

Condensing unit

Cooling only
Air cooled
Outdoor installation
Capacity from 26 to 80 kW



The **MSAT** air-cooled condensing units have been designed for outdoor installation and for best energy efficiency in relation to reduced size. They may be combined with terminal units or connected to exchanger coils of air-handling units.

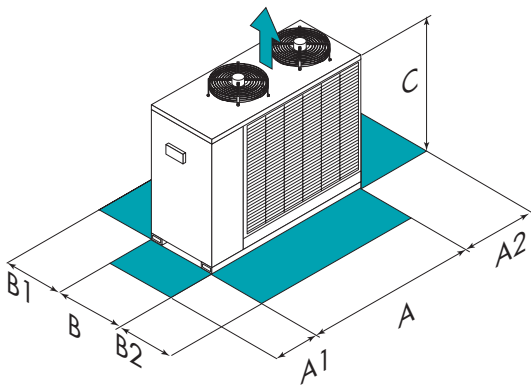
The main features are:

- ▶ **HIGH ENERGY EFFICIENCY**, especially during operation at partial loads, thanks to the use of two compressors of different capacity operating on a single cooling circuit;
- ▶ **SELF-ADAPTING** - The evolved electronics implemented adapt the operating parameters to the load conditions of the system it is installed in, optimising consumption, noise and the working life of the components;
- ▶ **COMPACT SIZE** - The units are designed to reduce overall dimensions to a minimum, a decisive factor to adapt to the features of any building.

functions and features



dimensions and clearances



Size – MSAT-XEE		8.2	10.2	12.2	16.2	18.2	22.2	26.2	30.2
A - Length	mm	1739	1739	1739	1967	1967	1967	2367	2367
B - Width	mm	721	721	721	1143	1143	1143	1141	1141
C - Height	mm	1287	1287	1287	1599	1599	1599	1593	1593
A1	mm	700	700	700	700	700	700	700	700
A2	mm	700	700	700	700	700	700	700	700
B1	mm	700	700	700	700	700	700	700	700
B2	mm	700	700	700	700	700	700	700	700
Operating weight	kg	298	303	323	456	469	490	547	561

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

CAUTION!For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

technical data

Size – MSAT-XEE			8.2	10.2	12.2	16.2	18.2	22.2	26.2	30.2
▶ Cooling capacity	(1)	kW	25,7	31,3	36,0	43,4	51,6	59,1	72,3	80,1
Compressor power input	(1)	kW	8,79	9,95	12,4	14,1	16,2	20,3	22,6	26,6
Total power input	(1)	kW	6,30	10,4	12,9	15,6	17,7	21,8	24,2	28,4
EER	(1)	-	2,78	3,01	2,80	2,78	2,91	2,71	2,99	2,82
Refrigeration circuits		Nr	1	1	1	1	1	1	1	1
No. of compressors		Nr	2	2	2	2	2	2	2	2
Type of compressors		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Standard airflow		l/s	2553	2545	2514	4965	4902	4778	7196	6971
Standard power supply		V	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
Sound pressure level	(2)	dB(A)	60	60	60	64	64	65	65	65

Notes

- (1) Saturated suction temperature (SST) = 5°C; Outdoor air temperature 35°C
 (2) The sound levels refer to the unit at full load, in the rated test conditions.

The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field.

accessories

- ▶ **KCX** Connection set
- ▶ **AMRX** Rubber antivibration mounts
- ▶ **PGCEX** Coil protection grilles outdoor air side
- ▶ **PM** Phase monitor
- ▶ **PMX** Phase monitor
- ▶ **CBRX** Unit with remote keypad.
- ▶ **MEN30** Minimum external air temperature down to -30°C
- ▶ **MEN15** Minimum external air temperature down to -15°C

Key to symbols:

- Accessories separately supplied