

11 Device information

1	Type and order code			LA 60TU		
2	Design					
2.1	Model / controller			Universal / external		
2.2	Thermal energy metering			Integrated		
2.3	Installation location / degree of protection according to EN 60529			Outdoor / IP24		
2.4	Antifreeze condensate tray / heating water			Heated / yes ¹		
2.5	Performance levels			2		
3	Operating limits					
3.1	Heating water flow / return ²		°C	up to 65 ± 2 / from 18		
	Air (heat source)		°C	-20 to +35		
4	Performance data / flow rate					
4.1	Heating water flow rate / internal pressure differential		A7/W35/30	m³/h / Pa	10.4 / 7200	
			A7/W45/38	m³/h / Pa	7.7 / 4200	
	Minimum heating water flow		A7/W55/45	m³/h / Pa	5.3 / 2100	
4.2	Heat output / COP ³			EN 255	EN 14511	
	at A-7 / W35		kW / —	4	39.3 / 3.0	39.2 / 2.9
			kW / —	5	21.3 / 3.1	21.2 / 3.0
	at A2 / W35		kW / —	4	50.0 / 3.7	50.0 / 3.6
			kW / —	5	26.4 / 3.8	26.4 / 3.7
	at A7 / W35		kW / —	4		60.1 / 4.1
			kW / —	5		31.9 / 4.3
	at A7 / W55		kW / —	4		55.0 / 2.8
			kW / —	5		28.3 / 2.9
	at A10 / W35		kW / —	4	66.6 / 4.4	64.6 / 4.2
			kW / —	5	38.4 / 4.6	33.6 / 4.4
4.3	Sound power level		dB(A)		74	
4.4	Sound pressure level at a distance of 10 m (air outlet side) ⁶		dB(A)		50	
4.5	Air flow		m³/h		14000	
5	Dimensions, connections and weight					
5.1	Device dimensions without connections ⁷		H x W x L mm		2300 x 1900 x 1000	
5.2	Device connections for heating system		Inches		R 2" external	
5.3	Weight of the transportable unit(s) incl. packaging		kg		915	
5.4	Refrigerant; total filling weight		type / kg		R417A / 20,9	
5.5	Lubricant; total filling quantity		type / litres		Polyolester (POE) / 8.28	
6	Electrical connection					
6.1	Load voltage; Fuse protection			3~/ N/ PE 400V (50Hz); Z50A		
6.2	Control voltage; Fuse protection			—		
6.3	Starting current with soft starter		A		78	
6.4	Nominal power consumption A2 W35/ max. consumption ^{3, 4}		kW		14.9 / 27.6	
6.5	Nominal current A2 W35 / cosφ ⁴		A / —		29.5 / 0.8	
6.6	Max. power consumption of compressor protection (per compressor)		W		70, thermostatically controlled	
7	Complies with the European safety regulations			8		
8	Additional model features					
	Type of defrosting (according to need)			Reverse circulation		

1. The heat circulating pump and the heat pump manager must always be ready for operation.

2. At air inlet temperatures of -20°C to 0°C flow temperature rising from 55°C to 65°C (see operating limits diagram).

3. These data indicate the size and capacity of the system according to EN 255 (10K at A2) and EN 14511 (5K at A7) without weather-proof protective cover. For an analysis of the economic and energy efficiency of the system, other parameters, in particular the defrosting capacity, the bivalence point and the regulation, should also be taken into consideration. The specified values have the following meaning, e.g. A7 / W35: External air temperature 7 °C and heating water flow temperature 35 °C.

4. 2-compressor operating mode

5. 1-compressor operating mode

6. The specified sound pressure level corresponds to the operating noise of the heat pump in heating operation with a flow temperature of 35°C.

7. Note that additional space is required for pipe connections, operation and maintenance.

8. See CE declaration of conformity