Positive Displacement
Air Blowers

HR10, 11, 12, 13  Blower Range: 127 - 1299 (M³/HR)

Based on Success

HR Blowers are one of the world’s leading air blower manufacturers and have a reputation for quality, innovation and service.

Design Features

The conservative load carrying capacity of the larger diameter rolling element bearings ensures an extended operating life.

Timing gear life is also extended by controlled lubrication systems.

The computer calculated impeller profiles ensure maximum volumetric efficiency with minimum absorbed power without sacrificing torsional rigidity.

The high rigidity of the impeller / shafts permits a higher pressure rise to be obtained than with other machines of comparable size.

The generous shaft diameter keeps drive stresses low.

Gear and shaft strength is substantially increased by the use of taper mounted gears which do not need keyways for location. Setting of the gear wheels to obtain correct timing of the impellers is simplified, a feature that facilitates field maintenance.

Precision ground and hardened steel gears are used to ensure smooth, silent running and accurate timing of the rotating impellers. A controlled lubrication system is provided to ensure efficient operation without waste of energy in the gearcase.

Specially designed rotary oil seals are used in the gearcase. This feature eliminates maintenance associated with the use of lip seals.

Design and manufacture is in accordance with metric standards.

Use as an Exhauster

If used as an exhauster and dust or liquids could be drawn into the machine due to inadequate filtration, closed end rotors should be specified. This will minimise risk of loss of dynamic balance due to material inside the rotors.

User Benefits

- The delivered air is guaranteed to be oil free because internal lubrication is unnecessary, and because all HR Blowers Positive Displacement Air Blowers are constructed with air gaps which completely isolate bearing and gear lubrication from the compression chamber.

- Noise levels are kept to a minimum. Mechanical noise levels have been reduced by the running accuracy of the taper mounted gears. Air noise is reduced by carefully designed air ports and the elimination of resonant unbraced surfaces.

- The blower can be installed for either vertical or horizontal air flow simply by repositioning the mounting feet. Installation costs can be reduced by versatility of mounting arrangement.

- The generous diameter of the drive shaft permits the use of V-belt drives without the need for a double outer bearing.

- Air blowers can also be used as air exhausters. Performance charts on application.
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The volume of air delivered is measured at inlet conditions of 15°C and 1013 mbar absolute.

For accurate performance characteristics, please contact HR Blowers.

Following the Company's policy of constant development, we reserve the right to alter any detail specified or illustrated in this publication without notice and without incurring any obligation to provide such modifications on machines previously delivered.

Net Weight
Size 10: 76kg
Size 11: 82kg
Size 12: 102kg
Size 13: 106kg

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