

Air-cooled condensing units and reversible condensing units with axial fans

5 ÷ 42,5 kW



EPSILON/LE

Condensing unit

Unit frame

Galvanized steel frame with baked-on polyester powder coating (colour RAL 5014).

Compressor

Single-phase rotary vane type compressor (models 5 and 7) with suction line separator and three-phase semihermetic scroll type for the remaining sizes; equipped with internal thermal protection, electric crankcase heater (except mod. 5 and 7), and installed on rubber antivibration mounts.

Refrigerant circuit

Comprises : charge connection on liquid and suction line, sight glass, filter dryer, high and low pressure switches with automatic reset and limited thresholds, and safety valve.

Condenser

High efficiency finned coil, condensing pressure control with fan speed control and metal protection guard.

Fan

Axial fan directly coupled to single-phase 6-pole motor. Protection against accidental contact is ensured by a safety grille.

Electrical panel

With main switch, power and control circuit protection, compressor contactors. Microprocessor controlled unit with main function display. 230V/1~/50Hz power supply (models 5 and 7); 400V/3N~/50Hz (remaining models).

Testing

Units are factory-tested and supplied with refrigerant charge and oil. The units are delivered with the refrigerant circuit charged with nitrogen.

EPSILON/LE/HP

Reversible condensing unit (heat pump)

In addition to the components featured on the cooling-only version, this model includes: 4-way reversing valve, liquid receiver, and thermostatic expansion valve with pressure equalisation; microprocessor enabled for: summer/winter changeover, automatic defrosting, digital input for remote summer/winter changeover function.

MAIN ACCESSORIES

- Rubber antivibration mounts
- coils with special anti-corrosion treatment
- RS485 serial interface
- Remote control terminal (in addition to standard terminal)

EPSILON/LE - R407C TECHNICAL DATA

Unit size		5	7	8.5	10	12.5
Nominal cooling capacity (*)	kW	5,2	7,3	9,4	12,1	15,0
Nominal heating capacity (**)	kW	4,9	7,4	9,3	11,5	13,6
Compressor						
Quantity/Refrigerant circuits	n°	1/1	1/1	1/1	1/1	1/1
Cooling power input (*)	kW	1,8	2,4	3,1	3,4	4,3
Heating power (**)	kW	1,3	1,7	2,4	2,8	3,4
Capacity steps	%	100	100	100	100	100
Fans						
Air flow	m³/s	0,861	0,778	0,778	1,611	1,611
No. x installed power	n° x kW	1x0,14	1x0,14	1x0,14	1x0,36	1x0,36
Noise level (***)	dB(A)	56	57	57	62	62
Power supply	V/ph/Hz	230/1~/50	230/1~/50	400/3N~/50	400/3N~/50	400/3N~/50
Dimensions and weight						
Width	mm	1121,2	1121,2	1121,2	1221	1221
Depth	mm	418	418	418	538	538
Height	mm	1102	1102	1102	1102	1102
Operating weight	kg	84	95	106	132	132

Unit size		15	20	25	30	35
Nominal cooling capacity (*)	kW	17,5	19,9	26,6	37,1	42,5
Nominal heating capacity (**)	kW	16,9	20,1	28,5	37,2	43,1
Compressor						
Quantity/Refrigerant circuits	n°	1/1	1/1	1/1	1/1	1/1
Cooling power input (*)	kW	5,2	6,2	8,8	11,5	13,5
Heating power (**)	kW	3,9	5,0	6,2	8,2	9,8
Capacity steps	%	100	100	100	100	100
Fans						
Air flow	m³/s	1,444	2,306	2,167	2,167	2,167
No. x installed power	n° x kW	1x0,36	1x0,40	1x0,40	1x0,40	2x0,40
Noise level (***)	dB(A)	63	64	64	65	65
Power supply	V/ph/Hz	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50
Dimensions and weight						
Width	mm	1221	1521	1521	1750	1750
Depth	mm	538	660,5	660,5	1003	1003
Height	mm	1102	1102	1102	1400	1400
Operating weight	kg	140	160	203	389	399

(*) Ambient air temperature 35 °C; evaporation temperature 7 °C.

(**) Ambient air temperature 8 °C DB, 70% RH; condensation temperature 40 °C.

(***) Sound pressure levels measured in free field conditions at 1 m from the unit, according to ISO 3746.

This datasheet gives the characteristic data of the basic and standard versions of the series; for details refer to the specific documentation