



Technical data/Scope of supply

Unit designation	LW 160H-A/V		
Performance data	813561		
Heating capacity / COP			
A10/W35	min. / max.	kW	5.8 - 17.4
A7/W35	min. / max.	kW	5.6 - 16.1
A7/W55	min. / max.	kW	6.5 - 17.1
A2/W35	min. / max.	kW	4.9 - 13.9
A-7/W35	min. / max.	kW	4.0 - 12.4
A-7/W55	min. / max.	kW	4.0 - 13.4
A10/W35	Partial load operation	kW COP	10.0 4.87
A7/W35	to EN 14511 Partial load operation	kW COP	9.5 4.76
A7/W55	to EN 14511 Partial load operation	kW COP	12.0 3.31
A2/W35	to EN 14511 Partial load operation	kW COP	7.6 4.02
A-7/W35	to EN 14511 Full load operation	kW COP	12.4 2.94
A-7/W55	to EN 14511 Full load operation	kW COP	13.4 2.30
Limits of use			
Heating capacity, water heating	constant	kW	~ 12kW
Heating circuit	at nominal flow rate	°C	20° - 60°
Additional operating points	at nominal flow rate	°C	A> -15 / 65°
Heat source		°C	-20 - 35
Sound			
Sound pressure level	1m distance from edge of unit	min. / max. inside	dB(A) —
Sound pressure level	1m distance from edge of unit	min. / max. outside	dB(A) 34 - 52
Sound power level	Based on EN 12102	min. / max. inside	dB(A) —
Sound power level	Based on EN 12102	min. / max. outside	dB(A) 42 - 60
Heat source			
Air flow rate at maximum external pressure		m³/h	4400
Maximum external pressure		Pa	25
Heating circuit			
Flow rate	min. nom. max.	l/h	2000 2000 3000
Free compression Pressure loss Flow rate		bar bar l/h	0.593 0.119 2000
max. allowable operating pressure		bar	3
General unit data			
Total weight		kg	310
Refrigerant type capacity		... kg	R410A 3.8
Free cross-section, air ducts		mm	—
Electrics			
Voltage code, all-pole fuse protection, heat pump **)	... A	3~N/PE/400V/50Hz C25	
Voltage code, fuse protection, control voltage **)	... A	1~N/PE/230V/50Hz B16	
Voltage code, fuse protection, electric heating element **)	A	3~N/PE/400V/50Hz B16	
Power consumption A7/W35 max (min) speed		kW	4.3 (1.4)
Current input cosφ A7/W35 max (min) speed	A ...		13.5 (4.0) 0.7 (0.7)
Max. machine current max. power consumption	A kW		22 8.0
Starting current: direct with soft starter	A A		5 -
Degree of protection		IP	24
Electric heating element output 3 2 1 phase		kW kW kW	9 6 3
Heating circuit circulation pump power consumption Nom. current input		kW A	0.087 0.71
Other unit information Included in the scope of supply or integrated			
Heating and heat pump controller		• yes — no	—
BUS communication cable to the unit		• yes — no	—
Power cable to unit		• yes — no	—
Circulation pump for heating circuit		• yes — no	•
Overflow valve		• yes — no	—
Heating circuit vibration isolators		• yes — no	—
Safety valve		• yes — no	—
Heating circuit expansion vessel: Scope of supply Volume Initial pressure		• yes — no bar	— — —
¹) Heating water return ²) Heating water flow			
*) depending on component tolerances, speed and flow **) comply with local regulations			