



# TAURUS TECH MC

Air-cooled condensing units featuring hermetic scroll compressors with R410A.  
Nominal cooling capacity 77 – 160 kW



Condensing units designed for integration in air conditioning systems.

The condensing units TAURUS TECH MC 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

- High efficiency HE configuration;
- Acoustic versions SHE and SSN with reduced sound levels;
- High efficiency performances at full load (EER);
- Extended working limits for starting up and operating even in the worst conditions;
- Wide choice of options and kits for simplified installation;
- Eased access to all internal components.

## Options

- Low ambient temperature option (down to -20 °C);
- High efficiency EC brushless fans;
- IN/OUT compressors valves;
- Protection with covering panels or metallic mesh;
- Condenser coils protection with metallic filters or metallic mesh;
- Protective coating for condenser coils, suitable for installation in aggressive environments;
- Soft starters to reduce by 30% the unit's starting current.

## Standard features

- Refrigerant R410A;
- Hermetic scroll compressors on single refrigerant circuit;
- Crankcase heater compressor and phase-monitor;
- Axial fans with die-cast aluminium airfoil blade profiles and AC motors;
- Electrical cabinet protection rating IP54;
- Parametric microprocessor control;
- Electronic expansion valve;
- Air-cooled condensers (copper tubes/aluminium fins) with longitudinal "V" shape layout;
- High and low refrigerant pressure switches;
- Refrigerant pressure gauges.

## Kits

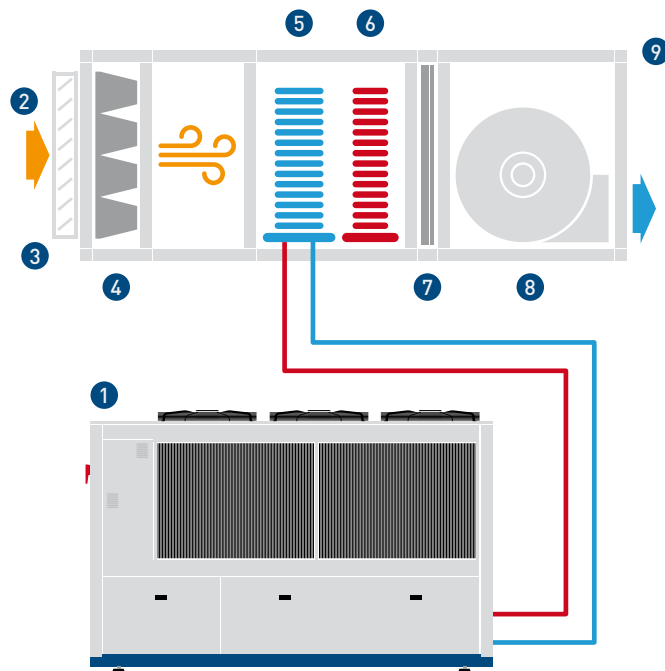
- Antivibration mountings;
- Replicated remote user display (LED or LCD configuration);
- RS485 ModBus kit for connection to supervisor systems;
- Supervision system xWEB300D EVO;
- Modularity kit (master/slave configuration from 2 to 8 units);
- Expansion valve kit.

## Acoustic configurations

- HE - Basic acoustic configuration;
- SHE - Low noise acoustic configuration;
- SSN - Very low noise acoustic configuration.

## Example of integration of a TAT MC 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 TAT MC	Versions	030			035			040			050			055			060			065		
		HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN
Nominal cooling capacity (1)	kW	77,4	75,0	71,6	88,1	84,7	-	99,0	94,9	87,9	116,2	113,2	108,8	127,5	123,9	118,7	145,5	140,3	132,8	160,4	153,8	144,2
Total absorbed power (1)	kW	24,1	23,8	24,4	27,5	27,7	-	31,1	31,7	34,2	35,5	34,8	35,4	39,0	38,6	39,6	47,1	47,5	49,7	50,8	51,9	55,1
EER (2)		3,21	3,16	2,93	3,20	3,06	-	3,18	2,99	2,57	3,27	3,25	3,08	3,27	3,21	3,00	3,09	2,95	2,67	3,16	2,97	2,62
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																				
Circuits / Compressors	N°	1/2																				
Sound power (5)	dB(A)	87,5	82,6	79,6	87,1	82,2	-	86,7	81,8	78,8	90,3	84,2	81,3	90,1	83,8	80,6	88,8	83,5	80,3	89,9	84,0	79,7
Sound pressure (6)	dB(A)	59,5	54,6	51,6	59,1	54,2	-	58,8	53,8	50,9	62,3	56,3	53,3	62,1	55,9	52,6	60,9	55,5	52,3	61,9	56,0	51,7
Depth	mm	1110			1110			1110			1110			1110			1110			1110		
Width	mm	2507			2507			2507			3407			3407			3407			3407		
Height	mm	2155			2155			2155			2155			2155			2155			2155		
Installed weight	kg	696			722			738			876			919			984			1029		

**Data declared according to UNI EN 14511:2018. All data refers to standard units without accessories/options which require an electrical feeding source and in nominal working conditions.**

- (1) Nominal cooling capacity and nominal absorbed power: data referred to nominal conditions, external ambient temperature 35 °C and evaporating temperature 5 °C;  
 (2) 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 without accessories/options.

The listed noise levels, weights and dimensions refer to base chillers with no options/accessories 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](http://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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