PRODUCT DATA SHEET



HV 8000 -MECHANICAL BOOSTER PUMP

edwardsvacuum.com

HV8000 feature a rugged design for robust and reliable operation in very large scale processes both in the industrial and chemical markets.





Performance

Stable process for consistent output - Suitable for continuous operation over wide pressure ranges.



Reliability

No unplanned downtime - High performance water cooled mechanical shaft seal, large diameter shaft and large helical gears.



Adaptability

Easy integration and safe - Optional water cooled exhaust gas after cooler, shaft seal safety purge, temperature monitoring and VFD available.



Flexibility

Configured to your needs - Can be supplied with standard motor or without motor to allow a local motor to be fitted. Horizontal or vertical flow to suit application and system design.

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Technical Data

| | Units | HV8000 |
|---|--|--------------------------|
| Displacement 50 Hz | m³h ⁻¹ /CFM | 7200/4241 |
| Displacement 60 Hz | m³h ⁻¹ /CFM | 8640/5089 |
| Inlet/outlet connection | | 10" class 150 ASME B16.5 |
| Inlet/outlet cooling water connection | | Rp 1/2 ISO 7-1 (1/2 BSP) |
| End cover purge gas inlet | | Rp 3/8 ISO 7-1 (3/8 BSP) |
| Pressure differential across pump 50 Hz | mbar/torr | 190/143 |
| Pressure differential across pump 60 Hz | mbar/torr | 120/90 |
| Max cooling water supply pressure | bar/psi | 4.0/58 |
| Max cooling water supply temp | °C/F | 35/95 |
| Cooling water flow rate | lmin ⁻¹ /US gal min ⁻¹ | 15/3.96 |
| Noise level | dB(A) | 82 |
| Weight (without motor) | kg/lb | 580/1279 |
| Weight (with standard motor) kg | kg/lb | 720/1587 |
| Motor Power 50Hz | kW/hp | 15/20 |
| Motor Power 60Hz | kW/hp | 18.5/25 |
| Oil capacity (vertical gas flow) | litre/gal | 8.3/2.18 |
| Dimensions Horizontal flow L x W x H | mm | 1737 x 530 x 820 |
| Dimensions Vertical flow L x W x H | mm | 1737 x 670 x 638 |

Ordering information

| Product Description | Part Number |
|---|-------------|
| HV8000 VF 400 V 50 Hz 230/460 V 60 Hz 18.5 kW BOOSTER | A311-03-940 |
| HV8000 VF 200 V 50 Hz 200/380 V 60 Hz 18.5 kW BOOSTER | A311-03-934 |
| HV8000 VF BARESHAFT BOOSTER | A311-01-985 |
| HV8000 HF 380/400 V 50 Hz 230/460 V 60 Hz 18.5 kW BOOSTER | A311-04-940 |
| HV8000 HF 200 V 50 Hz 200/380 V 60 Hz 18.5 kW BOOSTER | A311-04-934 |
| HV8000 HF BARESHAFT BOOSTER | A311-02-985 |

ATEX variants available on request

Applications _

- Steel degassing
- Metallurgy
- Coating
- Process industry

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