

Condensing units with centrifugal 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.

Centrifugal fans.

Directly coupled to electric motors (from 21 to 81), with V-belt transmission and pulleys (from 91 to 201). Accident-prevention guard fitted on delivery outlet.

Electrical panel.

With main switch, power and auxiliary circuit protection, compressor and fan contactors.

Testing.

Units are factory tested and supplied with initial oil charge.

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

AVAILABLE VERSIONS

ALFA CF/LE

Condensing unit.

ACCESSORIES

- solenoid valve on liquid line;
- liquid receiver;
- expansion valve for remote evaporator;
- rubber vibration dampers;
- coils with special treatments;
- special voltages;
- increased available pressure;
- mufflers on air suction and discharge lines;
- low ambient kit with:
 - speed control (from 21 to 36),
 - air shutters (from 41 to 201).

ALFA CF/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							
N° x installed capacity	n° x kW	1 x 0,52	1 x 0,52	1 x 0,52	1 x 1,1	1 x 1,1	1 x 1,1
Air flow	m³/s	0,90	0,9	0,9	1,67	1,67	1,67
Available static pressure	Pa	50	50	50	50	50	50
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	40,2	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							
N° x installed capacity	n° x kW	1 x 1,1	1 x 1,1	1 x 2,2	1 x 2,2	1 x 3,0	1 x 3,0
Air flow	m³/s	2,12	2,12	5,0	5,0	3,5	3,5
Available static pressure	Pa	50	50	50	50	50	50
Oil charge	kg	2,5	2,5	4,0	4,0	6,6	6,6
Shipping weight (#)	kg	179	230	321	338	400	409

(*) Ambient air temperature 32 °C; dew temperature at suction pressure 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%.