

Turbine Blowers

Overview

Vacuum pump. It is also known in other names such as regenerative blower, vortex blower and side channel blower. All of the names describe the basic principle of operation of the blower. The blower consist of an dynamically balanced impeller mounted directly on a motor shaft and is rotated at a high speed of about 3000 R.P.M. The impeller revolves in a stator-cum-compression chamber having very fine clearances between them. Both of the openings for suction & pressure are located on the outer periphery of the stator to reduce impedance to the air flow thereby developing the required vacuum and pressure levels. The turbine blower is, in effective, a multi stage compressor with each regeneration of the air becoming another "Stage". The basic construction of a turbine blower means that the only moving part is the impeller.



Silent Features

- Maintenance free blower
- Low noise level
- Compact & Rugged
- Can be used in either manner i.e. pressure or vacuum requirement
- No vibration
- Easy installation
- 100% oil free air
- Pulsation free air
- Complete dynamic stability

Applications

Widely used for Aeration, Bottle Drying, Agitation, Air Bearing, Oil Burners, Dryers, Jacuzzi, Medical Bath Tubs, Hopper Car, Laminating Press, Vacuum Conveying, Vacuum Desolders, Blood Taking Equipment, Bottle / Liquid Filling Stations, Vacuum Packaging, Industrial Vacuum Systems, Dust / Trim Collection, Vacuum Lifting & Forming, Feeding, China Clay Crockery Casting, Air Pollution Monitoring, High Speed Labelling Machines, Paper Counters, Fume / Smoke Extraction Units, Garment Vacuum Tables etc.

Single stage

Model	Displacement(m3/hr)	Pressure(mbar)	Vaccum(mbar)	Motor(H.P)
VR-50-2/1	80	85	75	0.5
VR-100-2/1	200	140	125	1
VR-125-2/1	280	170	145	2
VR-150-2/1	400	200	180	3
VR-175-2/1	500	240	210	5
VR-200-2/1	600	260	240	7.5
VR-250-2/1	800	340	300	10
VR-300-2/1	1100	400	350	15
VR-350-2/1	1250	450	375	20

Double stage

Model	Displacement(m3/hr)	Pressure(mbar)	Vaccum(mbar)	Motor(H.P)
VR-50-2/2	140	120	120	0.5
VR-100-2/2	100	225	200	1
VR-125-2/2	140	270	240	2
VR-150-2/2	200	330	300	3
VR-175-2/2	250	390	360	5
VR-200-2/2	300	450	410	7.5
VR-250-2/2	400	525	460	10
VR-300-2/2	550	500	500	15



TURBINE BLOWERS/EXHAUSTERS

PERFORMANCE CURVES

