



AIR
TECHNOLOGY
SYSTEMS

ENGINEERING SOLUTIONS FOR THE AIR TREATMENT IN THE TEXTILE INDUSTRY



www.gs-airtechnology.com

IMPROVING

THE QUALITY

OF YOUR

AIR





ABOUT US

GS Air Technology is a company of engineering systems for air treatment in textile-industry. GS Air Technology offers customized solutions to maximize the functioning and productivity of your installation.

Long experience, together with highly qualified and specialized professionals with quality European components, distinguishes us from the competition.

GS Air Technology has innovation as one of its pillars, it develops and optimizes existing equipment and innovative solutions with the latest technology. With an already extensive network of customers and agents all over the world, from Europe, Africa and South America.

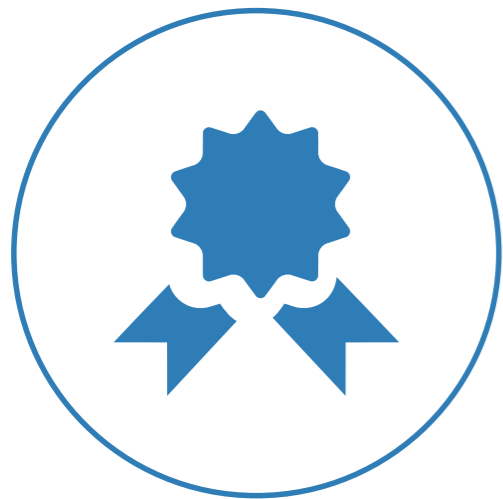
SEE OUR **COLLECTION ON PAGE 10.**

OUR MISSION

GS Air Technology offers integrated air conditioning systems that are up to the major challenges of today's textile industry. Thereby achieving not only a better working environment as well, optimize production and thus create more value to your product. They are highly customized and differentiated projects with a high degree of efficiency, reliability and European quality.

EFFICIENCY | QUALITY | INNOVATION

COMPANY VALUES



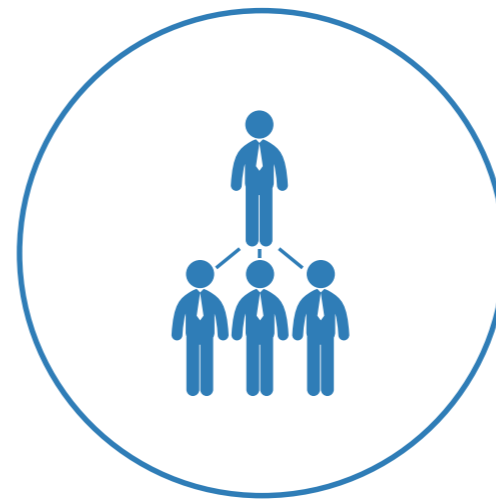
QUALITY AND EXCELLENCE

The best European engineering and materials ensure the highest quality and efficiency in our solutions.



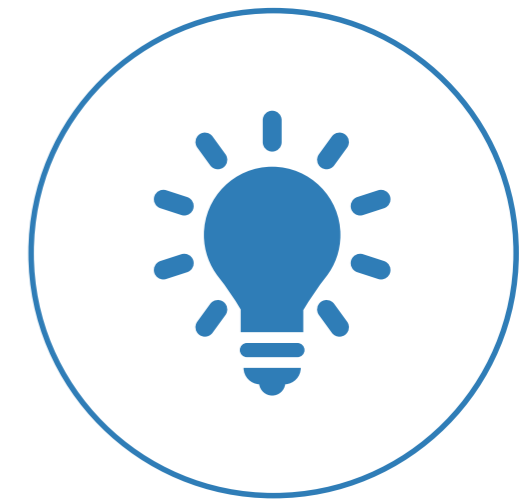
HUMAN RESOURCES

We gathered the vast experience to young and highly skilled technicians.



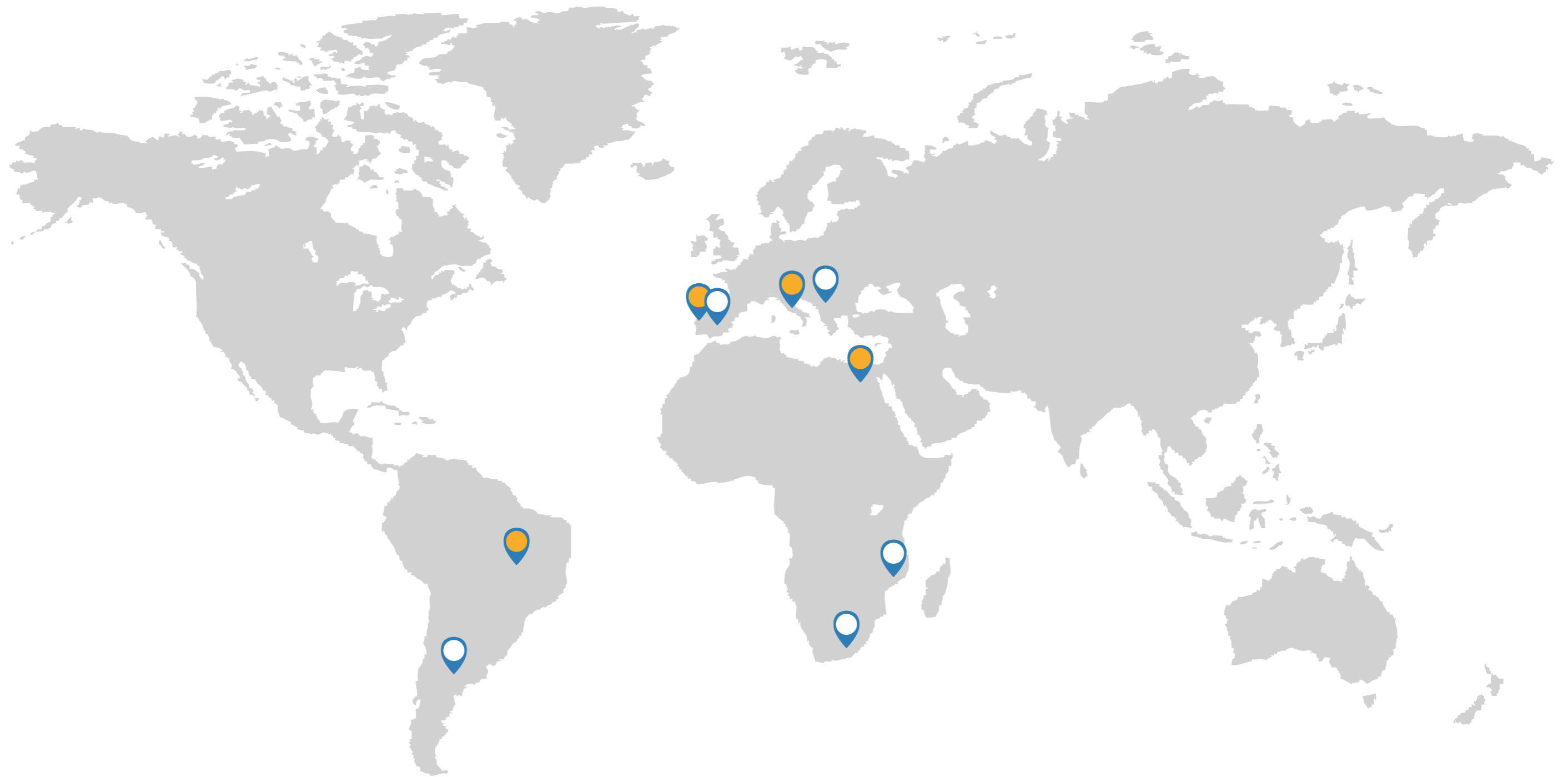
COOPERATION AND COLLABORATION

Teamwork involving employees, partners and customers in close cooperation to maximize the goals and objectives.



INNOVATION AND DEVELOPMENT

Creativity and technological innovation for the best solutions in order to achieve the best results and exceed customer expectations.



Our agents

Beyond the clients around the world, our company also has a group of agents that currently work on these following countries:

Portugal, Egypt, Brazil e Italy.

Our clients

GS Air Technology has a client portfolio spread throughout the world. We currently have customer in:

Portugal, Spain, Italy, Serbia, Egypt, Brazil, Argentina, Mozambique and South Africa.

GS SYSTEMS

GS Air Technology offers a wide range of systems that can meet all your needs. We specialize in **Air Conditioning, Waste Recovery and Humidification Chamber.**



AIR CONDITIONING



WASTE RECOVERY



**HUMIDIFICATION
CHAMBER**

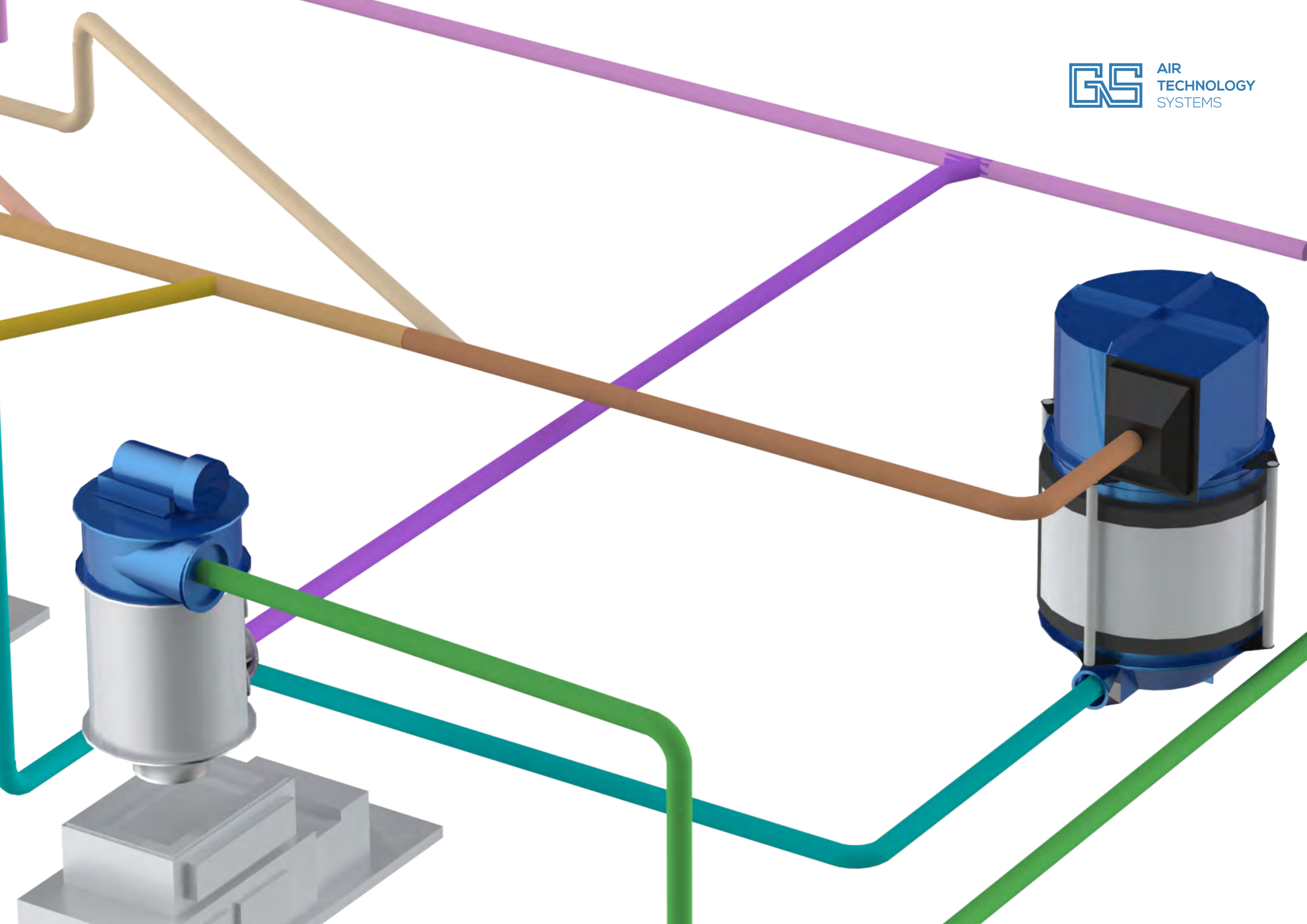
GS SYSTEMS (Pag. 12 - 23)

- **AIR CONDITIONING**
 - Ring Spinning
 - Rotor Spinning;
 - Weaving and Knitting
 - Digital Printing and Textile Laboratories
- **WASTE RECOVERY**
- **HUMIDIFICATION CHAMBER**

COMPONENTS (Pag. 28 - 34)

- Semi central
- Drum Filter
- Axial Fan
- Air Washer
- Damper
- Air Diffuser
- Fiber Separator
- Centrifugal Fan
- Jet-Filter
- Fiber Compactor
- Cyclone with Compacting Screw
- Bale Press
- Dust Separator

**2016 NEW
AUTOMATION AND SOFTWARE**
(Pag. 35)





AIR CONDITIONING

The Air Conditioning solutions from GS Air Technology, through its design provides high control of conditions so you can make the most of your installation.

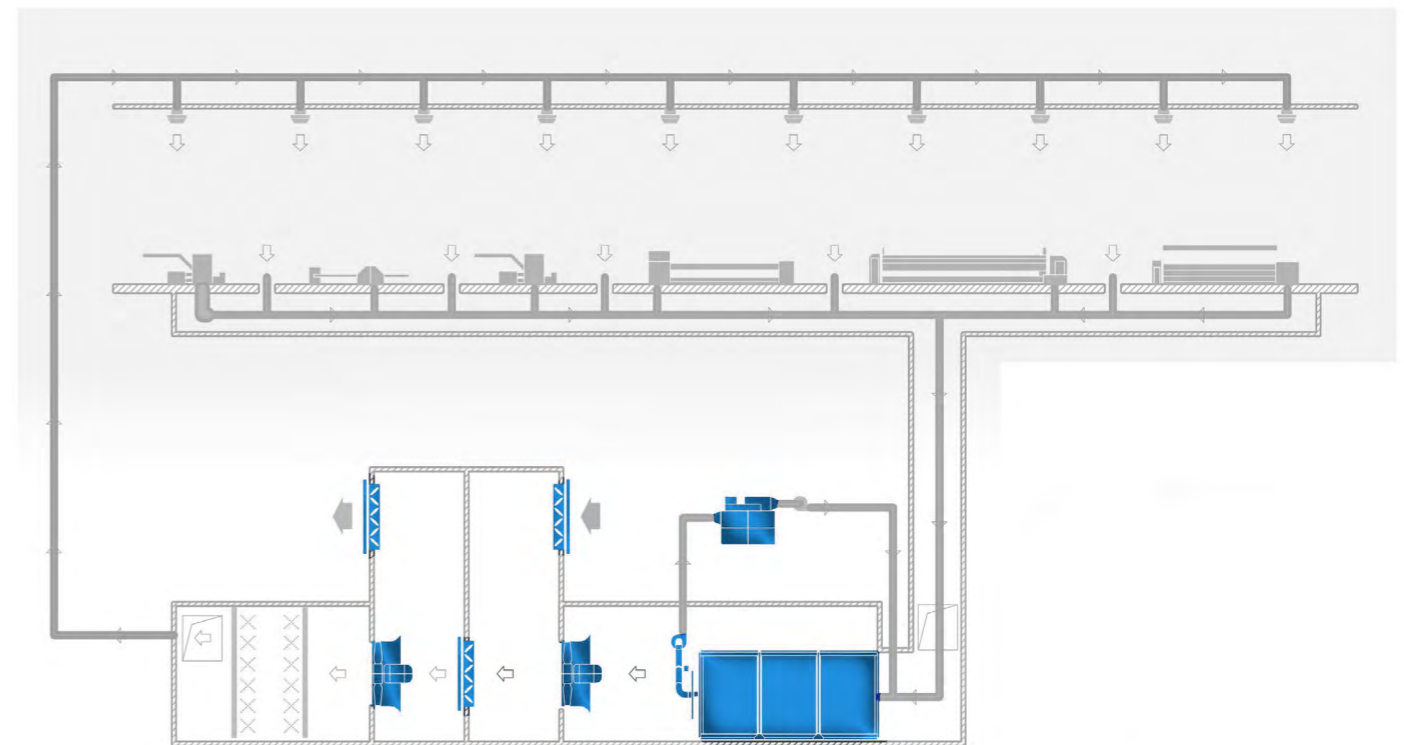
Our system not only enables a high control of conditions combined with a high energy efficiency. This is due to the capacity utilization of the heat generated by the facility for climate it. Together with a humidification system and high efficiency air filtration, our "turnkey" solutions provide fresh and free of dust and dirt air. The best compromise between quality, efficiency and energy saving.

The GS Air Technology specializes in:

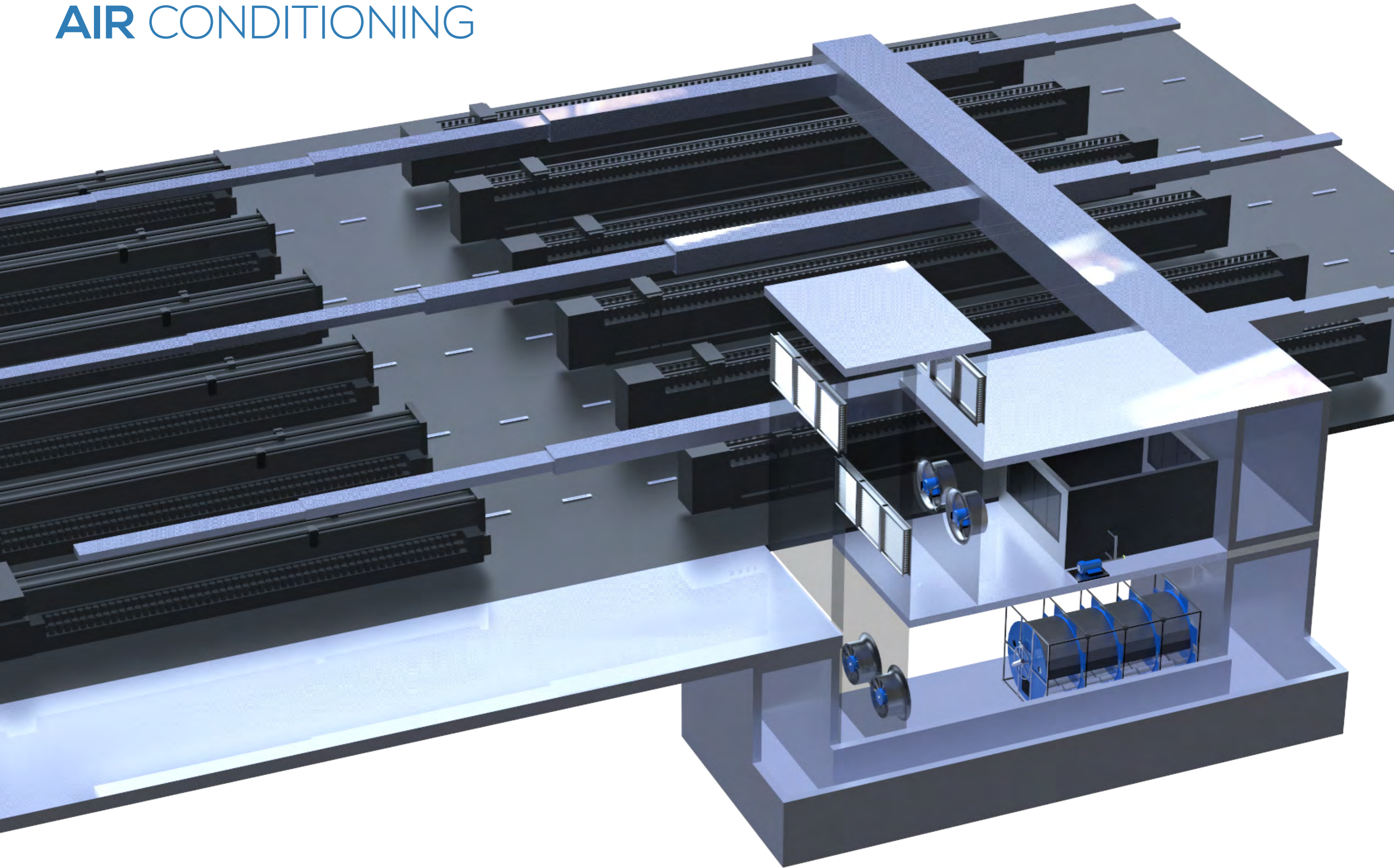
**RING SPINNING | ROTOR SPINNING | WEAVING AND KNITTING
DIGITAL PRINTING AND TEXTILE LABORATORIES**

AIR CONDITIONING

The base equipment system to provide a better air quality to the Industrial Textile environment.



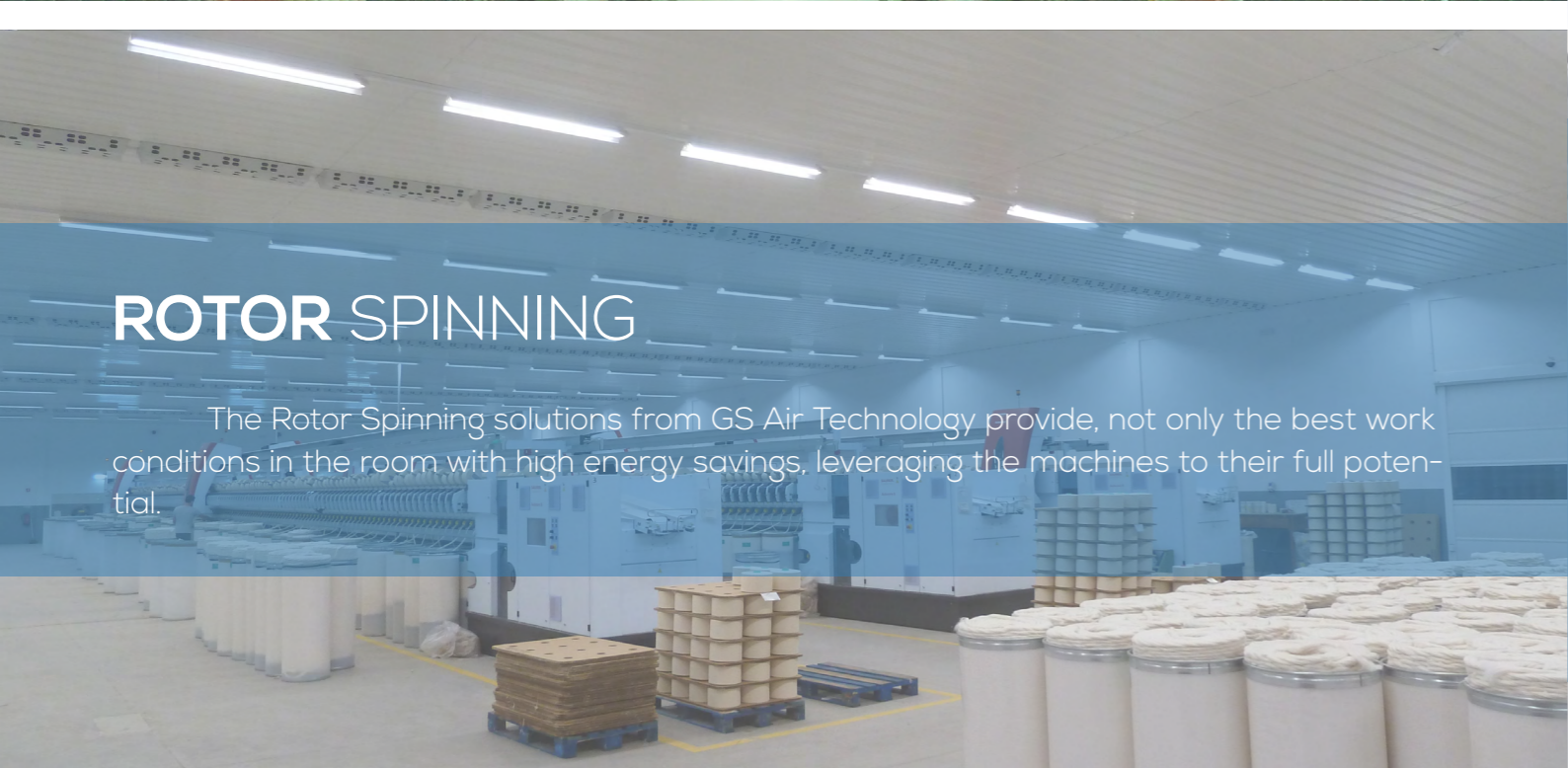
AIR CONDITIONING





RING SPINNING

GS Air Technology Ring Spinning solutions provides optimized solutions for distribution and return of the air to a process of high efficiency wiring and spinning. Its design enables high energy savings while maintaining the ideal conditions in the room, together with a fresh and clean air.



ROTOR SPINNING

The Rotor Spinning solutions from GS Air Technology provide, not only the best work conditions in the room with high energy savings, leveraging the machines to their full potential.



WEAVING AND KNITTING

The GS Air Technology provides Weaving and Knitting solutions that not only ensure all the necessary humidity, as well help increase production of machines and, therefore create more value in your product.

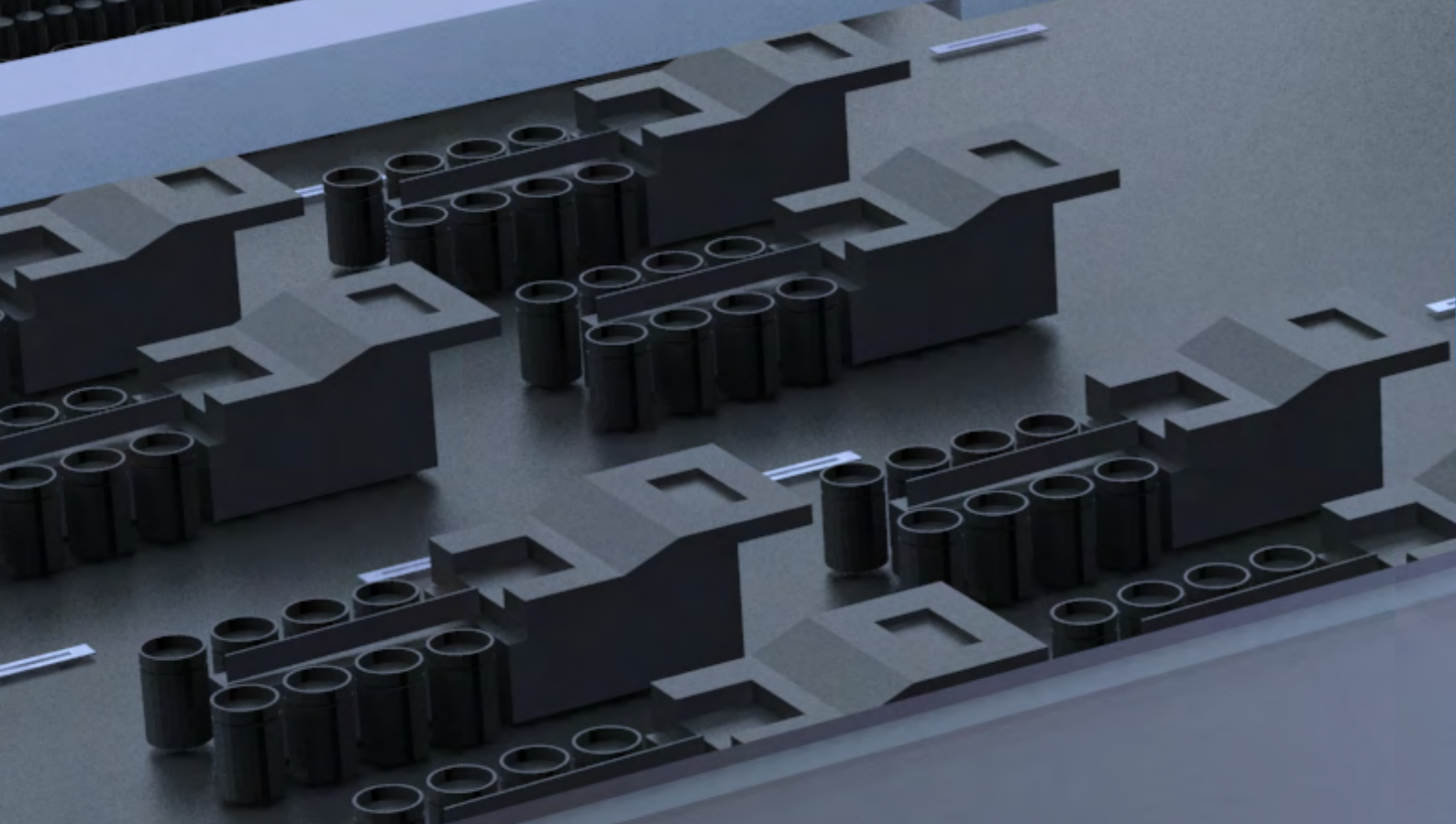


DIGITAL PRINTING AND TEXTILE LABORATORIES

GS Air Technology also possess solutions for when the room climate has to be kept within extremely tight tolerance values. These intelligent units, allow the desired temperature and humidity conditions to be maintained throughout the year. The GS has extended its long experience in textile laboratories to the latest innovations such as digital printing machines.

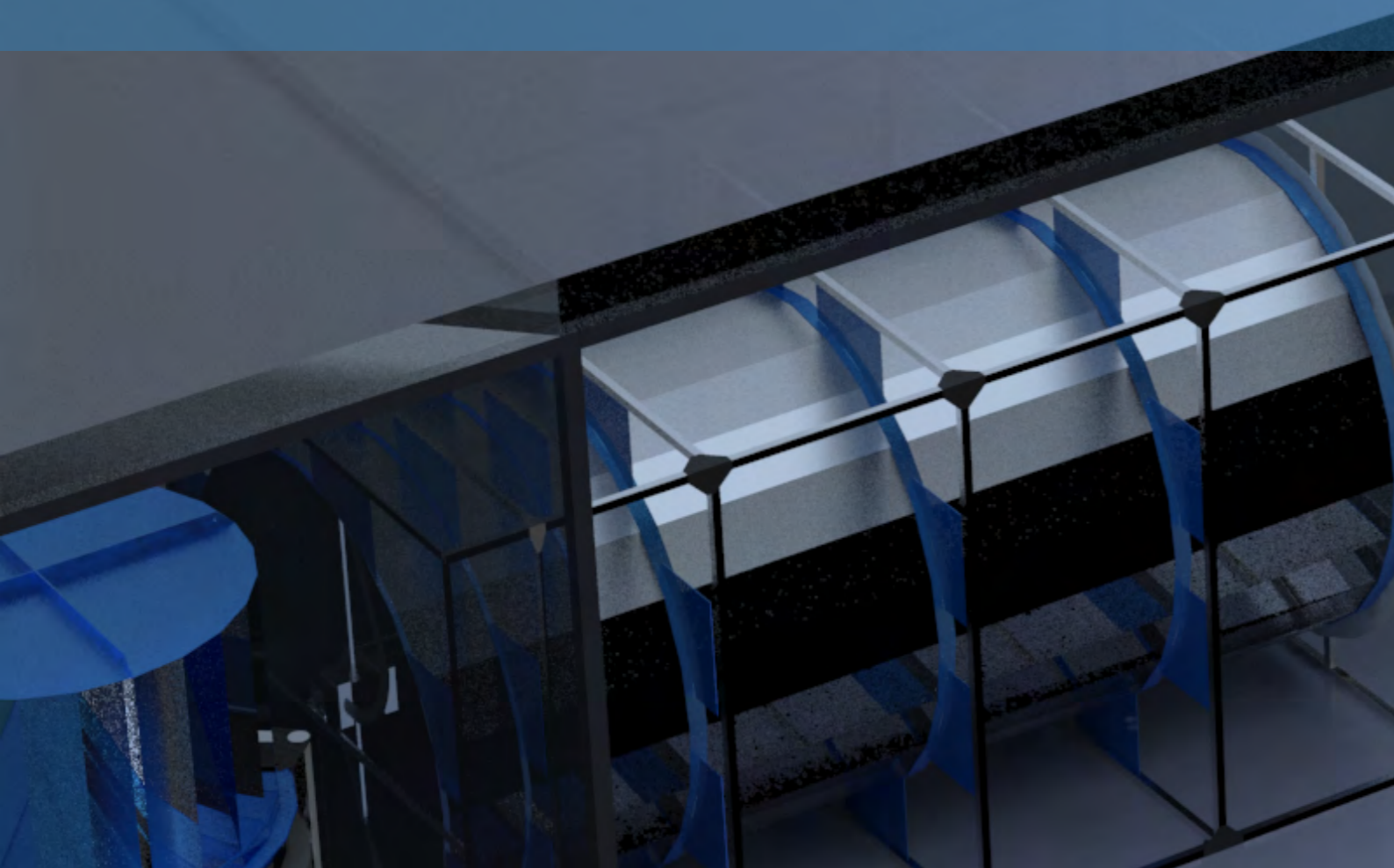


WASTE RECOVERY



WASTE RECOVERY

Combining a Waste Recovery Central to our Air Conditioning System is the best solution to maximize the output and efficiency of their equipment.

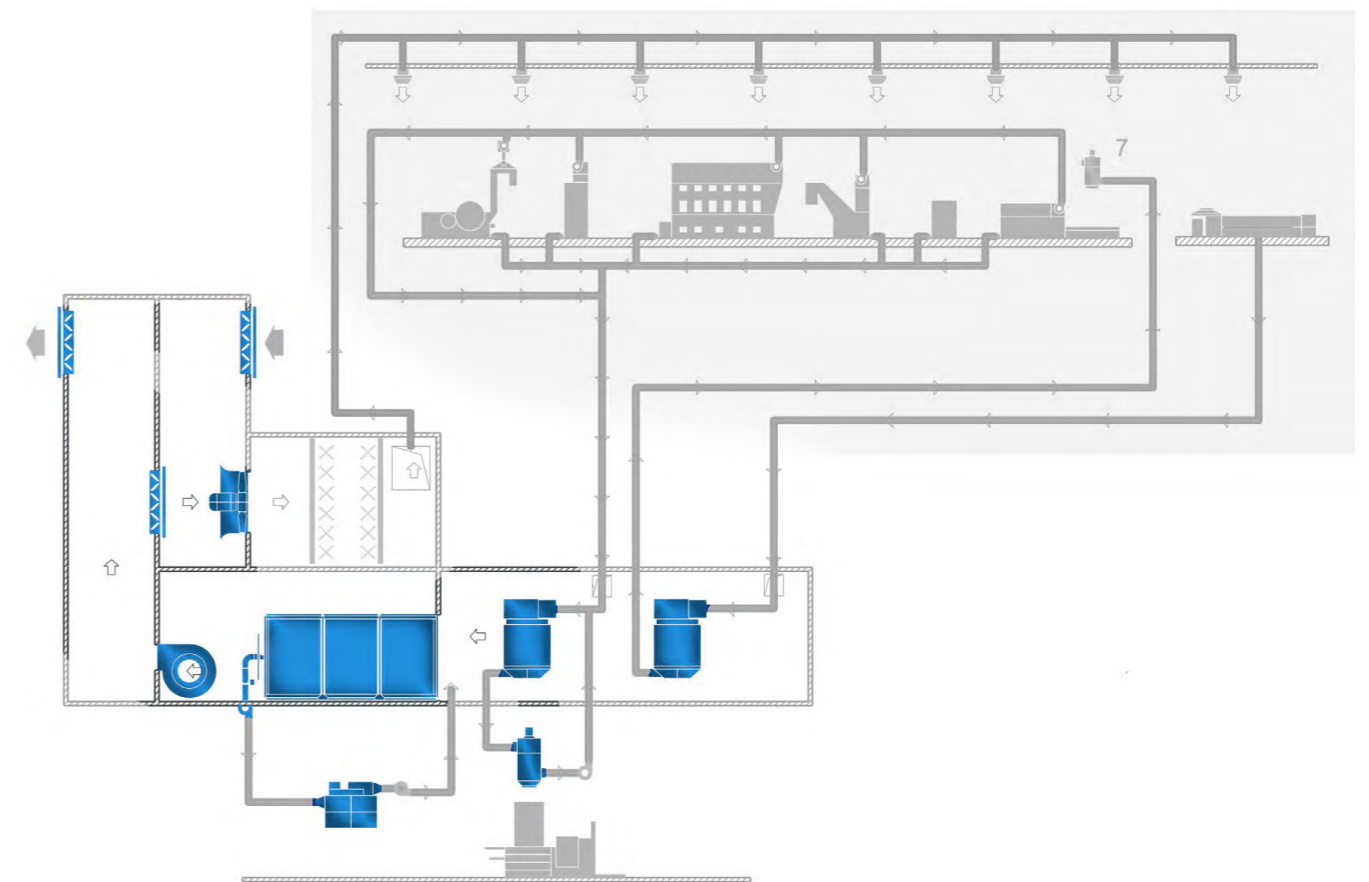


The recovery of waste is essential for the proper functioning of the Spinning unit. The intelligent design of the Waste Recovery Center from GS Air Technology allows:

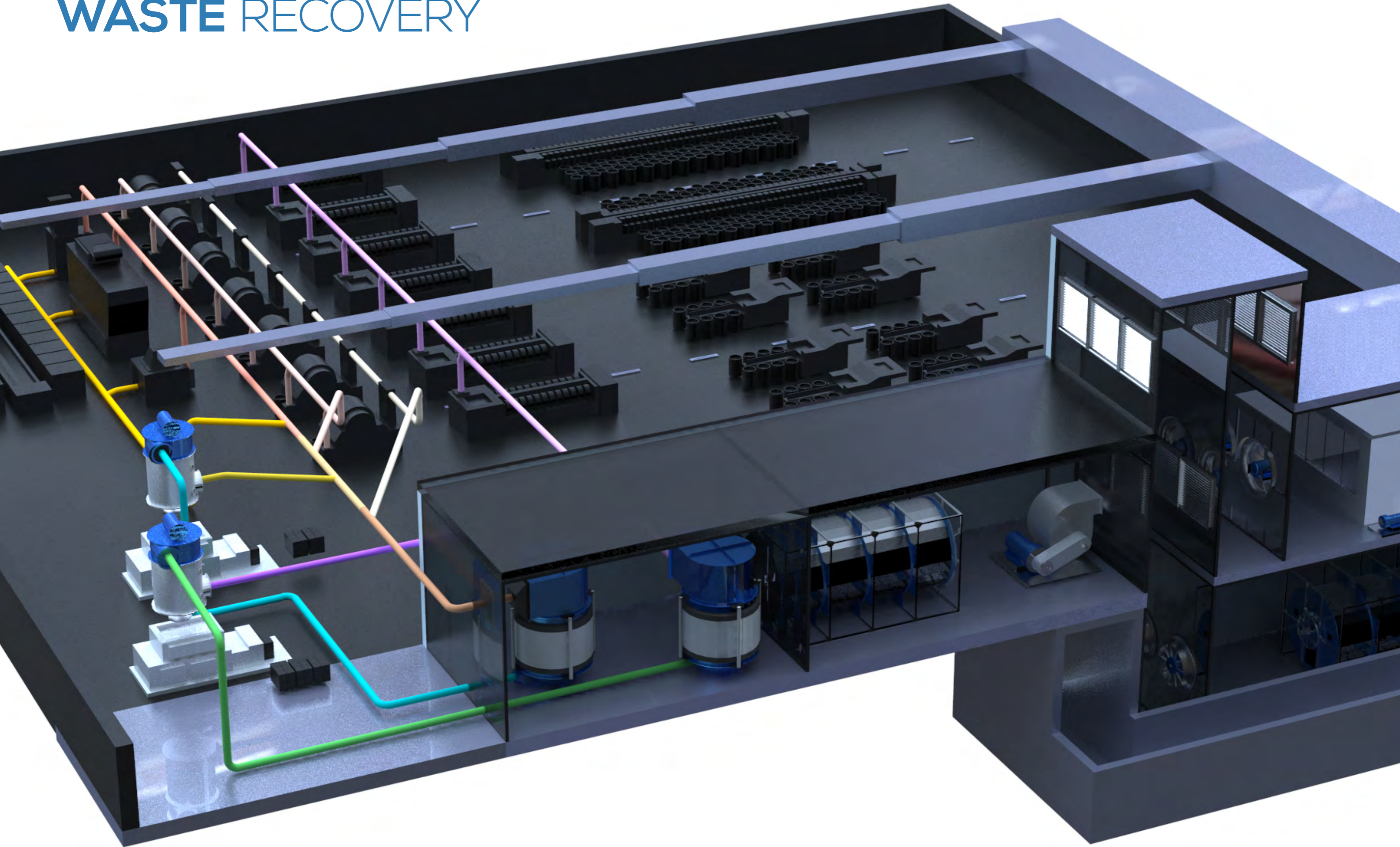
- **Separation of different grades of waste (waste and dust);**
- **Provides the pressure required for the operation of machines;**
- **Power (energy) saving;**

The Waste Recovery central reuses and recycles the waste generated in various ways, including:

- **Re-enter the material in the production line;**
- **Use presses reuse waste as a power source for boilers and similar systems.**

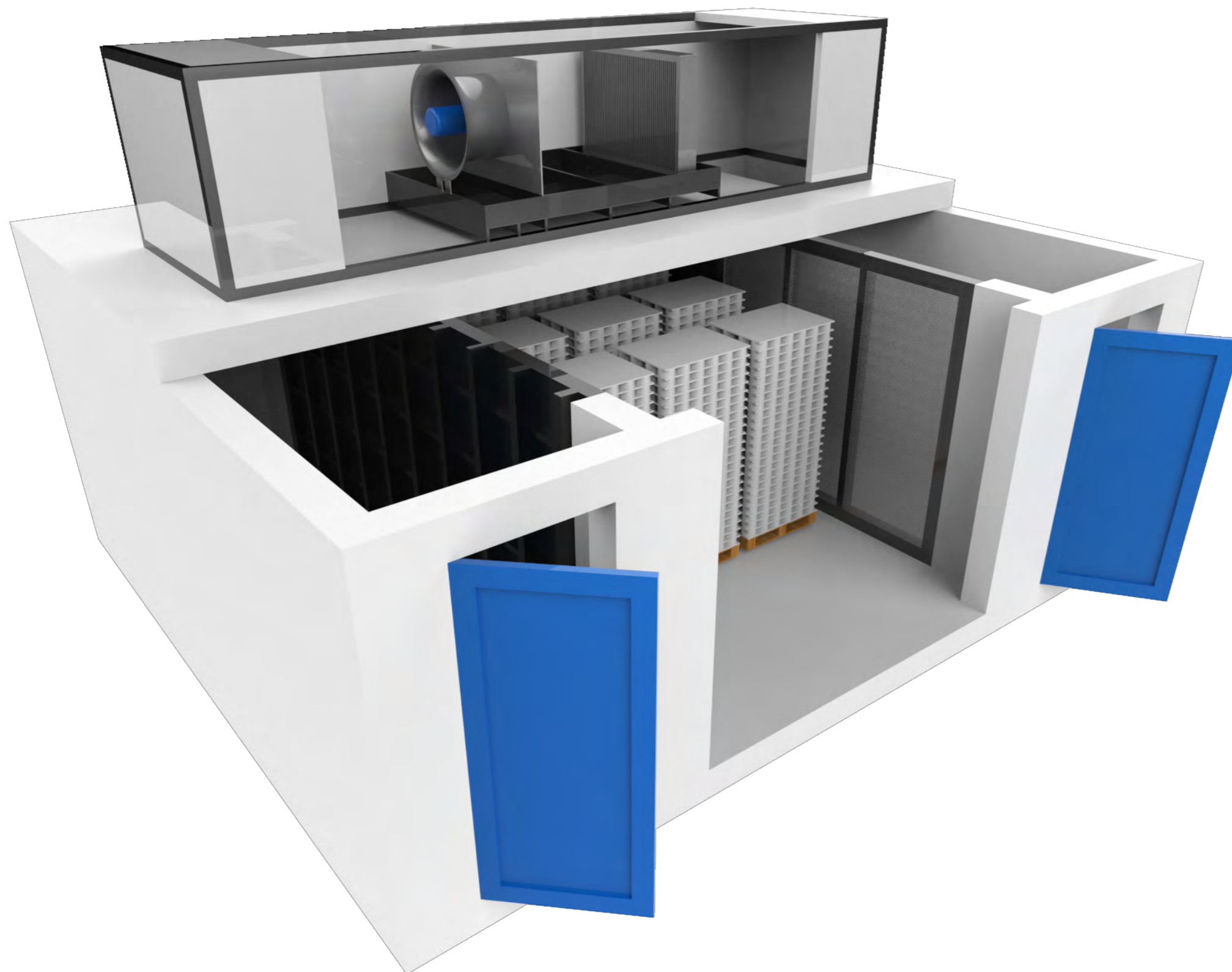


WASTE RECOVERY





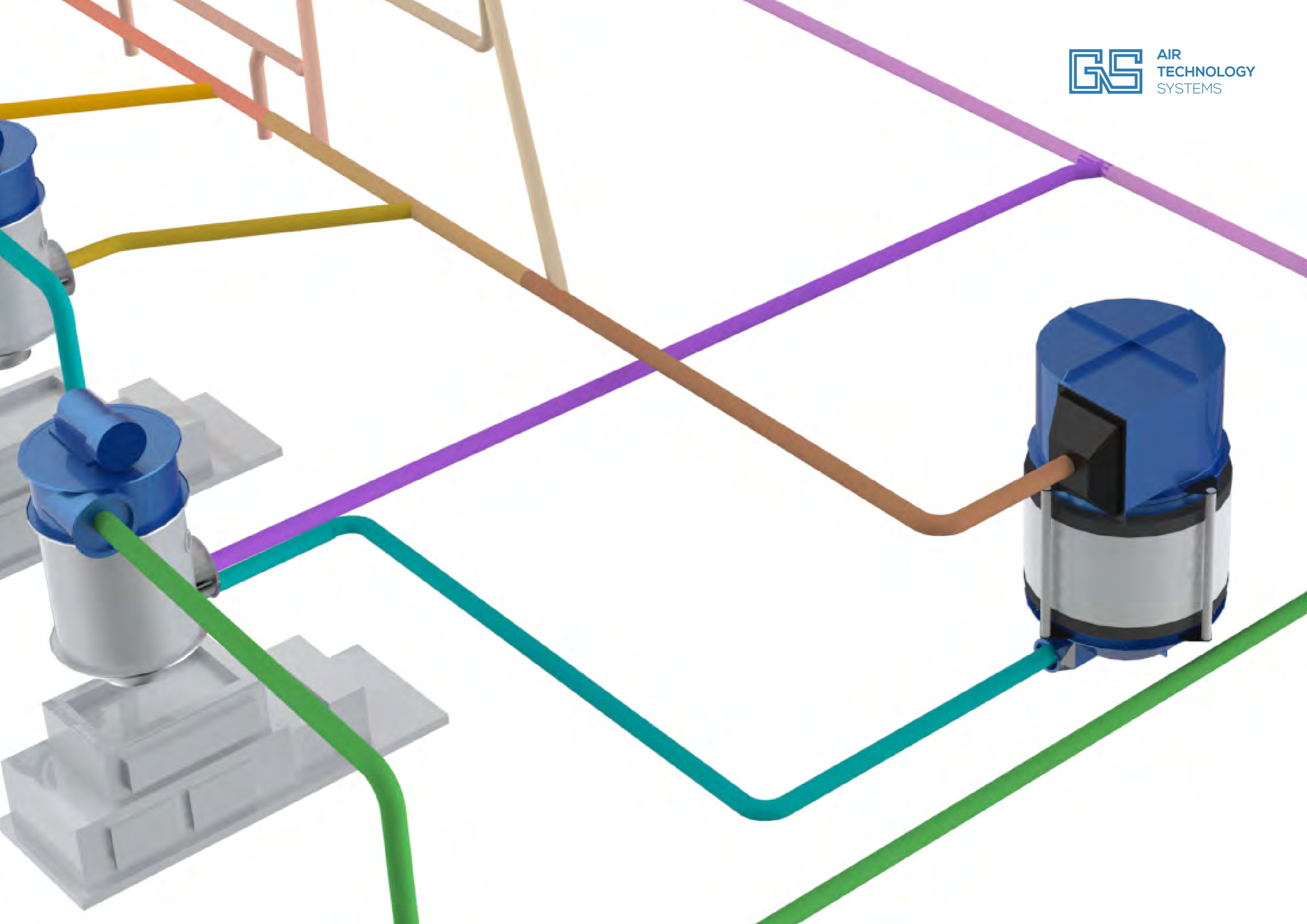
HUMIDIFICATION CHAMBER



The Humidification Chamber enables, not only to increase and improve productivity of your installation as well as add value to your product.

The humidification chamber stands out for:

- Reduction of hairiness, strength and elasticity of the yarn - increases the production of weaving from 2 to 3%;
- Humidification capacity of large amounts of wire in short periods of time - **20 tons/day**;
- Low power consumption - **60kWh to 20 tons of yarn**;
- Use of the ready wire - humidification of the wire is effected at room temperature, thus allowing its immediate use;
- Versatility - allows not only humidify coils of wire and rolls;
- Simple construction, robust and easy to maintain.



COMPONENTS



AIR CONDITIONING



WASTE RECOVERY



HUMIDIFICATION
CHAMBER

COMPONENTS (Pag. 28 - 34)

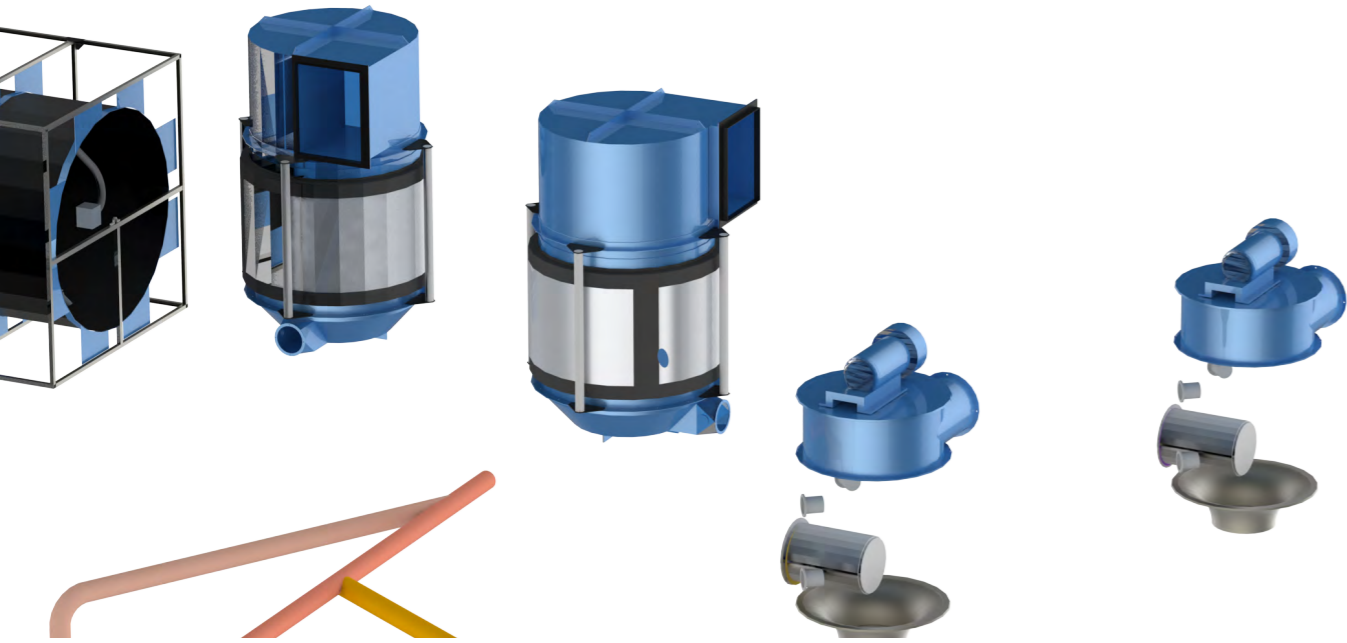
- SEMI CENTRAL
- DRUMFILTER
- AXIAL FAN
- AIR WASHER
- DAMPER
- AIR DIFFUSER
- FIBER SEPARATOR

- CENTRIFUGAL FAN
- JET-FILTER
- FIBER COMPACTOR
- CYCLONE WITH COMPACTING SCREW
- BALE PRESS
- DUST SEPARATOR

NEW | 2016

AUTOMATION AND SOFTWARE
(Pag. 35)

COMPONENT LIST PRESENT ON GS SYSTEMS



DRUMFILTER

Use: Filters and cleans large quantities of dust in the air

- Regenerative filtration unit with continuous cleaning;
- Reduced pressure loss - very Energy efficient;
- Easy installation and maintenance;
- Robust design and high reliability;

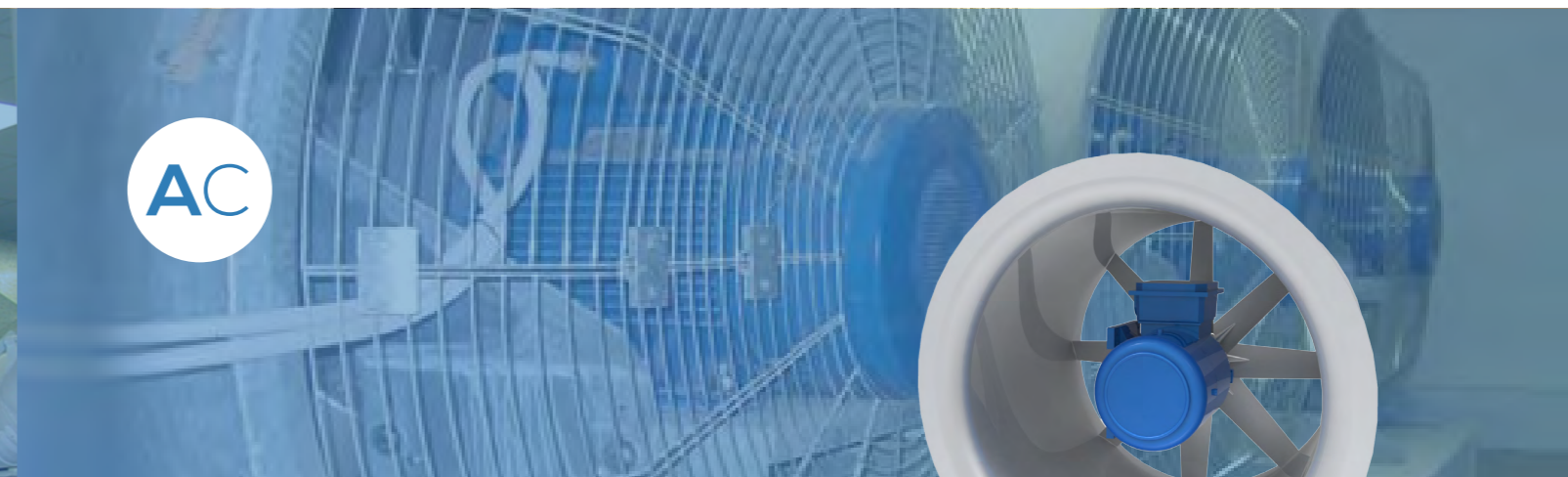


SEMI CENTRAL

Benefit:

Yours flexible, compact and efficient solution for the humidification of the Textile Industry.

The compact design allows space save and also answer to the temperature and humidity needs.



AXIAL FAN

Use: Drive the air flow

- Robust construction and large capacity to withstand extreme conditions;
- Highly streamlined design and energy efficiency;
- Blade angle adjustable;



AIR WASHER

Use: Humidifies and purifies the air

- Optimized design with great robustness and durability (high resistance to wear and corrosion);
- Improves the quality of Air - Filters and cleans the air, removing unwanted particles (microorganisms, pollen, etc.);
- Enables efficiently control the humidity of the air;
- Energy efficient - equipped with frequency regulator;



AIR DIFFUSER

Use: Design to deliver and distribute large amounts of air evenly

- Provides a circulating air turbulence-free in the room;
- Possible posting directly in the conduct of Air or false ceiling;



DAMPER

Use: Adjust the amount of air in the system

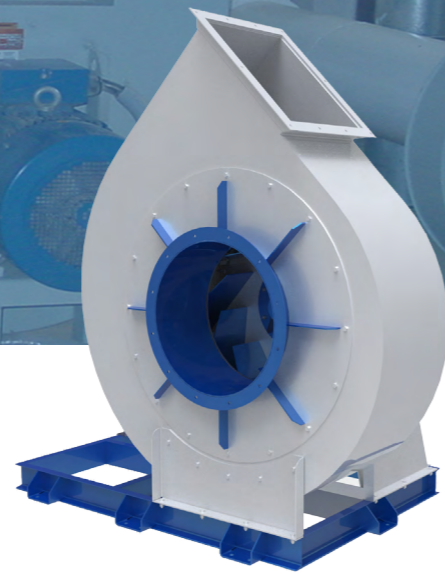
- Aluminium construction;
- Fins with aerodynamic design to cancel the Air resistance;
- Servo motor for controlling the angle of the vanes;



FIBER SEPARATOR

Use: Separate the fibers to large amounts of air

- Filter high-efficiency, large-capacity self-cleaning;
- Robust design for easy maintenance;
- Allows continuous or intermittent suction (optional) and connection to the vacuum system;



CENTRIFUGAL FAN

Use: Allows an Air flow of high pressure

- Great range in volume and air pressure;
- Robust construction and large capacity to withstand extreme conditions;
- Highly streamlined design and energy efficiency;



FIBER COMPACTOR

Use: Separates and compact the fibers

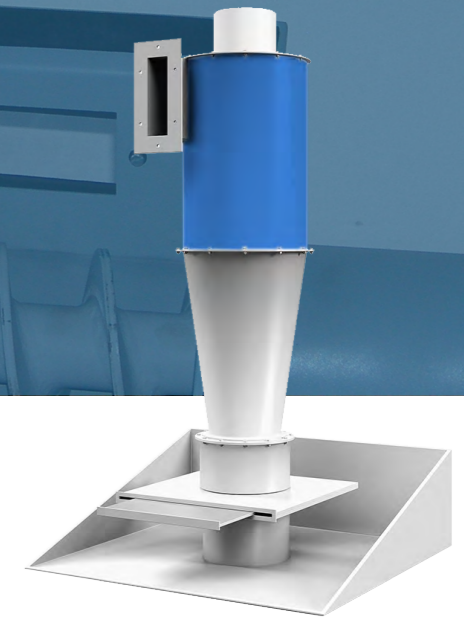
- Separator and compressor in one unit - compact design;
- High capacity of separation and air cleaning and materials;
- Energy-efficient and easy to maintain;



JET - FILTER

Use: Eliminates dust

- Energy-efficient and easy to maintain;
- Compact design;



CYCLONE WITH COMPACTING SCREW

Use: To extract, compress and remove the fine powder from the system

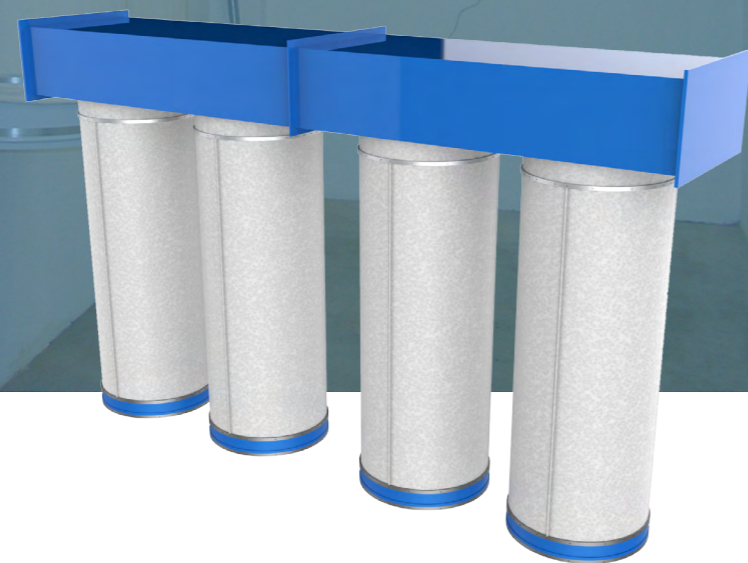
- High efficiency in separation;
- Reduced maintenance due to the absence of moving parts (cyclone);
- Adapting to any volume of air;



BALE PRESS

Use: Reuse of Waste:

- Very high compression ratio;
- No dust accumulation in waste management;
- Reuse of waste as fuel / incineration;



DUST SEPARATOR

Use: Stores the system powder

- Compact design and robust (vertical wall mount);
- Easy installation and maintenance;

2016 | NEW

AUTOMATION AND SOFTWARE

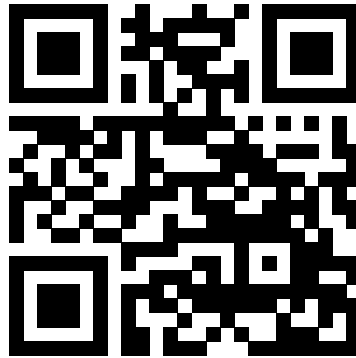
GS Air Technology has as one of its core values creativity and innovation, as such and a continuous effort to satisfy the customer and creating targeted solutions for the present and future, we developed an automation system that allows you to maximize the operation of our equipment.

This solution allows:

- Control and monitor remotely the entire installation;
- Registration of all occurrences;
- History of internal and external conditions;
- Real-time control of filter wear and other components;
- Service Announcements;
- Simple and intuitive graphic interface;
- Monitoring of the energy used;



VISIT US ON:
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GS AIR TECHNOLOGY SYSTEMS

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