

Condensing unit

Cooling only
Air cooled
Outdoor installation
Capacity from 90 to 174 kW



The **MSAT** air-cooled condensing units have been designed for outdoor installation and for best energy efficiency in relation to reduced size. The compressors are of the hermetic Scroll type.

They are fitted with an innovative microprocessor control for regulating and optimising all unit functions, thereby increasing the energy efficiency.

An enamelled, hot-galvanised sheet metal load-bearing frame with prepainted aluminium outer panelling ensures maximum resistance to weathering. The base, made from painted galvanised metal sections with holes to facilitate lifting and earthing the unit, guarantees even weight distribution.

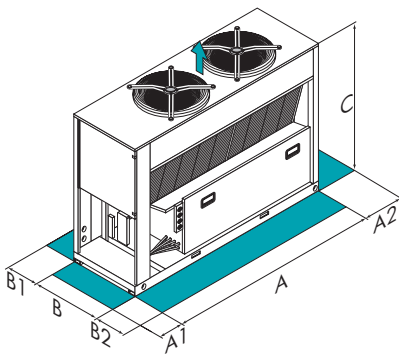
All the units are factory assembled and tested and ready for operation after connection, with consequent substantial reduction in installation costs.

functions and features



Cooling only Air cooled Outdoor installation R-407C Hermetic Scroll

dimensions and clearances



Size – MSAT		292	323	404	464	524	564	604
A - Length	mm	3250	3250	3250	3250	3250	3250	3250
B - Width	mm	1095	1095	1095	1095	1095	1095	1095
C - Height	mm	2030	2030	2030	2030	2030	2030	2030
A1	mm	1500	1500	1500	1500	1500	1500	1500
A2	mm	900	900	900	900	900	900	900
B1	mm	1500	1500	1500	1500	1500	1500	1500
B2	mm	1500	1500	1500	1500	1500	1500	1500
ST	Operating weight	kg	1225	1336	1486	1511	1534	1577
LN	Operating weight	kg	1256	1367	1516	1544	1565	1607
								1644

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.

ST Standard (ST)
LN Low noise (LN)

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

versions and configurations

VOLTAGE:

- ▶ **400T** Supply voltage 400/3/50 without neutral (Standard)

ENERGY RECOVERY:

- ▶ - Energy recovery: not required (Standard)
- ▶ **D** Partial energy recovery
- ▶ **R** Total energy recovery

ACOUSTIC CONFIGURATION:

- ▶ **ST** Standard acoustic configuration (Standard)
- ▶ **LN** Low noise acoustic configuration

technical data

Size – MSAT			292	323	404	464	524	564	604
▶ Cooling capacity	(1)	kW	90,1	106	121	137	152	162	174
Compressor power input		kW	25,9	29,2	32,6	38,9	45,4	49,6	53,3
Total power input	(2)	kW	30,4	33,7	39,1	45,4	51,9	56,2	59,9
Refrigeration circuits		Nr	2	2	2	2	2	2	2
No. of compressors		Nr	2	3	4	4	4	4	4
Type of compressors	(3)	-	scroll	scroll	scroll	scroll	scroll	scroll	scroll
Sound pressure level	(4)	dB(A)	72	74	76	77	77	77	77

Notes

- (1) Data referred to the following conditions: Saturated suction temperature (SST) = 9.5 °C (Dew Point); Outdoor air temperature 35°C
- (2) Total absorbed power is given by the compressor absorbed power + fan absorbed power + auxiliary circuit absorbed power.
- (3) SCROLL = scroll compressor
- (4) 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. Data referred to the following conditions: Saturated suction temperature (SST) = 9.5 °C (Dew Point); Outdoor air temperature 35°C

accessories

- ▶ **CCCA** Copper / aluminium condenser coil with acrylic lining
- ▶ **CCCA1** Condenser coil with Energy Guard DCC Aluminum
- ▶ **AMMX** Spring antivibration mounts
- ▶ **PGFC** Finned coil protection grill
- ▶ **PM** Phase monitor
- ▶ **RCMRX** Remote control via microprocessor control
- ▶ **CMPB** Serial communication module to PC or BMS
- ▶ **PFCP** Power factor correction capacitors (cosfi > 0.9)
- ▶ **CBS** Overload circuit breakers
- ▶ **HGBPX** Hot gas by pass (supplied separately)
- ▶ **KCX** Connection set

Key to symbols and notes

- Accessories separately supplied

For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.