

Condensing units and heat pumps with axial fans and scroll compressors



GENERAL DESCRIPTION

Unit Frame.

Galvanized steel frame with baked-on epoxy-polyester powder paint. RAL 7032 colour.

Hermetic compressors.

Scroll and reciprocating type compressors (mod. 181-201) with thermal overload cutout, mounted on rubber vibration dampers and installed in a technical compartment separated from the air flow.

Refrigerant circuit.

With charging connection, liquid sight glass (except 21-31-36), drier filter, high and low pressure switches, safety device.

Condenser.

Of the finned-coil type, with galvanized metal protection guard.

Ventilatori assiali.

Directly coupled to single-phase, 6-pole motors, with accident-prevention guard.

Electrical panel.

With main switch, power and auxiliary circuit protection, compressor contactor.

Testing.

Units are factory tested and supplied with initial oil charge.

AVAILABLE VERSIONS

ALFA/LE

Condensing unit

ALFA/LE/HP

Reversible condensing unit equipped with four-way diverting valve, liquid receiver, second thermostatic expansion valve and suction line separator (mod. 181-201). Defrosting for summer/winter changeover.

ACCESSORIES

- solenoid valve on liquid line (except HP version);
- liquid receiver;
- expansion vessel for remote evaporator;
- fan speed control;
- rubber vibration dampers;
- coils with special treatment;
- special voltages.

Can be used in combination with UTA – UTAH direct-expansion fan units

ALFA/LE - R407C TECHNICAL DATA

Unit size		21	31	36	41	61	81
Cooling(*)							
Nominal capacity	kW	5,6	8,7	10,1	12,3	15,4	18,1
Heating (**)							
Nominal capacity	kW	5,6	8,6	10,0	12,2	14,9	17,8
Compressor							
Quantity	n°	1	1	1	1	1	1
Type	/	scroll	scroll	scroll	scroll	scroll	scroll
Cooling power input	kW	1,6	2,5	2,8	3,5	4,2	4,9
Heating power input	kW	1,7	2,6	2,9	3,5	4,2	4,9
Fans							
Air flow	m³/s	0,83	0,83	0,83	1,8	1,8	1,8
N° X installed capacity	n° x kW	1 x 0,14	1 x 0,14	1 x 0,14	1 x 0,37	1 x 0,37	1 x 0,37
Oil charge	kg	1,00	1,10	1,10	1,85	1,55	1,65
Shipping weight (#)	kg	92	94	95	129	129	132

Unit size		91	101	141	161	181	201
Cooling(*)							
Nominal capacity	kW	24,1	32,1	40,	46,2	56,9	64,6
Heating (**)							
Nominal capacity	kW	23,3	31,3	39,7	46,5	51,5	60,8
Compressor							
Quantity	n°	1	1	1	1	1	1
Type	/	scroll	scroll	scroll	scroll	reciprocating	reciprocating
Cooling power input	kW	6,7	9,1	11,1	13,1	16	19,3
Heating power input	kW	6,5	8,9	10,9	12,9	13,5	16,5
Fans							
Air flow	m³/s	2,12	2,12	5,0	5,0	3,5	3,5
N° X installed capacity	n° x kW	1 x 0,53	1 x 0,53	2 x 0,53	2 x 0,53	2 x 0,53	2 x 0,53
Oil charge	kg	2,5	2,5	4,0	4,0	6,6	6,6
Shipping weight (#)	kg	179	230	321	338	371	380

(*) Ambient air temperature 32 °C; evaporator inlet/outlet water temperature 7 °C.

(**) Evaporator inlet air temperature DB 8 °C rel. hum. 75%; condenser inlet/outlet water temperature 40-45 °C.

(#) For heat pump units increase weight by 10%.