



MCCYGNUS TECH | MCHCYGNUS TECH

Air-cooled condensing units featuring hermetic rotary or scroll compressors with R410A.

Nominal cooling capacity 6 – 64 kW | Nominal heating capacity 7 – 66 kW



Designed for integration.

The condensing units MCCYGNUS TECH and reversible condensing units MCHCYGNUS 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.

Benefits

- Extremely low noise levels;
- High energy efficiency at full and partial load;
- Ideally suited to splitted air conditionin systems;
- Extended operating limits;
- Optimisation of heating functioning thanks to the exclusive Frost Detecting System (FDS) (Minimum ambient temperature in heat pump mode = -10 °C);
- Designed for installation in confined spaces;
- Easy to use thanks to a controller with icon-based dual display;
- Easy installation and simple access to all unit components.

Main Options

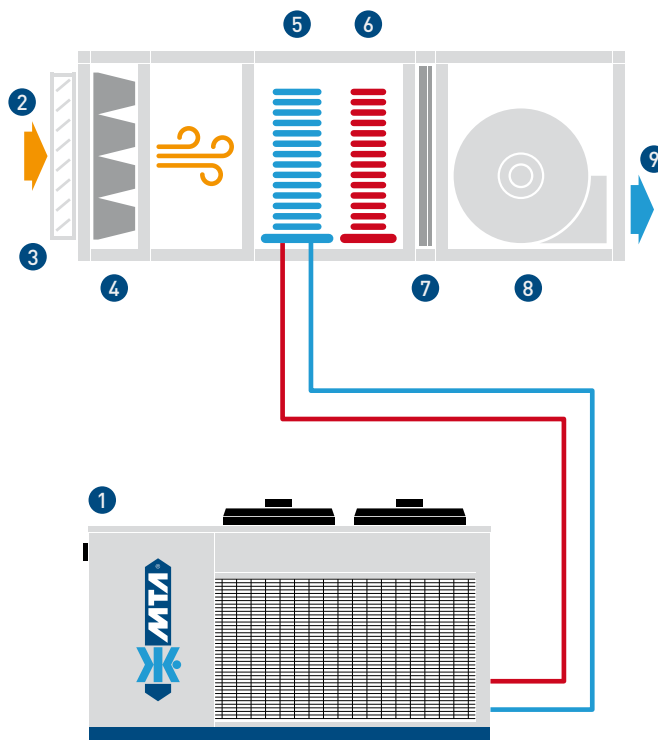
- Thermostatic expansion valve kit for chiller version only;
- Thermostatic expansion valve kit and non-return valve for reversible version;
- Condensate collection tray with hose connection (models 013-071);
- Remote user interface;
- RS485 ModBus interface for connection to supervisor systems;
- xWEB300D for local or remote (GPRS) monitoring plus data filing based on WEB server technology;
- Antivibration mountings;
- Condenser filters;
- Soft starter.

Standard Features

- Hermetic Rotary compressors (020) Scroll compressors (031-171) tandem Scroll compressors (211-301);
- Refrigerant brazing connections directly accessible from the exterior of the unit;
- Axial fans with sickle shaped blades and electronic speed control;
- Factory charged with refrigerant and non-freezing oil;
- Protection grade IPX4;
- Inspections and tests performed in factory as per all MTA products and components;
- Environmentally friendly refrigerant R410A with zero ozone depletion potential;
- Phase monitor against phase reversal;
- Compressor crankcase heater.

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		020	031	051	071	081	101	131	171	211	251	301
Nominal cooling capacity (1)	kW	6,8	9,5	13,6	17,7	21,5	28,5	36,9	42,5	49,6	57,8	64,3
Total absorbed power (1)	kW	2,6	3,6	5,1	6,73	7,26	9,55	12,6	13,8	17,2	19	22,4
EER (2)		2,7	2,7	2,7	2,63	2,96	2,98	2,92	3,09	2,88	3,04	2,88
Nominal heating capacity (3)	kW	7,41	9,82	14,5	18,7	22	29,7	38	44,4	49,8	59,4	66,4
Total absorbed power (3)	kW	2,12	3,04	4,3	5,41	5,92	7,65	10,1	11,2	13,7	15,5	17,5
COP (4)		3,5	3,22	3,38	3,46	3,72	3,89	3,77	3,96	3,63	3,83	3,78

Power supply	V/Ph/Hz	230±10%/1/50		400 ± 10% / 3+N-PE / 50								
Circuits / Compressors	N°	1/1						1/2				
Sound power (5)	dB(A)	66,9	68,7	69,9	70,9	69,5	72,5	74,8	76,2	76,6	77,4	77,0
Sound pressure (6)	dB(A)	38,9	40,7	41,9	42,9	41,5	44,5	46,8	48,2	48,6	49,4	49,0
Depth	mm	380	550	550	550	810	810	1112	1112	1112	1112	1112
Width	mm	978	1420	1420	1420	1960	1960	2060	2060	2470	2470	2470
Height	mm	985	1288	1288	1288	1203	1203	1417	1417	1595	1595	1595
Installed weight	kg	103	148	148	158	226	242	320	391	465	493	502

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) **Nominal heating capacity and Nominal absorbed power:** data referred to nominal conditions external ambient temperature 7 °C, relative humidity 87%, condensing temperature 45 °C;
- (4) **COP:** data referred to the full load functioning and nominal conditions, external ambient temperature 7 °C, relative humidity 87%, condensing temperature 45 °C;
- (5) **Sound power:** determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (6) **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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