

SR650

PERFORMANCE CRITERIA FOR SR650 STATIC BLOWER/EXHAUSTER

For correct operation of this unit, the following maximum conditions must not be exceeded: -

Maximum Speed	1500 rev/min
Maximum Pressure	1000 mbar
Maximum Airflow	7700m ³ /hr

This unit must not be run at speeds less than those given below (blower sea level pressure difference in brackets):

700 rpm at press. ratios up to 1.5	(500 mbar)
1500 rpm at press. ratios from 1.5 to 2.0	(500 mbar – 1000 mbar)

Weight of blower	1000Kg
Port Size	300NB

$$\text{Pressure ratio} = \frac{\text{Absolute outlet pressure}}{\text{Absolute inlet pressure}}$$

Normal (sea level) ambient conditions are 1013 mbar & 15 deg C.

A BLOWER is a unit in which the inlet pressure is substantially equal to the ambient pressure.

An EXHAUSTER is a unit in which the inlet pressure is significantly below the ambient pressure, although the outlet pressure might be above the ambient (as in "suck-blow" application).

UNIQUE FEATURES

- * Bi-lobe rotors with PTFE / carbon tip inserts for maximum airflow, maximum efficiency and fuel saving
- * Rigid construction.
- * Channels in the case allow gradual equalization of pressure resulting in smoother operation.
- * Oil lubrication only.

STANDARD FEATURES

The blower can be driven clockwise or anti clockwise and is suitable for direct coupling or vee belt drive throughout the performance range.

SR blowers and exhausters can be supplied as bare shaft units or complete with motor, transmission equipment, baseplate, filters, silencers and a full range of accessories to meet requirements and duties specified.

SPECIFICATION

Caseing: The main case and bearing housings are manufactured from high quality SG Iron (Grade SG600/3)

Rotors: The rotors and shafts of ample rigidity and strength are cast integrally in high tensile spheroidal graphite iron. They are machined all over which ensures vibration free operation.

Rotors: Manufactured from high quality SG Iron (Grade SG600/3)

Bearings: Oil lubricated cylindrical roller bearings are used on the drive end of the blower. At the gear end, an oil lubricated double row angular contact ball bearing supports each shaft radially as well as providing axial location of the rotors.

Gears: Oil lubricated helical gears are hardened and ground for accuracy and long life.