



MEOCEAN TECH

Cooling only condenserless units featuring rotary or hermetic scroll compressors with R410A.

Nominal cooling capacity 4 – 176 kW



The low noise condenserless units.

Space availability and noise levels are critical factors for indoor heat pumps. ME OCEAN Tech condenserless units can be installed literally anywhere, allowing easy transport and installation. The fully enclosed and acoustically insulated design, with noise levels down to 30 dB(A), ensures unit operation is virtually imperceptible to occupants. The optional storage and pump module, positioned next to the heat pump, transforms ME OCEAN Tech into a packaged full-feature system, including a single easy to use microprocessor for simplest operation.

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



Cooling, conditioning, purifying.

Advantages

- Lowest noise levels (down to 30 dB(A)) for installation in residential surroundings;
- High EER/COP levels, especially at partial loads;
- Extremely compact, allows installation just about anywhere;
- Operates with water outlet temperatures from 0 °C to 20 °C;
- Unloading function (model 200-600) allowing unit 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 international suppliers, fruit of MTA's industrial background;
- Easy installation and complete access to all components;
- Easy to use intuitive controller with dual icon display.

Standard features

- Hermetic rotary (018-030), scroll (040-150) and twin scroll (200-600) compressors;
- Single brazed stainless steel plate evaporator;
- Factory charged with non-freezing oil and refrigerant;
- IP22 electric protection rating;
- Tests performed on all units;
- Environmentally friendly refrigerant R410A with zero ozone depletion potential;
- Compressor crankcase heater;
- Phase monitor against phase reversal.

Main options

- Noise reducing compressor housing;
- Antivibration dampers;
- Soft starter;
- Remote user interface;
- RS485 MODBUS interface for connection to supervisor systems;
- xWEB300D remote supervision, allowing local or remote monitoring via a web server or a GPRS.



Microprocessor controller with dual icon-based display.



Allows installation in even the most limited spaces.

Models		018	022	030	040	050	070	100	130	150	200	230	280	350	400	500	600	
Nominal cooling capacity (1)	kW	3,9	5,1	6,7	10	14	21	29	38	44	59	67	81	101	118	150	176	
Total absorbed power (1)	kW	1,28	1,61	2,14	2,93	4,06	6,04	7,92	10,1	11,5	15,8	18	21,6	26,9	30,9	40,3	47	
EER (2)		3,05	3,14	3,14	3,47	3,50	3,55	3,69	3,81	3,77	3,72	3,72	3,76	3,74	3,82	3,72	3,75	
Power supply	V/Ph/Hz	230 ± 10 % / 1 / 50						400 ± 10% / 3-PE / 50										
Circuits / Compressors	N°	1/1						1/2										
Sound power (3)	dB(A)	58,0	58,7	59,1	62,7	63,9	65,6	68,0	71,7	74,1	75,4	76,6	77,1	78,9	79,8	80,0	81,7	
Sound pressure (4)	dB(A)	30,0	30,7	31,1	34,7	35,9	37,6	40,0	43,7	46,1	47,4	48,6	49,1	50,9	51,8	52,0	53,7	
Depth	mm	310	310	310	310	500	500	500	500	500	660	660	660	660	785	785	785	
Width	mm	520	520	520	520	780	780	780	780	780	1735	1735	1735	1735	1950	1950	1950	
Height	mm	830	830	830	830	1000	1000	1000	1000	1000	1200	1200	1200	1200	1200	1200	1200	
Installed weight	kg	48	52	56	64	111	146	164	184	195	360	383	435	485	553	622	643	

Data declared according to UNI EN 14511:2013.

- (1) data referred to nominal conditions, evaporator water temperature IN/OUT 12/7 °C and condensing temperature 45 °C;
- (2) data referred to the full load functioning: evaporator water temperature IN/OUT 12/7 °C and condensing temperature 45°C;
- (3) determined on the basis of measurements taken in accordance with the standard ISO 3744.
- (4) 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 1.6m 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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