



SOLUTIONS FOR COMPRESSED AIR & GAS TREATMENT



*Purifying your compressed air,
increasing your efficiency.*



Cooling, conditioning, purifying.



Solutions for Compressed Air & Gas Treatment

The optimum compressed air and gas treatment solution can only be achieved by the application of a complete treatment. compressed air will be perfectly free of condensate, oil and other impurities. Elevated efficiency, reduced downtime and the most energy efficient solution to all individual User needs.

Refrigeration dryers

Refrigeration dryers offer pressure dew points down to 3 °C. Fruit of years of experience and hundreds of thousands of dryers installed worldwide, MTA offers the most advanced technology covering all User needs within the 0,3 - 760 m³/min. air flow range and including numerous patented solutions.

A perfect example of MTA's innovative approach is DryEnergy Impulse Technology, thanks to an innovative regulation system, the dryer is capable to adapt itself to the real needs of the air, controlling the refrigerant flow through the compressor (high/medium air flows) and acting as a thermal storage dryer (low air flow).

MTA is particularly well represented as regards large dryer technology, in line with its elevated reputation and strong association with the world's premier industries. Here again MTA can offer ground-breaking technological solutions, including centrifugal compressor technology and multiple scroll compressor configurations.

High pressure needs are also catered for, with two energy saving ranges offering working pressures up to 50 barg.

Control technology is an MTA strongpoint, with each and every dryer featuring digital controllers. RS485 serial connection is offered, as is GPRS connection to cellular phones or Internet.

Whatever your need, MTA offers a full range of technically superior and energy efficient refrigeration drying solutions.

Adsorption dryers

Adsorption dryers are applied when extremely low dew points are required, standardly down to -40 °C but also down to -70 °C if desired.

MTA offers two solutions;

- Heatless versions, which offer very simple and reliable operation, and are ideal for low to medium air flows.
- Heat regenerated versions, which offer high energy savings due to their reduced purge requirements, and are ideal for higher air flows.

Microprocessor control is standard across the range, larger models can also be connected to Supervisor systems via RS485.

Aftercoolers

Aftercoolers are utilised in an endless series of applications, and are increasingly being applied for the treatment of technical process gases. MTA offers both air and water-cooled aftercoolers, all perfectly suited to the rigors of industry and the ever more sophisticated applications in which they are installed.

The MTA range is vast: choose between numerous material grades, fixed and removable tube bundles, elevated maximum pressure and temperature levels, and many major international pressure vessel approvals. MTA invariably offers the exact solution to all individual User needs.

DryEnergy iTECH

- refrigeration dryers
- air flow 0,3 – 27 m³/min
- patent pending energy saving impulse technology



DryEnergy Hybrid

- refrigeration dryers
- available 60 Hz UL and high pressure version
- patented energy saving GTS technology, reliable operation



DryPower

- refrigeration dryers
- air flow 22 – 190 m³/min
- modular concept, compact dimensions



DryPro

- refrigeration dryers
- air flow 225 – 760 m³/min
- energy saving multi-scroll technology, stand-by capacity



PureTec

- filters HEF, HEF/50, F, B
- air flow 1 – 150 m³/min.
- professional grade filtration, elevated peace of mind



PureSep

- condensate separators
- air flow 3,3 – 640 m³/min
- numerous separation technologies and configurations



CoolPro water-cooled

- aftercoolers
- air flow 7,5 – 640 m³/min
- all materials, well suited to technical gases



CoolPro air-cooled

- aftercoolers
- air flow 0,6 – 20 m³/min
- simple and fail-safe design, robust industrial construction





nt network. MTA offers an extensive range of solutions which, by working together in perfect harmony, ensure that your maintenance costs and improved product quality are thus ensured. MTA offers advanced patented technologies ensuring

Separators

Separators are used either downstream from aftercoolers or in any part of the compressed air network where bulk water needs to be removed. MTA offers 3 differing technologies according to the User needs, with centrifugal, demister or finned pack solutions. A complete range of threaded and flanged models is available. Special materials, higher pressures and temperatures, and major international pressure vessel approvals are offered.

Filters

As well as water, compressed air contains oil and numerous other impurities, all of which must be efficiently removed in order to ensure correct system operation. Given that these impurities are extremely small in size, professional grade filtration is a must in order to ensure the desired level of purification; Failure to do so will lead to increased downtime and maintenance costs, as well as product damage. MTA offers 4 filtration grades, guaranteeing particle removal down to 0,01 micron and oil removal down to 0,003 mg/m³. Extremely robust and specially treated housings guarantee years of trouble free operation in even the most ardent installations. The filter elements feature reinforced filter media to ensure that, even in the harsh conditions they will typically operate in, continuous and optimum filtration is assured. Advanced filter media and attentive product testing represent the guarantee that the User's application will benefit from professional grade filtration levels.

Condensate Drains

MTA offers all drain types, including mechanical zero-loss, electronic zero-loss, timed and manual drains. All models offer guaranteed operation in even the harshest conditions.

Oil-Water Separators

The condensate removed from compressed air networks contains significant amounts of oil and other impurities, which cannot be disposed into the ambient. MTA's oil-water separators offer a fail-safe and economical way to separate these impurities from the condensate, and are particularly suited to installations operating according to ISO14001 environmental guidelines.

High pressure networks

MTA offers the ideal solution to all User needs, with a complete range of 40 and 50 barg products, including refrigeration dryers, adsorption dryers, aftercoolers, separators, filters, condensate drains and air receivers. 250 barg products are available on request.

Water cooling systems

MTA, world leader in Industrial Process Cooling, offers a complete range of water/glycol coolers and chillers for air compressor cooling, aftercooler cooling or any industrial process requiring cold or chilled water.

DryPlus

- refrigeration dryers
- air flow from 290 m³/min
- environmental, advanced, easy to use



HPDry

- refrigeration dryers
- air flow 0,3 – 122 m³/min
- energy saving 50 barg dryer, stainless steel air tubing



DryXtreme Heatless

- NC adsorption dryers
- air flow 0,12 – 25 m³/min
- microprocessor controlled, dew points down to -70 °C



DryXtreme Heat Regenerated

- adsorption dryers
- NH air flow 10 – 167 m³/min
- NST air flow 1,93 – 148 m³/min



LiquiPro

- condensate drains
- electronic zero-loss, mechanical zero-loss and timed drains for all User needs



LiquiPure

- oil-water separators
- the most economical and reliable way to respect the environment, suited to ISO 14001 applications



Water Chillers

- chilled water solutions
- cooling capacity 0,5 – 1500 kW
- the world's most popular industrial chilling solutions



Water Coolers

- water cooling solutions
- cooling capacity 10 – 372 kW
- cold water for industrial applications, compact design





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 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



GOST Certification



Cooling, conditioning, purifying.