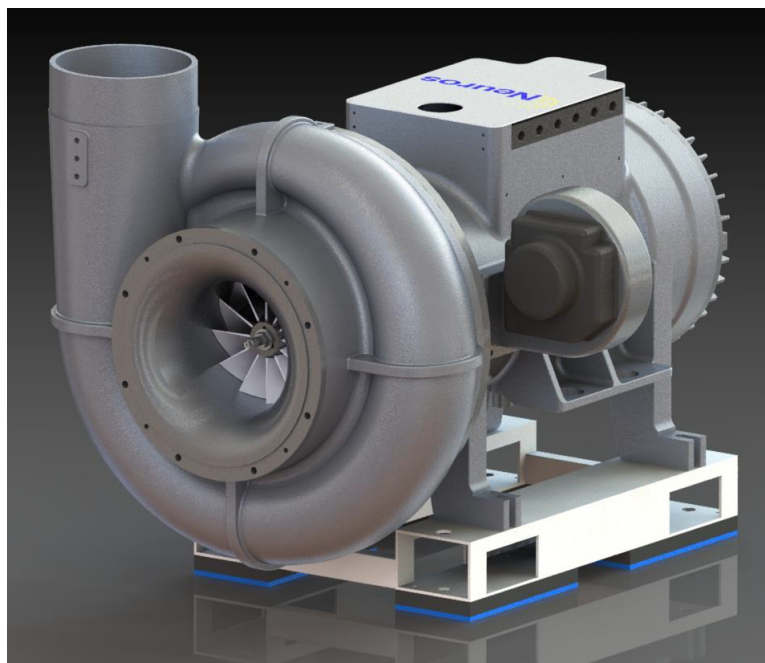


APGN500 SERIES TURBO BLOWER

FACT SHEET



- 1** up to 40% more energy efficient*
- 2** excellent reliability with SKF magnetic bearing
- 3** wide turndown ratio
- 4** remarkable reduction in energy/maintenance/installation costs
- 5** low noise and vibration
- 6** “plug & play” turbo blower low cost easy installation
- 7** user-friendly control system
- 8** minimal maintenance and downtime



UP TO
40%
Energy Savings

OVER
50%
Smaller Footprint

UP TO
80%
Turndown

BELOW
80 dBA
Low Noise

* than other blower technologies

APGN500 SERIES TURBO BLOWER - Performance Data

Overview		Operating Conditions	
Series	APGN	Performance Testing	ASME PTC 10
Blower Installation Location	Indoor/outdoor (canopy)		ASME PTC 13
Working Fluid	Air		ISO 5389
Number of stages	Single stage		

Turbo Blower Design Specifications	
Design pressure range	5 - 15 psig
Design suction flow rate	4000 - 13000 SCFM
Operating speed range	12,900 - 21,000 RPM
Motor rating (horsepower)	470 - 940 HP
Casing design pressure	284 psig
Casing design temperature	302 °F

Technical Specifications	
Bearing	Active Magnetic Bearing
Motor	Permanent Magnet Synchronous Motor
Winding Insulation class	Class F
Winding temperature rise	Class B
Coupling	Direct coupling
Motor starter	Variable Frequency Drive
Harmonic filter	Outside or integrated inside the blower enclosure
Power supply	380 - 500V, 3 phase, 50/60 Hz *
Inlet configuration	Louver/flange
Discharge configuration	Vertical/cone extension from KS to ANSI
Noise	< 80 dBA
Motor/VFD cooling	Water/air cooling - fully enclosed
Product design life	30 years

* Medium voltage is available upon request

APGN500 SERIES TURBO BLOWER - Performance Data

Controls and Monitoring

Control panel	PLC based (Allen Bradley, Siemens, Modicon, GE, Mitsubishi)
Control method	Flow/speed/pressure/dissolved oxygen
Integrated pressure sensors	Ambient, discharge, filter pressure drop
Integrated temperature sensors	Suction, discharge, motor, bearing
Vibration monitoring	Active Magnetic Bearing

Material of Construction

Blower casing	Aluminum Alloy
Impeller	Forged aluminum alloy (AL7075)
Active Magnetic Bearing	Mix of copper, Silicon Steel Lamination
Shaft	STS Steel
Blow-off valve	Carbon steel electro pneumatic
Blower enclosure	Powder coated steel with sound dampening material
Blower enclosure skid	Structural steel construction with fork lift access ports
Electrical components coating	IEC 60721-3-3 class 3C3 Conformal Coating

APGN500 SERIES TURBO BLOWER - Performance Data

