

# Blowers !!

## Twin lobe Air Cooled Type Air Blowers :



We are manufacturers and exporters of Air Blowers. A complete range of standard Air Blowers is available for flow rates from 25 cu. mt./hr through 10,000 cu. mt./hr in single stage and upto any capacity in parallel configuration for working pressure range upto 1kg/sq. cm.

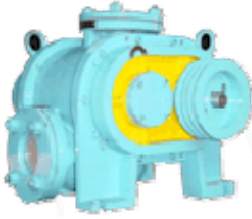
They are available as total package units, ready to install or as bare blower units for replacement. Mentioned below the details of Standard Design and Constructional Features of Portable Air Blowers:

### Standard Design & Constructional Features

- Factory Engineered, factory guaranteed, superior product.
- 100% oil free air delivery.
- Alloy steel hardened and ground timing gears.
- Anti-friction bearings.
- Rotary oil sealings.
- Rigid one piece CI casing and side plates.
- Horizontal and vertical configurations available.
- Easy rotor timing setting.
- No vanes, valves or rings to wear.
- Large inlet and outlet connections for minimum loss
- Improve volumetric efficiency and reduced operating temp.
- Alloy steel toughened shafts ground to close tolerances.



## Aqua Series Blowers :



Everest Water Cooled Air Blowers are similar to air cooled type in construction and performance except in the change of cooling arrangement. In water cooled blowers the main casing & side plates have water jackets around them, where water is circulated, which dissipates the heat generated and keeps the internals cool. Water cooled blowers are recommended for applications where discharge pressures exceed 7000 mm WG, since it is essential to dissipate heat for efficient working and long life of the bearings and seals. Everest blowers have a unique design of single inlet & single outlet for cooling water and no cumbersome water pipe connections externally. Internal circulation of water to various areas is through inbuilt channels. This unique design makes the operations very simple, yet very effective. The cooling water inlet is at the bottom so that the water rises up against gravity, reaching all the corners before it comes out from the outlet. The flow rates of cooling water are low.

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- Rigid one piece CI casing and side plates.
- Easy rotor timing setting.
- Alloy steel toughened shafts ground to close tolerances.

## Water Cooled Blowers :

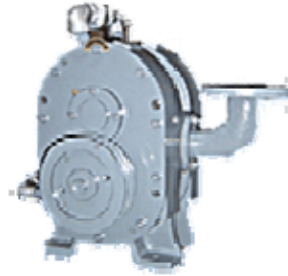


Everest has introduced its new range of AQUA Series Twin Lobe Rotary Air Blowers (Roots Blowers) to meet the electroplating & aqua culture requirements which essentially demand 100% Oil Free Air. These Roots blowers are totally dry machines where lubricating chambers are physically isolated from the main gas chamber ensuring 100% Oil Free Air delivery. For ease of operation and maintenance, the inlet and discharge connections are modified with Suction Top and Discharge Horizontal reducing cumbersome piping. These blowers have a major advantage over centrifugal

and regenerative blowers as they are more power efficient, can handle high flow rates and are insensitive to water depth variations. They deliver, practically, a constant flow rate irrespective of back pressure thereby maintaining dissolved oxygen levels. These machines are very versatile & can be run by electric motors or gensets. They have low maintenance and no internal adjustments resulting in prolonged free operation.

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- Rigid one piece CI casing and side plates.
- Horizontal and vertical configurations available.
- Easy rotor timing setting.
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#### **Gas Blowers :**



BIO GAS BLOWERS, based on Positive Displacement Rotary Air Blower principle, have been specially developed for pumping of Biogas. These gas blowers are generally used in Biogas lines to boost the gas pressures to meet the burner input demand. These gas blowers are generally vertical in construction, that is suction top and discharge bottom, so as to prevent any accumulation of corrosive matter inside the casing. Since they operate in closed loop, suction and discharge silencers are generally not required. Special material of construction, lubrication and sealing arrangements make them ideal choice for Biogas applications.

Special blowers, capable of handling different gases, are also available at Everest. Material of construction and constructional details vary to meet different gas requirements. For inflammable and toxic gases, leak tightness is ensured. Basic designs are modified, depending upon the nature of gas to be handled and customer's requirement. Water jet injection cooling can also be provided to keep the gas temperature low. Provision for a Vacuum switch is provided at the inlet of the blower, so that in case the biogas generation falls below the pumping speed of the blower, the blower trips and this prevents Vacuum overloading. Similarly provision for a pressure switch is provided on the discharge line to safeguard the blower against excessive discharge pressures.

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- Rigid one piece CI casing and side plates.
- Horizontal and vertical configurations available.
- Easy rotor timing setting.
- No vanes, valves or rings to wear.
- Large inlet and outlet connections for minimum loss
- Improved volumetric efficiency and reduced operating temperatures.
- Alloy steel toughened shafts ground to close tolerances.

#### **Expo Series Blowers :**



EVEREST, pioneers in blower technology, have developed EXPO series twin lobe: positive displacement Roots blowers having unmatched quality & performance. They have been specially designed for continuous applications, demanding constant flow at varying discharge pressures, such as in E.T.P., Pneumatic Conveying etc. Complete package units are shipped with all essential accessories. The outboard position of rotor bearings allows atmospheric venting between the compression chambers & the bearing which keeps the gears & bearing cool and prevents contamination of compression chamber & air making delivery 100% Oil Free. Compact design, heavy duty bearings and accurately machined tolerances allow high speed operation, increasing capacity for relatively low unit weight

#### **Standard Design & Constructional Features**

- Integral S.G. Iron Rotor Shaft assembly

- Relatively low vibration and noise levels.
- Relatively low pulsations.
- Efficient cooling.
- Isolated bearing chambers.
- Rated for continuous duty operation.
- Compact design.
- Capability to take over pressure and surge loads.
- No vanes, valves or rings to wear.
- 100% oil free air delivery.
- Factory engineered and guaranteed, superior product.
- Alloy steel hardened and ground timing gears.
- Anti-friction bearings.
- Rotary oil sealings
- Improved base frame design with built-in discharge silencer for low noise operation