



Technical data/Scope of supply

LWP 450AR3

Performance data		LWP450AR3		
Heating capacity COF	At A7/W35 per EN14511	kW COP	- (32,5) - (4,51)	
	At A7/W45 per EN14511	kW COP	- (31,0) - (3,65)	
	At A2/W35 per EN14511	kW COP	45,5 (26,4) 3,50 (3,68)	
	At A10/W35 per EN14511	kW COP	- (34,6) - (4,77)	
	At A-7/W35 per EN14511	kW COP	35,7 (19,8) 2,79 (2,79)	
	At A-15/W65 per EN14511	kW COP	- -	
	At A-7/W55 per EN 14511	kW COP	- -	
Cooling capacity EEI	At A35/W18	kW EER	55,0 (32,4) 2,50 (3,05)	
	At A35/W7	kW EER	- (24,7) - (2,56)	
Operating limits				
Heating circuit return min. Heating circuit supply flow max.	Heating	°C	20 60	
Heating circuit return min. Heating circuit supply flow max.	Cooling	°C	bis 10 (7)	
Heat source, heating	min. max.	°C	-22 35	
Heat source, cooling	min. max.	°C	10 40	
additional operating points		...	A-10/W65	
Sound				
Sound pressure level at 1 m distance from edge of unit	Inside	Max.	dB(A)	-
Sound pressure level at 1 m distance from edge of unit	Outside	Max.	dB(A)	60,9
Sound power level	Inside	Max.	dB(A)	-
Sound power level	Outside	Max.	dB(A)	81,7
Sound power level per EN12102			dB(A)	72,8
Heat source				
Air flow rate at maximum external pressure		m³/h	15000 (9000)	
Maximum external pressure		Pa	-	
Heating circuit				
Volume flow rate: minimal nominal maximal		l/h	3250 5500 10000	
Free pressing Pressure loss Volume flow rate		bar bar l/h	- - -	
max. allowable operating pressure		bar	6	
General unit data				
Total weight		kg	680	
Weight, individual components		kg kg kg	- - -	
Refrigerant type Refrigerant capacity		... kg	R410a 23,0	
Electrics				
Voltage code all-pole heat pump fuse protection **)*)		... A	3~/PE/400V/50Hz C50	
Voltage code all-pole heat pump fuse protection *) + electric heating element **)		... A	-	
Voltage code Control voltage fuse protection **)		... A	1~/PE/230V/50Hz B16	
Voltage code Electric heating element fuse protection **)		... A	-	
WP*): effect. Power input A7/W35 EN14511 Current draw cosφ		kW A ...	13,7(7,0) 27,2(13,9) 0,73(0,73)	
WP*): Max. machine current Max. power input within the operating limits		A kW	45,3 -	
Starting current: direct with soft starter		A A	< 142 85	
Degree of protection		IP	14B	
Electric heating element output	3 2 1 phase	kW kW kW	- - -	
Circulation pump power consumption, heating circuit	min. — max.	W	- -	
Other unit information				
Heating circuit safety valve	included in scope of supply: • yes — no		— —	
Heating circuit expansion vessel	included in scope of supply: • yes — no		— —	
Overflow valve Changeover valve, heating -Domestic hot water	integrated: • yes — no		— —	
Heating circuit vibration decouplers	integrated: • yes — no		•	
Controller	integrated: • yes — no		•	
Heat quantity recording	integrated: • yes — no		•	
*) Only compressor, **) Observe local regulations, 1 Compressor values in brackets			813576	