











Climate to perform















THE GROUP

TFT Dry Air Solutions is the branch specialized in the field of Industrial Dehumidification of the Group TECNOFRIGO Tuscany, a company that for over 40 years dealing with Air Quality Control for industrial and civil buildings in the world. Founded as repair and technical assistance company for industrial climate control, TECNOFRIGO Tuscany has acquired over the years knowhow as to begin to design and

produce machines under its own brand. TFT Dry Air Solutions has inherited the reliability and versatility gained from TECNOFRIGO, translating them into integrated technology solutions for the Industrial Dehumidification that is applied to a wide range of applications: from the pharmaceutical industry to the food industry, from chemical industry to the transports, from energy to defense.

FINDING 🏵 SOLUTIONS

Great experience, continuous technological research, design flexibility and production. TFT Dry Air Solutions is a trusted partner for companies and stakeholders who make of quality and excellence in all phases of the production cycle, a fundamental value, the raison d'etre of their business.

A CUSTOM-ORIENTED COMPANY

The humidity control is a critical success factor in modern industry and in the public and civil building industry, because it generates long-term positive effects on productivity and management costs. TFT Dry Air Solutions is always focused on results and customer oriented. Our goal is to provide specialized solutions, efficient and customized for each type of use and industry with an excellent quality / price ratio and attention to energy saving.

QUALITY AIR ON DEMAND





Thanks to a team of engineers and skilled technicians TFT Dry Air Solutions follows the realization of the machinery at 360 °, from design to construction, from start-up to the after-sales service.

Our R & D department designs each model with CAD 2D-3D systems studying for both standard products as well as customized configurations for more efficient technology in accordance with the conditions of employment and with the needs of the customer.

The process of construction and assembly of the machines is done in our factory through different work centers CNC assisted by CAM systems. Testing and quality control activities take place according to

certificates criteria respecting high quality standards and internationally recognized.

The primary testing of equipment is performed directly in our facility, with the least expenditure of resources and time for the customer. This is possible thanks to a start-up system extremely easy and to the PLC management software developed by TFT Dry Air Solutions that allows you to verify the functionality of the machinery in the factory.

Our technicians are available and prepared to perform the equipments on site, worldwide.

Great experience, continuous technological research, flexibility in the design and manufacture make of TFT Dry Air Solutions a reliable and competent partner.



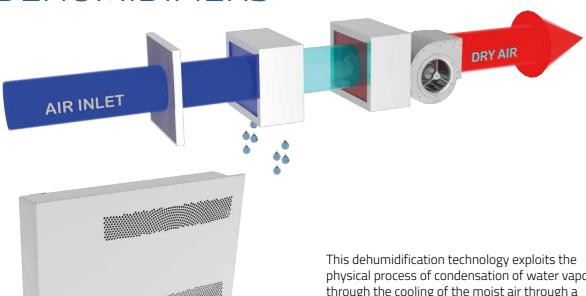
3

SUSTAINABLE TECHNOLOGY

The control of air humidity in industrial and civil activity is costly both in economic terms and in terms of environmental impact. TFT Dry Air Solutions has always been committed to finding solutions to dehumidifying aimed at energy efficiency, through the study of systems of heat recovery, the use of high performance materials and integration with alternative fuel systems: energy from steam, natural gas, photovoltaic panels.



CONDENSING **DEHUMIDIFIERS**







physical process of condensation of water vapor through the cooling of the moist air through a heat exchanger (finned coils) producing water condensate.

This process is more efficient at medium to high temperatures and under conditions of high relative humidity (greater than 40%). Condensing dehumidifiers TFT ensure high performance for industrial, commercial and private uses: are generally used in environments where it is necessary to control the level of humidity or prevent condensation.

TFT Dry Air Solutions has developed the following product lines:

- HERCULES: suitable for industrial buildings too large and with very high humidity conditions.
- VEGA: suitable for indoor swimming pools, designed to ensure maximum climatic and hygienic comfort.
- **GEMINI**: suitable for homes and offices, offers a great flexibility of installation to suit the needs of space in urban environments of everyday use.











ADSORPTION DEHUMIDIFIERS



The adsorption dehumidifiers using a technology based on the use of materials naturally drying (ie endowed with high physical-chemical affinity towards water vapor), as the silica gel. This operation technology makes them suitable for use in environments where they are required humidity values even at low temperatures and constant values dew point very low (up to -60°). With this technique it is possible to dehumidify dehumidification any type of environment in any condition.

TFT Dry Air Solutions has developed the line AD (Air Dry) to respond to the need for dehumidification to extreme temperatures (below 0 ° C) and very low humidity values. The dehumidifiers in this line are particularly suitable for continuous operation stationary and mobile. To limit the energy consumption resulting TFT proposes integrative solutions as the Heat Recovery Systems capable of recovering up to 70% of the heat generated by the machine to re-enter the cycle of operation, generating a considerable saving.





5



DEHUMIDIFY TO SAVE MONEY, TIME AND RESOURCES.

The presence of moisture in the air has a strong influence on the materials and can cause mold, fungus, corrosion, and hygroscopic growth of bacteria. In production processes in any industry these problems have serious repercussions in the short to medium term on the quality of the final product, the costs of management and maintenance, and planning.

The TFT solutions for humidity control enhance and maintain high product performance in all conditions of use, increasing the efficiency of the processes and thus save money in the long run. Our machinery, specialized and advanced technology, are designed to fit every client and their specific needs.



HUMIDITY FREE ZONE.
THE PERFECT CLIMATE TO PERFORM.

CORROSION

kampie, bridges, power plants,

CONDENSATION



FUNGUS AND MOLD

ation system fixed or mobile to maintain the required values.

BAD SMELLS

ndors by maintaining the rate of relative humidity below 50% (RH) with f filtration systems air. Thanks to new and efficient energy recovery syst o possible to guarantee an appropriate better comfort in the environme siderable saving in money. These applications are very well suited in en ss such as banks, supermarkets, hotels, large office buildings.

HUMIDITY CONTROLLED

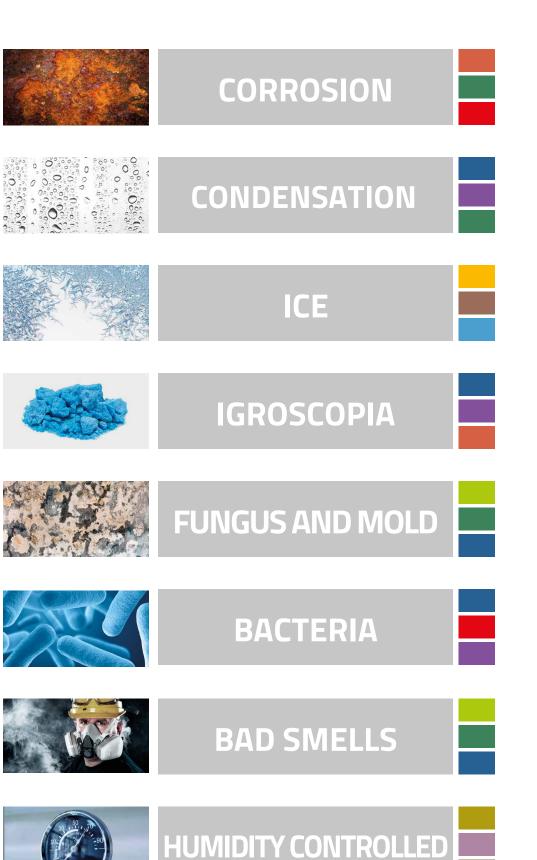
IGROSCOPIA

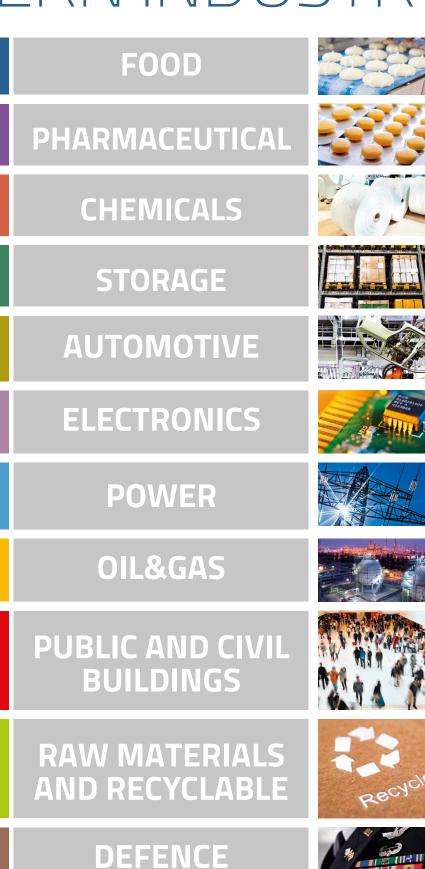
ined systems in the refrigeration

ACTERIA

PROBLEM TYPE

GLOBAL SOLUTIONS FOR MODERN INDUSTRY





FOOD

esses of freezing, packaging and storage in cold storage at low temperature

ioling tunnel, handling raw food powder, sugar processing (milling, grain, powdered sugar).

ying and curing cells of meats and cheeses, drying with dry air for washed ready to use salads, drying w

vegetables, low-temperature drying of herbs.

Province industrial grain good automated charge. Province conveyors charge siles

PHARMACEUTICAL

enitals surgical and outpationt locals and ana

CHEMICALS

AUTOMOTIVE

ELECTRONICS

OIL & GAS

welding or cutting of metal; factor the processing of crude oil, gaso

PUBLIC BUILDINGS AND CIVII

aces, drying of new constructions

DEFENCE

AW MATERIAL & RECICLABLES

FIELDS OF APPLICATION





CUSTOM-MADE SOLUTIONS



TFT Dry Air Solutions as the name suggests, is a company specialized in the research and implementation of customized solutions for dehumidification in every industry and field of use. With a team of highly skilled engineers and a versatile production facility, we are able to customize the

machinery according to the specific needs and demands of every client by the tannery that needs a good dryer to keep the product quality to the power plant that needs a good dehumidification for maintaining the turbines during maintenance.



PLC. PROGRAMMING LOGIC CONTROL

EASY MAINTENANCE

TFT AROUND THE WORLD







