

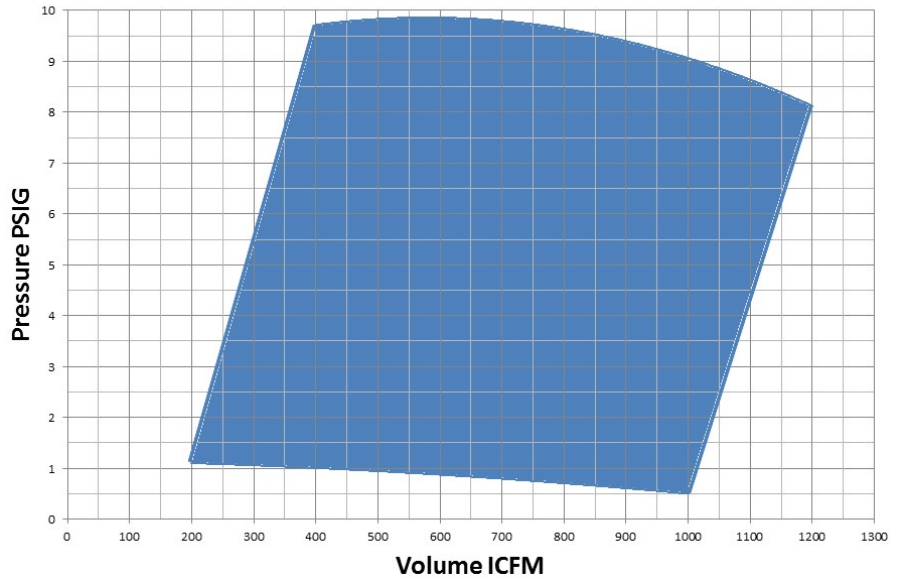
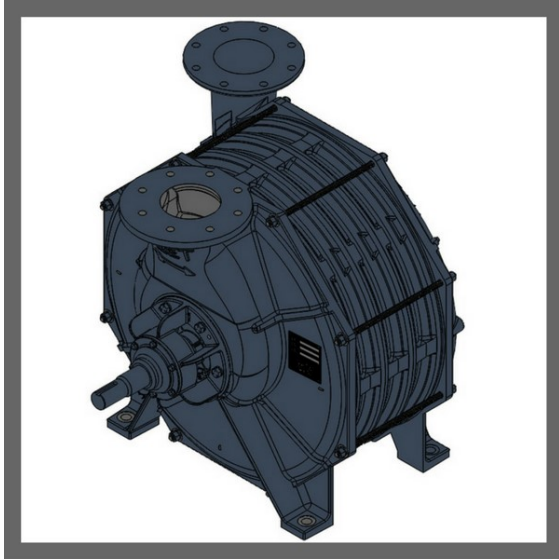
National Turbine Corporation

374 Northern Lights Drive
 Syracuse, NY 13212
 Phone: 888-293-7434 Fax: 315-455-5545
 www.nationalturbine.com
 sale@nationalturbine.com

CENTURION SERIES TECHNICAL DATA AND DIMENSIONS

Series NT442 Multistage Centrifugal Blower

General Performance Range



Technical Specifications

Number of Stages	1 through 8
Inlet Connection	6" (127 mm) Flat Faced Flange, ASA 125# Drilling
Outlet Connection	6" (127 mm) Flat Faced Flange, ASA 125# Drilling
Operating Speed	3550 RPM
Maximum Casing Pressure	20 PSIG (1.41 kg/cm ²)
Seals (air)	Labyrinth
Seals (gas)	Packing Gland (Special Seals Available)
Bearings	Ball, 10-Year Minimum Life per AFBMA B-10 Standard (Made in U.S.A.)
Lubrication	Grease (Standard) or Oil (Optional)
Impeller Diameter	24" (609.6 mm)
Impeller Tip Speed	22,305 FPM (6,798 m/min)
First Critical Speed	XXXX RPM (8 stages)
Direct Drive	Direct Coupled (belt drive available)
Max. Vibration Spec.	0.25 in/sec (ISO Overall Spec.), 1.25 Mills Peak to Peak
Shaft End.....	1.625" (41.28 mm) Diameter, Inlet Drive Standard
Noise Level	Compliant With OSHA Standards (Certified test available)

Materials of Construction

Casing	Cast Iron ASTM A48 grade 25/30
Bearing Housings	Cast Iron ASTM A48 grade 25/30
Bearing Caps.....	Cast Aluminum Alloy
Oil Reservoir (with optional Oil Lubrication)	Cast Aluminum Alloy
Shaft	Carbon Steel AISI 4140 (Stainless Steel Available)
Impellers	Cast Aluminum Alloy
Labyrinth Seal	ZA-12 Zinc Alloy
Gas Seals	Cast Aluminum Packing Gland With Braided Packing
Tie Rods	Galvanized Steel
Base and Pedestal	Structural Steel
Joint Sealing Compound	RTV Silicone
Base Pads	Neoprene Rubber
Finish	Industrial Enamel



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Series NT442 Multistage Centrifugal Blower General Dimensions (all dimensions in inches)

Stage	A	B	C	F	L
8	32 - 7/8	33 - 5/16	405TS - 100 HP	72	88
7	29 - 7/16	29 - 7/8	405TS - 100 HP	72	88
6	26	26 - 7/16	365TS - 75 HP	72	88
8	32 - 7/8	33 - 5/16	256T - 20 HP	60	76
7	29 - 7/16	29 - 7/8	286TS - 30 HP	60	76
6	26	26 - 7/16	326TS - 50 HP	60	76
5	22 - 9/16	23	364TS - 60 HP	60	76
4	19 - 1/8	19 - 9/16	326TS - 50 HP	60	76
4	19 - 1/8	19 - 9/16	284TS - 25 HP	48	64
3	15 - 11/16	16 - 1/8	324TS - 40 HP	48	64
2	12 - 1/4	12 - 11/16	284TS - 25 HP	48	64
2	12 - 1/4	12 - 11/16	215T - 10 HP	36	52
1	8 - 13/16	9 - 1/4	254T - 15 HP	36	52

