The flagship of Vortron's AIRPOWER® series. Where flows of 600 to 1600 SCFM at pressures at or above 70 in-H2O are required, the Z40e surpasses all others! This model exhibits an extraordinarily flat flow/pressure characteristic that is notably absent of the typical "drooping" curve. In some cases, this enables a single Z40e to do the work of multiple units. 80% peak efficiency is attained. Ideal for ultra high-performance air knives, high volume blow-off, and de-watering applications typical with canning, beverage, and electronic industries. Also, air evacuation, aeration, large fluidized beds, air or non-corrosive process gas.

MODEL DESIGNATION: Z40e
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:
Max. Flow (SCFM): 1600
Max. Pressure (in-H2O): 200+
Peak Isentropic Effy (%): 80
Ratings: To 25 HP

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

LAYOUT: NEMA C-Face Mount (180 - 284 Series Frame)
Vertical or Horizontal Orientation

Connections (Tubular O.D.):
Inlet: 5.0 in.
Discharge: 3.5 in.; Full 360° Discharge Orientation
Rotation: Clockwise (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

### Z-40e

<table>
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| 284TC                | OAH 30-1/64     | INLET 23-1/16    | OUTLET 28-3/8 | 23-7/8 | 6-1/4 | 13-1/2 | 8-1/2 | 360  |

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Vorton Industrial - 1650 Pacific Avenue, Channel Islands, CA 93033-9901 • Tel: 805 240-2516 • Fax: 805 487-5468

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