FROM 3.3 TON TO 50 TON.
FROM 12 KW TO 176 KW.

AL-RTAF / AL-RTAQ 117÷1760

SINGLE-SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS.



The single skin Packaged Roof Top units of the **AIR LINE** series, with R410A refrigerant, can be connected to a duct network for air conditioning of small and medium surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial ambients such as food processing or preservation centres.
Equipped with radial fans, these units are available in cooling only and reversible heat pump version.
AIR LINE is characterized by full installation flexibility: the air flow direction for both air delivery and intake can be adjusted directly onsite; air delivery and intake are foreseen both on the same side in order to keep the overall space at minimum.
The cabinet features a solid steel structure with zinc coated galvanized treatment.

AIR LINE

VERSION

AL-RTAF	*AL-RTAQ*
Cooling only	Reversible Heat Pump

FEATURES

- Structure of base perimeter made of galvanized steel sheet elements. Self-supporting galvanized steel frame further protected with polyester powder painting.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator made of copper tube and aluminium finned coil.
- Delivery & intake radial fans coupled to 3-phase motors by V belt and variable pulley.
- R410A refrigerant.
- Electrical board includes: protection modules; thermal protection relays on compressors; thermocontacts for the fans of the condensing section; contactors for the fan motors of the air treatment section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES

ECO	Free-cooling economizer section with aluminium dampers managed by electrical motor. Microprocessor control for dampers' opening to manage supply, return and fresh air
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins

RTEC HVAC PRODUCTS & SOLUTIONS

AL-RTAF / AL-RTAQ 117÷1760

MODEL			117	146	176	234	293	352	439
Cooling	Cooling capacity (1)	TON	3.3	4.2	5.0	6.7	8.3	10.0	12.5
		kW	11.7	14.6	17.6	23.4	29.3	35.2	43.9
	Absorbed power (1),(2)	kW	4.2	4.9	6.0	8.3	9.6	12.3	14.7
Heating	Heating capacity (3)	TON	3.7	4.7	5.6	7.5	9.3	11.2	14.0
		kW	13.1	16.4	19.7	26.3	32.8	39.4	49.2
	Absorbed power (2),(3)	kW	3.6	4.2	5.1	7.1	8.2	10.5	12.5
Air treatment section	Air flow	cfm	1271	1695	1907	2755	3390	4026	5085
		m³/s	0.6	0.8	0.9	1.3	1.6	1.9	2.4
	Available static pressure	in WG	0.40	0.40	0.40	0.60	0.60	0.60	0.60
		Pa	100	100	100	150	150	150	150
	Fan	n°	1	1	1	1	1	1	1
	Filters	Type	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	1	1	1	1	1	1	1
	Refrigerant circuits	n°	1	1	1	1	1	1	1
	Capacity steps	n°	1	1	1	1	1	1	1
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						
	Max. running current	A	10	12	14	18	20	26	34
	Max. starting current	A	51	59	70	100	115	144	184
Sound pressure	STD version (4)	dB(A)	50	52	54	55	55	59	60
Weights	Transport weight	Kg	310	360	395	430	510	580	795
	Operating weight	Kg	300	350	385	420	500	570	785

MODEL			586	732	879	1050	1170	1410	1760
Cooling	Cooling capacity (1)	TON	16.7	20.8	25.0	29.9	33.3	40.1	50.0
		kW	58.6	73.2	87.9	105	117	141	176
	Absorbed power (1),(2)	kW	19.7	24.7	29.2	39.0	43.3	48.5	57.0
Heating	Heating capacity (3)	TON	18.7	23.3	28.0	33.6	37.2	44.9	56.0
		kW	65.6	82.0	98.4	118	131	158	197
	Absorbed power (2),(3)	kW	16.7	21.0	24.8	33.1	36.8	41.2	48.4
Air treatment section	Air flow	cfm	6780	8264	9959	12078	13349	16103	19917
		m³/s	3.2	3.9	4.7	5.7	6.3	7.6	9.4
	Available static pressure	in WG	1.20	1.20	1.20	1.20	1.20	1.20	1.20
		Pa	300	300	300	300	300	300	300
	Fan	n°	1	1	1	1	1	1	1
	Filters	Type	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	2	2	2	4	4	4	4
	Refrigerant circuits	n°	2	2	2	2	2	2	2
	Capacity steps	n°	2	2	2	2	2	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						
	Max. running current	A	45	53	69	87	92	109	134
	Max. starting current	A	140	172	219	276	369	228	284
Sound pressure	STD version (4)	dB(A)	60	60	62	61	62	62	61
Weights	Transport weight	Kg	950	1190	1310	1780	1880	2090	2450
	Operating weight	Kg	940	1180	1300	1770	1870	2080	2440

DIMENSIONS			117	146	176	234	293	352	439	586	732	879	1050	1170	1410	1760
L	STD	mm	1200	1200	1350	1600	1700	1900	2140	1900	2190	2330	3040	3175	3215	3650
W	STD	mm	1200	1200	1300	1200	1450	1450	1750	1700	1850	1850	2100	2250	2250	2250
H	STD	mm	1000	1000	1000	1150	1150	1150	1150	1750	1750	2050	2050	2050	2330	2330

CLEARANCE AREA

AL-RTAF / AL-RTAQ 117÷1760

1000	1000	1000	1000



NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
4. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of HP version are specified on technical brochure.

Electrical board side