



## MENEPTUNE TECH

Condenserless units units, cooling only version featuring hermetic scroll compressors with R410A.

Nominal cooling capacity 225 – 530 kW



### Compact and low noise condenserless units.

The condenserless range ME Neptune Tech offers the optimal combination of energy efficiency, ease of use and superior quality. The application of up to 6 scroll compressors within up to 2 independent circuits ensures peace of mind together with excellent partial load energy savings and lowest noise levels. ME Neptune Tech's compact configuration allows it to even pass through a domestic door, further simplifying installation.

The robust industrial design featuring renowned components, unloading function and wide operating limits combine to offer guaranteed operation in all conditions.



Cooling, conditioning, purifying.

## Benefits

- Up to 6 compressors offer high efficiency and reliability;
- High energy efficiency levels, especially at partial loads;
- Extremely compact, even passes through a domestic door;
- Operates with water outlet temperatures from 0 °C to 25 °C;
- Unloading function allowing operation even in extreme conditions;
- Self Adapting Control (SAC) with dynamic set point, for increased precision with low thermal inertias;
- Robust design with high quality components from renowned suppliers, fruit of MTA's industrial background;
- Reduced noise levels, thanks also to the availability of two differing acoustic versions;
- Easy installation and access to all components;
- Allows both inlet and outlet water control, with a PID control logic;
- Generous ambient limits (-10 °C to +45 °C);
- Easy to use intuitive controller with dual icon display.

## Standard Features

- 3 to 6 hermetic scroll compressors, positioned in parallel in one or two circuits;
- Brazed stainless steel plate evaporators;
- Shut-off valve and solenoid valve on the liquid line;
- Extensive inspections and tests performed on all units;
- IP54 electrical protection rating;
- All the scroll compressors are equipped with crankcase heaters as standard;
- All the units are delivered with a phase monitor which provides protection against phase loss and phase reversal.

## Main Options

- Noise reducing compressor housing;
- Antivibration dampers;
- Heating functioning mode with water side cycle reversion;
- Soft starter;
- Antifreeze heater for exchangers;
- Remote user interface;
- RS485 MODBUS interface for connection to supervisor systems;
- xWEB300D remote supervision, allowing local or remote monitoring via web server or GPRS.



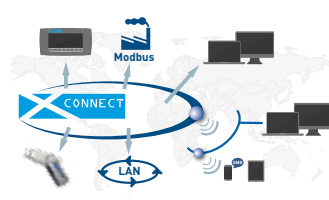
Microprocessor controller with dual icon-based display.



Optimised performance thanks to multiscroll logic.



Ideal for air conditioning of civil, public and private buildings.



xCONNECT: a world of connectivity solutions.

Models ME/NET		075	090	100	110	120	135	150	165	180
Nominal cooling capacity [1]	kW	225	266	299	326	354	401	448	490	530
Total absorbed power [1]	kW	60,3	70,3	80,4	87,1	93,9	107	121	131	141
EER [2]		3,74	3,78	3,71	3,75	3,77	3,73	3,71	3,74	3,76
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50								
Circuits / Compressors	N°	1/3	1/3	2/4	2/4	2/4	2/5	2/6	2/6	2/6
Sound power [3]	dB(A)	86,1	87,8	87,3	88,3	89	89,1	89,1	90	90,8
Sound pressure [4]	dB(A)	58,1	59,8	59,3	60,3	61,0	61,1	61,1	62,0	62,8
Depth	mm	2010	2010	2610	2610	2610	3705	3705	3705	3705
Width	mm	800	800	800	800	800	800	800	800	800
Height	mm	1830	1830	1830	1830	1830	1830	1830	1830	1830
Installed weight	kg	993	1161	1332	1440	1549	1729	1867	2061	2211

### Data declared according to UNI EN 14511:2013.

- [1] **Nominal cooling capacity and Nominal absorbed power:** data referred to nominal conditions: evaporator water temperature IN/OUT 12/7 °C and condensing temperature 45°C;
- [2] **EER:** data referred to the full load functioning: evaporator water temperature IN/OUT 12/7 °C and condensing temperature 45°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](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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