Vacuum Boosters

Models 540, 720

Bi-directional Rotation
Series Options:
- 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
These series incorporate mechanical sealing on the rotor shafts and the drive shaft, flanged port fittings, water cooled drive shaft seal, and cooling coils in the end covers. Water cooled drive shaft seal not included with optional motor mounting flange versions.

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 included. Water cooled drive shaft seal not included with optional motor mounting flange versions.

Optional Materials and Coatings 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:

- 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 Motor Mounting Flanges
All models are available with flange adapters for mounting either a NEMA C-face motor (up to 75 HP) or an IEC D-flange motor (up to 55 kW) directly to the vacuum booster, eliminating the need for a separate base mounted assembly and coupling guard for the vacuum booster.

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 - Cylindrical roller
- Drive Shaft: Double row ball
- Gears: Alloy steel, helical cut and precision ground
- Seals: Drive shaft - Mechanical
  Rotor shafts - Mechanical or Non-contacting slinger
- Lubrication: Oil splash system, both ends

Special Materials
- Ductile Iron
- Carbon Steel*
- Stainless Steel*
- *540 only

Special Coatings
- Bi-Protec® (Nickel/Armoloy®)
Dimensions
Values shown are approximate and should not be used for construction.
Certified drawings are available through your local Kinney Sales Professional.

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<th>MODEL</th>
<th>SERIES</th>
<th>DISPL. CFM</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D Ø</th>
<th>D1 Ø</th>
<th>E</th>
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* The shaft diameters identified as “D1” apply only to C-Face vacuum boosters.

*Approximate shipping weight.

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

1-800-825-6937

Your Local Sales Professional: