An air diaphragm pump is used to create vacuum on the suction.

**General Information**

- Pump Casing: - Ductile Iron No. 65-45-12
- Shaft Sleeve: - 300 series S.S.
- Wear Rings: - Gray Iron 40
- Mechanical Seal Faces: - Tungsten carbide/Silicon Carbide
- Pump Shaft: - 17-4 PH Stainless Steel
- O-rings: - Viton
- Impeller: - Ductile Iron 65-45-12
- Check Valve Body: - Ductile Iron
- Check Valve Flapper: - Buna-N

**Performance Data**

- Flow (min/max): - 1000 gpm / 7000 gpm
- Minimum Shutoff Head: - 32 feet (14 psi) @ 600 rpm (1)
- Maximum Shutoff Head: - 160 feet (69 psi) @ 1300 rpm (1)
- Minimum Speed: - 600 rpm
- Maximum Speed: - 1300 rpm
- Maximum Suction Lift: - 25 feet (2)
- Maximum Casing Press: - 150 psi
- Maximum Temperature: - 200°F
- Maximum Solids Size: - 3.6” spherical diameter

**Pump Specifications**

- Impeller: - 17.25”
- Bearing Lubrication: - SAE No. 30 Oil
- Vacuum System: - 50 CFM Vacuum Pump
- Mechanical Seal Lubrication: - ISO VG 32 Turbine Oil (3)

**Physical Specifications**

- Suction Size: - 12” flange
- Discharge Size: - 12” flange
- Approximate Weight: - 11500 lbs dry / 12565 lbs wet
- Overall Height: - 88” (to top of lifting eye)
- Overall Width: - 78.5” (outer most edges)
- Overall Length: - 174” (nose to tail)

**Enclosure**

- Enclosure is made from Galvanneal. Hinged doors on each side provide easy interior access for servicing. Soundproof insulation provides the quietest operation in the industry, and the entire unit, including controls, can be locked for added security.

- Sound Rating: - 70 dBA at 23 feet

**Notes:**

1. Based on 1.0 specific gravity
2. Depends on flow rate, pump speed, and elevation. See performance curve.
3. Should always be visible and clear in appearance through sight glass.
4. WARNING – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See curve for max pump RPM.
5. Must be changed every 250 hours of runtime.
6. Run time fluctuates with speed and engine loads.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied because variations can and do exist.

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Performance Curve: Special Note - The transmission runs at a gear reduction ratio of 1.77/1 to slow the pump.