Turbine Blower

Turbine Blowers are suitable for all those applications requiring considerably higher pressures than that which can be achieved using centrifugal fans. Side channel blowers are used in all those applications requiring an operating vacuum higher than the one achievable by a fan, but not as high as to require the use of a vacuum pump. The rotating parts of the blower are not in contact with the casing, there is therefore no friction during operation and thus no internal lubrication is necessary. The gas moving through the machine therefore remains uncontaminated and completely oil-free.

The use of Turbo side channel blowers is common in machine-building as high pressure ventilator, vacuum pump, air pump, booster, low pressure compressor and oil-free compressor. The applications are unlimited like aireting, dust cleaning, vacuum lifting, vacuum tables, blowing off, pneumatic transport, cooling and vacuum molding.

Turbo Die cast aluminium side channel blowers are robust units used for versatile applications. These blowers stand out for their durability, due to the robust aluminium design, which makes them highly resistant against corrosion.

Other advantages of Turbo side channel ventilators include:

- Almost completely maintenance free Have a wide range of performance Robust yet light weight
- Reliability - Built to last
- 50/60 Hz Voltage range motors Low level of noise
- Easy installation
- No vibration, complete dynamic stability Pulsation free discharge
- Simple and minimal maintenance Higher Pressure Ratios
- Cooler Running Bearings
- Longer Grease Life
- 100% Oil Free Air
- Suitable to environment protection Small dimensions

Turbine Applications

- Drying out buildings - Ventilating/drying out buildings after flood
- Dental vacuum
- Filling Bags and bottles
- Filling Silos
- Fishpond/breeding pond ventilation - Enriching water with oxygen
- Food processing - Degasification
- Gas analysis
- Industrial vacuum cleaners, central extraction systems
- Lifting and holding parts using vacuum suction
- Laser printers - Powder dusting and extraction
- Letter sorting, enveloping
- Packaging Machines
- Paper Industry - Sheet separation, turning, transport, fixation and drying
- Pneumatic Conveying
- Soil Treatment - Extracting ground level air
- Swimming pool technology/spas - Blowing air into water tanks
- Textile machines - Extracting waste thread and fluff
- Thermoforming
- Ventilation of sewage treatment plants - Enriching water with oxygen

For the three phase machines the tolerance is +/- 10% for fixed voltage range and +/- 5% for regular voltage range. The single phase machines are designed with a +/- 5% tolerance. If only 90% of the maximum allowed pressure will be used for continuous operation then the allowed voltage range adds up to +/- 10%. The frequency tolerance is maximum +/- 2%.