HIBON BLOWERS, VTB SERIES – HIGH VACUUM

TECHNICAL DATA SHEET – VTB 820.XL

Performance Data:

Refer to performance curves, available upon request.

- Vacuum performance, metric (ISO) units
- Vacuum performance, imperial units
- Pressure performance, metric (ISO) units
- Pressure performance, imperial units

Dimensional Data:

Refer to general arrangement drawings, available upon request.

- Bare shaft blower dimensions, metric and imperial units –
- Bare shaft dimensions, 2D & 3D drawings, metric and imperial units
- Blower with manifold, 2D drawings, metric and imperial units
- Blower inlet flange is 6" (150 mm) diameter, PN 10 metric drilling
- Manifold flanges are 6" (150 mm) diameter, ANSI 125 Lbs drilling

Note: Manifold type and flange positions must be shown on order

Gasket Data:

- Inlet flange: Standard, 6" (150 mm) PN 10 metric drilling, Part # GKTR-0820
  Asbestos free, glass fiber reinforced compressed gasket, 1/8" thick, equivalent to Permanite AF2100 or Mevco N748B
- Discharge flange: Special drilling, Part # GKTS-0820

Weight Data:

- Blower, without manifold: 588.1 Lbs (267 Kg)
- Manifold only: ~ 119 Lbs (54 Kg)

Manifold weight varies with configuration.

Blower Configurations:

Blower is available in several configurations to suit your installation and type of drive:

- Air flow: Vertical or horizontal
- Rotation: Clockwise or Counter-Clockwise
- Shaft position: Top, bottom, left, right

A typical arrangement drawing is available to help you select the proper configuration at time of order.

Oil Capacity, Vertical Gears, Horizontal Flow Arrangement:

- Drive end: 0.24 US Gal (0.90 Liters)
- Gear end: 0.34 US Gal (1.30 Liters)

Oil Capacity, Horizontal Gears, Vertical Flow Arrangement:

- Drive end: 0.40 US Gal (1.50 Liters)
- Gear end: 0.55 US Gal (2.10 Liters)

Note: Oil quantities are approximate. Please follow instruction of the maintenance manual to read proper oil level.

Type of Oil:

- Hibon® Lube is recommended for optimum performance.
- Extreme Pressure (EP) Synthetic Gear Oil, ISO 220 grade.
- For truck service, a synthetic type of oil is preferred for summer and winter operation.
- Make sure that the synthetic oil incorporates the EP (Extreme Pressure) gear additive.

Power Transmission Data:

- Maximum input torque: 250 lbf·ft (339 N·m) (1 second start-up)
- Start-up inertia: 8.12 lb·ft^2 (0.342 Kg·m^2)
- Minimum blower pulley size: See manual
- Minimum rotation speed: 1,000 RPM
- Maximum rotational speed: 3,800 RPM

Other Operating Data:

- Maximum blower tilt angle: 12° (for proper lubrication, any direction)
- Maximum temperature: 285°F (140°C) at blower discharge
- Temperature switch set at: 265°F (130°C)
  Temperature probe must be located close to manifold discharge flange.
- Maximum size of particles entering blower: 0.003" (0.07 mm)
- Maximum dust load through blower : 0.006 oz/ft^3 (6 gr/m^3)

Silencer Data:

- Maximum Pressure Loss:
  Air injection silencer and associated piping: 8" WC (200 mm H_2O)
  Discharge silencer and associated piping: 8" WC (200 mm H_2O)
- Design air flow: 1,400 SCFM (2,380 m^3/hr)
- Design Temperature:
  Air injection silencer: 100°F (38°C)
  Discharge silencer: 250°F (120°C)

Note: Air injection and discharge silencers have atmospheric inlet / discharge

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