	24	24
	—	—
	—	—
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	—	—
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