

acis







www.aerisgroup.it

Aeris

INDUSTRIAL DIVISION

www.aerisepc.it

Aeris - Mazziniici

TEXTILE DIVISION

www.aerisepc.it

Aeris - Alena NW

NONWOVEN DIVISION

www.aerisepc.it

Edenya

EVAPORATIVE COOLING DIVISION

www.edenya.it



Our mission

Innovation and continuous business **growth**, together with **motivation**, bring a breath of fresh air: these are the shared values of all the companies in our group!

Our team of experts studies and designes the systems, meeting all the needs and goals of our customers.

PROGRESS - INNOVATION - VISION - SUCCESS - IDEAS - INSPIRATION - CREATIVITY - GROWTH

Textile Division

Discover our latest generation solutions for air treatment, filtration and much more.

More than 2500 plants in the textile field worldwide.

2500

INSTALLATIONS

60

COUNTRIES

30%

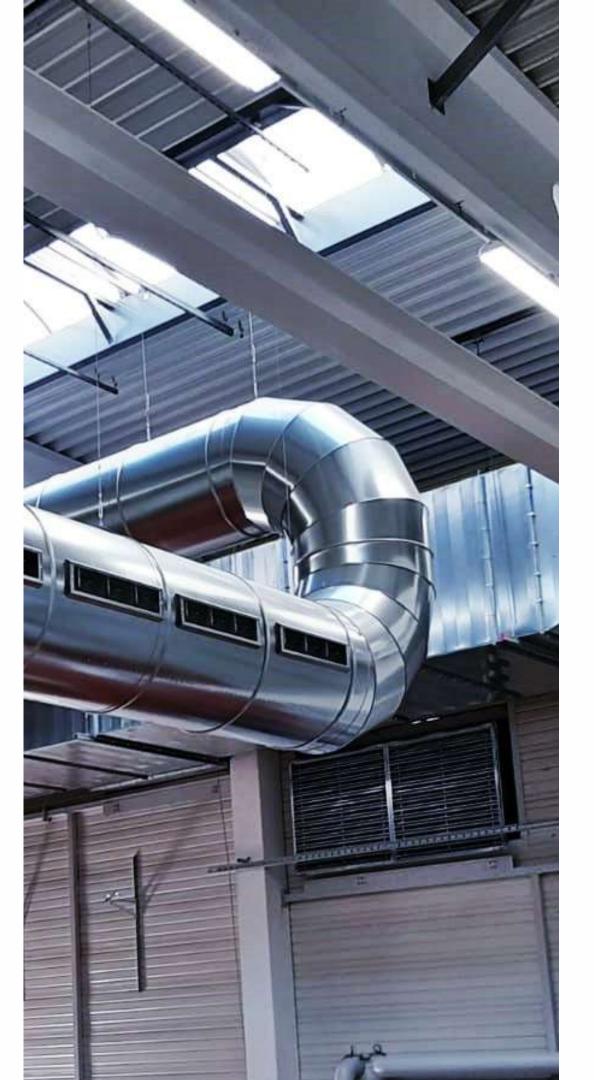
GROWTH OF ANNUAL TURNOVER

100%

COMPONENTS OF EUROPEAN ORIGIN

Your partner for

- Keeping T and rH constant
- Granting clean and healty air
- Saving energy
- Saving water
- Reducing maintenance costs
- Tailor made solutions



Aeris experience in

Air Treatment & Humidification
Dust & Fibre Filtration
Heat Recovery
Cooling
Energy Saving
Audits & Efficiency Planning

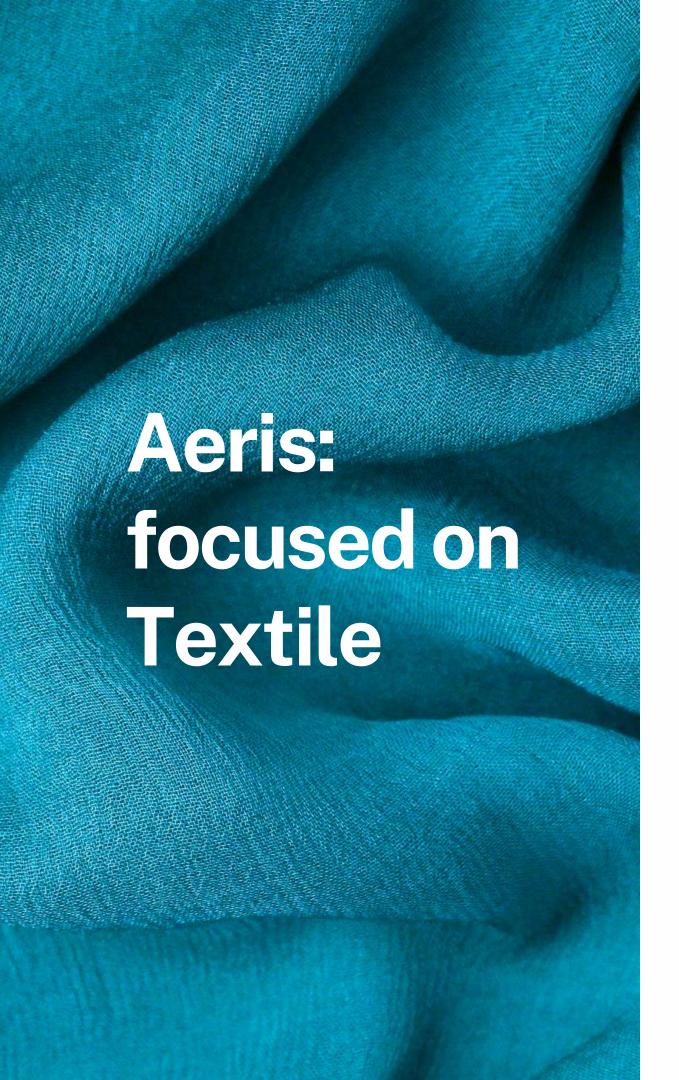
Our goals and their benefits

Dust filtration, fibres separation, keep constant temperature and humidity, guarantee the correct balancing of air flows, heat recovery from ovens or other production machines.

Benefits

Highly efficient filtration,
humidification and air
treatment systems are
essential in every textile factory
to ensure the quality of the
product, optimal performance of
production machines, and
healthy environments. Saving
energy, reducing water
consumption for humidification
and heat recovery are our goals
to increase the competitiveness
of our customers.





SPINNING

WEAVING

FINISHING

CONFECTION

HOSIERY

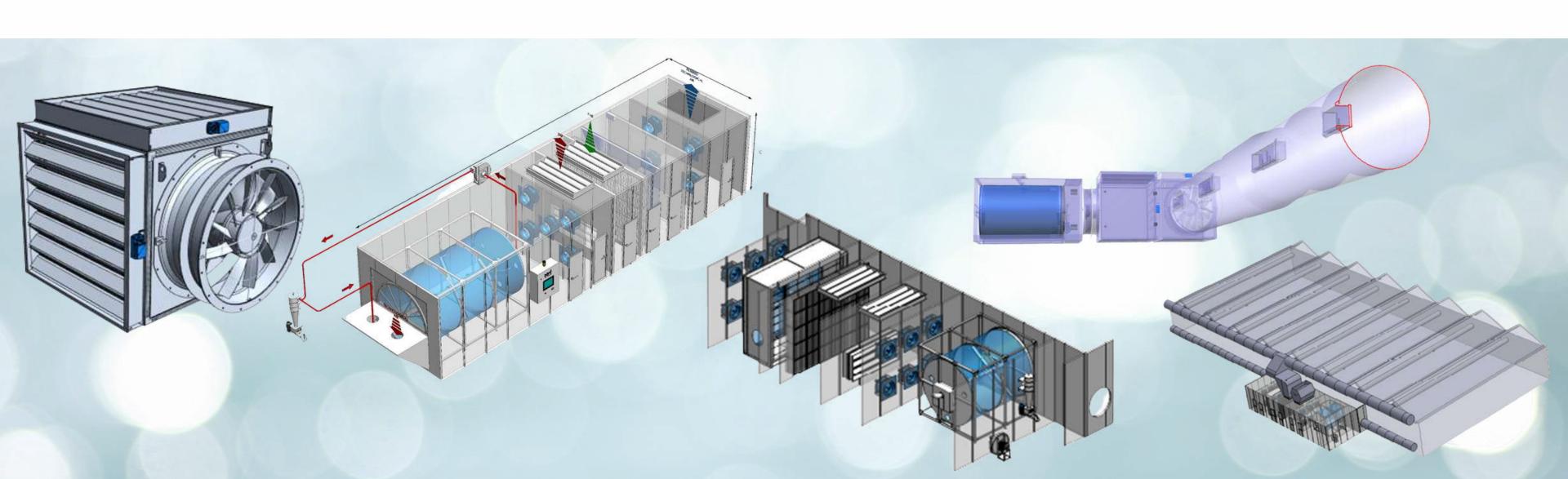
WOOL MILLS

SYNTHETIC & MAN MADE FIBRE

RECYCLING

Humidification and filtration

- Plant design in conformity with the UNI EN 16798-3: 2018 ex UNI EN 13779 Directive
- Erp2018 system conformity Eco Friendly Design
- Conformity with **VDI 6022** for the humidification system IHS®



Spinning

- Dust and Fibre suction and separation systems
- Humidification systems





Spinning applications

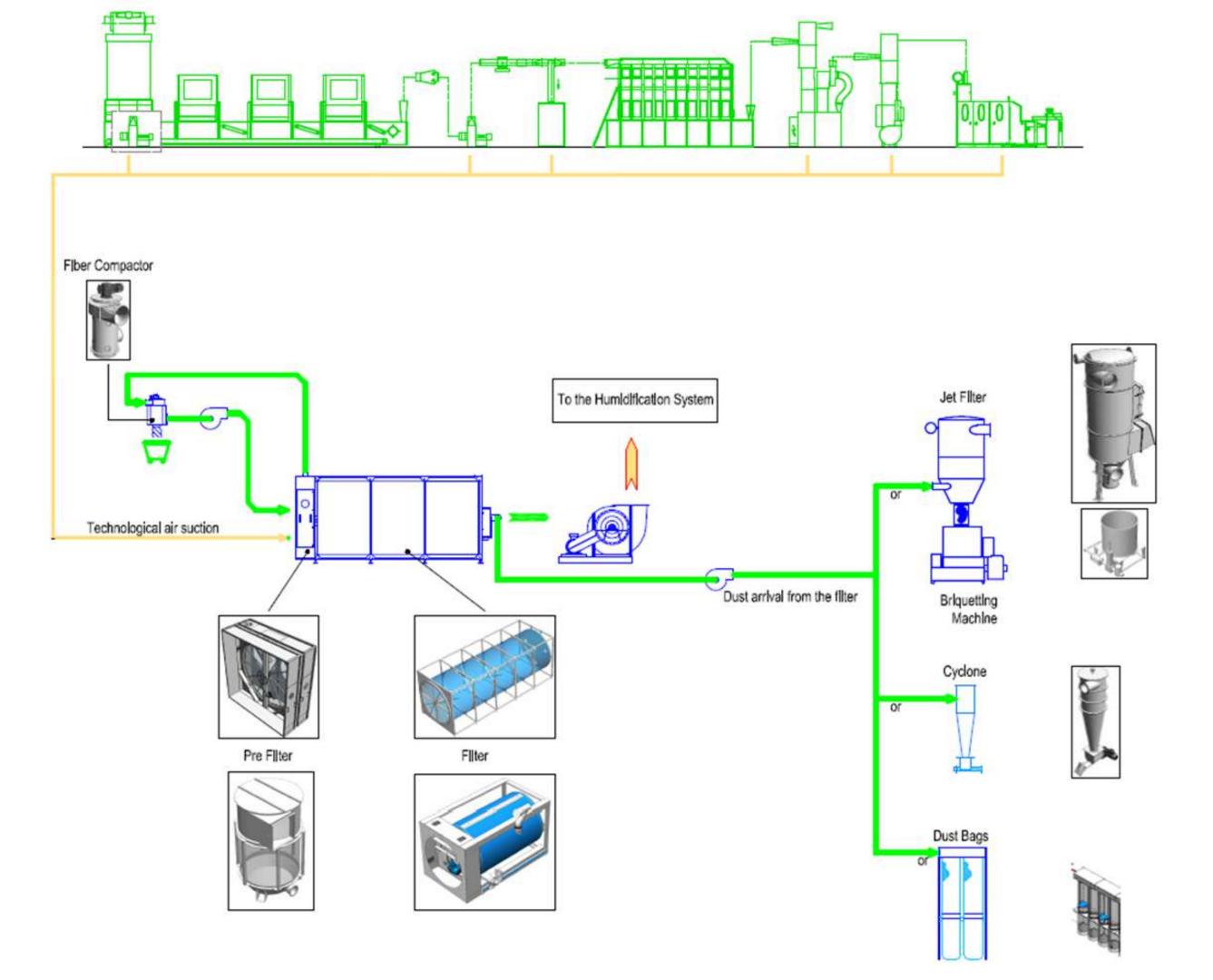




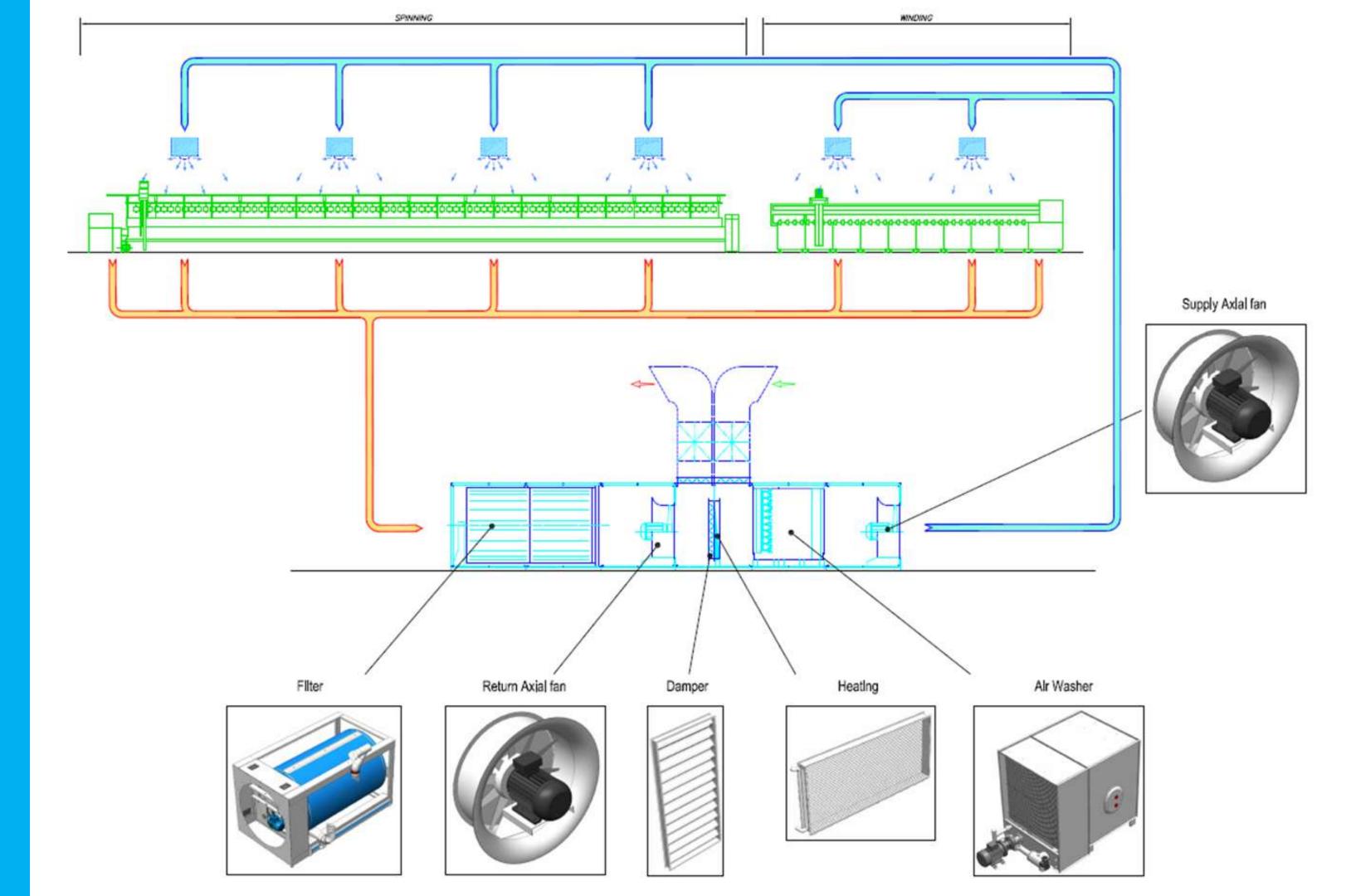




Spinning flow sheet



Spinning flow sheet



Weaving

• Humidification systems

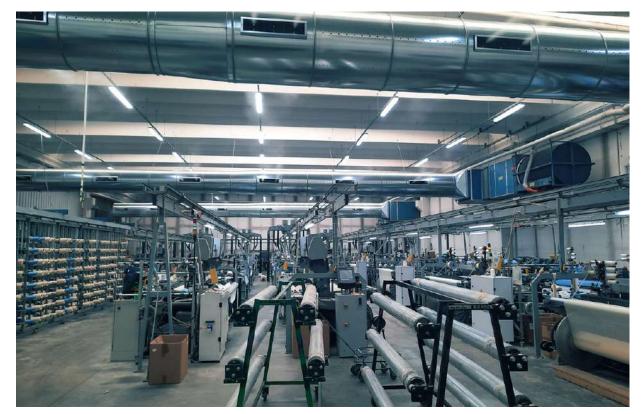




Weaving applications

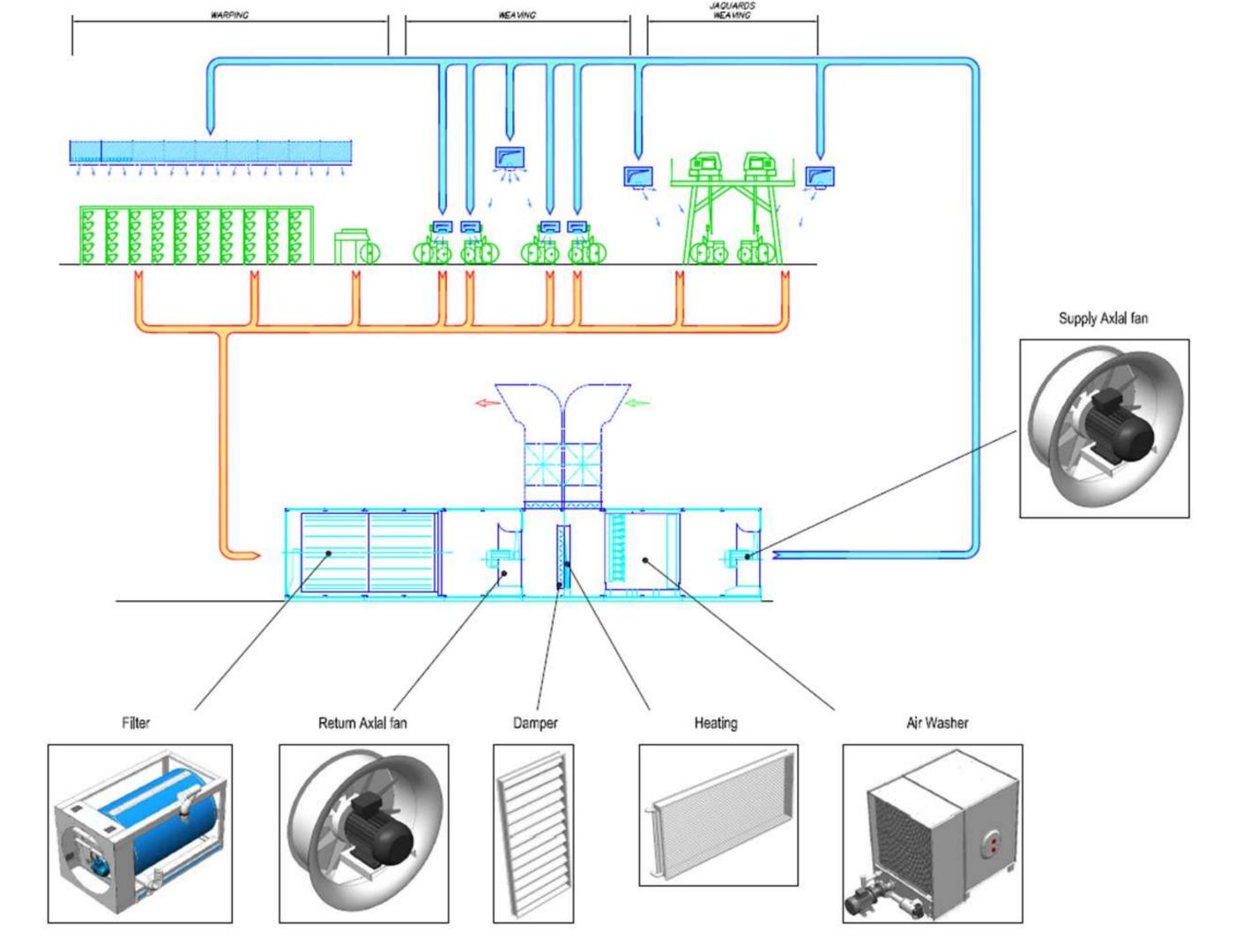








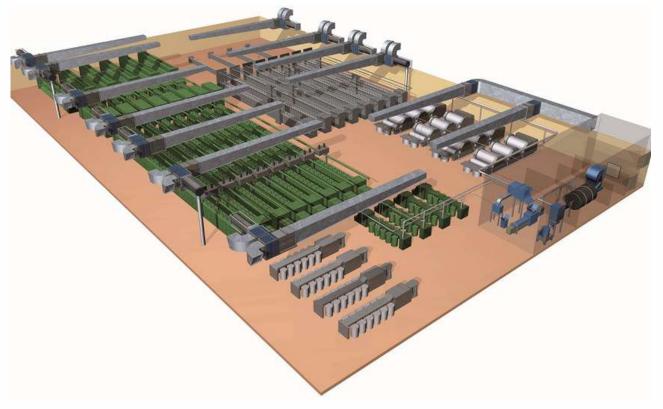
Weaving flow sheet





Wool factories

• Humidification systems



Wool factories applications



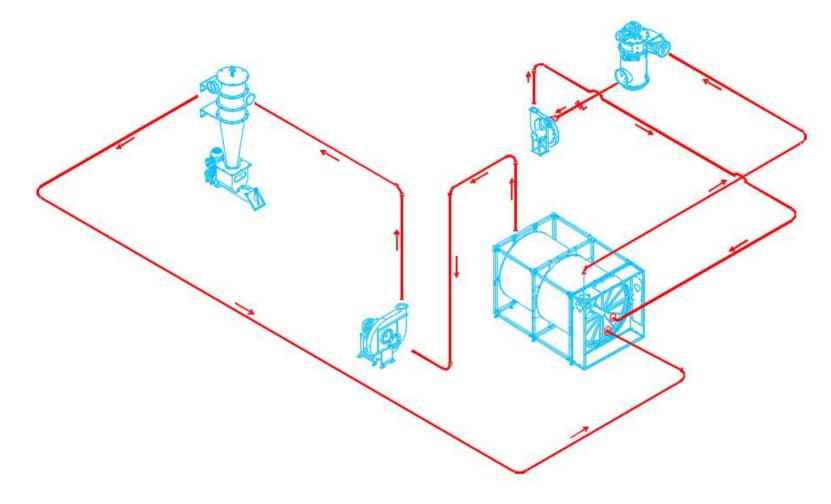




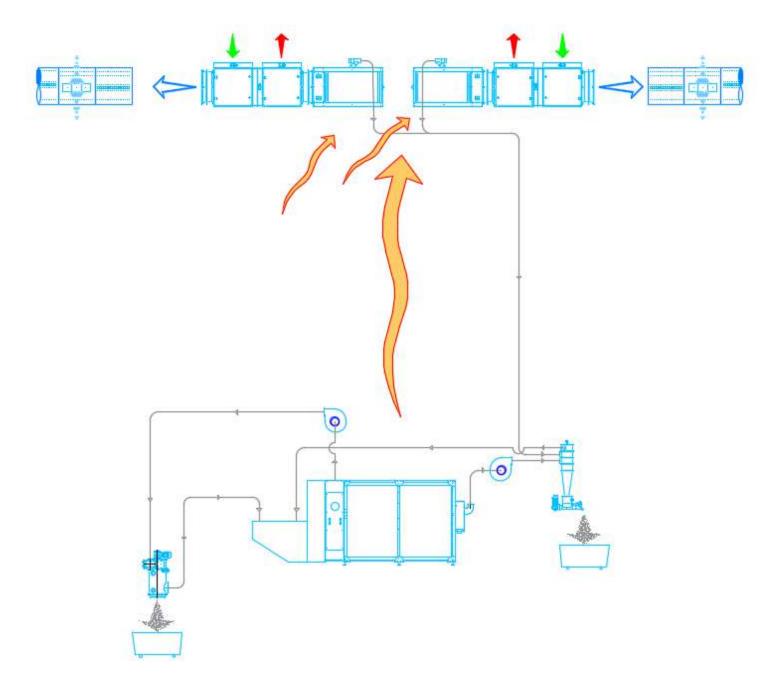


Valuable material from so called "waste"... it is always possible!

To treat the big amount of dust and fibres generated by those process it is necessary an efficient filtration and waste recovery system.









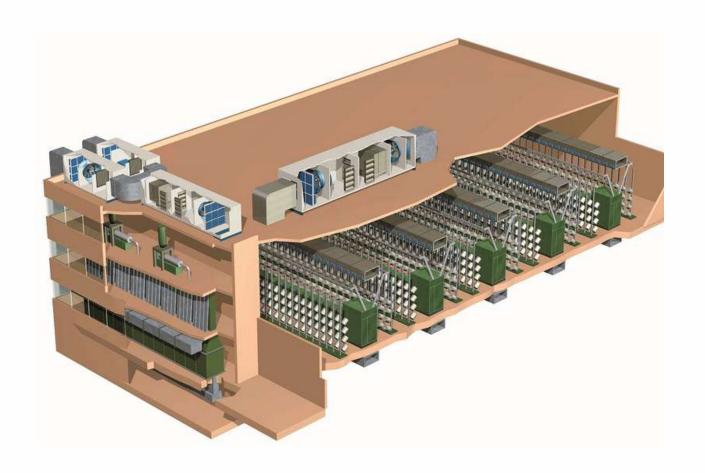






Synthetic fibres

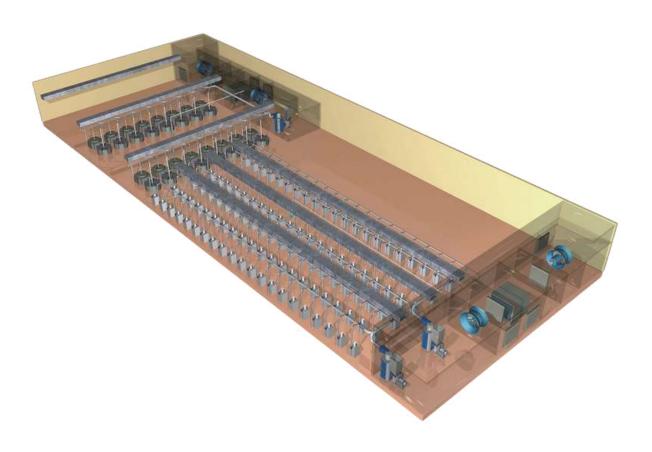
• Humidification systems and constant temperature air treatment





Knitting

• Humidification systems and constant temperature air treatment

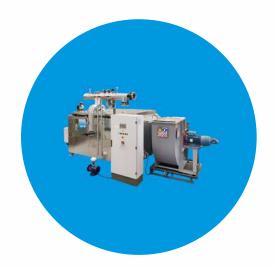




Other applications

- Digital printing
- Labels
- Technical fabrics
- Confection
- Dyeing and finishing



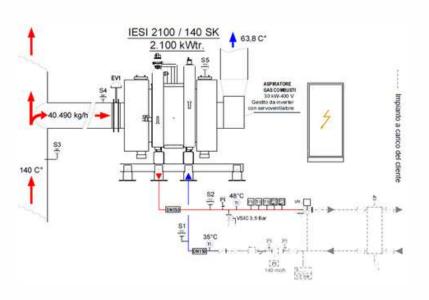


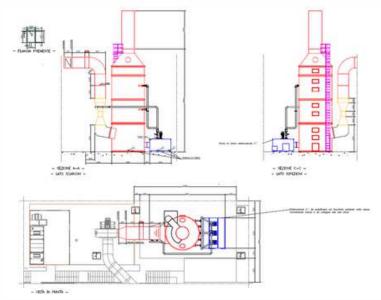


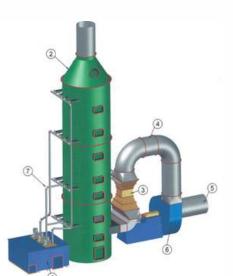


Heat recovery system - HRS

HRS is a modular system designed to recover the thermal energy from overheated air or combustion gases which are usually exhausted into the atmosphere by production processes.







Wet scrubber system - AWS

AWS are tailor made designed to reduce the concentration of dust and acid micropollutants present in the exhaustions of a lot industrial process.









IHS

EUROPEAN PROJECT

Induction Humidification System

Inductive Humidification System (IHS) assuring important efficiency, value and cost savings to the industry.

This project received funding from the Horizon 2020 research and innovation Programme of the European Union under grant agreement n° 811349.

Efficient solutions

We are one of the only 1.000 companies worldwide to have received from "SOLAR IMPULSE EFFICIENT SOLUTIONS", an entity of the European Community for sustainability, the EUROPEAN GREEN LABEL, another added value for our customers' audits.





THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO. 811349

IHS Induction Humidification System

COPH - Coefficient of Performance: > 40
SEH - Supersaturation Efficiency: 100%
H2O - Water saving: 65%
ESH - Energy saving: 80%
PATENT IT 102018000007680







IHS® & IHS®ds

Induction Humidification System & Dual Stage

CHOOSING IHS® MEANS:

- Reduce water consumption of more than 60%
- Reduce energy consumption of more than 40%
- Remove bacteria and mucilage creation risks
- Remove corrosion problems
- Remove any condensations risks
- Reduce plant sizes from 25% up to 40%







Induction Humidification System

Special diffusers

The use of special diffusers with laminar flow allows that the water is finely nebulized directly in the ambient and captured by an important flow of air recalled by the inductive ducts.

Water evaporation

Already at one meter distance from the diffusers and under normal department load conditions, the water is completely evaporated and absorbed by the ambient, with levels of over-saturation never obtained before and, for the first time, with completely dry air distribution ducts.

Water pressurization

Water pressurization is carried out by a high-pressure pump, with frame entirely made of AISI 316 stainless steel, cooled by the same humidification water and completely maintenance-free.

Induction

Each duct is sized for an inductive factor equal to 10/1, induction which brings the air in continuous circulation in the department to a value 10 times higher than what is conveyed through the supply air fans.



IHS®ds

Dual Stage Induction Humidification System

The system

The system includes a ramp of nozzles feed with reverse osmosis water, UV lamps, solenoid valves for pressure control, high pressure piping, discharge valves and humidification Pads.

The process

Two stages of humidification, combining the micro-spray technology with the evaporative effect; to achieve a level of performance currently unique in the aeraulic sector.

Water pressurization

Water pressurization is carried out by a high-pressure pump, with frame entirely made of AISI 316 stainless steel, cooled by the same humidification water and completely maintenance-free.

The structure

The prefabricated structure to contain IHS®ds system, also entirely made of stainless steel, is completely free of points of possible water stagnation.

Some of our installation

























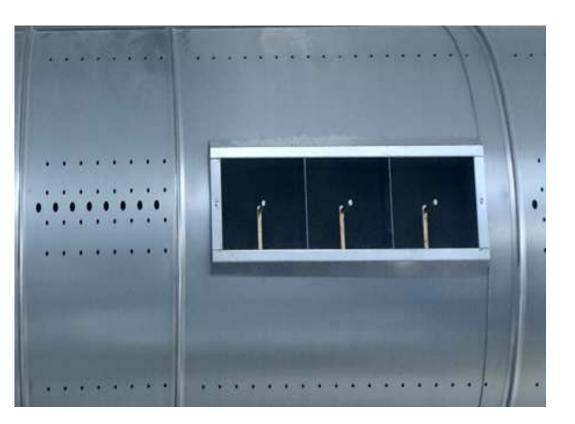












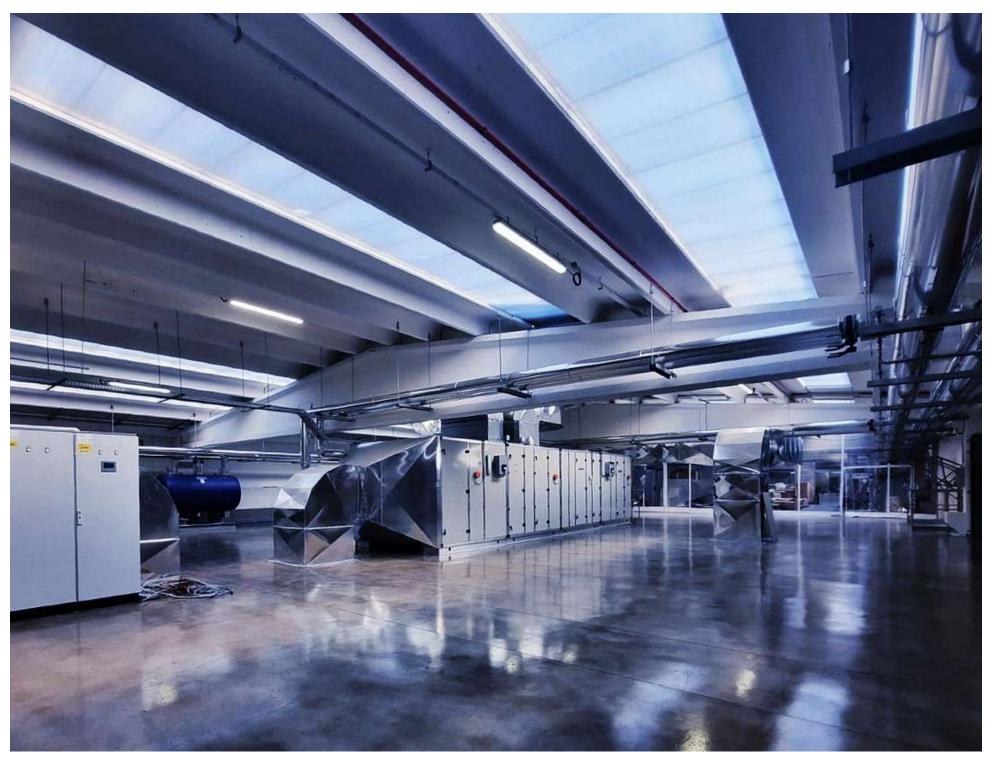


Plug Fans



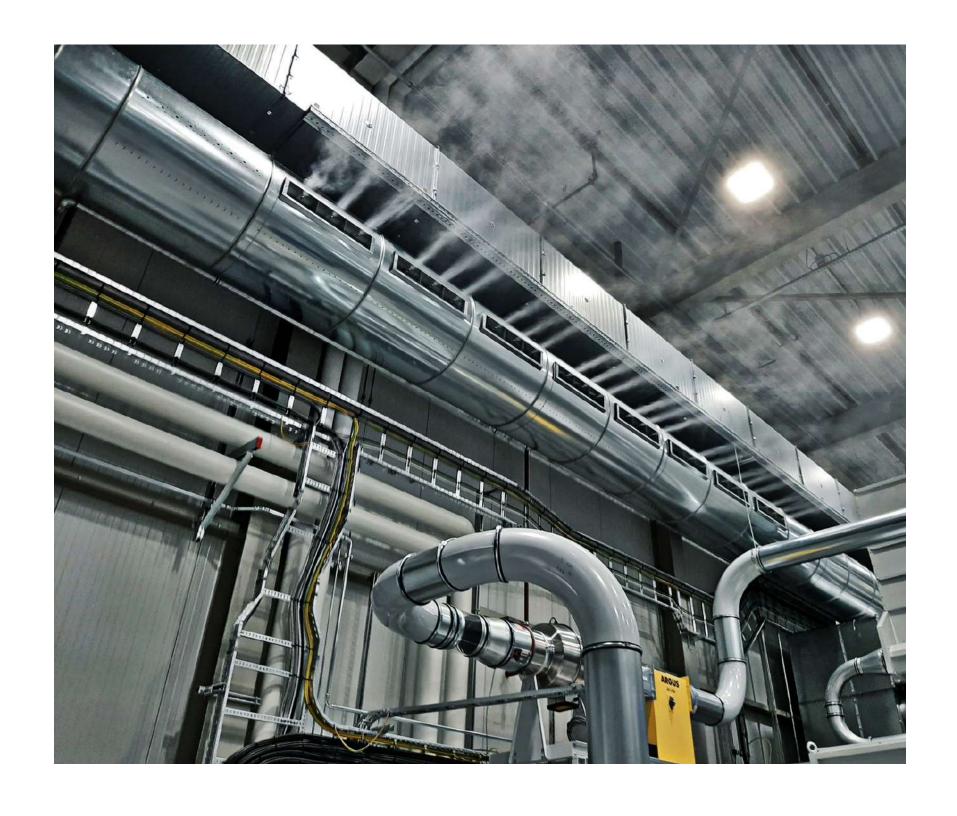


AHU





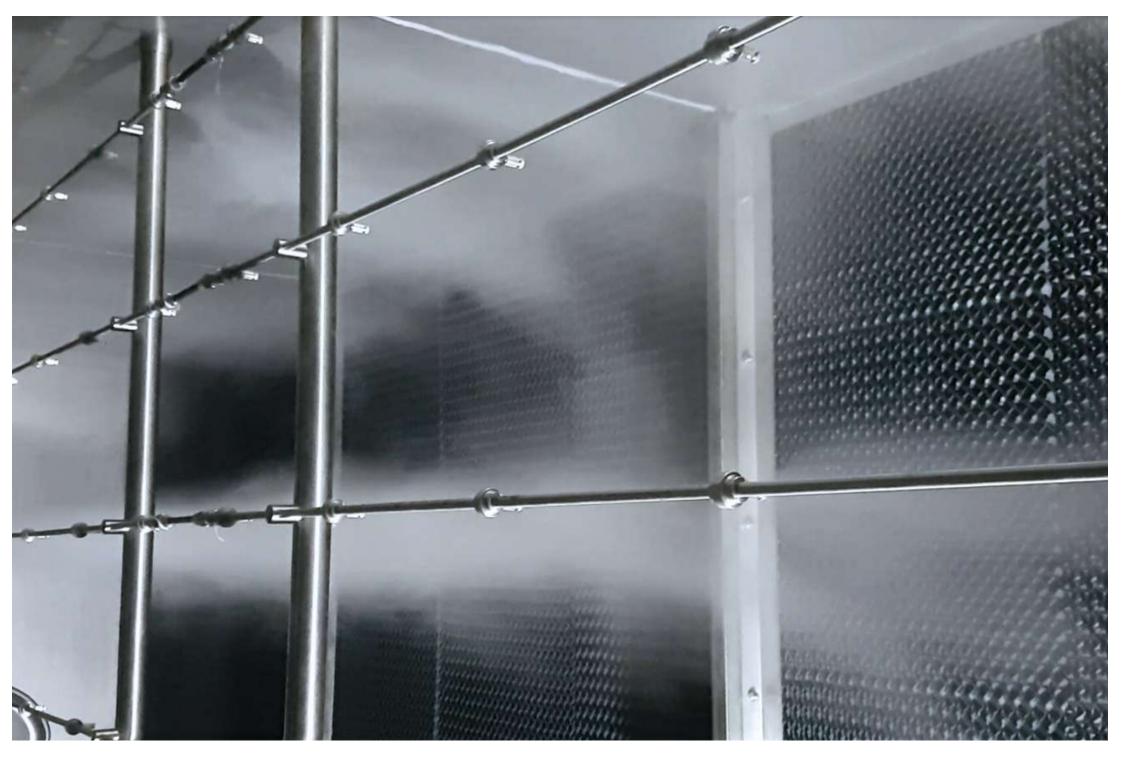
IHS® Humidification







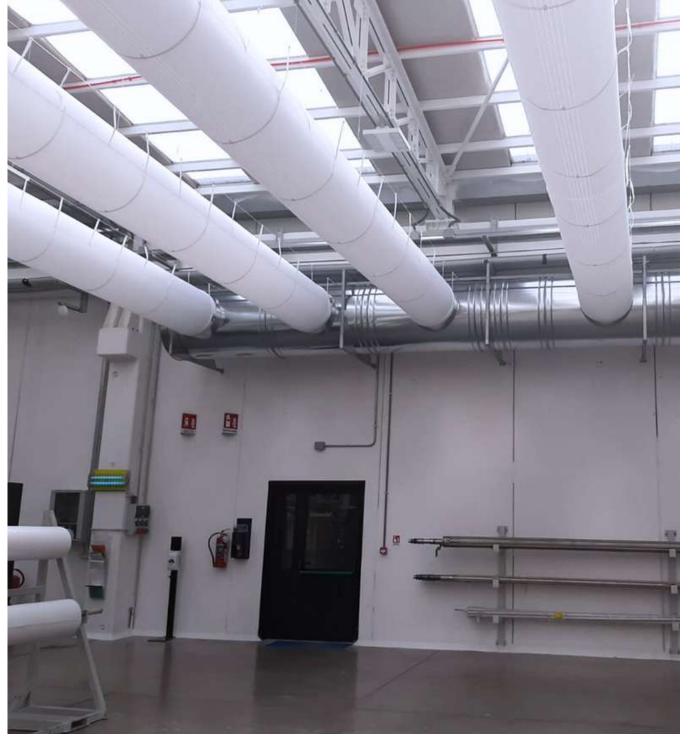
IHS®ds Humidification





Textile Diffusers





Scrubber





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