

# Solution Systems... Environmental Control & Precision Air Conditioning



## About AVPL



Advance Ventilation Pvt. Limited is a complete HVAC project engineering company; and thereby is implementing Humidification, Ventilation; and Air conditioning solution systems in the Oil Refineries; Petro-chemical products complexes; Oil and Gas plants, and large capacity Hydro, Thermal & Nuclear Power generation plants.

We are the specialist in this field of application engineering; and our working strategy is of concept to commissioning. AVPL has designed and manufactured many Environmental. Control systems and engineering solution systems for most of the typical problems in the Industry.

We; the Advance Ventilation Pvt. Limited; work on to the principles of Science and Environmental control systems is virtually a complete and success system.

We have our own design and manufacturing facility for Industrial air handling fans / blowers. We are manufacturing lot many variants of Industrial Air Handling Fans. The Axial flow fans are made by us in 2-stage (Reversible) Axial flow fans.

The rotary assembly of centrifugal and Axial flow fans is balanced Dynamically for its smooth operation in its application.

## Awards & Recognition



**National Special Recognition Award 2003; by the Ministry of MSME has been conferred on to Advance Ventilation Pvt. Limited for exhibition and outstanding performance, research & development efforts in the field of industrial environmental control & Precision Air Conditioning systems.**

## Pleated Pulsejet Dust Filters

Pulsejet Bag Dust Filters; are designed and manufactured by us with following features.

- Pleated Filter Cartridges; and therefore the size is compact.
- Moderate Air to Filter media ratio;  $M^3/Hr/M^2$  is selected.
- Accurate sizing of pulse solenoid valve for effective cleaning of the filters.
- Height of the Dust filter is limited to 4800mm.

These dust filter units are given with ATEX / feature compliance; and with explosion vent; and the filter cartridges are given with Antistatic feature.



## Air Ventilation MODULAR Units

Air Ventilation MODULAR Units are designed and manufactured by us for the ventilation of Gensets building. The OEMs of Gensets; like Wartsila, Rolls Royce-Bergen Engines India Pvt. Limited; have patronized us for these procurements



## Industrial Centrifugal Fans



Industrial Centrifugal fans / Bowers are designed for all air flow volumes upto 250,000 CMH and static pressure combinations. Different modules / variants are able to satisfy the wide variety of application requirements.

These fans are manufactured in single inlet single width (SISW); and Double inlet double width (DIDW) configurations. The blade profiles are provided of Backward curve radial tip discharge, Backward inclined; straight radial; and double curved backward tip discharge with limit load feature.

## Axial Flow Fans

Axial flow fans are manufactured in wall mounting; and in Tube axial flow design. The Tube axial flow fans are given in V-belt driven configuration; so as to keep motor outside to the air stream.

Impeller of these fans is given of variable pitch angle design; with its blades of aerofoil cross section. Impeller blades are given of PAG & Die cast alloy aluminium metal construction.

On request; Axial flow fans can also be given in BIFURCATED housing design; and with specialized / customized features can also be given. Two (2) stage (reversible) Axial fans are available for tunnel ventilation applications.



## India Distributors - Dustcontrol AB; Sweden

DC Hi VAC dust extractor & filtration system consists of a filter unit and vacuum producer unitized on a common chassis. Mobile as well as stationary equipment are available to suit varying application requirements.

DC is able to provide any customized solution system to the customer's industrial system applications. Companies like Sandvik Asia; and Seco Tools, Nestle are included in the International accounts list of Dustcontrol AB.

**Dustcontrol**



## India Distributors - **SovPlym**; Russia

We are the Business system associates for SOVPLYM; St. Petersburg; Russia and as India distributors carry out the solution system implementations. Sovplym is a leading manufacturer for

- Oil mist filters
- Vehicle exhaust extraction systems
- Multi bank dust filters
- Extension extraction arms with extension beam

Sovplym products and solution systems are widely implemented in automotive plants, service stations, military facilities, transport depots, automobile components manufacturing and power train manufacturing plants.



**SovPlym**

## 3D Modelling

We deal with your project order most competently; and process the same using the project management procedures and tools.

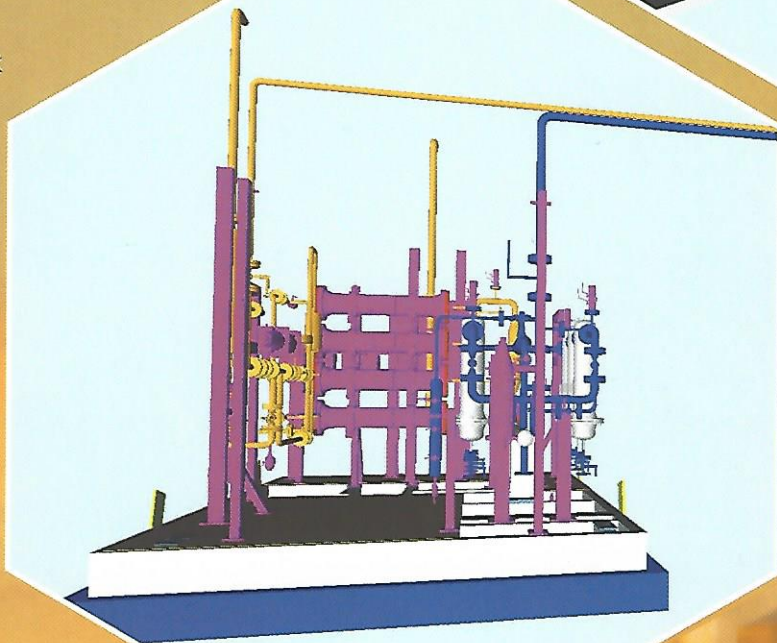
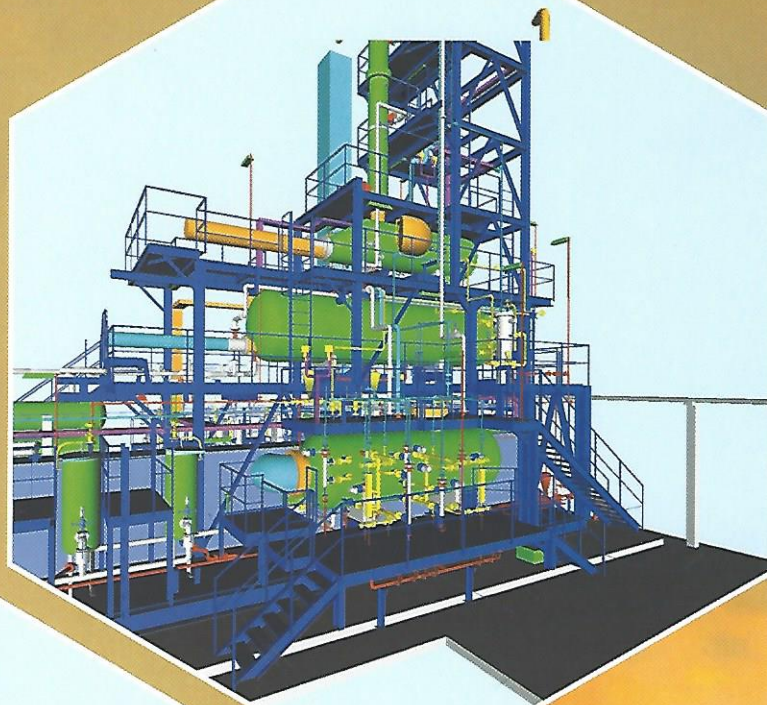
The engineering aspects of it are completed by the application of first principles of Science and Engineering and following the norms & recommended practices of American Society of Heating, Refrigerating, and Air conditioning Engineers (ASHRAE).

We; the Advance Ventilation Pvt. Limited are able to provide solution systems relating to HVAC package equipment / system; and have already worked through / on to these applications for more than (15) years.

As, if required we work with customer / project consultant; hand-in-hand to develop the 3-D model of the project equipments along with process pipings.

We work through the 3D Modelling tools; namely:

- PDMS
- SP3D
- AutoDesk
- Rhino3D
- PDS



# Oil and Gas Sector

# Our Patrons



# Power Sector



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