



# SOLUTIONS FOR AIR CONDITIONING



*Conditioning your ambient,  
maximising your comfort.*



Cooling, conditioning, purifying.



# Solutions for Air Conditioning

MTA offers an extensive range of premium products ideally suited to numerous Air Conditioning applications. High efficiency Ecodesign SEER Tier 2 chillers and SCOP Tier 2 heat pumps are offered across the entire cooling and heating capacity ranges, with scroll, scroll-inverter, reciprocating, screw and screw-inverter configurations. Reduced GWP refrigerants, including R290 (Propane), R454B, R513A and R1234ze, are available from 73 to 1499kW cooling capacity. Highest quality components and a robust yet compact construction ensure notable reliability levels, with advanced microprocessor control technology offering ease of use and precise control. Heat Recovery configurations are available for most ranges. Furthermore, MTA's extensive range of options and accessories, as well as personally engineered solutions, ensure that all specific customer requirements can be precisely catered for.

## Air-cooled chillers

Air-cooled configurations are ideal in the most varied commercial, technical and residential applications. MTA offers models up to 1908 kW with rotary, scroll, reciprocating, screw and screw-inverter compressors, with reduced GWP refrigerants R290 (Propane), R454B, R513A and R1234ze extensively applied across the range. Both plate and shell & tube evaporators are available, and most ranges feature internal hydronic groups with integral pumps. The implementation of the most advanced technologies ensures optimised seasonal energy efficiency levels, compliant with ErP Tier 2 regulations. The wide range of models and generous options list ensure that MTA can offer the right solution for all individual needs.

## Water-cooled chillers

Water-cooled chillers offer extremely high energy efficiencies, as well as particularly low noise levels, representing the ideal solution if a cooling water source is available. Water-cooled configurations are particularly well suited for indoor installation, thanks also to their compact dimensions. Cooling capacities up to 1499 kW are available, with various ranges offering scroll, multi-scroll and screw compressors. Refrigerant R513A, R1234ze and R410A are offered. Numerous accessories allow personalization to all individual needs.

## Heat pumps

Heat Pumps offer both cooling and heating from a single unit, ensuring a highly versatile solution. MTA's product range features elevated SCOP Tier 2 efficiency levels and offer reversibility either on the refrigerant side or the water side. MTA offers both air-cooled and water-cooled models with refrigerant R513A, R1234ze and R410A, featuring rotary, scroll or screw compressors. Heating capacities up to 356 kW (air-cooled) and up to 1721 kW (water-cooled) are available.

## Condensing units and Evaporating units

MTA offers condensing units derived from its air-cooled chillers, and evaporating units derived from its water-cooled chillers. These flexible solutions allow the User to independently complete the system according to their specific needs.

## Modular free-coolers

FC4 free-cooling modules allow the integration of free-cooling technology within MTA hydronic systems. The fully packaged plug-and-play configuration features an integrated microprocessor and free-cooling control valve. FC4 is applicable in new installations and retro-fits, also allowing the successive addition of further modules. FC4 improves energy efficiencies and reduces power consumptions, covering cooling capacities from 18 to 407 kW. FC4 modules can be combined with all TAURUS, ARIES and PHOENIX ranges.

## Customer personalized solutions

Beyond the extensive range of standard configurations, MTA also offers solutions designed to specific customer needs. These include differing refrigerants, products for rental applications, special 50 Hz and 60 Hz voltages, glycol free configurations, units packaged to specific requirements and solutions engineered to explicit application needs. Please contact MTA for further consultation.

## Supervisors and connectivity

xCONNECT allows BMS, LAN and Ethernet serial interfacing, USB connection and access to MTA's xWEB supervisor. The xVISION cloud-based monitoring and diagnostics platform operates in Ethernet or with 4G or 2G wireless connection. Remote controllers and master/slave operation are widely available.

## TAURUS G

- Air-cooled chillers
- Cooling capacity: 73 - 145 kW
- Compressors: scroll
- Refrigerant: R454B



## TAURUS Tech

- Air-cooled chillers and condensing units
- Cooling capacity: 73 - 150 kW
- Compressors: scroll
- Refrigerant: R410A



## ARIES G

- Air-cooled chillers
- Cooling capacity: 161 - 930 kW
- Compressors: scroll
- Refrigerant: R454B



## ARIES Tech 2

- Air-cooled chillers
- Cooling capacity: 164 - 945 kW
- Compressors: scroll
- Refrigerant: R410A



## ARIES N / iARIES N

- Air-cooled chillers
- Cooling capacity: 177 - 334 kW
- Compressors: reciprocating (with/without inverter)
- Refrigerant: R290



## PHOENIX G

- Air-cooled chillers
- Cooling capacity: 375 - 1908 kW
- Compressors: screw
- Refrigerant: R513A



## iPHOENIX G

- Air-cooled chillers
- Cooling capacity: 266 - 1383 kW
- Compressors: screw inverter
- Refrigerant: R513A



## PHOENIX Z

- Air-cooled chillers
- Cooling capacity: 232 - 1076 kW
- Compressors: screw
- Refrigerant: R1234ze



## iHCYGNUS Tech

- Air-cooled heat pumps
- Cooling capacity: 5 - 46 kW
- Heating capacity: 6 - 50 kW
- Compressors: scroll inverter
- Refrigerant: R410A



## HCYGNUS Tech

- Air-cooled heat pumps,
- Cooling capacity: 6 - 54 kW
- Heating capacity: 7 - 65 kW
- Compressors: rotary, scroll
- Refrigerant: R410A



## HTAURUS Tech

- Air-cooled heat pumps
- Cooling capacity: 64 - 135 kW
- Heating capacity: 76 - 160 kW
- Compressors: scroll
- Refrigerant: R410A



## HARIES Tech

- Air-cooled heat pumps
- Cooling capacity: 148 - 310 kW
- Heating capacity: 166 - 356 kW
- Compressors: scroll
- Refrigerant: R410A



## HOCEAN Tech

- Water-cooled, heat pumps and evaporating units
- Cooling capacity: 4 - 175 kW
- Heating capacity: 5 - 197 kW
- Compressors: rotary, scroll
- Refrigerant: R410A



## NEPTUNE Tech

- Water-cooled chillers, heat pumps and evaporating units
- Cooling capacity: 224 - 583 kW
- Heating capacity: 263 - 686 kW
- Compressors: scroll
- Refrigerant: R410A



## AQUARIUS G

- Water-cooled chillers, heat pumps and evaporating units
- Cooling capacity: 351 - 1499 kW
- Heating capacity: 399 - 1721 kW
- Compressors: screw
- Refrigerant: R513A, R1234ze on request



## FC4TAE - FC4ALL

- Free-cooling modules to be integrated with air-cooled chillers
- Free-cooling capacity: 18 - 407 kW
- Compatible with TAURUS, ARIES and PHOENIX



## EURUS

- Fan coils for floor, ceiling, concealed and ductable installation, cassette units.
- Cooling capacity: 1,3 - 11 kW
- Heating capacity: 1,6 - 14 kW



## xVISION

- Remote management and monitoring web-based platform
- Ethernet line or Wireless GSM 2G / 4G connectivity
- Data collection and secure storage on Cloud
- Historical data insight and automatic reporting
- Real-time alerts and automated alarm notification



### Note:

- Cooling capacity with water in/out 12/7 °C, ambient 35 °C (air-cooled) / condenser in/out 30/35 °C (water-cooled).
- Heating capacity with water in/out 40/45 °C, ambient 7 °C (air-cooled) / evaporator in/out 12/7 °C (water-cooled).



www.mta-it.com

The images of the products in the document are for illustrative purposes only and therefore do not have any contractual value.

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MTA is represented in over 80 countries worldwide. For information concerning your nearest MTA representative please contact M.T.A. S.p.A.

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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  
- Air/Water with cooling capacity up to 600 kW  
- Water/Water up to 1500 kW



EAC Declaration



Cooling, conditioning, purifying.