



# Vortron Industrial Data Sheet

## Centrifugal Blowers, Dryers, Aerators, Forced-Air Cleaners

### Vortron's **AIRPOWER**® Series Of Industrial Blowers

# J-70

Vortron's most compact **AIRPOWER**® model, the **J70** specializes in the lower flow, but higher pressure applications (90-130 in-H<sub>2</sub>O) 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-H<sub>2</sub>O):** 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)

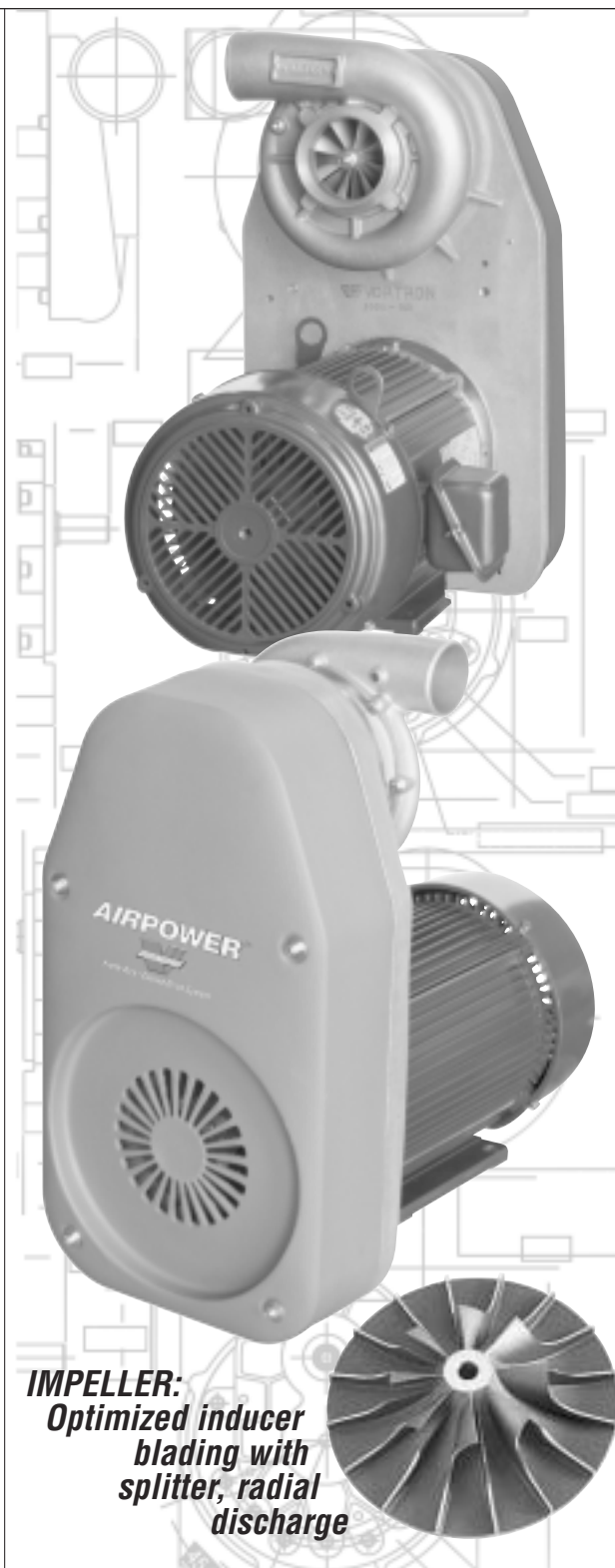
**Dimensions:** Refer to installation drawing

#### 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



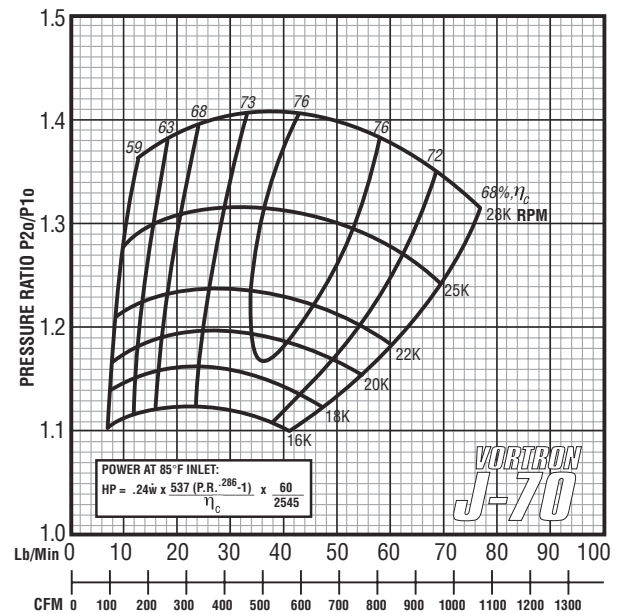
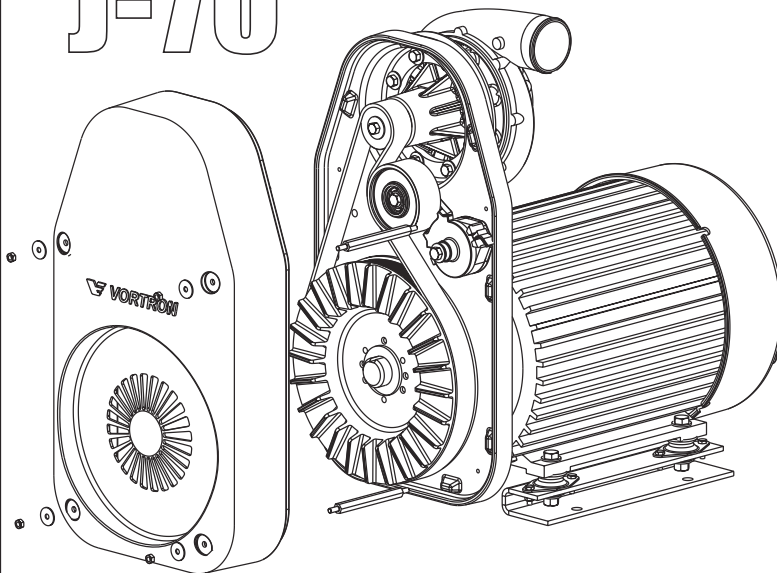
**IMPELLER:**  
*Optimized inducer  
blading with  
splitter, radial  
discharge*

**AIRCOM**  
TECHNOLOGIES  
Inc.

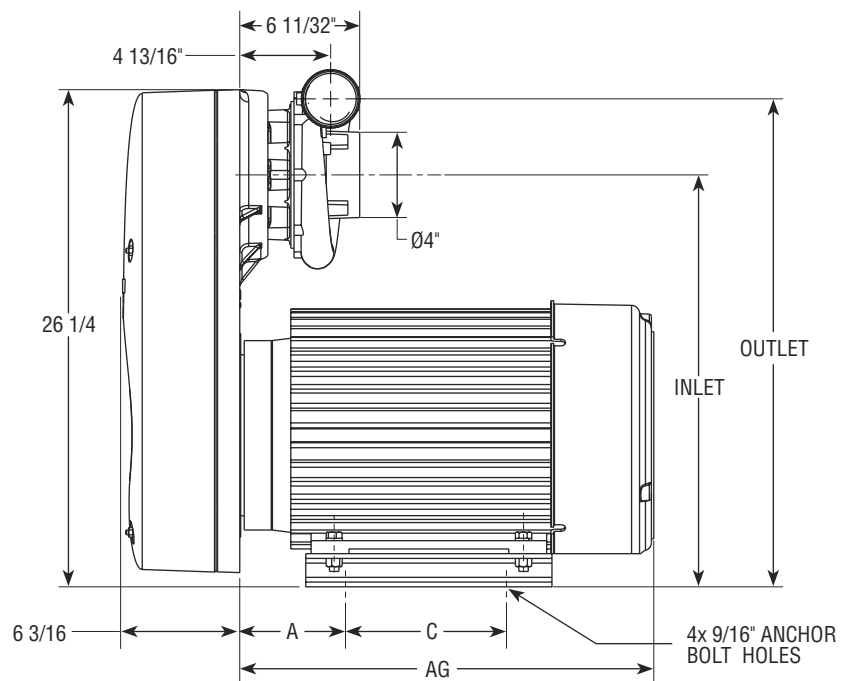
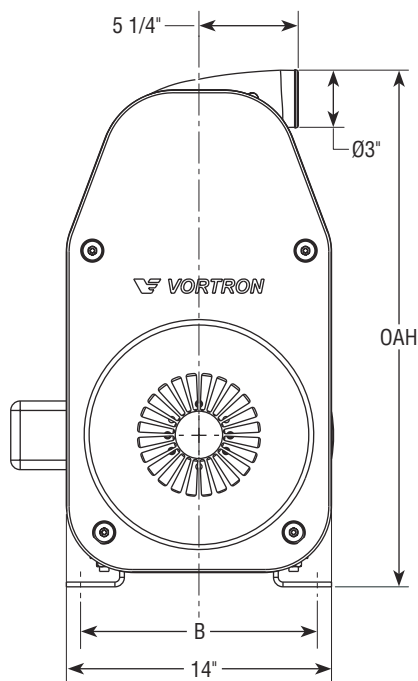
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# J-70



MOTOR SERIES	STANDARD MOUNTS			ISOLATION MOUNTS			AG	A	B	C	Wt(lbs)
	OAH	INLET	OUTLET	OAH	INLET	OUTLET					
182TC, 182TCH	27 9/16	21-3/4	25 3/4	27 1/2	21-3/4	25 3/4	13-1/2	3	10	8-1/2	123
184TC, B184TC, 184TCH, B184TCH	27 9/16	21-3/4	25 3/4	27 1/2	21-3/4	25 3/4	13-1/2	3-1/2	10	8-1/2	140
213TC	27 9/16	21-3/4	25 3/4	27 1/2	21-3/4	25 3/4	15-1/2	3-1/2	11	8-1/2	170
215TC	27 9/16	21-3/4	25 3/4	27 1/2	21-3/4	25 3/4	17	4-1/4	11	8-1/2	180
254TC	27 9/16	21-3/4	25 3/4	28	22-5/16	26 5/16	20-1/8	4-7/8	12-1/2	8-1/2	280
256TC, B256TC	27 9/16	21-3/4	25 3/4	28	22-5/16	26 5/16	21-7/8	5-3/4	12-1/2	8-1/2	300



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