Vortron's most compact AIRPOWER® model, the J70 specializes in the lower flow, but higher pressure applications (90-130 in-h2o) without need for excessive impeller speeds. Still, the J70 attains a peak efficiency of 76%! Ideal for high-performance air knives, blow-off, or de-watering systems where high production throughput is required, but manufactured articles are smaller in scale. Also ideal for medium-sized fluidized beds or where large pressure drop/long piping runs exist. Use with air or non-corrosive process gas.

MODEL DESIGNATION: J-70

DESCRIPTION:
Single-stage centrifugal compressor, belt driven, permanently-lubed high-speed spindle.

DRIVE SYSTEM:
Micro-groove multi-ribbed belt with dual-bearing backside automatic tensioner. Integral Fresh-Aire™ cooling system for belt, tensioner/idler, spindle assembly longevity.

SPINDLE ASSEMBLY:
ABEC 9 precision bearings, permanently lubricated.

SEALS:
Standard: High Performance PTFE Lip
High-Speed: (1) Controlled-Gap Labyrinth Seal

MATERIALS of CONSTRUCTION:
Housing, Volute, Mounting Plate: A356-T6 Aluminum
Impeller: Investment Cast Aluminum
Shaft: Standard: Alloy Steel, Heat-treated
Optional: Stainless Steel
Main Drive Pulley: A356-T6, Hard Anodized
Compressor Pulleys: Stainless Steel
Cover: High-Impact Cross-Linked PE

OPERATING SPEED:
14,000 to 28,400 RPM

PERFORMANCE:
See Compressor Map For Actual Performance At Specific Operating Point:
Max. Flow (SCFM): 1050
Max. Pressure (in-h2o): 154
Peak Isentropic Effy (%): 75
Ratings: To 20 HP

PEAK TEMPERATURE:
Inlet (°F): To 130°; max. not to exceed 200° at discharge
Discharge (°F): To 200°

LAYOUT:
NEMA C-Face Mount (180 - 256 Series Frame)
Vertical or Horizontal Orientation

Connections (Tubular O.D.):
Inlet: 4.0 in.
Discharge: 3.0 in.; Full 360° Discharge Orientation
Rotation: Clockwise or Optional Counterclockwise
(as viewed from inlet)
Dimensions: Refer to installation drawing

SYSTEM OPTIONS:
Suction Filters: (1) High-Performance washable element or HEPA
(2) Integrated filter/silencer
Mounts: (1) Rigid steel rails
(2) Compliant vibration isolation mounts.
Motors: Inverter duty, premium efficient, washdown, explosion proof

SPECIFICATIONS SUBJECT TO CHANGE.
### Vortron's AIRPOWER® Series Of Industrial Blowers

#### J-70

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<th>MOTOR SERIES</th>
<th>STANDARD MOUNTS</th>
<th>ISOLATION MOUNTS</th>
<th>AG</th>
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<th>B</th>
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### Motor Series Diagrams

**MOTOR SERIES:**
- **4x 9/16" Anchor Bolt Holes**
- **OUTLET**
- **INLET**
- **OAH**
- **BOLT HOLES**
- **Ø4"**
- **Ø3"**
- **6 11/32"**
- **14"**
- **5 1/4"**
- **6 3/16"**
- **A**, **B**, **C**

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**Power at 85°F Inlet:**
- **HP = 240 x 0.537 x (P.R. - 1) x 0.746**

**Pressure Ratio P2o/P1o:**
- **Lb/Min**
- **CFM**

**Graphs:**
- **CMF (1000 - 1300)**
- **Lb/Min (0 - 100)**
- **RPM (0 - 100)**

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