



**PACK PLAST**

**BROCHURE**

**2020**

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# ABOUT US



## **PACK PLAST**

**AIR ENGINEERING - SIMPLIFIED**

### **KNOW US BETTER**

## **ABOUT PACK PLAST**

Pack Plast®, was founded in the year 1974 by our Founder Chairman Mr. Atul Shourie.

A humble but strong beginning saw commencement of production in the year 1975 in a record period of almost one year only. Mr. Shourie gave three most important words that were to set the benchmark for years to come: Quality, Accuracy and Service.

The mission had been set.

“To achieve complete Customer Satisfaction by reaching an impeccable balance between Accuracy, Quality and Service.”

Since then everyone associated with Pack Plast® has been striving to fulfill the mission statement in every step they take.

Today Pack Plast® boasts of numerous successfully completed projects. A Customer List that ranges from the Best in the Textile Industry to Powers Stations, from Hotels to Warehouses and from Defense to Research Labs. Every possible industry has been touched and satisfied.

# MISSION

To achieve complete Customer Satisfaction  
by reaching an impeccable balance between  
Accuracy, Quality and Service.



# VISION

To be a Pioneer & Global Market Leader in  
Energy Efficient Air Engineering Solutions for  
Every Industry & Usage

# FOUNDER & C.E.O



**MR. ATUL SHOURIE**  
**B. TECH. (ELECTRICAL)**

## ABOUT THE CEO

Mr. Atul Shourie, Founder and Chairman of Pack Plast®, is a B. Tech. (Electrical) graduate from N.I.T., Suratkhil.

An entrepreneur from the word go he got into the stream of doing business from his early days of Middle School in Mumbai wherein he used to sell Furniture from one part of town to the other to make a few extra bucks for his pocket money.

He founded Pack Plast in the year 1974 in the industrial town of Kota and eventually settled in Kota itself.

With over 40 years of experience, he is the back bone of Pack Plast® and the spear head in completing many prestigious R&D projects for Department of Atomic Energy. He also heads the Research and Development department of Pack Plast.

# TEAM MEMBERS



## **MR. ANUJ SHOURIE** **B.E. (COMP. SC.) ,** **MEMBER OF ASHRAE**

HEAD - DESIGN, ENGINEERING &  
PRODUCTION

A graduate in B.E.  
(Computer Science) he heads the  
Design, Engineering & Production  
Departments of Pack Plast®.

An expert in 3D CAD, he has an experience of over a decade under his belt. One of the many feather in his cap include a Department of Atomic Energy Project – Heavy Water at Rawatbhata which was entirely Automated and PLC Controlled with no Human Interference.



## **MR. SAURABH SHOURIE** **BBA (MKT), MBA (FIN.)** **FOUNDER CHAIR OF YI KOTA CHAPTER**

HEAD – BUSINESS DEVELOPMENT, FINANCE  
AND HR

A dual MBA in Marketing & Finance,  
he heads the Business Development,  
Finance & HR Departments of Pack  
Plast®

His passion for reading has lead him to inculcate many new ideas and work methodologies in Pack Plast® He has been responsible in getting Pack Plast® registered with most of the leading Government of India Organizations and starting offices outside India.



## **MR. ID KHEMCHANDANI**

HEAD – AUTOMATION AND BMS

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With 50 years of work experience under his belt – working with companies like JK Synthetics and Shriram Rayons, he is an inseparable asset to Pack Plast®

An expert in Electronics, Communications and Instrumentations with an advance Diploma in Management and HR Specialization, he heads the BMS and Automation Department of Pack Plast®



## **MR. S. K. MUKHERJEE**

HEAD - PROJECT COORDINATION

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With an experience of over 35 years behind him he is an expert in Mechanical Engineering and Project Management. After working with Instrumentation Ltd. – a Gov. of India Company, he joined Pack Plast® as a Project Coordinator only to head the department in a short period of 3 years. He is the bridge between client and our organization for smooth functioning of project from Documentation to Completion.



## **MR. RAMASHANKAR**

D.G.M. – (C)

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Starting his career with Pack Plast® he has an integral part of our team for over 20 years. Expert in handling Financial and Statutory Compliances, he has been instrumental in achieving the smooth working of the organization fully complying with all Statutory Requirements.



Starting his career with Pack Plast® he has been a part of the core team for over 15 years. Been on the ground level of procurement, his rise in the organization was backed by his dedication and commitment towards the betterment of the organization. Vendor Development has been forte since the beginning.

## **MR. MAHENDRA SINGH NATHAWAT**

MANAGER – PURCHASE

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## **PROMINENT TEAM MEMBERS**

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**MR. BHIM RAJ SAHU**



**MR. MOHIT CHITTORA**



**MR. ANKIT VIJAY**



**MR. JAVED KHAN**



**MR. AFTAB ANSARI**

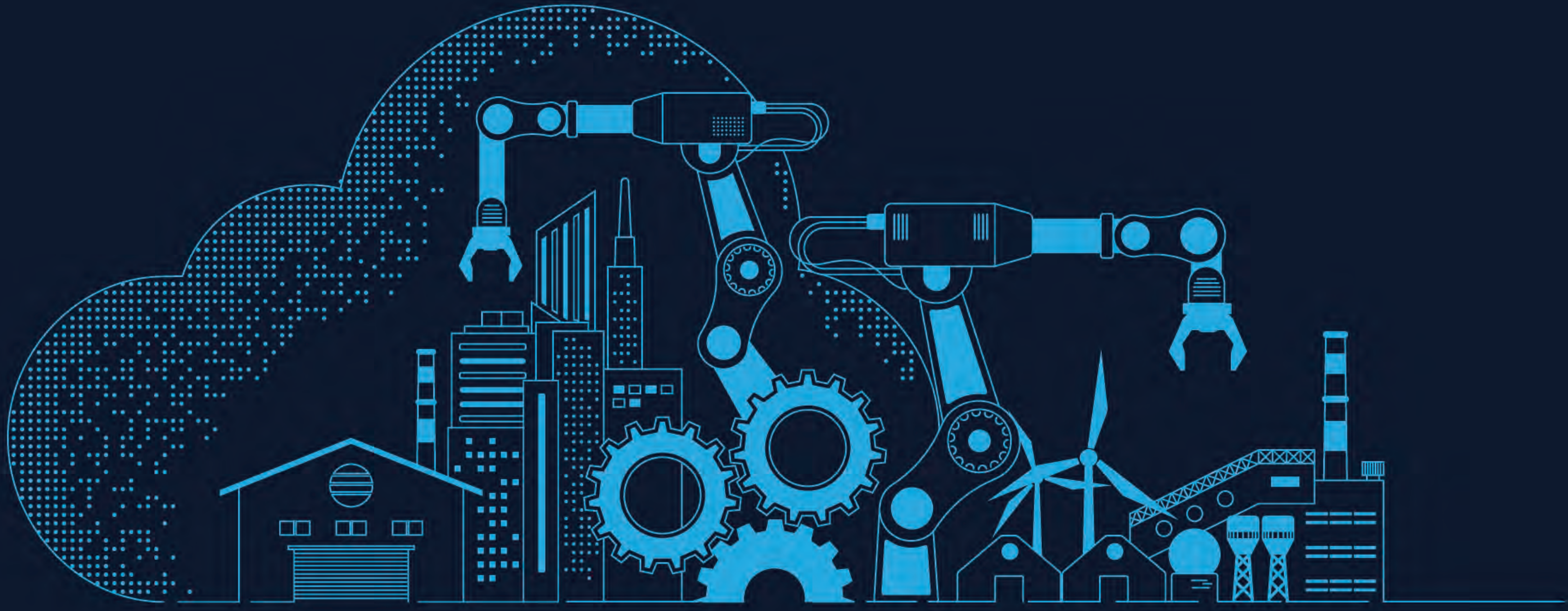


**MR. SHRIKRISHNA MAHADEV  
GANTHADE**



**MR. DEBASIS SAHOO**





# INFRASTRUCTURE

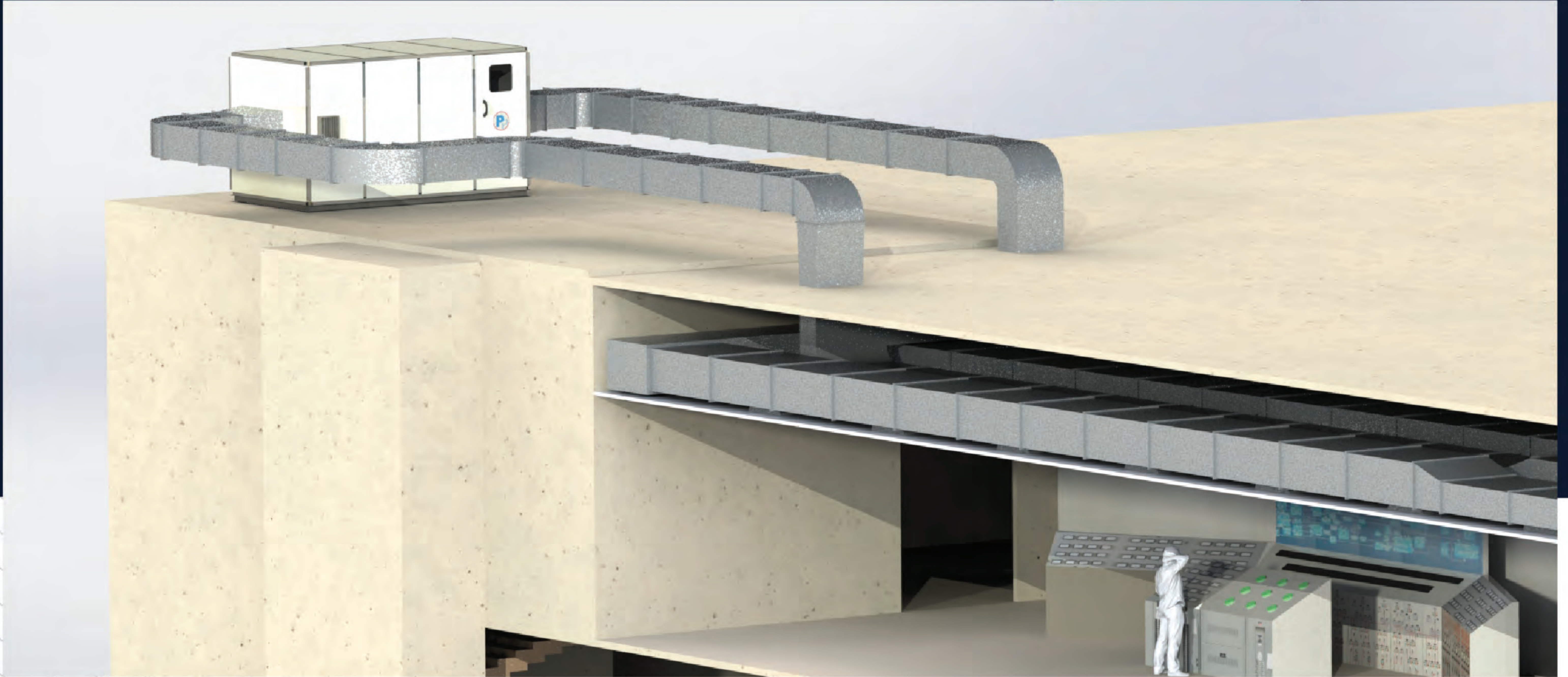
- 20,000 ft.<sup>2</sup> of Manufacturing Unit in Rajasthan
- New Manufacturing Unit coming up in Maharashtra
- State of the Art A.H.U. Manufacturing Machinery
- State of the Art Blower Manufacturing Machinery
- Automated Rectangular & Spiral Duct Line
- Automated Spiral Duct Line
- Impeller Balancing Machinery
- Finest On – Site Machinery
- Best in the Industry Testing Equipment
- Offices in 4 cities in 2 countries

# SOLUTIONS ON OFFER



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# AIR CONDITIONING SYSTEM



Air Conditioning System, as the name suggests is a system which is used to condition the Ambient Air to the desired Temperature and Humidity using mechanical energy.

This kind of system basically involves using high energy inputs to decrease the ambient air to below natural threshold of ambient conditions and going below the Wet Bulb Temperature – WBT.

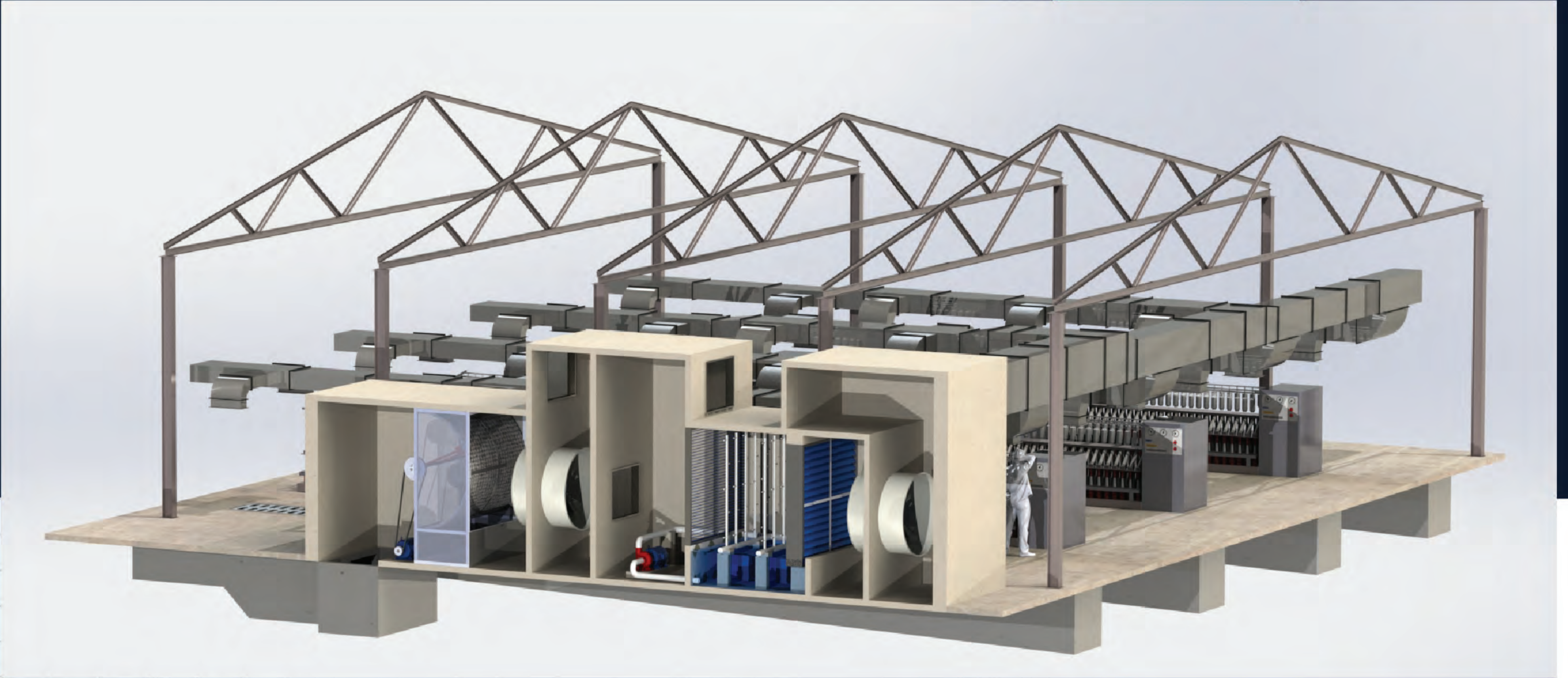
Lowering of Temperature to a targeted temperature below the ambient WBT is the Goal when such systems are used.

Solution provided here use equipment like Chillers and Compressor driven products like Ductable ACs and VRFs.

Such Solutions are provided to areas/establishments like:

- 1.Power Panel & Control Rooms
- 2.Hotels
- 3.Corporate Offices
- 4.Malls
- 5.Showrooms etc.

# AIR HUMIDIFICATION SYSTEM



Air Humidification System is a system wherein Air is to be conditioned with primary consideration on levels of Relative Humidity (RH) in Department/Targeted Area.

Maintaining of RH along with Temperature is the Goal here.

The system essentially is dependent on the concept of Evaporative Cooling. Air with low RH is passed through Spray Chamber having water at WBT No change in Enthalpy is [wet bulb temperature] envisaged. To control the system Fresh Air, Return Air and Exhaust Air Dampers are provided. The temperature in department will always remain above WBT.

Following Industries require these Systems:

1. Textile Industries
2. Tobacco
3. Bakeries
4. Fruit Vegetable Storage
5. Breweries
6. Paper Industries

# AIR EXHAUST SYSTEM



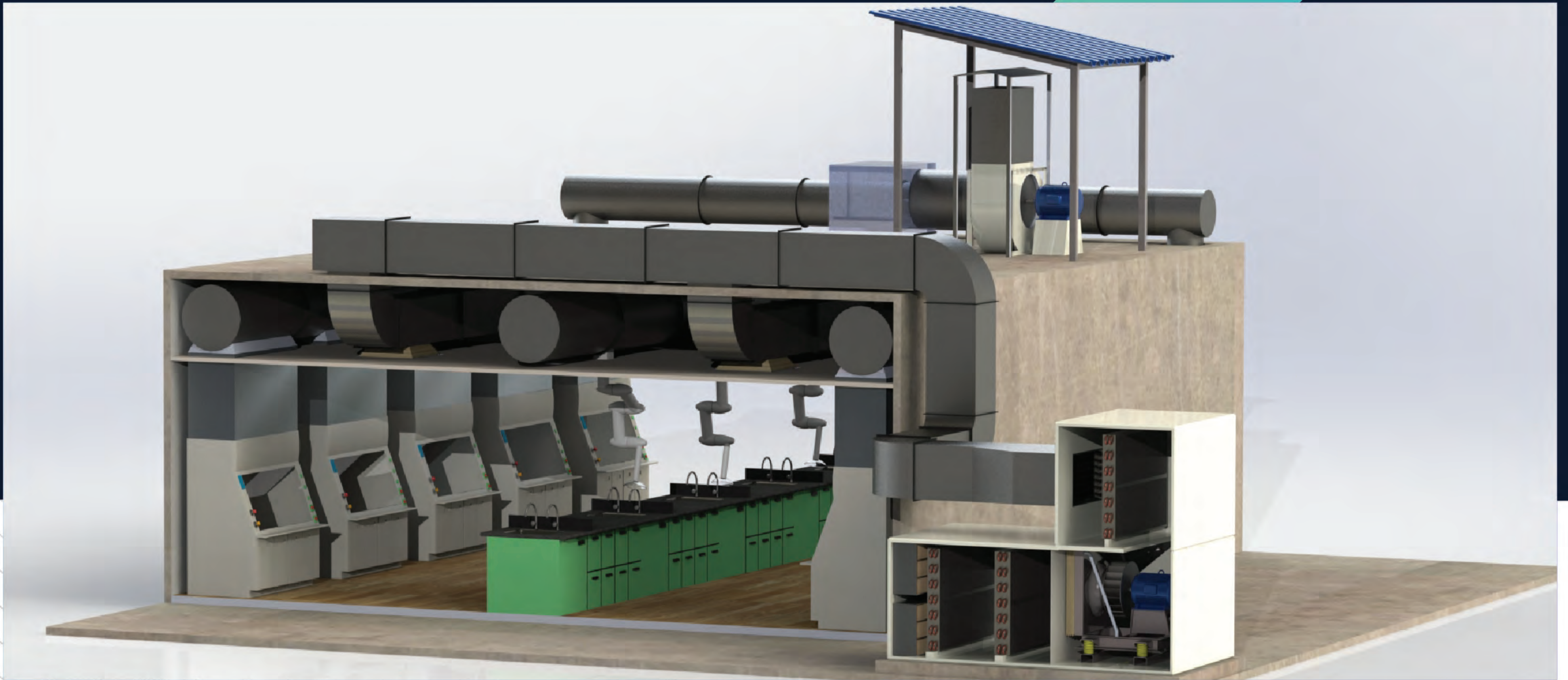
Air Exhaust System is a system that is used to exhaust/fume – out Stagnant Air from the Targeted Areas. Air Exhaust is a must in areas like Cable cellars. Stagnant air can cause harm to plant and machinery along with other inputs like Cables and Wires.

Exhaust of Stagnant Air is the main Goal when such systems are used.

Such Solutions are provided to areas/establishments like:

1. Cable Cellars
2. Large Attics
3. Un Manned Ware Houses
4. Chemical Industry
5. Fertilizer Industry

# AIR DECONTAMINATION SYSTEM



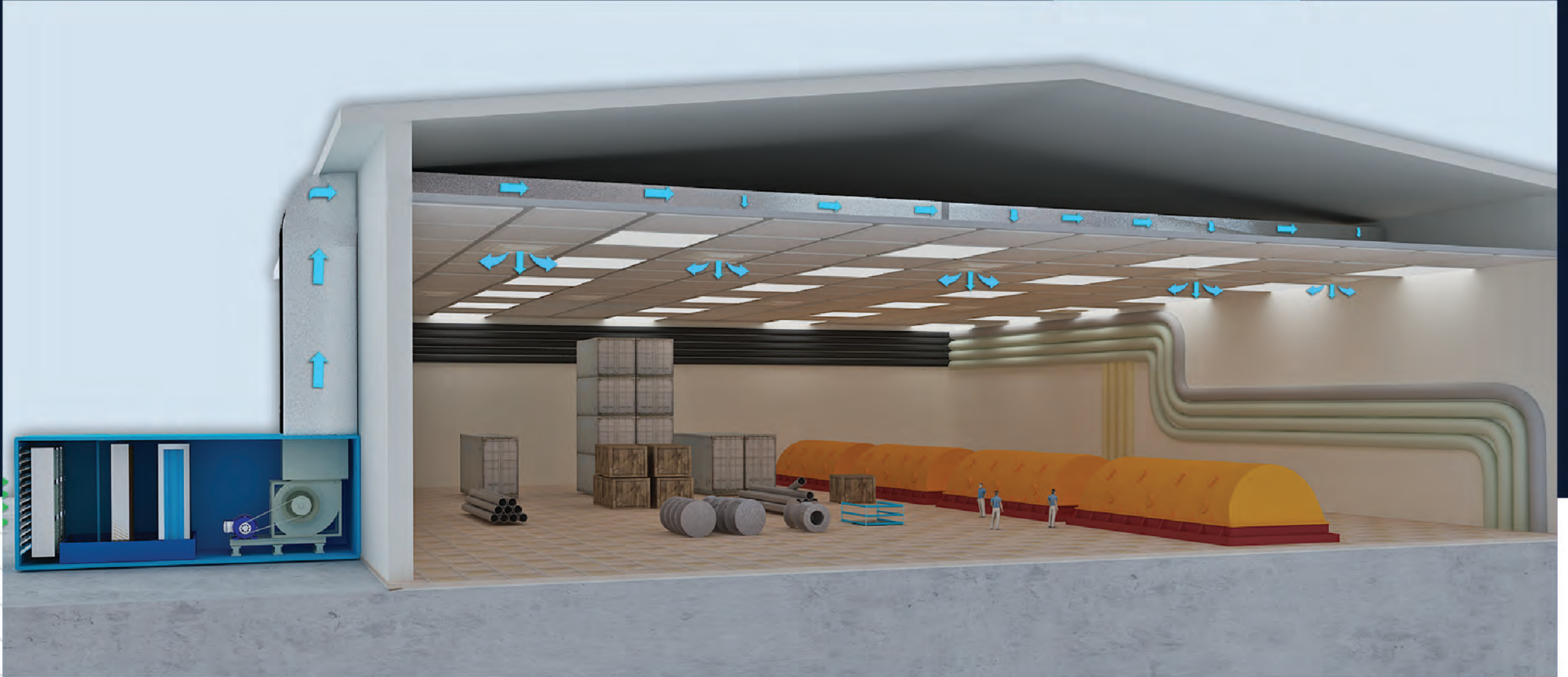
Air Decontamination System is a system that used to decontaminate or purify the air. The Outgoing Air from the contaminated area is cleaned to the desired levels, which can then be either left in the open environment or re – introduced into the desired area. In both cases, Purification of Air is main purpose behind the system.

Cleaning of Air as per standards/requirements is the Goal when such systems are used.

Such Solutions are provided to areas/establishments like:

1. Manufacturing Factories – where by product gases develop like Rayon etc.
2. Chemical Industry
3. Fertilizer Industry
4. Research Labs
5. Bio Hazardous Storage Units etc.

# EVAPORATIVE AIR COOLING SYSTEM



Evaporative Air Cooling System or simply known as Air Cooling System is a system that use the evaporation of water to cool the incoming air temperature and serve the targeted area with the Cooled Air.

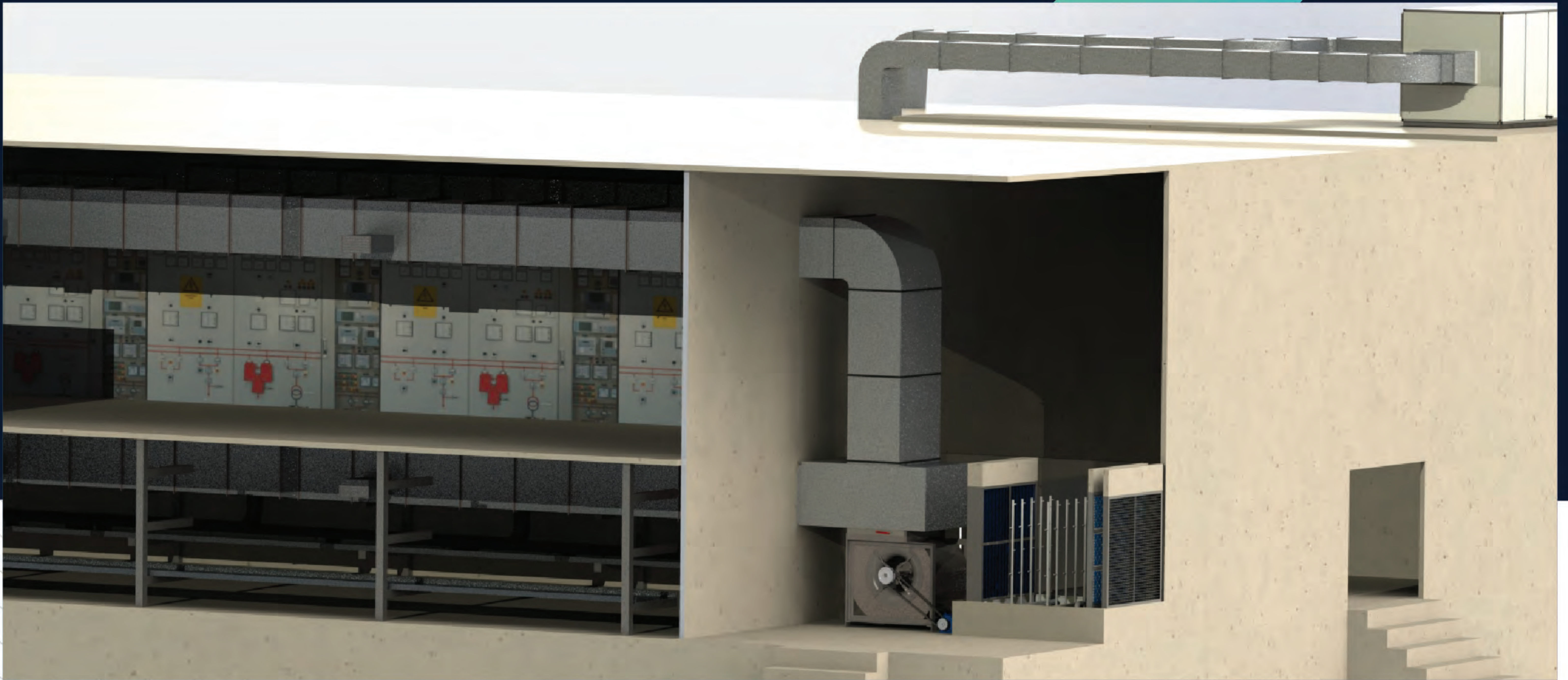
This system absorbs medium amounts of energy inputs as the temperature can be decreased to about +4 Deg. C. of WBT.

Lowering of Temperature for Human or Mechanical comfort is the Goal when such systems are used.

Such Solutions are provided to areas/establishments like:

1. Power Plants – Turbine Halls etc.
2. Large Manufacturing Units
3. Warehouses

# AIR VENTILATION SYSTEM



Air Ventilation is one of the primary requirements in almost all industries such as Chemical, manufacturing and Power or other similar category industries. Ventilation may also be required for other area based on needed nature.

Proper ventilation may only be achieved through properly designed Air Ventilation System (Forced Draft Ventilation System) so that the need is fulfilled with reasonable minimum capital as well running expenses.

Basic purpose of Air Ventilation System is Movement of Air.

Air Ventilation is sometimes not given the due importance and the result is low production and hazardous working environment.

Mainly in the following process areas proper and well-balanced ventilation is indispensable:

1. Chemical
  2. Power Plants
  3. Paint & Varnishes Manufacturing
  4. Metal Finishing
  5. Casting
  6. Glass
  7. Forging
  8. Plastics
- and many more

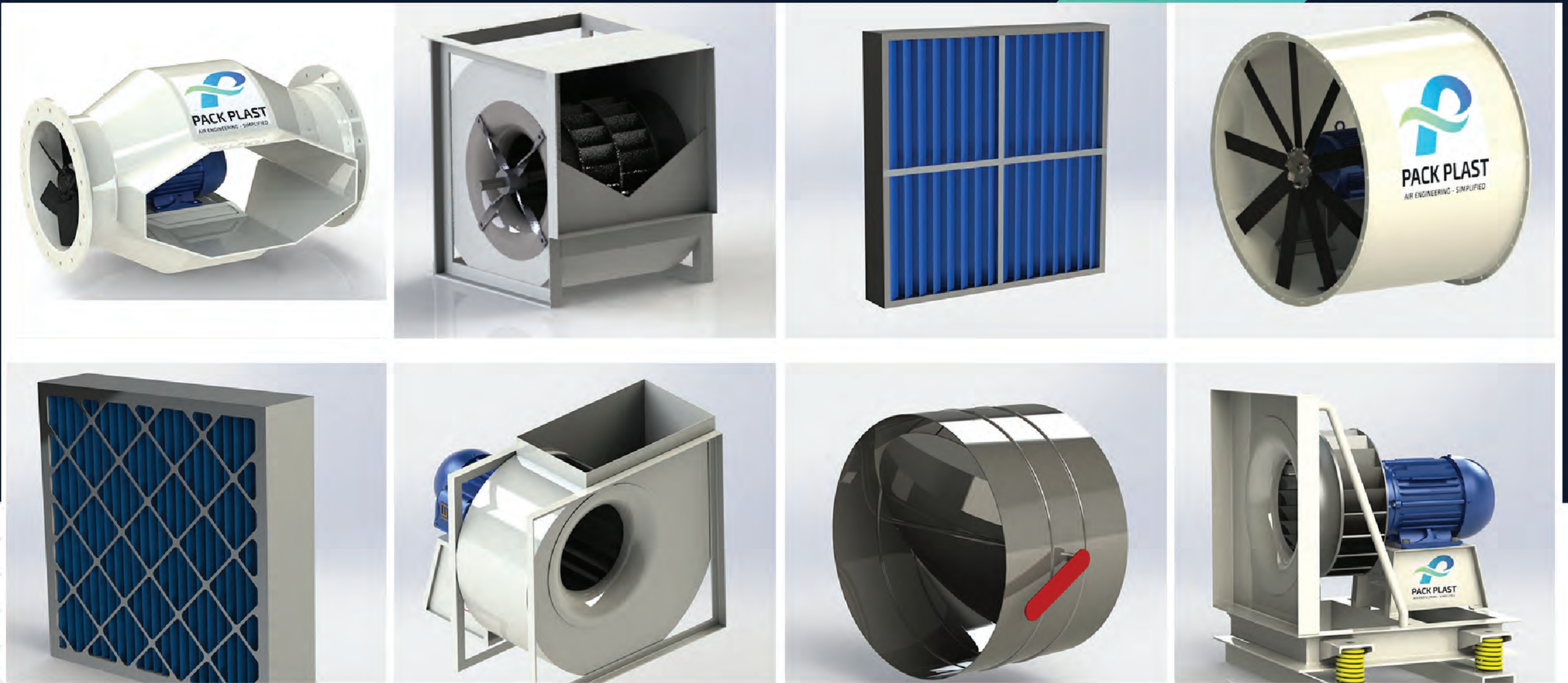


# OUR PRODUCTS



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# PRODUCTS



## **AIR DAMPERS:**

Air Dampers are used to control the flow of Air into and from air ducts, AHUs etc. and hence helps controlling the air quantity and distribution of the air in the targeted areas.

Type of Dampers on offer by Pack Plast include Volume Control, Back Draft, Fire and Smoke. MOC offered include Extruded Aluminum, PVC, PP FRP, GI and MS.

## **AIR DISTRIBUTION PRODUCTS:**

Air Distribution Products (ADPs) like Diffusers and Grills are used for proper distribution of air coming out of the Duct. ADPs serve dual purpose of Efficiency and Aesthetics.

Our range of ADPs include Diffusers, Grills, Spigots, Jet Nozzles and many more...

MOC offered include Extruded Aluminum, PVC, PP FRP, GI and MS

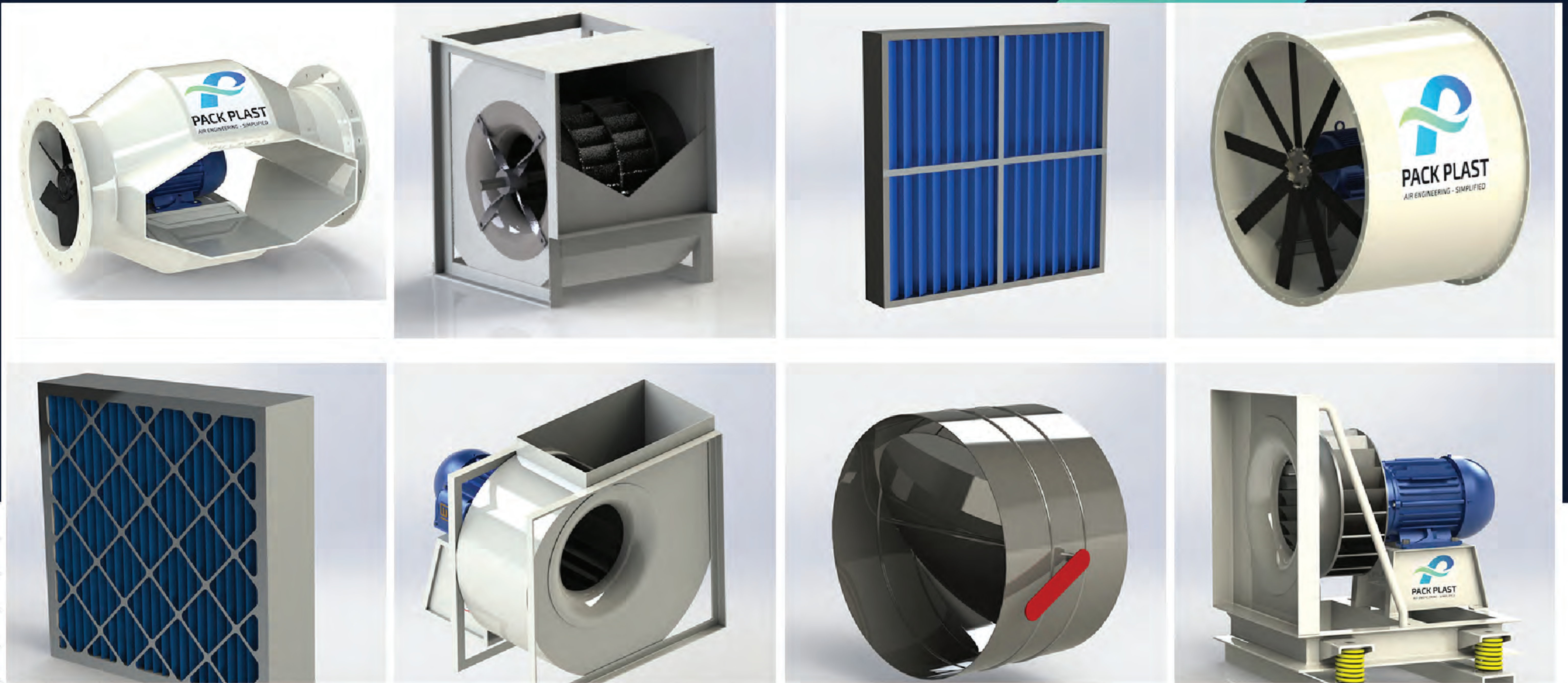
## **DUCTING:**

Air Duct is used to deliver air coming from the Air Engineering System across the targeted conditioned area.

We at Pack Plast have our in – house line of Rectangular, Spiral and Round Duct Manufacturing Lines – enabling us to complete largest of projects with greatest of ease.

MOC offered include GI, AI, MS, SS and PP FPR.

# PRODUCTS



## BLOWERS & FANS:

We manufacture all types of Blowers and Fans in various MOCs'. Our offered range is as under

| Description | Type                   | Range                   | MOC                    |
|-------------|------------------------|-------------------------|------------------------|
| Blower      | DIDW, SISW             | 2000 CMH to 200,000 CMH | MS, GI, SS, AI, PP FRP |
| Fans        | Axial Flow, Bifurcated | 2000 CMH to 200,000 CMH | MS, GI, SS, AI, PP FRP |
| Plug Fans   | Direct Driven          | 2000 CMH to 100,000 CMH | MS, GI, SS, AI, PP FRP |

## PVC MIST ELIMINATORS:

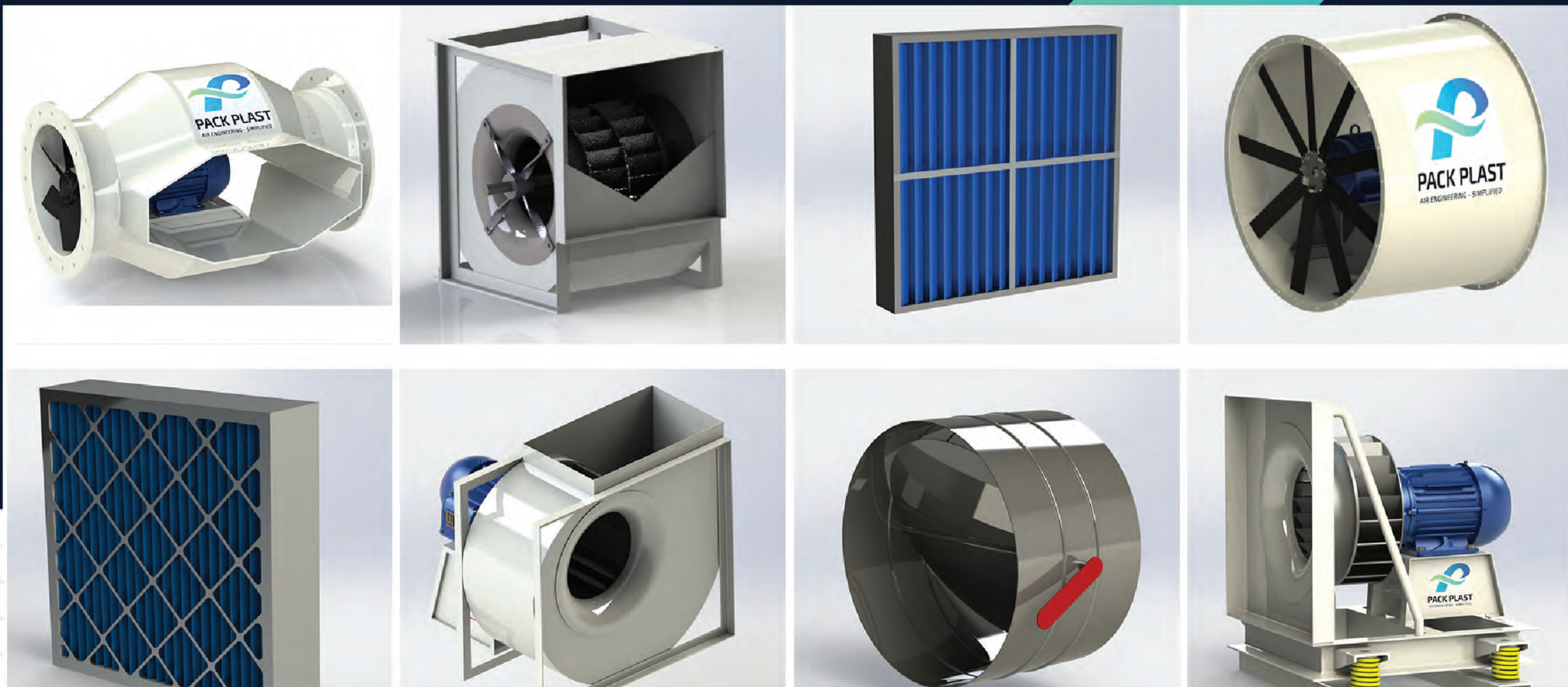
Introduced in India by Pack Plast, PVC Extruded Mist Eliminators are a must for all Humidification Systems and Evaporative Air Cooling Systems. They ensure screening of large droplets of water.

Type of PVC Mist Eliminators on offer include F – 4, F – 6, F – 8, F – 10 and F – 12

## PVC LOUVERS:

PVC Extruded Louvers – 'Z' type – are used at the back end of every Engineering System for proper distribution of incoming air into the system.

# PRODUCTS



## SYSTEM AUTOMATION:

We at Pack Plast provide complete System Automation vide BMS – Building Management Services and PLC – SCADA solutions to our clients. With a team lead by industry specialists, automation of any Air Engineering Solution is no challenge for us.

We offer end to end solutions under our System Automation range through tie ups with all leading industry automation brands.

## ELECTRIC PANELS:

We at Pack Plast offer MCC, PDB and Starter Panels to our clients. Our complete in – house manufacturing facility makes us One Stop Shop for all Electrical Panel requirements of our Clients.

## AIR FILTERS:

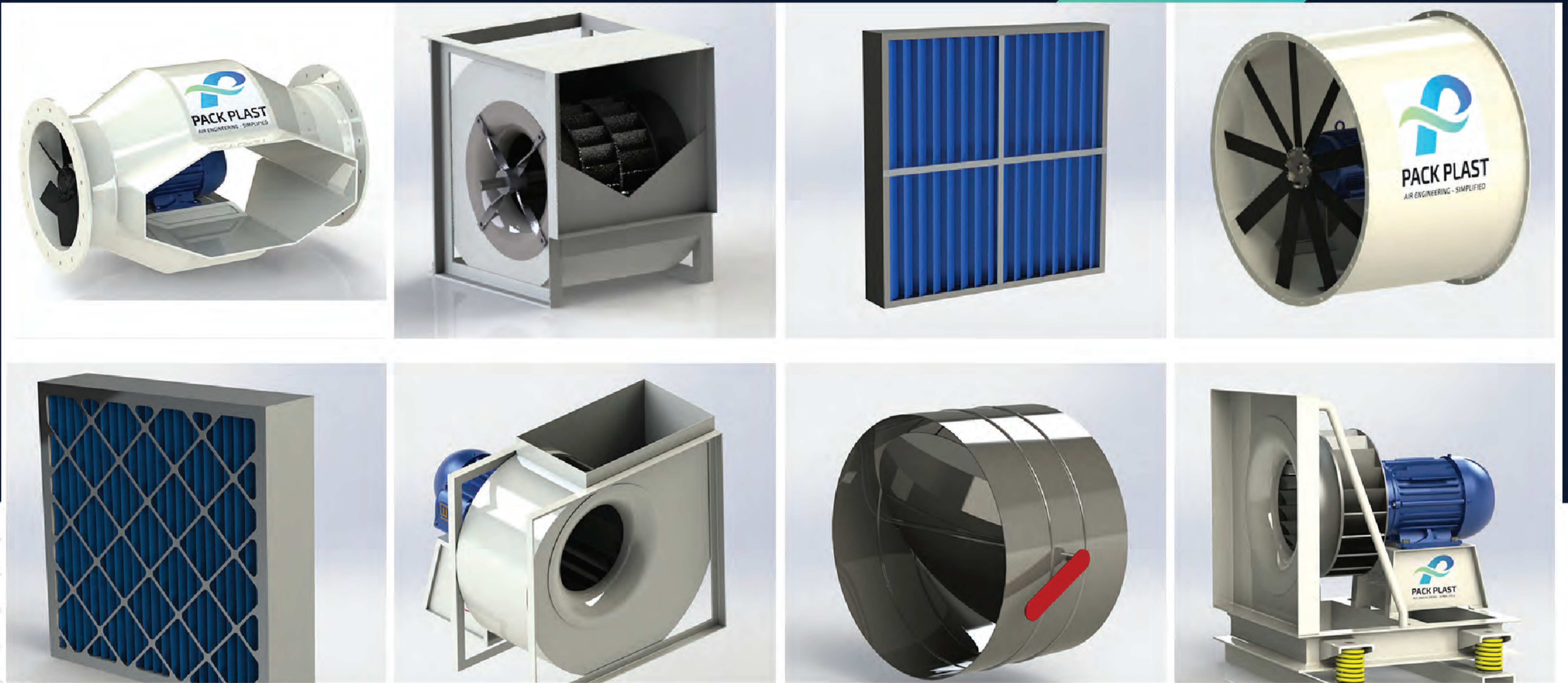
We at Pack Plast offer a wide range of Air Filters suiting every requirement and environmental challenges. We achieve purest air quality through our wide range of Air Filters products.

Types on Offer

-Pre, Fine, HEPA, Activate Carbon, Chemical, Auto Fluff Scrubber.

We are proud to state that Auto Fluff Scrubber, must for every Textile Unit is a Patented Product developed by our in – house R&D team

# PRODUCTS



## SMART AIR HANDLING UNITS:

We at Pack Plast offer SMART Air Handling Units or S – AHUs. They are systems used to introduce conditioned Air into the desired locations. The AHUs can be connected to outdoor units varying from DX to Chilled Water Systems. They are primarily used within Air Conditioning Solutions.

### TYPES OF S-AHUS OFFERED :

Single/Double Height, TFA, 100% OA, Dessicant/HRW

Our offered range of AHUs - 2000 CMH to 150,000 CMH

Our S – AHUs are all 'Plug and Play' Type requiring only Power Connection and are Ready to Go.

## SMART EVAPORATIVE COOLING UNITS:

We at Pack Plast have developed SMART Evaporative Cooling Units or S – ECUs. With built in Automation our offered S – ECUs are a great fit for client's cooling needs for large areas like Manufacturing Units and populated Warehouses.

### TYPES OF S-ECUS OFFERED :

-Direct, Direct/Indirect – Two Stage and Indirect

Our offered range of S-ECUs - 2000 CMH to 250,000 CMH

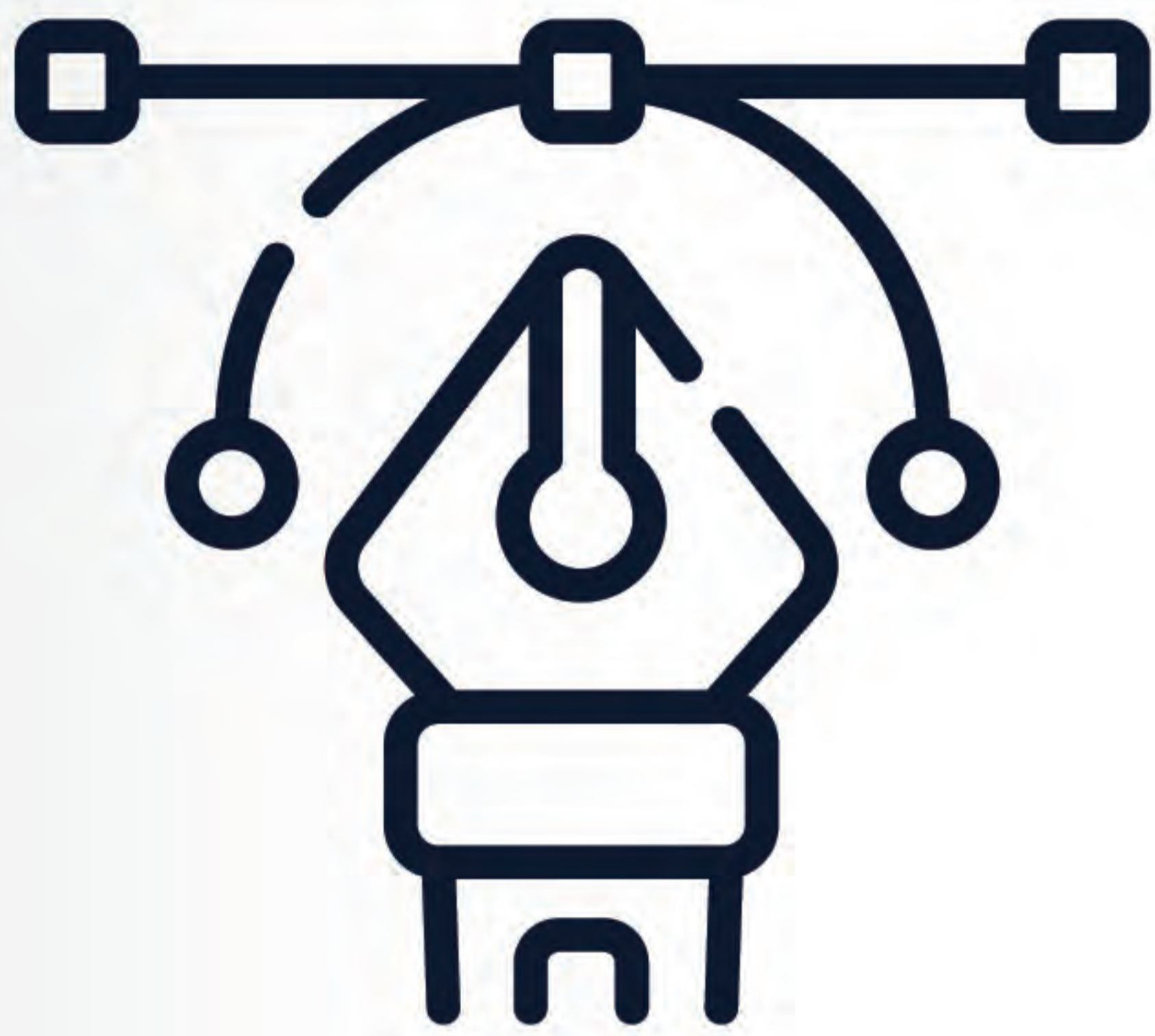
Our S – ECUs are all 'Plug and Play' Type requiring only Power Connection and are Ready to Go.

# SERVICES



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# SERVICES



## DESIGN CONSULTANCY

With a staff of over 30 Engineers and Designers, headed by, PhD Holders in HVAC, we at Pack Plast®, form a formidable team, dextrous & able enough to solve any problem thrown at us.

We help clients design the most suited Energy Efficient Air Engineering Solutions and provide them with:

1. Detailed Calculations
2. Detailed Drawings
3. BOQ & Detailed Input List
4. Qualified Vendor List
5. Project Planning & Time Line Scheduling

Unlike others, we take complete onus of achieving the targeted conditions.

# SERVICES



## ENERGY CONSERVATION CONSULTANCY

Today, as awareness grows, more and more Industries are opting of Energy Efficient Systems.

We at Pack Plast®, offer Energy Conservation Consultancy, related to all Air Engineering & HVAC Systems.

We do through study of client's existing set up and provide them with:

1. In Dept Analysis & Calculations
2. Suggestions & Solutions to Improve on Existing Systems
3. BOQ & Input Changes required to achieve Maximum Energy Savings
4. Pay – back Calculations of the investment done to save Energy

We can arrange to provide Green Building Certifications, if desired by clients.

And as always, we take full onus of the work done to achieve desired targets.



# SERVICES



## DRAWING SUPPORT

We at Pack Plast®, provide complete Drawing support to our clients by providing complete details engineering drawings both Pre Launch of Project and Post Project completion.

This basically means our clients get detailed drawings prior to the start of the project and also detailed “As Built” Drawings post the completion of project.

This support includes:

1. Co – ordination with PMC/Consultant/Architects
2. Pre – Project visits
3. Visits during the project execution
4. Post Completion visits to rectify the drawing for any changes as per site conditions.

# PRESTIGIOUS PROJECTS



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# PRESTIGIOUS PROJECTS



CLIENT:

**PI INDUSTRIES**

SOLUTION PROVIDED:

**H.V.A.C.**

 **UDAIPUR**



CLIENT:

**SPCPL - EMERSON**

SOLUTION PROVIDED:

**SMART E.C.U. & H.V.A.C**

 **PUNE**

# PRESTIGIOUS PROJECTS



CLIENT:

**CTX LIFE SCIENCES**

SOLUTION PROVIDED:

**2-STAGE E.C.U.**

 **SURAT**



CLIENT:

**PI INDUSTRIES**

SOLUTION PROVIDED:

**H.V.A.C**

 **JAMBUSAR**

# CLIENTS & TESTIMONIALS



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# CLIENTS

YOU HAVE HELPED US GROW



C H E N A B  
T E X T I L E M I L L S



Chemical Fertilisers  
and Chemicals Limited



Inspired by Science



B K BIRLA GROUP OF COMPANIES

Birla Textile Mills   
(Prop. Chambal Fertilisers and Chemicals Ltd.)



# CLIENTS

YOU HAVE HELPED US GROW



Nahar



LARSEN & TOUBRO



EMERSON



Shapoorji Pallonji



NALCO



हि ए लि  
HAL



राष्ट्र की सेवा में परमाणु  
प ऊ वि  
DAE  
ATOMS IN THE SERVICE OF THE NATION



NPCIL



sutlej  
textiles and industries limited



RSWM Limited  
an LNJ Bhilwara Group Company



Vardhman

# TESTIMONIALS



## MR. SHANTANU V. GUPTÉ

**General Manager – Projects at Toyo Engineering India Private Limited**

Pack Plast has satisfactorily executed our project at CFCL, Gadepan. We wish them all the best for future projects.

## MR. PRAMOD RAJORIA

**Head – Planning and Coordination at PI Industries Ltd.**

We are quite satisfied with the HVAC work done by M/s Pack Plast for our three sites. We are extremely happy with Timely Completion and After Sales Service of HVAC work by Pack Plast for these projects



## MR. DEBASHIS MOHANTY

**SENIOR MANAGER (ELECTRICAL) at NALCO,**

We found the working and solutions provided by M/S PACKPLAST very satisfactory. The approach of the party for execution of project is phenomenal and their after sales service is also praiseworthy. The conduct & cooperation of the party is very much cordial. We wish them well for all future projects.

## MR. HIMANSHU AGRAWAL

**General Manager at Century Rayon**

We are happy with the solutions & products provided by Pack Plast. We wish them all the best for their future endeavors.



## MR. KANAK J. JARIWALA

**Managing Director at CTX Lifesciences**

We are happy with the Solution provided by Pack Plast at our unit in Surat. We wish them good luck for future projects



**STANDARDS  
FOLLOWED**



**PACK PLAST**  
AIR ENGINEERING - SIMPLIFIED

# MANUFACTURING

STANDARD CODE

FOLLOWED FOR

|                       |  |
|-----------------------|--|
| <b>IS 10470</b>       | <b>Air Cooled Heat Exchanger</b>                             |
| <b>ARI 430</b>        | <b>Air Handling Units</b>                                    |
| <b>ASME Sec. VIII</b> | <b>Boiler &amp; Pressure Vessel Code</b>                     |
| <b>IS 1554</b>        | <b>Control Cables</b>  |
| <b>IS 778</b>         | <b>Copper Alloy Gate, Globe And Check Valves</b>             |
| <b>IS 78969</b>       | <b>Data For Outside Conditions For Air Conditioning</b>      |
| <b>IS 3588</b>        | <b>Electrical Axial Fans</b>                                 |
| <b>IS 4671</b>        | <b>Expanded Polystyrene For Thermal Insulation</b>           |
| <b>UL 555</b>         | <b>Fire Dampers</b>  |
| <b>ARI 410</b>        | <b>Forced Circulation Air Cooling And Air Heating Coils</b>  |
| <b>ASRAE 30</b>       | <b>Liquid Chilling Plant</b>                                 |
| <b>IS 4237</b>        | <b>MCC</b>   |
| <b>ASHRAE 15</b>      | <b>Mechanical Refrigeration</b>                              |
| <b>IS 655</b>         | <b>Metal Air Ducts</b>                                       |
| <b>IS 3677</b>        | <b>Mineral Wool For Thermal Insulation</b>                   |
| <b>IS 6875</b>        | <b>PB Stations</b>   |
| <b>IS7089</b>         | <b>Power cables</b>  |
| <b>IS 11304</b>       | <b>Practice For Control of Air</b>                           |
| <b>IS 2312</b>        | <b>Propeller Type AC Ventilation Fans</b>                    |
| <b>IS 11327</b>       | <b>Refrigerants Condensing Units</b>                         |
| <b>IS 3963</b>        | <b>Roof Extractor Units</b>                                  |
| <b>SMACNA</b>         | <b>Sheet Metal &amp; Fabrication</b>                         |
| <b>IS 1239</b>        | <b>Steel Tubes, Tubular And Other Wrought Steel Fittings</b> |
| <b>IS 875</b>         | <b>Structural Design</b>                                     |
| <b>ARI 550</b>        | <b>Water Chilling Package Units</b>                          |

# TESTING

STANDARD CODE

FOLLOWED FOR

**ISD 4894**

**Centrifugal Fans**

**IS 277**

**Galvanized Steel Sheets**

**IS 7613**

**Panel Type Air Filter**

**IS 325**

**Three Phase Induction Motor**

**ASME Sec IX**

**Welding & Brazing Qualifications**

**IS 822**

**Procedure For Inspection of Welds**

**IS 2062**

**Hot Rolled Low, Medium & High Tensile Structural Steel**

**ASME Sec II**

**Materials And Specification**

**ASME Sec V**

**Non-Destructive Examination**

# GET IN TOUCH



[info@packplast.com](mailto:info@packplast.com)



+91 980 981 95 95



Pack Plast Industries  
F - 198, I.P.I.A.  
Kota - 32005  
Rajasthan, INDIA

Other Locations Include:  
Pune  
Vadodara  
Dubai



[www.packplast.com](http://www.packplast.com)



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