

TECHNICAL DATA SHEET – VTB 822.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 8" (200 mm) diameter, PN 10 metric drilling
- Manifold flanges are 8" (200 mm) diameter, ANSI 125 Lbs drilling

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

Gasket Data:

- Inlet flange: Standard, 8" (200 mm) PN 10 metric drilling, Part # GKTR-0822
Asbestos free, glass fiber reinforced compressed gasket, 1/8" thick, equivalent to Permatite AF2100 or Mevco N748B
- Discharge flange: Special drilling, Part # GKTS-0822

Weight Data:

- Blower, without manifold: 1190 Lbs (540 Kg)
- Manifold only: ~ 227 Lbs (103 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: 0.38 US Gal (1.45 Liters)
- Gear end: 0.61 US Gal (2.30 Liters)

Oil Capacity, Horizontal Gears, Vertical Flow Arrangement:

- Drive end: 0.66 US Gal (2.41 Liters)
- Gear end: 1.0 US Gal (3.84 Liters)

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

Type of Oil:

- Higon® 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: 347 lbf-ft (471 N·m) (1 second start-up)
- Start-up inertia: 29.44 lb-ft² (1.24 Kg·m²)
- Minimum rotation speed: 1,000 RPM
- Minimum blower pulley size: See manual
- Maximum rotational speed: 3,000 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)
 - Maximum size of particles entering blower: 0.00098" (25 µm)
 - Maximum dust load through blower: 0.25 oz/ft³ (200 mg/m³)
- Temperature probe must be located close to manifold discharge flange.

Silencer Data:

- Maximum Pressure Loss:
Air injection silencer and associated piping: 8" WC (200 mm H₂O)
Discharge silencer and associated piping: 8" WC (200 mm H₂O)
- Design air flow: 2,729 SCFM (4,636 m³/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