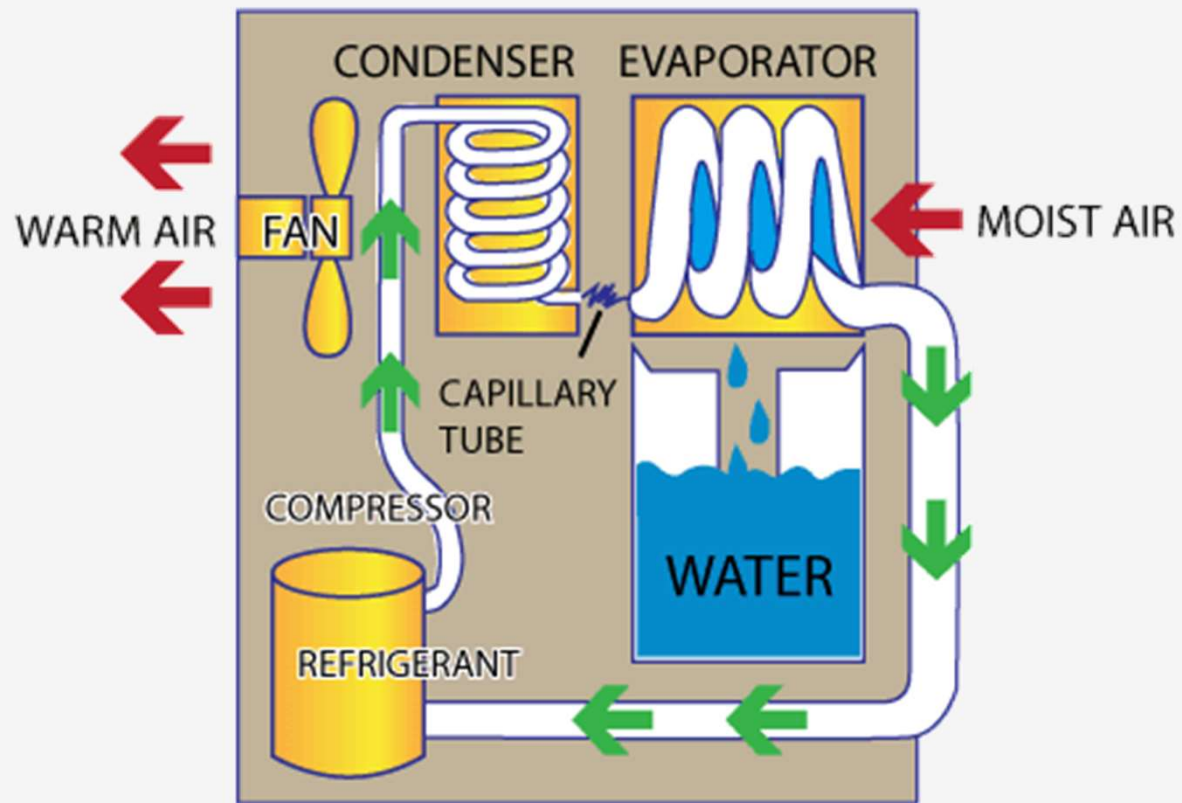




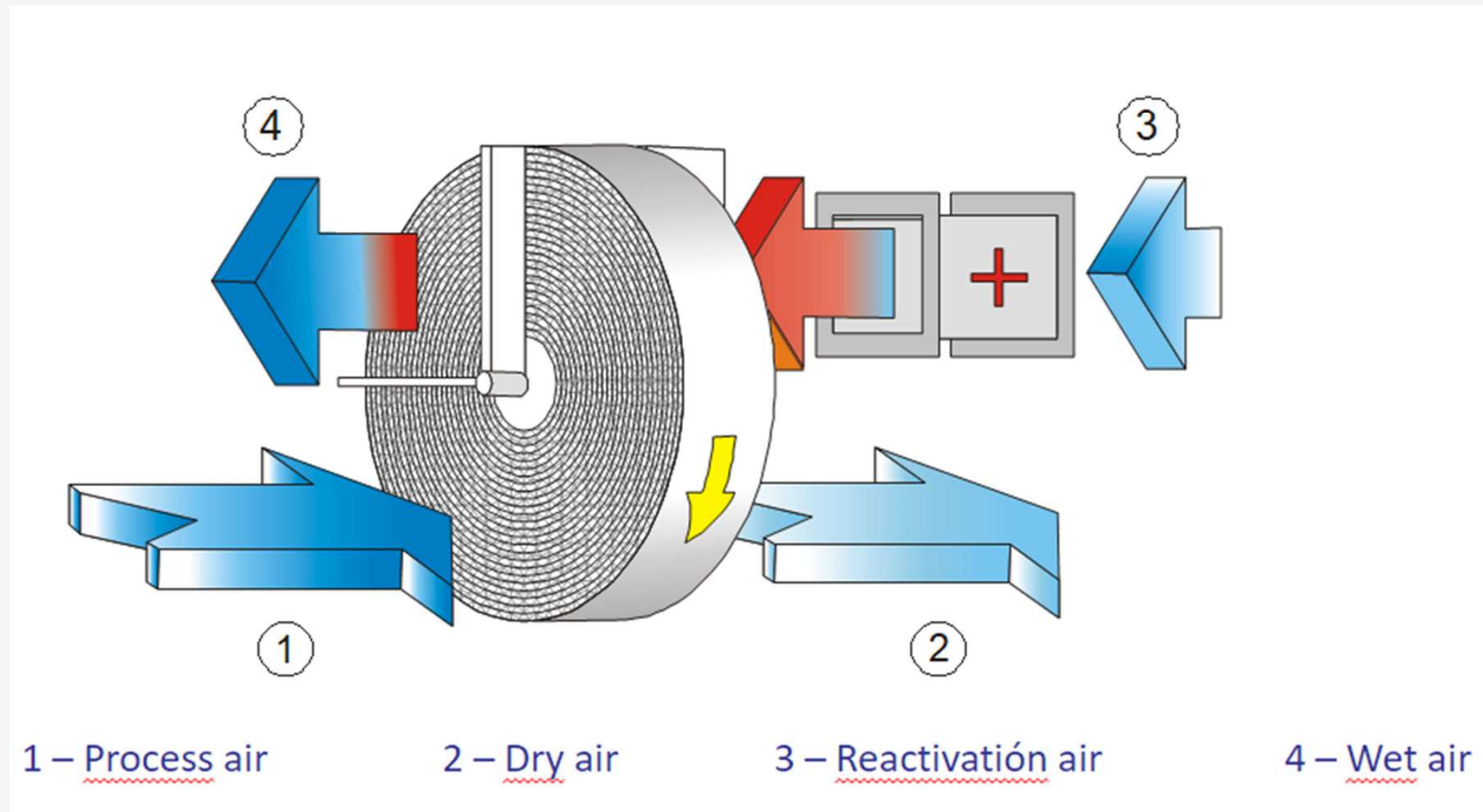
AIR DEHUMIDIFIERS DH



Principles: Mecanical Dehumidifier



Principles: Sorption Dehumidifier

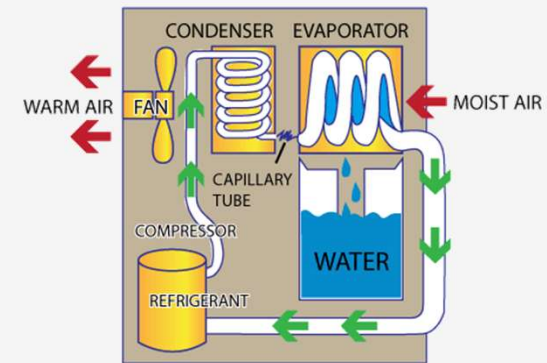




Principles: Sorption vs Mechanical

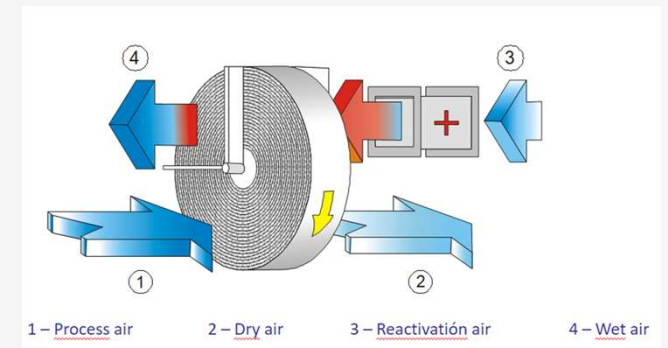
Mechanical:

- Condensation on the evaporative coil of a cooling system.
- Limited to comfort applications



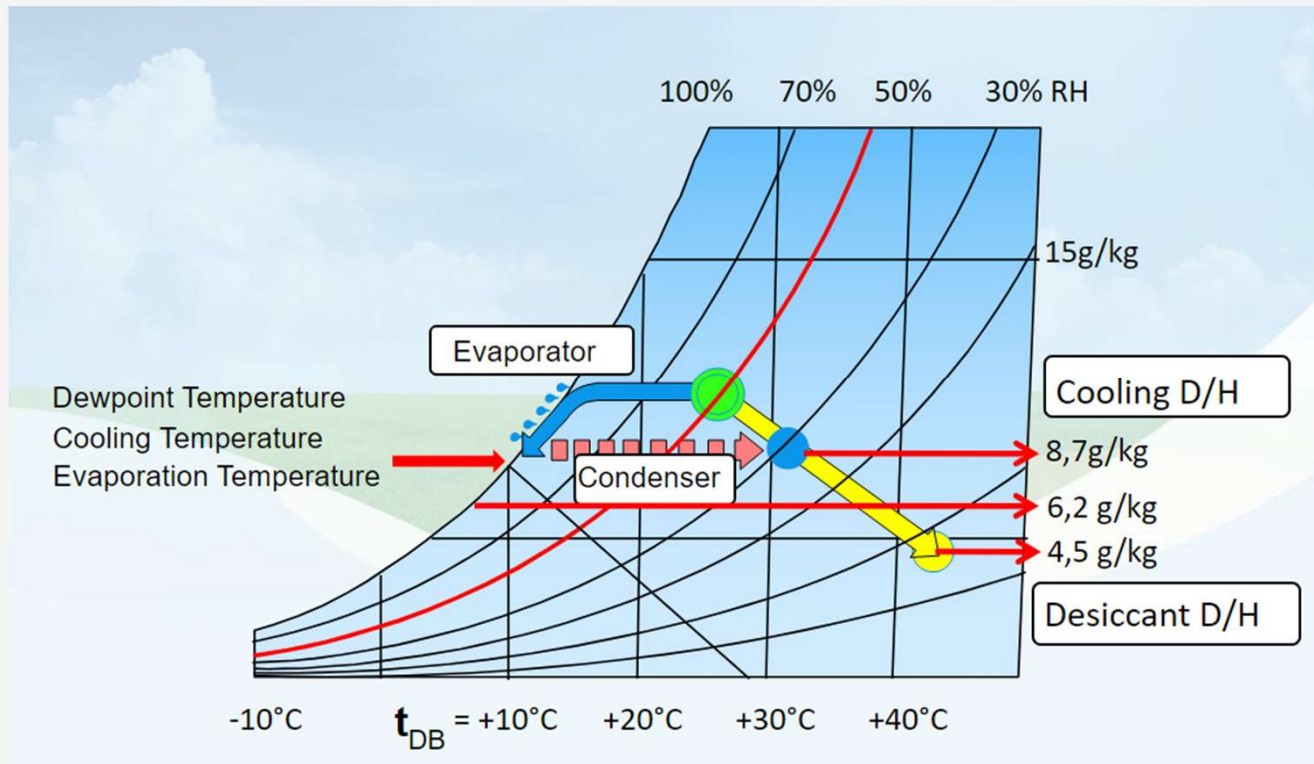
Sorption:

- Using material properties to adsorb moisture: Silicagel
- More energy but mostly heat, very available on humid season.
- Drying up to very low dew points.





Principles: Sorption vs Mechanical



Sorption: to reach low dew points





AIR DEHUMIDIFIERS DH

CONDENSING DEHUMIDIFIERS FISAIR DFC

Dehumidification and ventilation for industrial processes and swimming pools



DCS



DDS



DOS



DVS



IT/ST



SPR

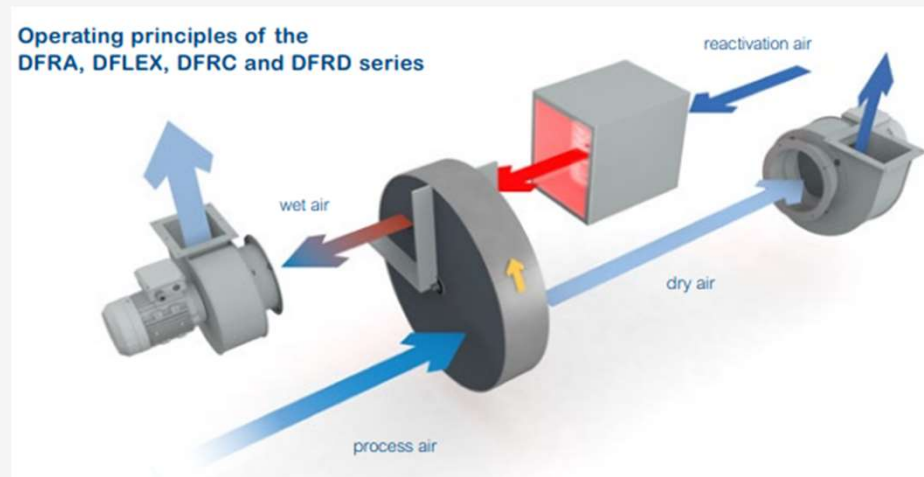
[Video](#)



AIR DEHUMIDIFIERS DH

DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR

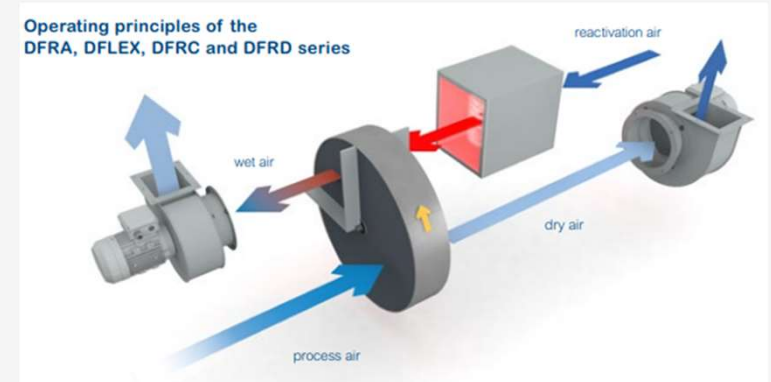
The operating principles of FISAIR desiccant rotor air dehumidifiers are based on an exclusive high performance water vapour retaining silica gel desiccant rotor.



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFRA

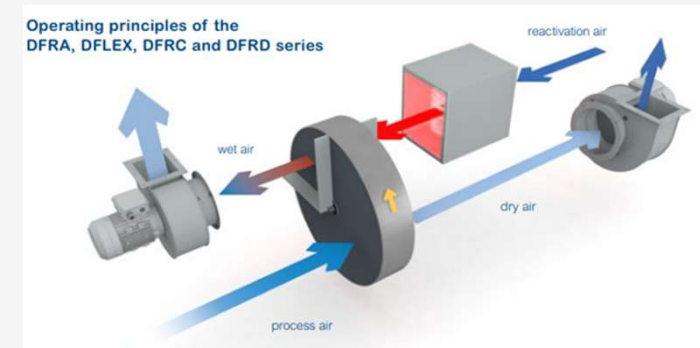
Highly reliable units with drying capacities from 3 to 42 kg/h and dry air flows from 450 to 6,000 m³/h.



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFRD

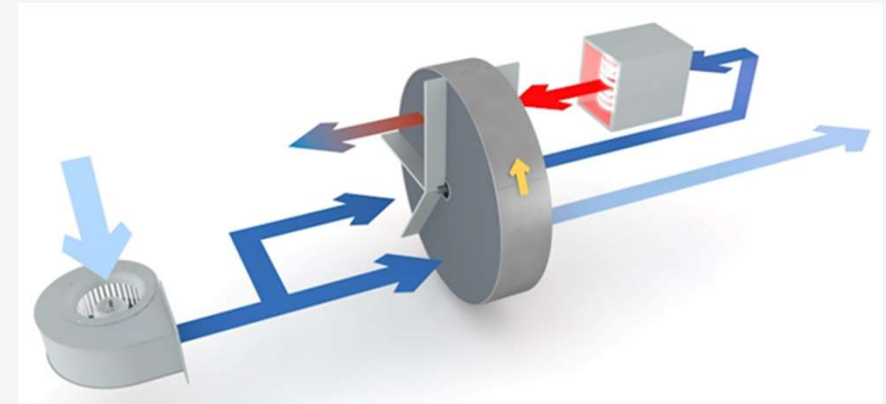
- Drying capacities from 3 to 4.2 kg/h and dry air flow rates from 300 to 700 m³/h.
- Double fan for deep drying in closed circuit.
- Compact stainless steel series, ready for operation.
- Smart heaters.



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFRB

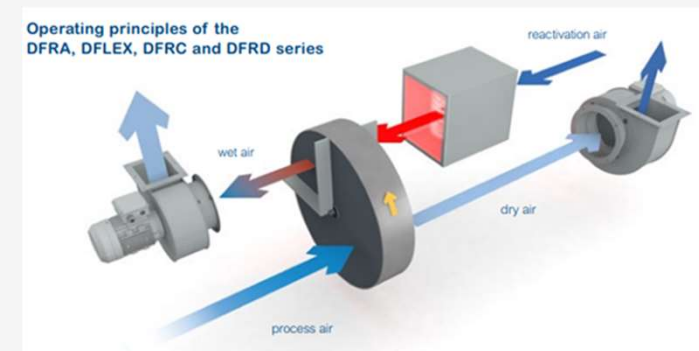
- Drying capacities from 0.5 to 4.2 kg/h and dry air flow rates from 140 to 700 m³/h.
- Compact stainless steel series, ready for operation.
- Smart heaters.
- Desiccant rotor with heat recovery sector.



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFRC

Mobile and heavy duty drying. Series aimed at temporary drying with a robust chassis and finish to protect against corrosion. Ideal for surface treatment and rental applications.

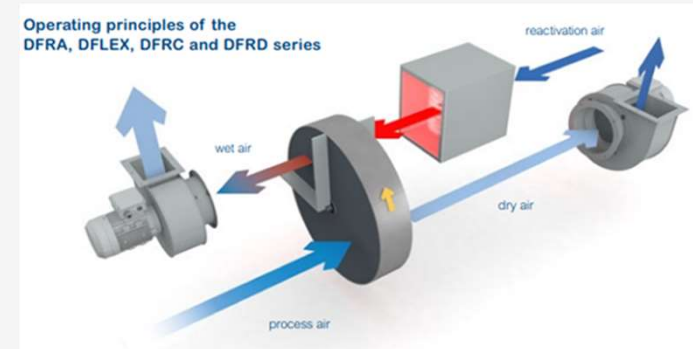
- Drying capacities from 9 to 106 kg/h and dry air flow rates from 1,200 to 15,000 m³/h.
- Robust construction for harsh environments and weathering.
- Simple and reliable operation.
- High static pressures available.



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFLEX

Flexible modular range. Adaptable to specific solutions. Highly reliable equipment with drying capacities from 51 to 152 kg/h and dry air flow rates from 7.500 to 24.000 m³/h.

[Fisair DFLEX](#)



AIR DEHUMIDIFIERS DH



DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFLOW

Excellent low dew point performance with low energy consumption.

Flexible modular range.

DFLOW dehumidifiers are the best choice for their modulating capacity, low maintenance, uniform operation and low cost. Applications include the manufacture of lithium batteries that require humidity conditions with dew points from -40°C to -60°C and in clean rooms or laboratories where air conditioning systems must be exhaustively controlled.

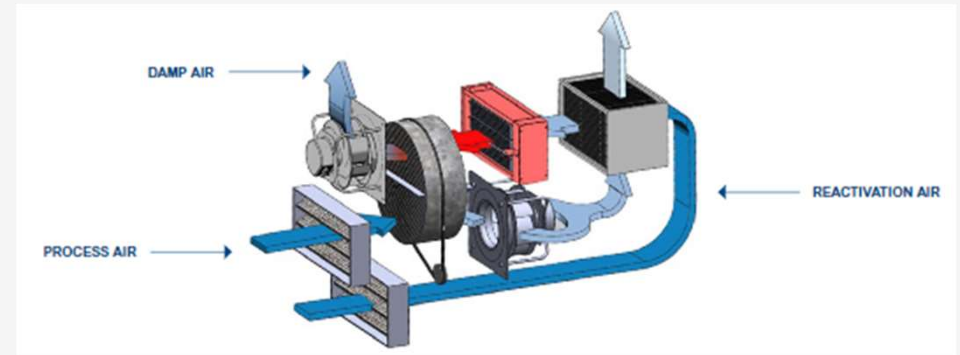
Fisair DFLOW





AIR DEHUMIDIFIERS DH

DESICCANT ROTOR AIR DEHUMIDIFIERS FISAIR DFR



DFRIGO

Units designed to reduce humidity in refrigerated areas and processes. Leader in its field in terms of its thermal insulation, robust design and energy efficiency.



Fisair Selection Tool

Working conditions for dehumidifier

Installation

Humidity loads calculations **No** Include/Edit/Remove

Altitude: m

Process air

Highest Humidity Conditions

Airflow: Nm³/h

Dry bulb temperature: °C

Relative humidity: %

Dry air requirements (DA)

Highest Humidity Conditions

Dry bulb temperature: °C

Absolute humidity: g/kg

Reactivation air

Highest Humidity Conditions

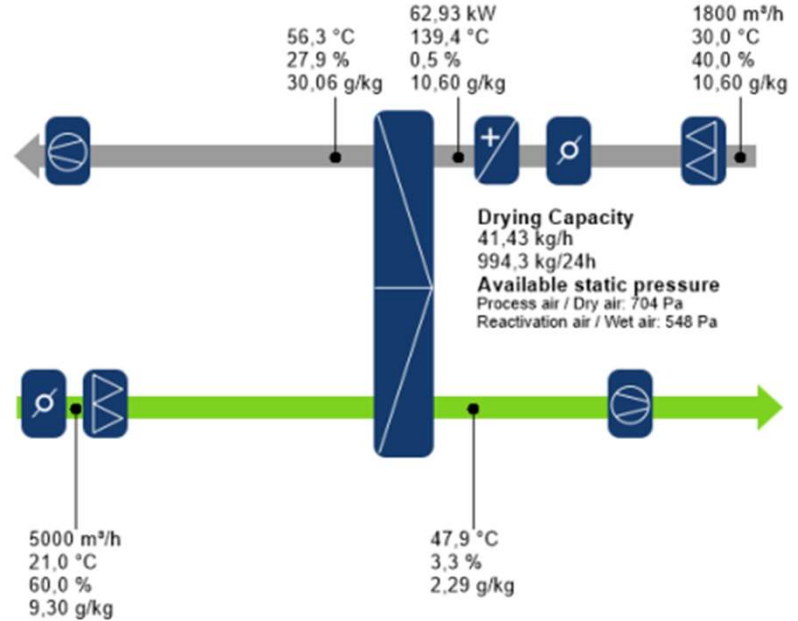
Dry bulb temperature: °C

Relative humidity: %

< Back > Next

DFRA-0900E G0G0 0000 0000 SFSF 000 000 405BE00000

Edit Operation sketch (Dehumidification) ▾





public buildings



Hospitals

Commercial buildings

Swimming pools, spas

Museums, Libraries and Archives

Repair of water damage

Ice rinks

Chillers

Drying of building works

Preservation of bridges and other metal structures



process industry



Pharmaceutical industry

Bulk product transport and storage

Cleanrooms

Lithium Ion battery production

Plastic forming industry

Paint booths

Filling, packaging and labelling

Laminated security glass

Tyre manufacturing

Anti-corrosion paint application



food industry



Confectionery industry

Baking industry

Slaughterhouses and meat processing plants

Cold storage

Drying in spray towers

Fruit, vegetables and flower cold storage

Fruit and vegetable drying

Yeast manufacturing

Brewing industry

Seed conservation

Cheese production and maturation

Wineries and distilleries



energy



Power plant preservation

Preservation of aerogenerators

Pre-cooling of the intake air to engines

Thermal plants forced cooling and advanced preservation



hygroscopic material industries



Timber processing and furniture manufacturing

Paper and cardboard industry

Humidification in the textile industry



other applications



Medical cannabis production

Arms preservation

Ammunition preservation

Preservation of pyrotechnics

Data centers

Record storage & manufacturing

Water treatment plants