



MCTAURUS TECH

Air-cooled condensing units featuring hermetic scroll compressors with R410A.
Nominal cooling capacity 72 – 158 kW



Condensing units designed for integration in air conditioning systems.

The condensing units MCTAURUS TECH are suitable for outdoor installation designed for integration in commercial and residential air conditioning systems. The refrigerant flows through an external circuit to an internal separated unit in order to guarantee the best climatic comfort in the user's building. These condensing units aim to meet the the hydronic cooling for several types of systems, exploiting the wide operating limits and always ensuring the minimum noise level.



Cooling, conditioning, purifying.

Advantages

- HE version, High Efficiency;
- SHE and SSN version with super low noise levels;
- High efficiency performances at full load (EER);
- Wide operating limits for starting up and functioning even in the worst conditions;
- Wide range of options and kits for easy installation;
- Easy access to all components.

Main options

- IN/OUT compressors' valves;
- High efficiency Brushless EC condenser fans;
- Protection coating for condenser coils, suitable for installation in aggressive environments;
- Protection panels or metallic mesh;
- Metallic mesh or filters for condenser coil protection;
- Soft starters to reduce by 30% the starting current;
- -20 °C option: it allows the units to operate down to -20 °C ambient temperature.

Standard features

- Environment friendly refrigerant R410A;
- Hermetic Scroll compressors in single circuit configuration;
- Crankcase heater and phase-monitor;
- Axial fans, developed on the basis of bionic principles that allow to achieve high performance with low noise emissions;
- Electrical protection rating IP54;
- Parametric microprocessor control IC208CX;
- Air-cooled condensers (copper tubes/aluminium fins) with longitudinal "V" formation;
- High and low refrigerant pressure switches;
- Refrigerant pressure gauges.

Sales kit

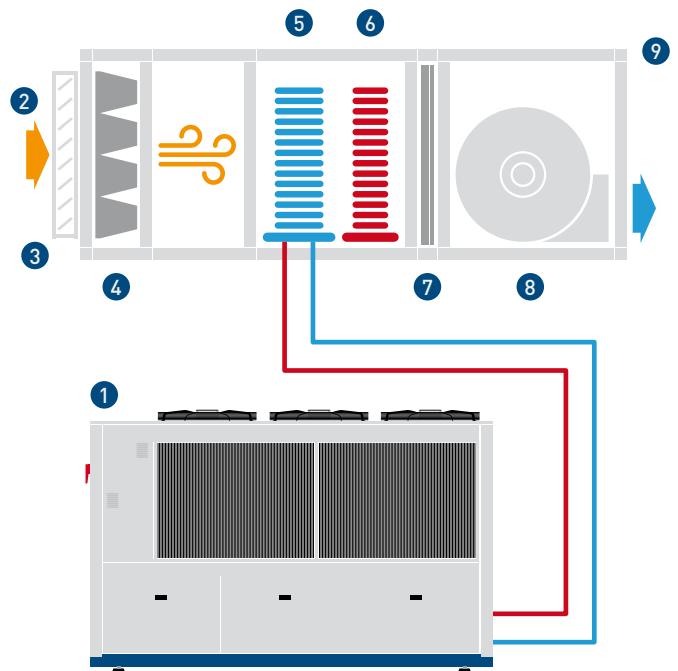
- Expansion thermostatic valve kit;
- Anti-vibration mounts kit;
- Remote control kit: VICX620 display LED, VG1890 display LCD semi-graphic (max 150 m);
- Gateway Modbus/Trend Kit;
- Supervisor kits: RS485 ModBus, xWEB300D.

Versions

- HE - High energy efficiency and basic acoustic configuration;
- SHE - High energy efficiency and low noise acoustic configuration;
- SSN - Standard energy efficiency and very low noise acoustic configuration; not available on model 065.

Example of integration of a MCCY condensing units to an Air Handling Unit:

1. Condensing Unit
2. Return Air
3. Return Air Dumper
4. Air Filter
5. Cooling Coil
6. Post-Heating Coil
7. Antivibration Section
8. Fan
9. System Supply Air



Models		030	035	040	050	055	060	065
Nominal cooling capacity (1)	kW	72	79,1	96,3	110	126	138	158
Total absorbed power (1)	kW	26	27	32,9	38,2	41,4	46,7	52,3
EER (2)		2,78	2,93	2,93	2,87	3,05	2,95	3,02
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50						
Circuits / Compressors	N°	1/2						
Sound power (5)	dB(A)	87	87	87	90	90	89	90
Sound pressure (6)	dB(A)	59	59	59	62	62	61	62
Depth	mm	1110	1110	1110	1110	1110	1110	1110
Width	mm	2507	2507	2507	3407	3407	3407	3407
Height	mm	2140	2140	2140	2140	2140	2140	2140
Installed weight	kg	724	754	895	1077	1120	137	1170

Data declared according to UNI EN 14511:2013.

- (1) **Nominal cooling capacity and Nominal absorbed power:** data referred to nominal conditions, external ambient temperature 35 °C and evaporating temperature 5 °C;
- (2) **EER:** data referred to the full load functioning and nominal conditions, external ambient temperature 35 °C and evaporating temperature 5 °C;
- (3) **Sound power:** determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (4) **Sound pressure at 10 m:** average value obtained in free field on a reflective surface at a distance of 10 m from the external side of the electrical panel of machine and at a height of 1,6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base units with no options fitted.



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.



MTA participates in the E.C.C. programme for LCP-HP. Certified products are listed on: www.eurovent-certification.com Certification applied to the units:
- Air/Water up to 600 kW
- Water/Water up to 1500 kW



EAC Declaration

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