

35 YEARS OF EXPERIENCES



**Kaizen Engineerings**

HVAC Consultant & Service Providers



# Welcome to Kaizen Engineerings!

“Textile Industries, Cement Industries, Power Plants,  
Steel Plants, Food Industries, Packaging Industries,  
Pharmaceutical Industries, Chemical Industries...”

ENSURE THE BEST POSSIBLE SOLUTIONS

# Why

## We Are Best?

“**Kaizen Engineerings**” is one of the organizations in India with various activities in the field of (**Kaizen Engineerings** is leading Mr. Rajesh Soni who have more than 35 years of experience in) HVAC & R Industries (Heating, Ventilation, Air-Conditioning & Refrigeration). Our aims to provide solutions for the diverse needs of atmospheric (Temperature, Relative Humidity & Quality of Air) parameters in the industrial environments.

**We will be delighted to offer our services to your esteemed organisation:**

- ➔ Humidification Plants/Waste Collection Systems
- ➔ Power saving in running existing Humidification plant/Waste collection systems by upgrading plant efficiency
- ➔ Energy audits of running existing plants
- ➔ Hot pocket solutions/Fibre fly control
- ➔ Turnkey project in textile (Spinning, Weaving & Knitting) & Non-Textile projects (From Design to Execution)
- ➔ Dealing in spares of Humidification plants & waste collection systems
- ➔ Dealing in Centrifugal & Axial Fans, Steam Heaters, Heating & Cooling Coils, Filter & Filtration Systems etc.
- ➔ Dealing in Air Conditioning, Ventilation, Filtration, Humidification and Air-Cooling projects.

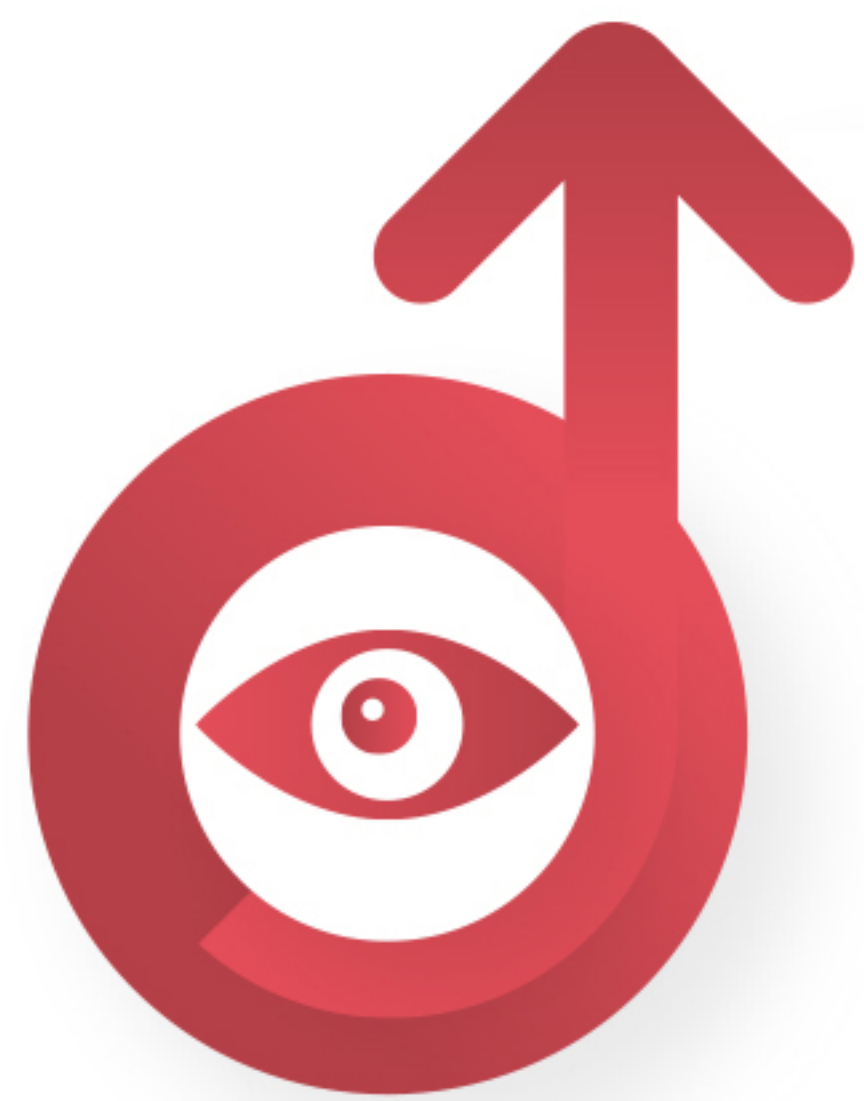
We are very keen to solve your problem regarding air engineering, Kaizen Engineerings has established in year 2017, we are Consultant, Supplier & Service provider of HVAC equipment in Textile & Non-Textile Industries.

We offer high quality & sophisticated technology in compliance with international quality standards, maintenance free, high performance, easy to operate & long-life Products (With associates)

We are engaged in Design, Trading & Export of a comprehensive range of equipment are widely used in Humidification, Ventilation & Cooling system for Industries.

**Kaizen engineering**s stands for well-engineered, innovated systems/plants & solutions of existing systems/plants problem. Company has specialized and dedicated in Industrial air engineering solutions for Heating, Ventilation, Humidification, Cooling, Air- Conditioning, Refrigeration, Dust Evacuation, Filtration by experience and superior quality.

We believe in long term relations with our clients by giving our constant & effective services.



## OUR VISION

Find and follow a life caring way, which is giving an optimum benefit from equipment, work done & working style by using minimum energy (eco-friendly).



## OUR MISSION

Continuous improvement in product quality & service to achieve optimum performance & customer satisfaction in all way and always.

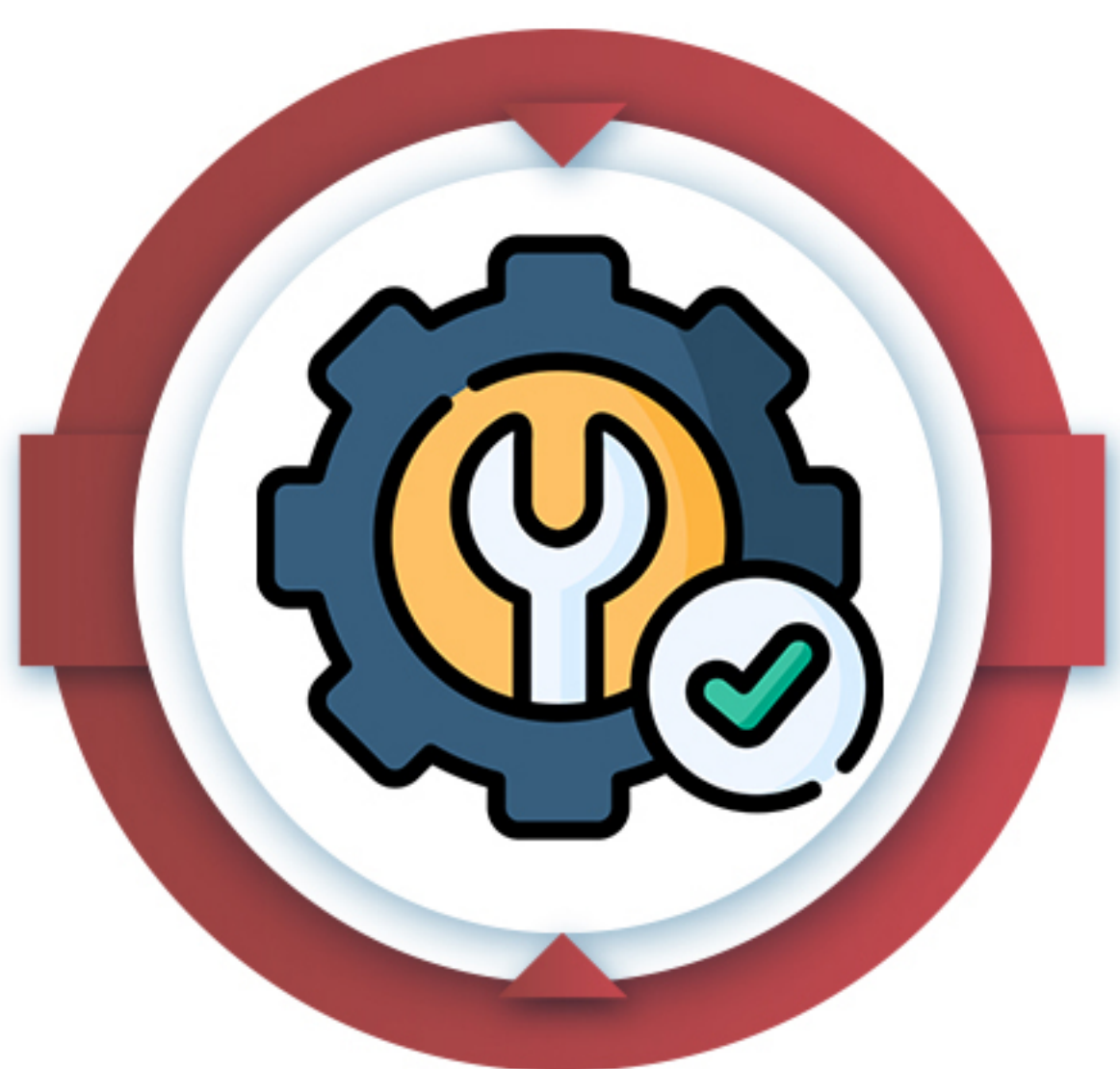


# Our Services



**Maintenance :** We take pride in our after sales assistance too. Depending on our client's needs, we offer support which helps in maintaining the system appropriately thereby building long lasting relationships

**Delivery :** We make sure that all required material is packed correctly and shipped with the correct mode of transportation and arrive at the right place, at the right time.



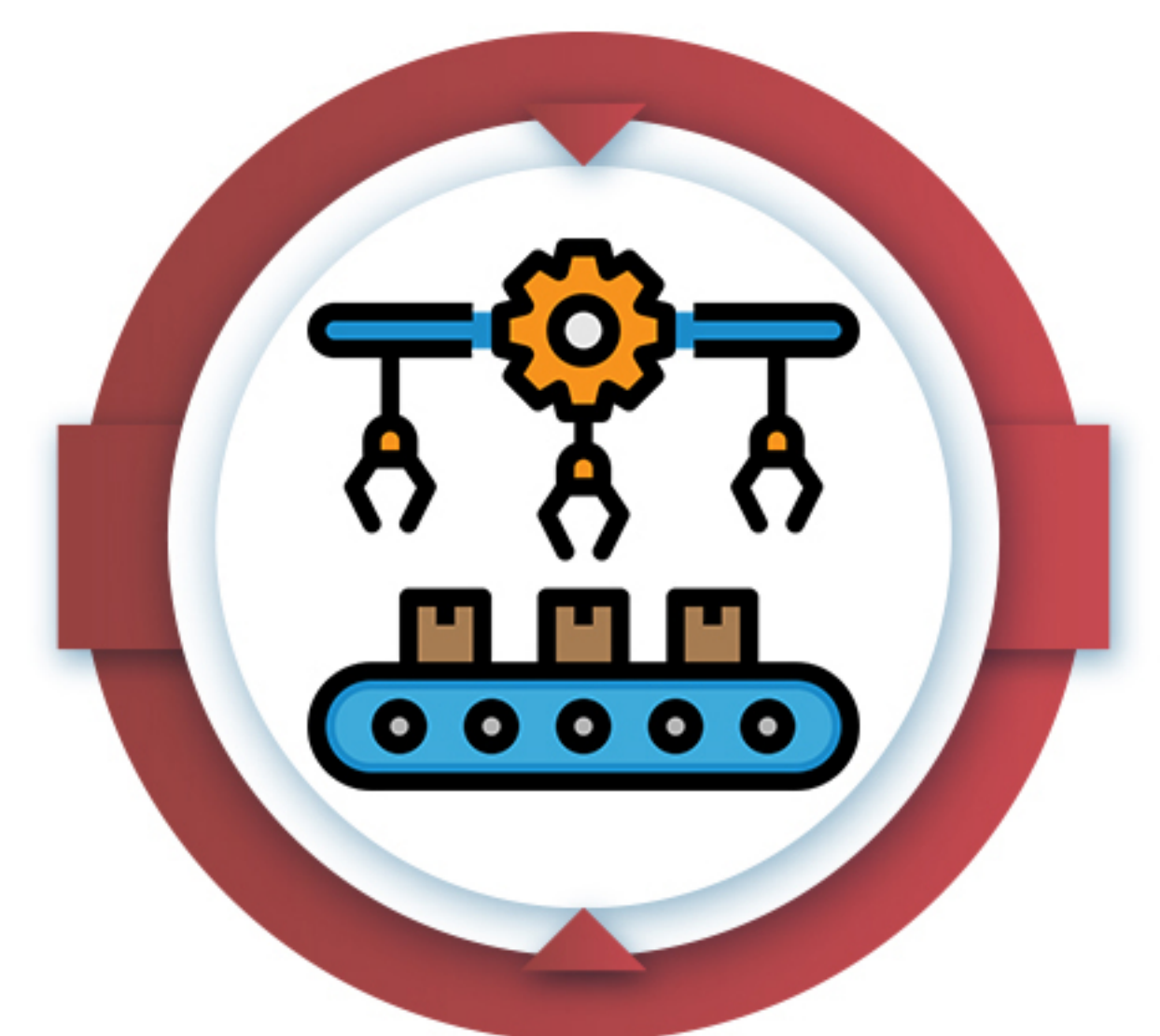
**Installation :** With a team of competent people on the ground we take responsibility for the installation. Periodic checking and servicing of the whole system.

**Conception :** With our expertise we help you to plan the integration of our solutions into the new plant design or optimise climate conditions in existing plants.



**Consulting :** At **Kaizen Engineerings**, we put you first. We understand your requirements customise solutions and execute them precisely with a sustainable approach.

**Manufacturing :** With possibilities of a range of customised solutions to your requirement, we make sure to maintain our reputation of providing quality products and timely services.



# Our Products

## Axial Flow Fan

High Efficiency Aerofoil Profile Blade Fans available in 450mm to 1500mm Dia. having 12,500 to 1,25,000CMH Capacity at pressure from 6 to 60mm WG. Inlet and outlet cone are provided to further improve the efficiency.

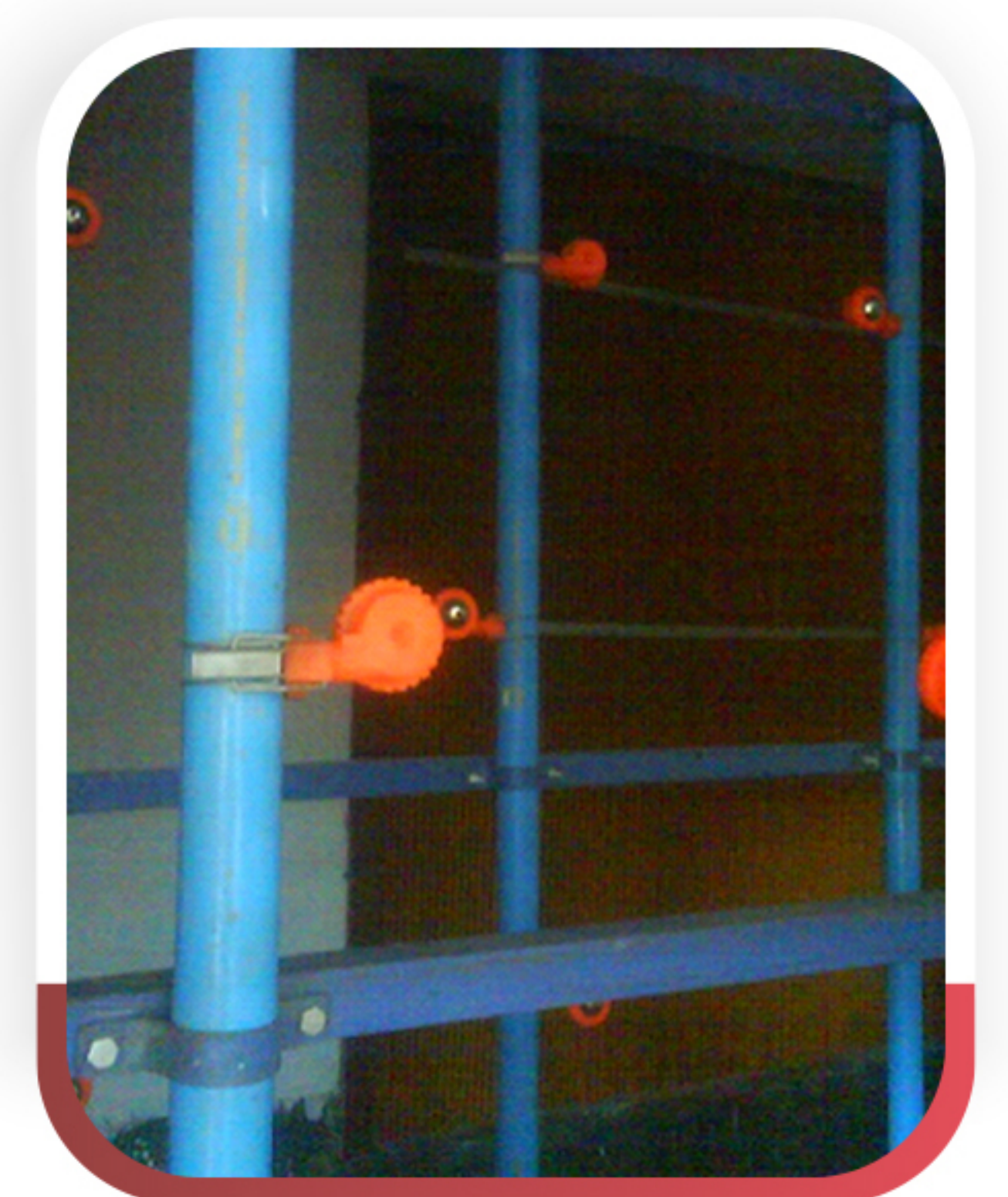


## Centrifugal Fan

High efficiency & low noise centrifugal fan. The fan impeller is statically and dynamically balanced. Available in 300mm to 2800mm Dia. Having 5,000 to 5,00,000CMH Capacity at high static pressure up to 200mm. Inlet vanes are provided for variable air volume systems.

## Air Washer

Adiabatic evaporative cooling also known as Conventional/ Package Air Washers system or Humidification Plant. The system is designed for maintain desire humidity (RH) and temperature level constantly in conditioned area. Control temperature during Monsoon by chilled water spray & Winter by heating through steam/electric heaters.



## Air Handling & Exhaust Unit

Air handling units are having a precision and sturdy construction. It is an assembly of different externally chamfered extruded anodized aluminium profiles and nylon glass fibre corner joints. Further to make it rust resistant and sweat free, it is provided with polyurethane foam between sandwiched panels.

# Air Filter

Air filter made from HDPE wire mesh with GI frames as per required size, Cleanable & washable filter are available. Primary panel filter (up to 15-20micron) & secondary filter (up to 5 to 0.3 micron) are used for filtration. Return air 'V-shape filters are available (SS/PVC wire mesh) for textile industries.



# Control Damper

Control Damper are made from heavy gauge galvanized steel casing. Control Damper are having aerofoil aluminium extruded parallel/opposed blades with smooth operating linkages & fixing frames. Control Damper are available with brass bush /nylon bush/bearing/ gear arrangements.

# Dust Collector

The suction blower designed for 350mm static pressure helps to conveying contaminated air to Dust Collector from production area/ machine. A variety of filter media is selected for various application & fitted on Mild Steel Structure in such a way to arrest fluff and dust.



# Fibre Compactor

The Fibre Compactor are available in Cyclone & Screw Type. It receives the coarse particle/fibre waste with air either from primary disc filters or machine exhaust. The dust is separated and air deliver to the secondary filters. the fibre compactors are vertical and have a conical screw which is driven by geared motor and delivers the waste in compact form.

# Fibre Separator

It receives the coarse particle/fibre waste with air either from primary disc filters or machine exhaust. The dust is separated and air deliver to the secondary filters. The Fibre separators are used for collect good quality waste for re-use. Available for air volume capacity 6000CMH to 24000CMH and waste capacity 60kgs and 130kgs.





## Heating & Cooling Coil

Corrosion resistance coil construction features have galvanized steel casing and stainless-steel header with threaded connections and extra thick tube walls and fins for longer life. Coils are selected with wider fin spacing to improve efficiency and facilitate maintenance.

## Air Tight Door

Heavy duty air tight doors are available in Single/double skin (glass wool insulated). It is made out from GI/MS with FRP line with both sides easy operating handle. Application: Humidification plants Ventilation plants, waste collections plant.

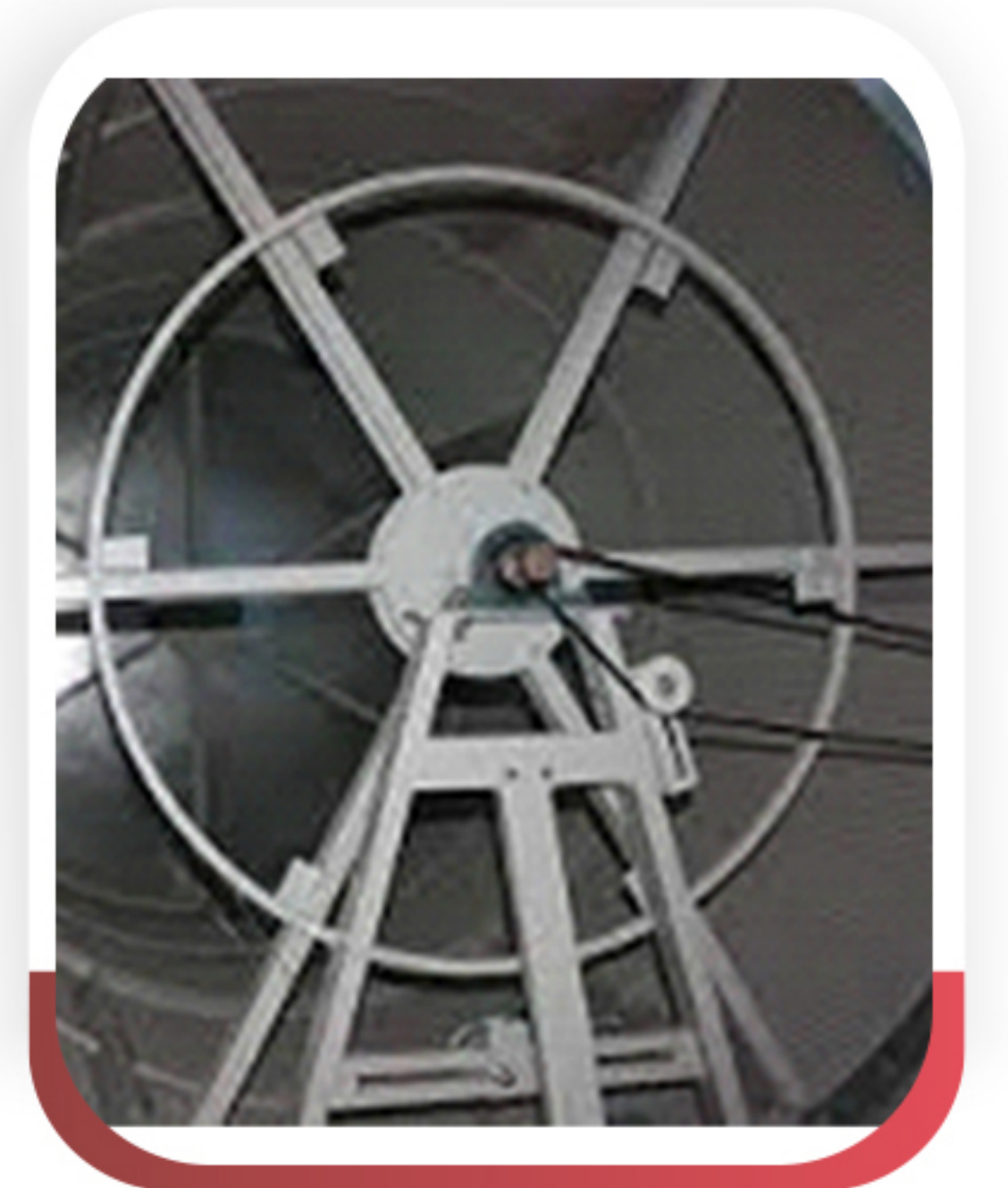


## Grille & Diffuser

Grille & diffuser having minimum resistance to the flow of air and encompass larger target area of the production department. Continuous baffle plates, spot diffusers, single and double deflection grilles, jet-diffusers provide uniform air distribution.

## Rotary Air Filter

Specially designed continuous return air filtration system based on the principle of rotary drum filtration, designed at a very low velocity of air. rotary air filter ensures consistent and uninterrupted air suction from the production departments. allowing uniform distribution of conditional supply of air in the work area for the maintaining desired atmospheric conditions accurately.

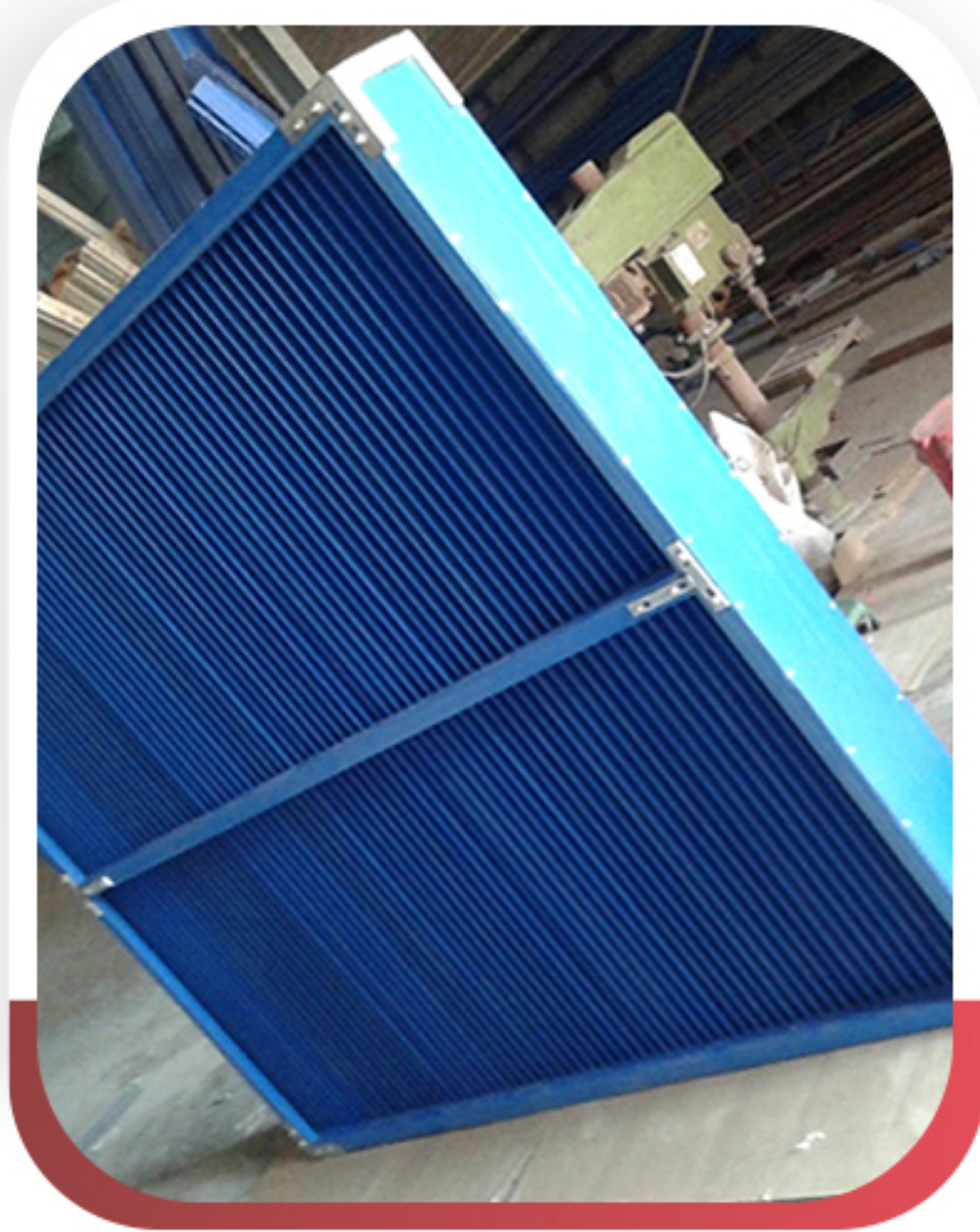


## Primary Disc Filter

The rotating disc fitted with a filter media separates coarse particle and fibre waste from the air. The filter media of disc filter separates fibrous waste and air. The waste deposited on the disc is sucked through a suction nozzle by a high-pressure material transport fan and air discharged to fibre compactor.

# Water Spray Nozzle

B-Type & Clam-on type water spray nozzles are available. Clamp-on type nozzles are made from PVC/ABS material. Clamp-on type nozzles are having ss dome orifice. Clamp-on type nozzles are easy to the maintenance with very quick unfixing/fixing of nozzle.



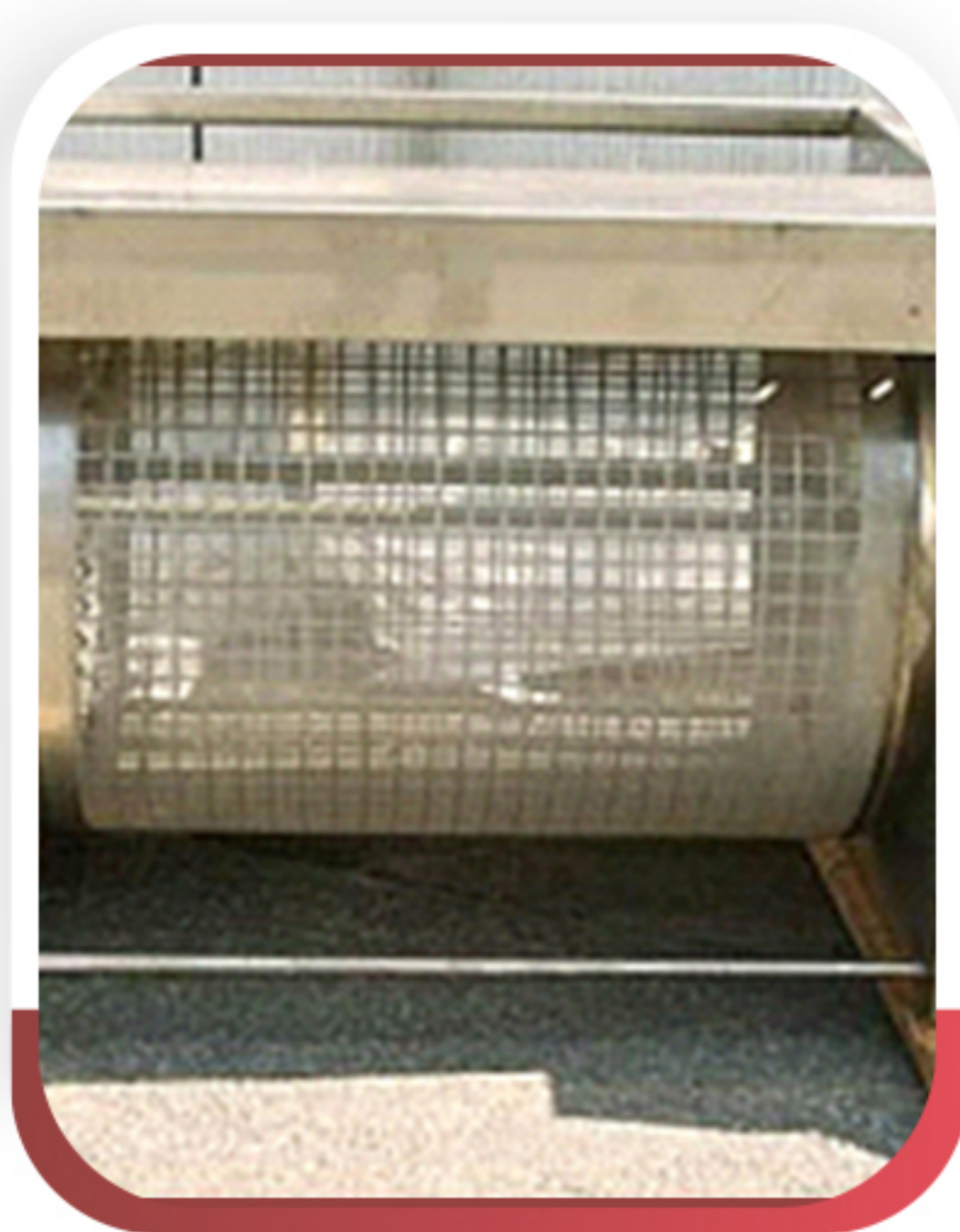
## Eliminator

“W” Shape 4 pass type,” C” Type, 5 bend & 6 pass type PVC eliminators are available. G.I./Aluminium 5bend & 6pass type of Eliminator are available. Eliminators are having corrosion resistance fixing frames and accessories. Eliminators are suitable completely remove entrained free water particles & provide highest saturation efficiency.

## Louvers & Baffles

**Louver:** Horizontal Air inlet distribution PVC louvers which evenly guides entry of air in the washer and also prevents water splashback.

**Baffle :** Square PVC Baffle for Air inlet which evenly guides entry of air in the washer and also prevents water splashback.

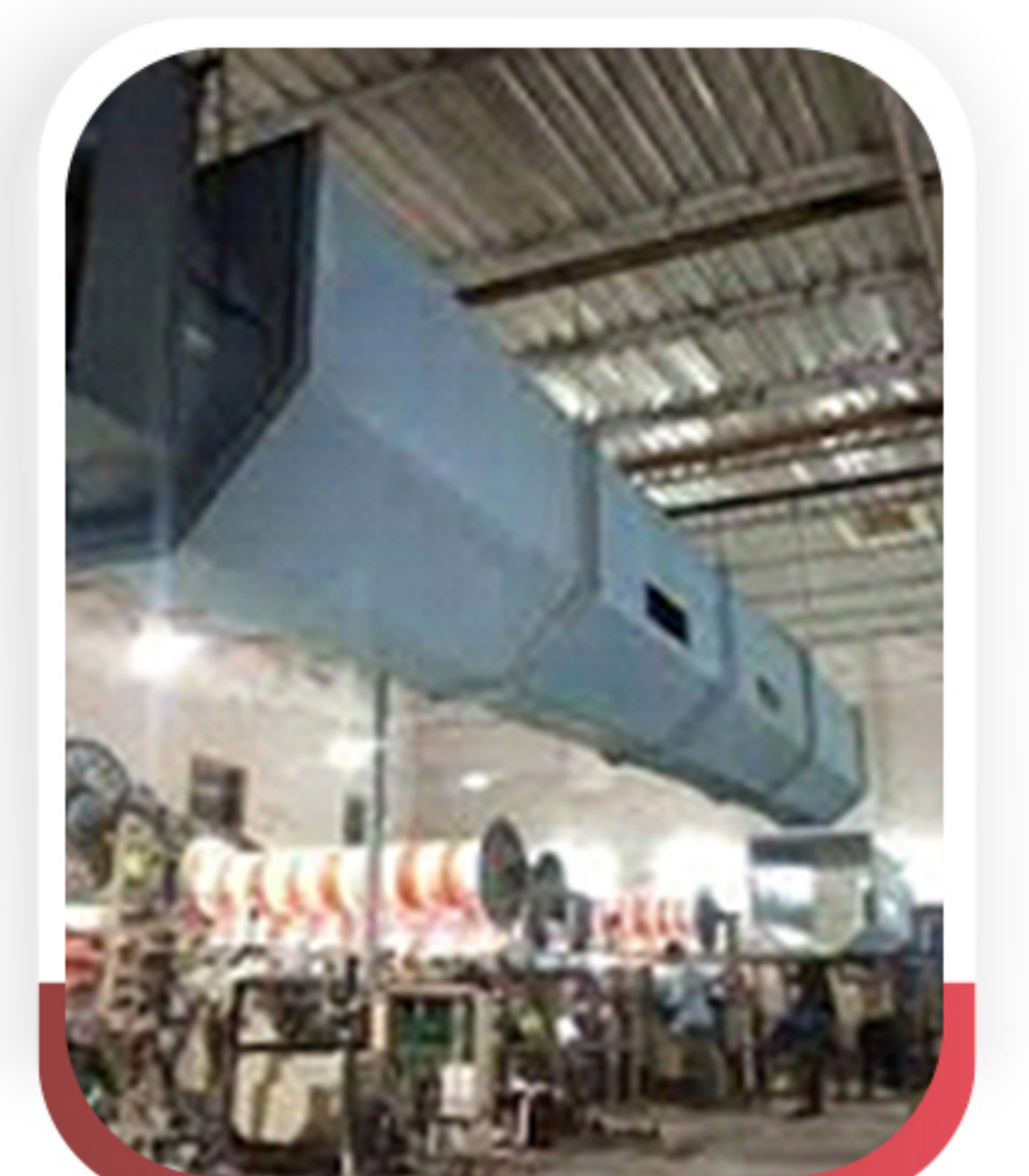


## Rotary Water Filter

Rotary water filters are made from heavy gauge stainless steel perforated drum, rotating on hot-dipped galvanized structure. Rotary water filters are more efficient cleaning device than stationary screen filter, where all water is returned to a central location. Water is filtered continuously.

## Semi Central Unit

Semi central unit having capacity 21,250cmh, 25000cmh,42500cmh with water evaporation capacity of 120ltr/hr., 225lir/hr, 350ltr /hr, respectively. Specially used where space feasibility is a problem. It saves capital cost & power cost & give efficiency of evaporation up to 90%.





# Water Scrubber

In a water scrubber process air is drawn through a mist water screen made by spray nozzles, then through separator where water droplets with dust and particles are removed from air.



# Spot Humidifier

Spot humidifiers are used as a low budget atmospheric monitoring system. Spot humidifiers are maintaining humidity and bringing down the temperature in the production department. This popular device also serves the purpose of comfort cooling to an extent by occupying marginal floor space and without the help of an elaborate pre-installed utility system.

# Range of Business



**KAIZEN Engineerings Provides a Full Range of Products & Solution**

# Our Projects

## Air conditioning System

Air conditioning is a system used to cool down the temperature in an inside space by removing the existing heat and moisture from the room. Essentially, they work by taking warm air into a system and dispersing cold air, but there is much more to this process.



## Ventilation System

The Ventilation System are available in Dry & Wet Type. The Dry Ventilation system (without air washer) is designed to maintain the ambient air quality & temperature in the department. The Wet Ventilation system (with air washer) is designed to improve the ambient air quality, temperature & get positive pressure in the department.



## Air Washer System

Adiabatic evaporative cooling also known as Conventional/ Package Air Washers system or Humidification Plant. The system is designed for maintain desire humidity (RH) and temperature level constantly in conditioned area. Controlling temperature during Monsoon by chilled water spray & Winter by heating trough steam/electric heaters.



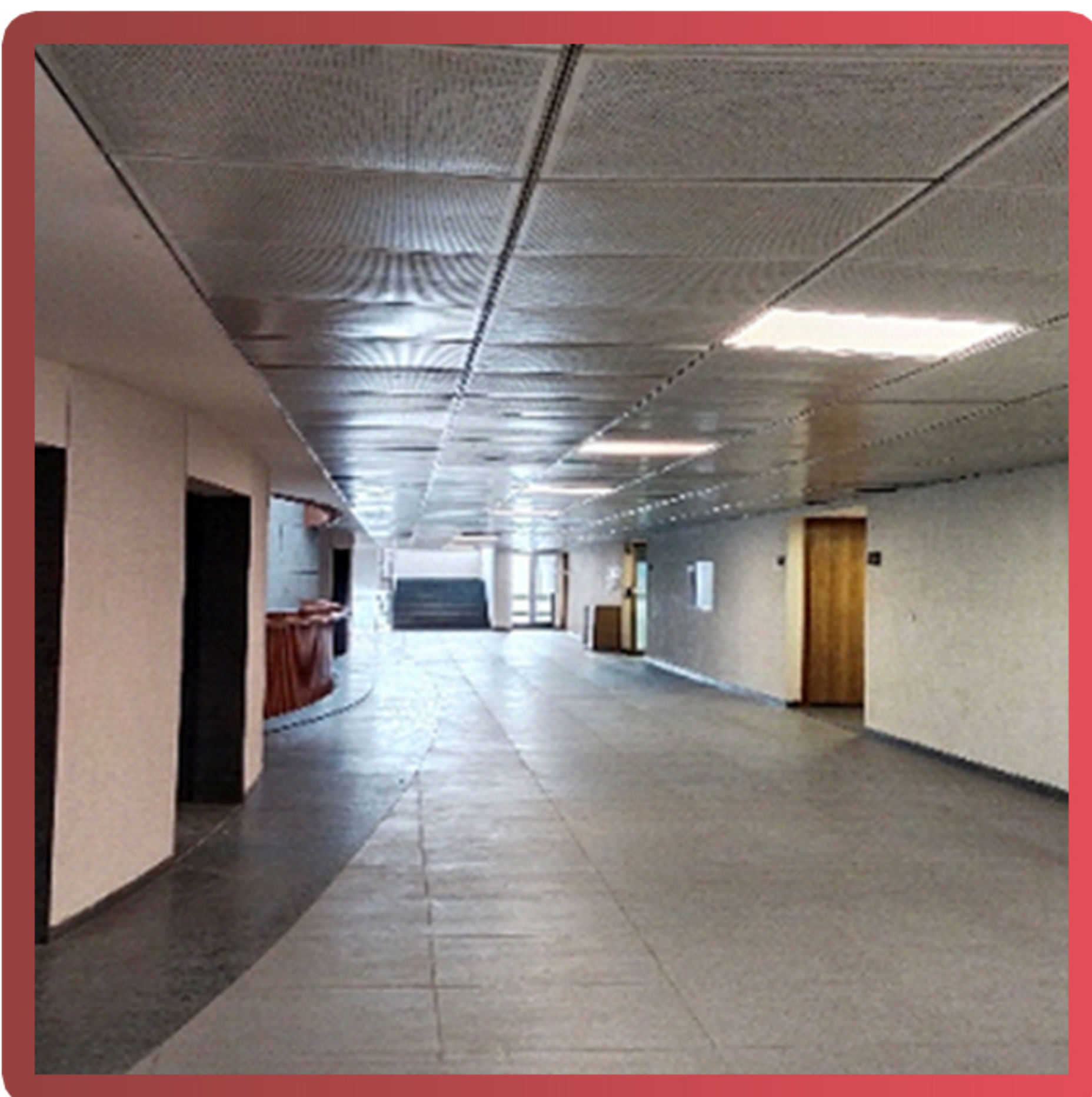


# Air Cooling System

Direct evaporative cooling is a creative application to cool industrial workspaces and bring down the workplace temperature to an optimum comfort level for better productivity and staff morale. Limited air circulation, hot machinery and a heat-retaining buildings are often creating stifling and uncomfortable conditions for factory workers.

# Textile Waste Collection System

Require waste collection system for recover waste and reate clean environment. Waste collection systems are designed for minimum system resistance for effectively conveying the waste up to the filters/compactors. Continuous and intermitted systems are designed as per machine suitability.



# Pressurization System

The intended function of pressurization systems is to provide protection to entering dust and heat from outside to department. Due to the positive pressure created in department by the fan, the outside dust, odour and heat are not able to enter in department. A system which ensures the provide comfortable (Pressurization) atmosphere in department.

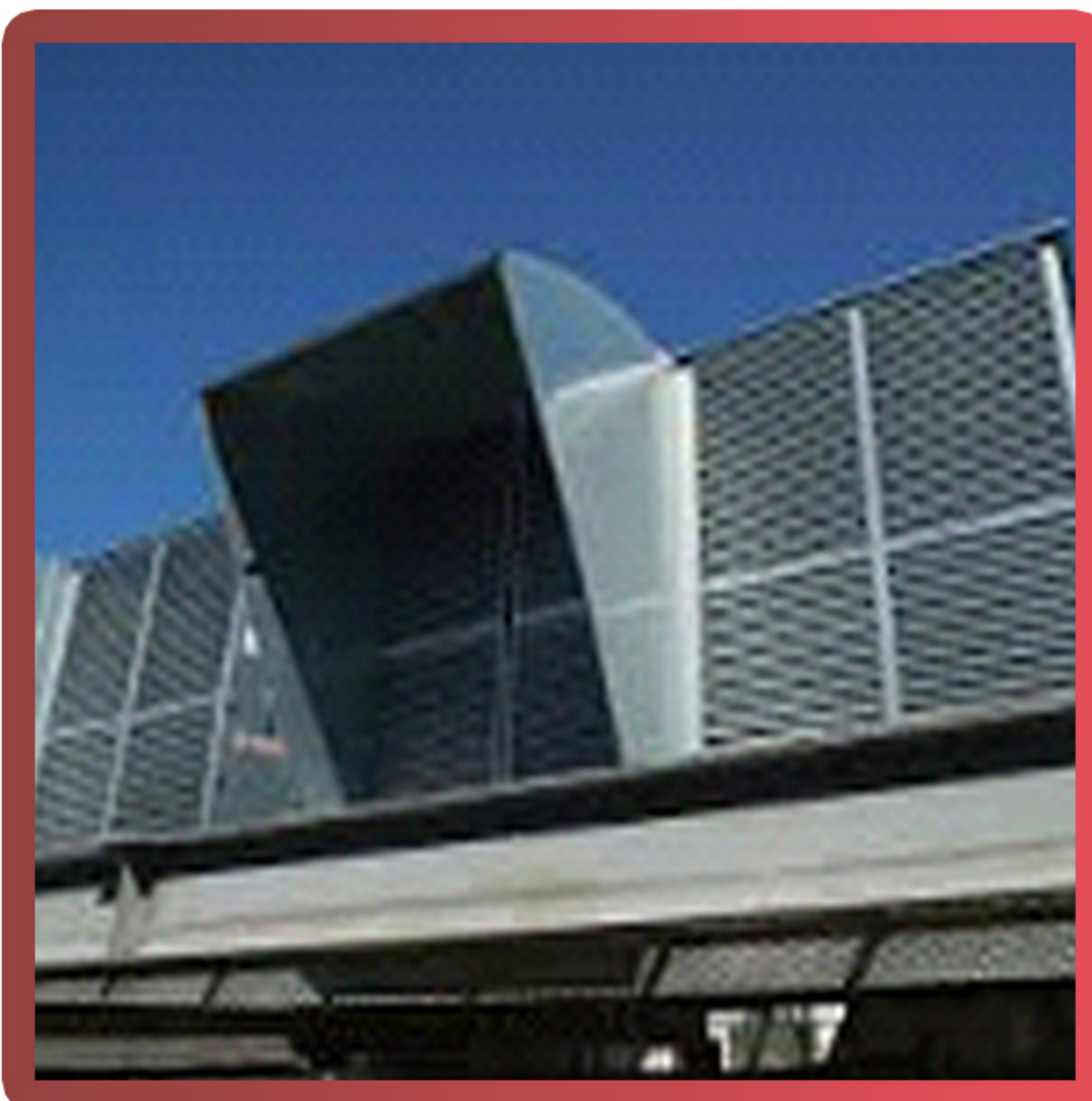
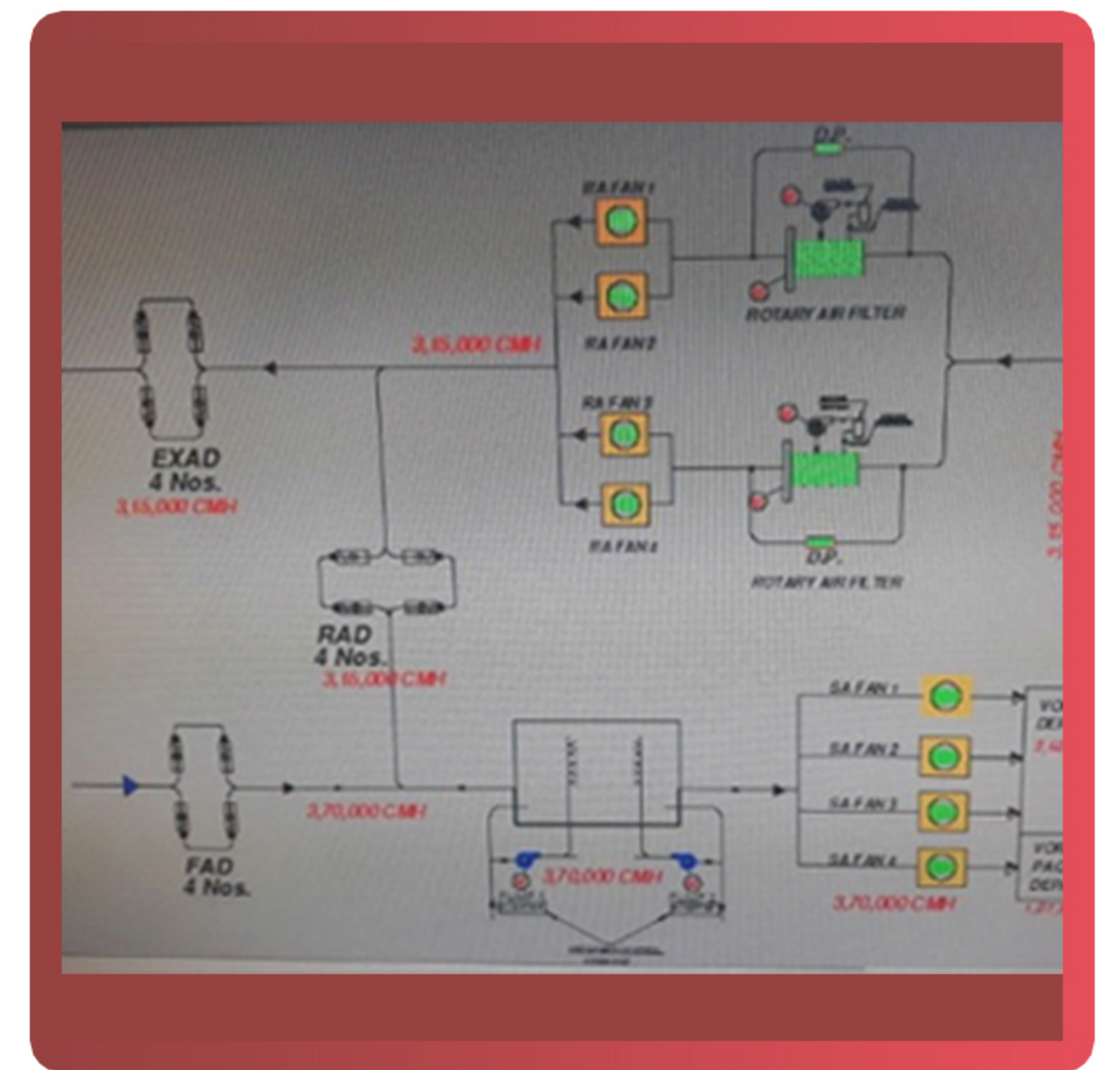
# Fume Extraction System

A fume (Hazard Gas Exhaust) extractor is a system that utilizes a negative draft of fan to pull fumes and dust particles in to a contained filtration system. This process removes hazardous particles from the air. Fume extraction systems are used fans to pull dust, toxic fumes and other harmful particles into a contained filtration system.



# Auto Control System

All Humidification plants are designed to maintain the humidity and temperature levels with specified tolerances. The main aim of such an auto control system is to maintain the humidity and temperature within specified tolerances. Automatic control systems are used to control temperature and humidity with a central monitoring system by using sensors, controllers, and other components.



## Filtration System

The process in which solid particles in air are removed by the use of a filter medium that permits the air to pass through but retains the solid particles. Filtration is technically defined as the process of separating suspended solid matter from air, by causing the latter to pass clean air through the pores of a filter.

## Pneumatic Conveying System

Pneumatic conveying system is a simple technology by which bulk material in the form of granules or powder is transported through an enclosed conveying pipe, by using pressure differential and flow of air/fluid which is generated by an air/fluid movement device such as a Fan (Pump/Roots Blower/Compressor).



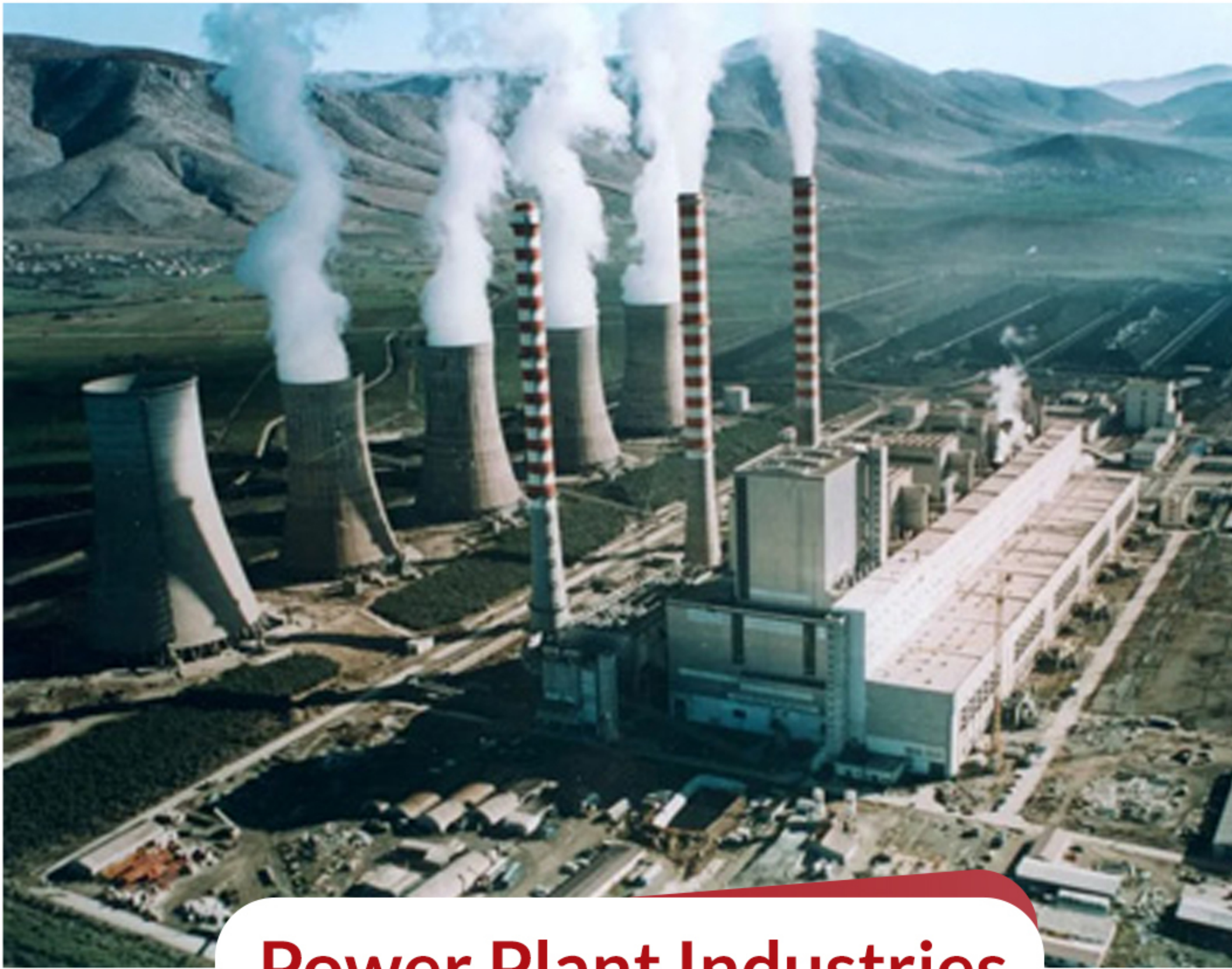
# Industry We Serve



**Textile Industries**



**Cement Industries**



**Power Plant Industries**



**Food Industries**



**Packing Industries**



**Non Textile Industries**



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## Reach Out To Us



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