KTSR35

Hadron Engineering
The Blower Specialists

PERFORMANCE CRITERIA FOR KTSR35 STATIC BLOWER/EXHAUSTER

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

Maximum Speed	4800 rev/min
Maximum Pressure	1000 mbar
Maximum Airflow	650m³/hr

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

800 rpm at press. ratios up to 1.5	(500 mbar)
1600 rpm at press. ratios from 1.5 to 2.0	(500 mbar – 1000 mbar)

Weight of blower	80Kg
Port Size	80NB

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

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

* Trilobe 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.

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

SPECIFICATION

Casing: 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.