Vacuum Boosters

Models 3200, 4200, 5400, 7300

Vertical Flow, Mechanical Seals, Integral Pressure Lubrication
Horizontal Flow, Mechanical Seals, Integral Pressure Lubrication
Vertical Flow, Slinger Seals, Integral Pressure Lubrication
Horizontal Flow, Slinger Seals, Integral Pressure Lubrication
Vertical Flow, Mechanical Seals
Horizontal Flow, Mechanical Seals
Vertical Flow, Slinger Seals
Horizontal Flow, Slinger Seals

Vacuum boosters are used to “supercharge” vacuum pumps to greatly extend pump performance. This allows for much faster pumping speeds and deeper vacuum levels. Kinney vacuum boosters are utilized worldwide in the manufacture of chemicals, petrochemicals, plastics, semiconductors and wood composites as well as food processing, vacuum furnace applications and many other general applications in industry.

Mechanical Seals, Integral Pressure Lubrication
These series incorporate mechanical seals on the rotor shafts and the drive shaft, flanged port fittings, water cooled drive shaft seal, integral pressure lubrication system with water cooled heat exchanger, and cooling coils in the end covers. Water cooled drive shaft seal not included with optional motor mounting flange versions.

Slinger Seals, Integral Pressure Lubrication
These series utilize a mechanical drive shaft seal in conjunction with a non-contacting, non-wearing slinger seal on the rotor shafts, flanged port fittings, water cooled drive shaft seal, and integral pressure lubrication system with water cooled heat exchanger. Cooling coils are not available.

Mechanical Seals
These series incorporate mechanical sealing on the rotor shafts and the drive shaft, flanged port fittings, and water cooled drive shaft seal. Cooling coils are not available.

Slinger Seals
These series utilize a mechanical drive shaft seal in conjunction with a non-contacting, non-wearing slinger seal on the rotor shafts, water cooled drive shaft seal, flanged port fittings, and are dependable performers for air and many gas applications. Cooling coils are not available.

Low Mechanical Noise
Every Kinney vacuum booster is designed to operate at 82 dB(A) or less at blank-off (open field; motor and background noise excluded).

Optional Materials and Coating Available
Standard construction materials include cast iron housing, end plates and port fittings with ductile iron rotors and shafts. In addition to standard construction, the following materials are available:

Special Materials
- Ductile Iron

Special Coatings
- Bi-Protec® (Nickel/Armoloy®)

Metric Availability
All Kinney vacuum boosters are available with metric drive shaft and process connections.

Material Specifications:

- **Housing:** Cast iron
- **End Plates:** Cast iron
- **End Covers:** Cast iron
- **Rotors:** Ductile iron
- **Shafts:** Ductile iron cast integrally with rotors
- **Drive Shaft:** SAE 4140 forged alloy steel
- **Bearings:** Gear end - Double row ball, both rotors
  - Back end - Double row ball
- **Drive Shaft:** Spherical roller
- **Gears:** Alloy steel, helical cut and precision ground
- **Seals:** Drive shaft - Mechanical
  - Rotor shafts - Mechanical or Non-contacting slinger
- **Lubrication:** Oil splash system, integral pressure lube optional
### Dimensions

Values shown are approximate and should not be used for construction. Certified drawings are available through your local Kinney Sales Professional.

*Approximate shipping weight.

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**CONTACT US**

For more information, contact your Regional Sales Manager or call us at:

**1-800-825-6937**

Your Local Sales Professional: