

Tailor made solutions

pressure vessels & ancillary equipment
for the treatment of liquids & gases



pure energy



**Purifying your compressed air,
increasing your efficiency.**



Cooling, conditioning, purifying.

TAILOR MADE SOLUTIONS



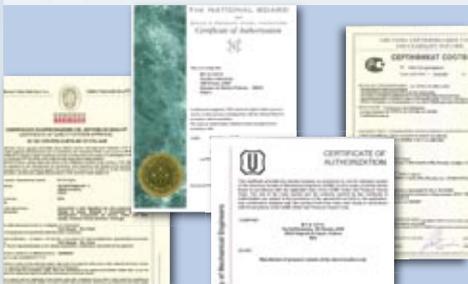
INDUSTRY IS BECOMING EVER MORE COMPLEX AND SPECIALISED; CONSEQUENTLY A "STANDARD" PRODUCT IS OFTEN NO LONGER SUFFICIENT. WHAT IS REQUIRED IS A PERSONALISED SOLUTION.

MTA OFFERS ITS CUSTOMERS A LONG-STANDING EXPERIENCE IN CATERING FOR APPLICATIONS FOCUSED SYSTEM SOLUTIONS IN THE TREATMENT OF LIQUIDS AND GASES, BOOSTED BY A STRONG INVESTMENT IN THE DESIGN AND MANUFACTURING EXPERTISE REQUIRED TO ENSURE THAT WHATEVER THE CUSTOMER NEED, MTA PROVIDES A PERSONALISED SOLUTION AIMED AT OVERALL PROCESS OPTIMIZATION.



All major approvals

MTA boasts close ties to international approval bodies and extensive experience as to their application. MTA offers numerous approvals, including: PED 97/23, ASME VIII Div. 1 (U & UM), TEMA, EN 13445-3, AD-2000 Merkblatt, VSR ISPEL (Italy), AS1210 (Australia), SELO (China), GOST R (Russia). Further approvals are available on request.



MTA's excellence, approved and certified

The right materials selection

MTA knows which materials to use for the application. Materials used include Carbon steel (P275NH EN 10028-3, P355NH EN 10028-3, ASME SA516 Gr.60-70, SA105, SA266 Gr.2, SA350 Gr.LF2, SA106 Gr.B, SA333 Gr.6), stainless steel (304, 304L, 316, 316L, AVESTA 904L), copper (DHP R250), cupronickel (9010 UNS C70600). Other materials are offered on request.



The right material for the application

Advanced manufacturing

MTA boasts 4 production facilities, 2 of which are dedicated to the manufacture of pressure vessels, with the ability to produce equipment up to 10.000kg. Surface treatment and painting processes, as well as a multitude of advanced certified welding procedures, are applied as applicable. MTA manufactures products for up to 300barg, or higher on request.



Precise manufacturing technologies

PERSONALISED SOLUTIONS TO PERSONALISED NEEDS

Expertise born from experience – MTA offers its customers over 25 years experience in providing optimised solutions to their specific needs, an experience obtained in a multitude of industrial applications. MTA's satisfied customers include some of the most prestigious names in industry, and can be found on all continents.

A capability based upon investment and dedication – MTA has invested heavily in R&D and advanced laboratory facilities, with a separate team specifically focused to individual customized designs. Advanced CAD design & development programs and in-house developed performance simulation softwares allow MTA to provide sophisticated system solutions.

Moreover, MTA's ability to cater for every need is founded on the amplitude of its expertise, including thermodynamics, fluidics, mechanics, material compatibility, electrics, electronics and refrigeration. MTA's strong refrigeration experience allows it to combine vessel technology with cooling expertise, including a multitude of industrial liquid chillers, offering notable user benefits.

MTA's design solutions are applicable to air, gas, water, condensate and vapour, and cover liquid/gas, gas/gas, refrigerant/gas and refrigerant/liquid exchange media, as well as adsorption, separation and filtration.

Personalised customer support – MTA strongly supports co-design strategies with its customers, including the application of customer specific standards or requests. Detailed personalised documentation is provided for all projects. MTA vaults extensive knowledge as to the norms to be applied on a global scale, and supports its customers with expert personnel in over 80 countries worldwide.

A multitude of product offerings – The following are just some of the personalised product solutions MTA offers, including gas treatment applications: fixed or removable bundle aftercoolers, filters, separators (in various configurations), refrigeration dryers, adsorption dryers, dryer packages (typically coolers + chillers), pressure vessels, chillers, heat pumps, water coolers.

Pneumatically controlled air-cooled aftercooler and adsorption dryer, including 4 grades of filtration, in a 25 bar(g) packaged solution for the cleaning of natural gas piping.



Dryer operating with chilled water for 4 bar(g) operation in the glass industry, featuring cooling and air-to-air exchangers with stainless steel tubes and a double demister separator.

Water-cooled aftercooler for the treatment of nitrogen and operating at a pressure of 46,5 bar(g), featuring stainless steel tubing and manufactured according to ASME VIII div. 1 (U-stamp).



Stainless steel pulsation dampers for methane gas, operating at 42 bar(g) with temperatures ranging from -150°C to $+170^{\circ}\text{C}$, and featuring U-stamp and AS1210 (Australia) approvals.

Assured quality

MTA is ISO9001:2000 certified, and applies extensive quality control procedures within its manufacturing processes. Seismic calculations are offered, as are non destructive visual, radiographic, penetrant and magnetic tests carried out by certified personnel in conformance to EN and ASNT norms. Destructive tests, in either SINAIL or other accredited labs, can be provided.



A dedication to perfection

Applications focused solutions

MTA's applications knowledge includes aftercooling, intercooling, chemical, pneumatic transport, turbine cooling, filter & adsorption dryer pre-cooling, low pressure drop dryers, plastics, shipbuilding, railways, truck cooling, glass industry, high pressure applications, aggressive media treatment, water separation, air & gas drying & filtration, heat recovery.



Extensive specific applications knowledge

Technical gas applications

The treatment of technical gases requires expert applications knowledge. MTA boasts strong specific gas expertise, and lists the following amongst the gases it specialises in: Oxygen (O_2), Hydrogen (H), Nitrogen (N), Methane (CH_4), CO_2 , Helium (He), Acetylene (C_2H_2), Ethylene (C_2H_4), Argon (Ar), Biogas, CO, Ethane, Ammoniac, Propane, other gases.



Technical gas treatment, an MTA speciality

ENERGY FOR THE FUTURE

MTA was born over 25 years ago with a clear objective: improving mankind's relationship with two distinct natural resources, air and water, and optimising their transformation into energy sources. And as each application differs, so MTA offers a personalised energy solution perfectly aligned to each individual need. At MTA energy is our business, and improving your relationship with your energy is our aim.

STRATEGIC DIVERSIFICATION

MTA covers three distinct market segments. As well as Compressed Air & Gas Treatment solutions, MTA offers products for Industrial Process Cooling, as well as Air Conditioning solutions. MTA is renowned for the innovation it brings into each of these three sectors; in fact our strategic diversification offers our Customers unique benefits unseen in their individual fields.

FAR REACHING BUT ALWAYS CLOSE BY

MTA is present in over 80 countries worldwide. 8 MTA Sales Companies cover 4 continents. Expert knowledge and an accurate attention to application consultancy and service support guarantees that our Customers can look forward to long term peace of mind and an optimized energy solution. We always remain close to our Customers, so wherever you may be, we are close by.

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MTA worldwide

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Cooling, conditioning, purifying.



MTA is ISO9001:2000 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.