



SAVE ENERGY SAVE MONEY



FULLY AUTOMATIC PRESSURE JET OIL/GAS/DUAL FUEL BURNERS

• Fully automatic Pressure Jet Oil / Gas Dual fuel Burners have matchless performance for Steam Boilers, Thermic Fluid Heaters, Hot Water Boilers, Air Heaters, Asphalt Tanks and Aggregate hot mix Road making machinery, Incineration Plants.

• Capacity : 10 to 1500 LPH (100 to 15000 kW)

LOW AIR PRESSURE OIL/GAS/DUAL FUEL BURNERS

• Low air pressure Oil / Gas / Dual fuel Burners work excellent for high temperature furnaces for Steel plants, Rolling mills, Non Ferrous Foundries, Rotary Furnaces, Glass & Silicate Industry, Ceramic & Refractory Furnaces and for many more applications.

• Available with several added instruments for automatic operations.

• Capacity : 10 to 300 LPH (100 to 3000 kW)





FURNACE OIL HEATING PUMPING FILTERING UNIT

• Oil Preparation - a vital phenomena - for the efficient operation of Low Air Pressure and Pressure Jet Oil burner is available as factory finished units in Duplex / Semi Duplex or Simplex versions. They are comprising of oil Heater fitted with renewable cartridge type heating element, gear oil pump with motor, oil filters, ball valves, pressure regulating valves and other instrumentation.

- Capacity : 1 kW to 200 kW
- Oil Flow : 10 to 3000 LPH
- Oil Pressure : 1 kg/ cm² for LAP burner, 15 kg/ cm² for Pressure Jet Burner.

FURNACE OIL OUT FLOW HEATERS

• Furnace oil has viscosity of 1500 sec redwood No.1 at 100 °F. With fall in temperature, this viscosity goes further up making oil to flow extremely difficult. To meet this requirement, tank outflow heaters have been designed. These heaters are installed a little above the tank bottom. The beauty of the heater is that it does not heat entire tank filled with oil. It only heats the oil that flows through the heater thus cutting down the kilowatt rating which otherwise may be required to heat the entire oil tank.

- Installation is easy and safe.
- Capacity : 1 kW to 200 kW
- Oil Flow : 10 to 3000 LPH





CENTRIFUGAL AIR BLOWERS

• Provides high pressure atomization/combustion air to suit burners.

• Duly dynamically balanced impeller fabricated from aluminium/ MS/ SS having riveted/welded construction providing sufficient strength.

• Optional accessories like inlet/outlet silencer, air filter, flowcontrol devices, anti vibration mountings, flexible connectors can be supplied.

• Other applications - cooling , conveying , air knives, fluidizing system, glass blowing, drying & various process system.

• Single Stage Blower

Capacity : Upto 75,000 m³ / hr, Pressure : Upto 1500 mm WG. • Two Stage Blower

Capacity : Upto 50,000 m³ / hr, Pressure : Upto 3000 mm WG. • Multi Stage Blower

Capacity : Upto 10,000 m³ / hr, Pressure : Upto 4500 mm WG.

LADLE PRE-HEATER

• Equipped with high efficiency low pressure oil/gas/dual fuel burners.

• Swing arm is provided to ensure maximum utilization & decrease in heating time in case of multiple ladles.

• Each such pre-heater is equipped with "aeromatic" highly efficient backward curved blower to minimise operating cost.

 Top of the pre-heater is well insulated and lined with high temperature refractory to reduce heat loss & maintenance.
 Canacity: Unto 30 Top ladlo

• Capacity : Upto 30 Ton ladle.





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LIQUID RING VACUUM PUMPS / COMPRESSORS

- Pumps run at lower tip speed for better efficiency.
 Control Plate port angle selected on basis of specific operating condition which reduces over compression & power.
- Easy to maintain the pump as axial clearance is in millimeters.
- Material of construction : CI / GBZ / SS-304 / SS-316 / Alloy steel.
- Capacity : 20 m³/ hr to 10,000 m³/ hr.
- Vacuum : Upto 700 mm Hg• Pressure : Upto 3.5 kg/cm² (A)
- Vacuum : Upto 730 mm Hg with air ejector.

CENTRIFUGAL AIR BLOWER

● High efficiency fan series is a new concept in fan engineering. Each type 14 to 40 has different specific speed for best efficiency.● Can handle Air / Flue gases / Corrosive gases / Dust / Powder.● Impeller can have backward curved/ backward inclined / radial blades to suit the application.● Optional dampers / silencers or acoustic hood can be provided.● Material of construction : MS / SS-304/ SS-316 / MS with rubber or FRP lining.

• Capacity : Upto 3,00,000 m³/ hr.• Pressure : Upto 2000 mm WG.





AXIAL FLOW FAN

• To achieve high efficiency, fans have a defined hub ratio 71 to 25 for given capacity, pressure and speed. Impeller blades are of adjustable type and can rest at desired angle to suit the system resistance. Fans can run in parallel for higher capacity and in series for higher pressure. Impeller of aerofoil profile is made from cast aluminium alloy. Bifurcated type fans available for handling corrosive gases.

• Capacity : Upto 3,00,000 m³/ hr.• Pressure : Upto 100 mm WG.

VARIABLE INLET VANE DAMPER

• VIV dampers are used for capacity modulation. They give accurate modulation and power savings over other styles of dampers at reduced air flow. • When an inlet vane is partially closed, each blade directs the air into the impeller in the direction of rotation and so the air is prespun. This brings about a reduction in the capacity, static pressure and BHP. The amount of BHP savings at reduced capacity is determined by the type of system and typeof blower-vane combination. • Adjustment can be made either automatically by pneumatic / electrical actuator or manually by hand.



SIDE CHANNEL BLOWERS & VACUUM PUMPS

● Non pulsating continuous Air Flow.● Compact & light weight. free.

- Oil free air.• Rugged construction. maintenance construction.
- Low level.• Cast aluminium alloy noise
- Application Conveying, Vacuum cleaner, Aeration, Lifting, Holding parts, Dental suction equipment.
- Capacity : 40 to 2000 m³/ hr.• Pressure : 800 to 3000 mm WG. (+)
- Vacuum : 700 to 2600 mm WG.(-)





TWO STAGE CENTRIFUGAL AIR BLOWERS

- Dynamic new concept in centrifugal machinery to give highly efficient performance at higher pressure.
- Internally pass through guide vane / externally connected stage construction.
- Application Combustion, Atomizing, Agitating, Blowing, Cooling, Drying, Conveying, Exhausting.
- Capacity : Upto 50,000 m³/ hr.
- Pressure : Upto 3000 mm WG.

MULTISTAGE CENTRIFUGAL AIR BLOWERS

• Efficient alternative to rotary lobe type blowers for moderate pressure 1 vacuum application. • Smaller models have fabricated impeller in CI body while higher capacity blowers are having casted aluminium impeller in CI body.

- All impellers along with shaft are duly dynamically balanced.
- Each stage receives prewhirled air from the discharge of previous stage to minimise the losses.

 Application - Waste Water Treatment, Water Treatment, Combustion, Centralised Vacuum Cleaning System, Aeration & Agitation, Fluidization & homogenization.

I E I X (G)

VACUNAIR

- Capacity : Upto 10,000 m³/ hr.
- Pressure : Upto 4500 mm WG.



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