# NX SERIES TURBO BLOWER

## FACT SHEET

1. up to 40% more energy efficient*
2. low noise and vibration
3. “plug & play” turbo blower
   low cost easy installation
4. reduces operating and maintenance costs
5. reduces power consumption
6. reduces environmental footprint
7. easy of operation
8. minimal maintenance and downtime

| UP TO | OVER | UP TO | BELOW |
|---|---|---|---|
| 40% | 50% | 80% | 80 dBA |
| Energy Savings | Smaller Footprint | Turndown | Low Noise |

* than other blower technologies

# NX SERIES TURBO BLOWER - Performance Data

## Overview

| | |
|---|---|
| Series | NX |
| Blower Installation Location | Indoor/outdoor |
| Working Fluid | Air |
| Number of stages | Single stage |

## Operating Conditions

| | |
|---|---|
| Certifications | UL 1450 |
| | CSA |
| | CE |
| Performance Testing | ASME PTC 10 |
| | ASME PTC 13 |
| | ISO 5389 |

## Turbo Blower Design Specifications

| | |
|---|---|
| Design pressure range | 4 - 15 psig |
| Design suction flow rate | 250 - 23,000 SCFM |
| Operating speed range | 14,000 - 58,000 RPM |
| Motor rating (horsepower) | 30 - 1000 HP |
| Casing design pressure | 284 psig |
| Casing design temperature | 572 °F |

## Technical Specifications

| | |
|---|---|
| **Bearing** | **Dual layer bump foil air bearing / Active Magnetic bearing** |
| **Motor** | **Permanent Magnet Synchronous Motor** |
| Insulation class | Class H |
| Winding temperature class | Class B |
| Coupling | Direct coupling |
| Motor starter | Variable Frequency Drive |
| Harmonic filter | Integrated inside the blower enclosure |
| Power supply | 380 - 480V, 3 phase, 50/60 Hz * |
| Inlet configuration | Louver/flange |
| Discharge configuration | Vertical/horizontal ANSI 150 lb flange |
| Noise | < 80 dBA |
| Motor/VFD cooling | Air/glycol cooled - fully enclosed |
| Product design life | 30 years |

* Medium voltage is available upon request

# NX 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 | AEC: Motor vibration sensor |
| Network communication | Ethernet IP/Modbus/Profibus/Hard-wiring |

## Material of Construction

| | |
|---|---|
| Blower casing | Aluminum Alloy |
| Impeller | Forged aluminum alloy (AL7075) |
| Air Bearing | Nickel-base Super Alloy Inconel (INCO718) |
| Shaft | Titanium Ally (Ti-6AL-4V) |
| 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 |

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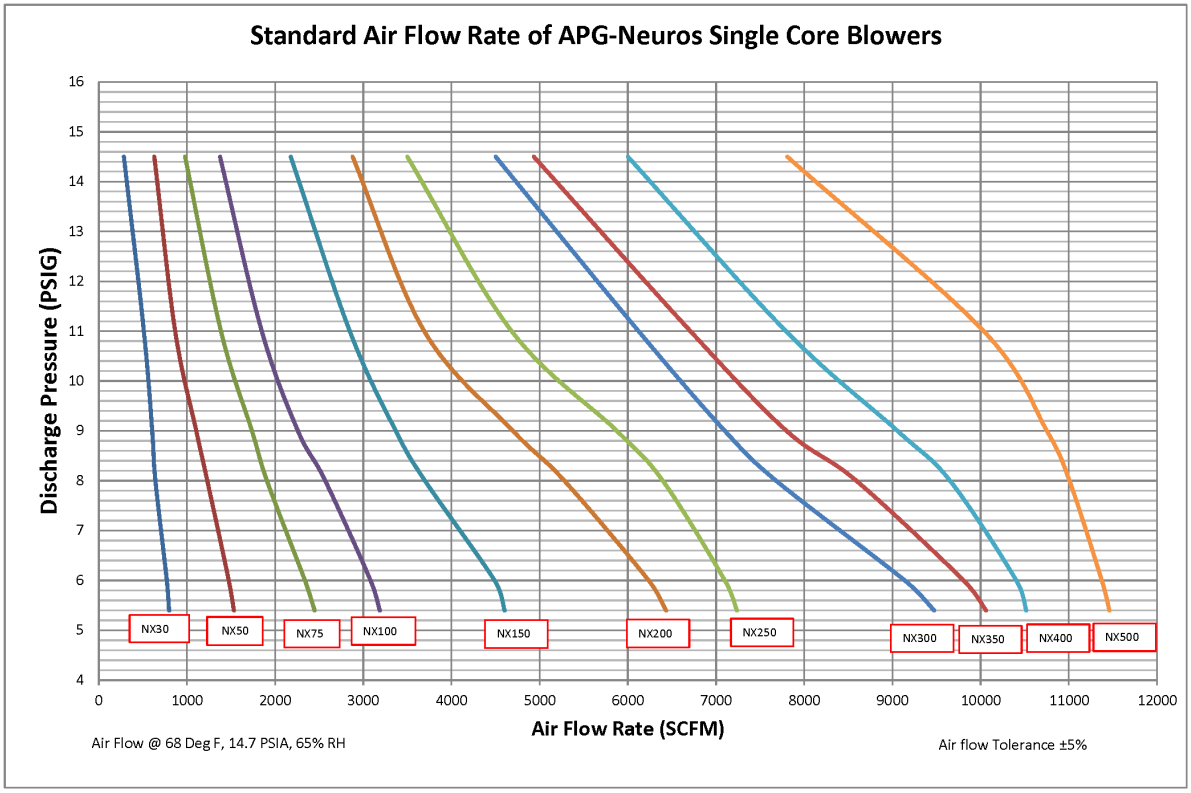


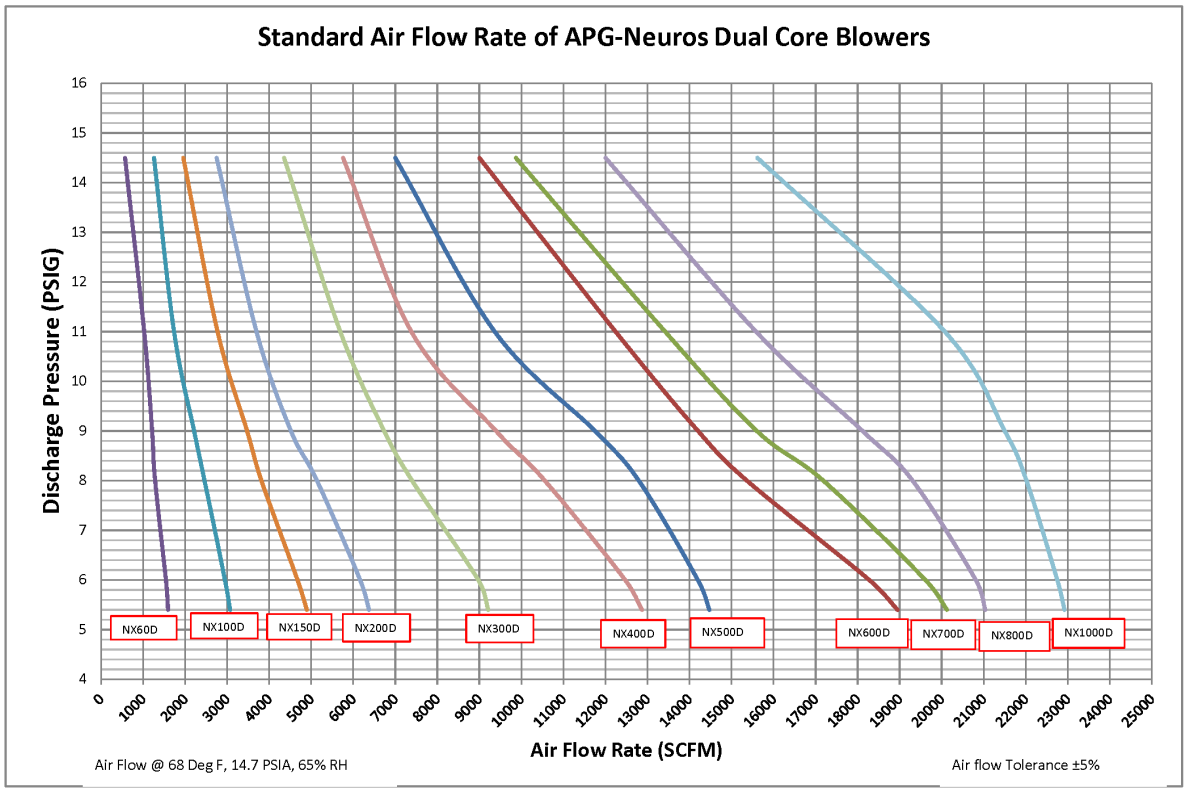

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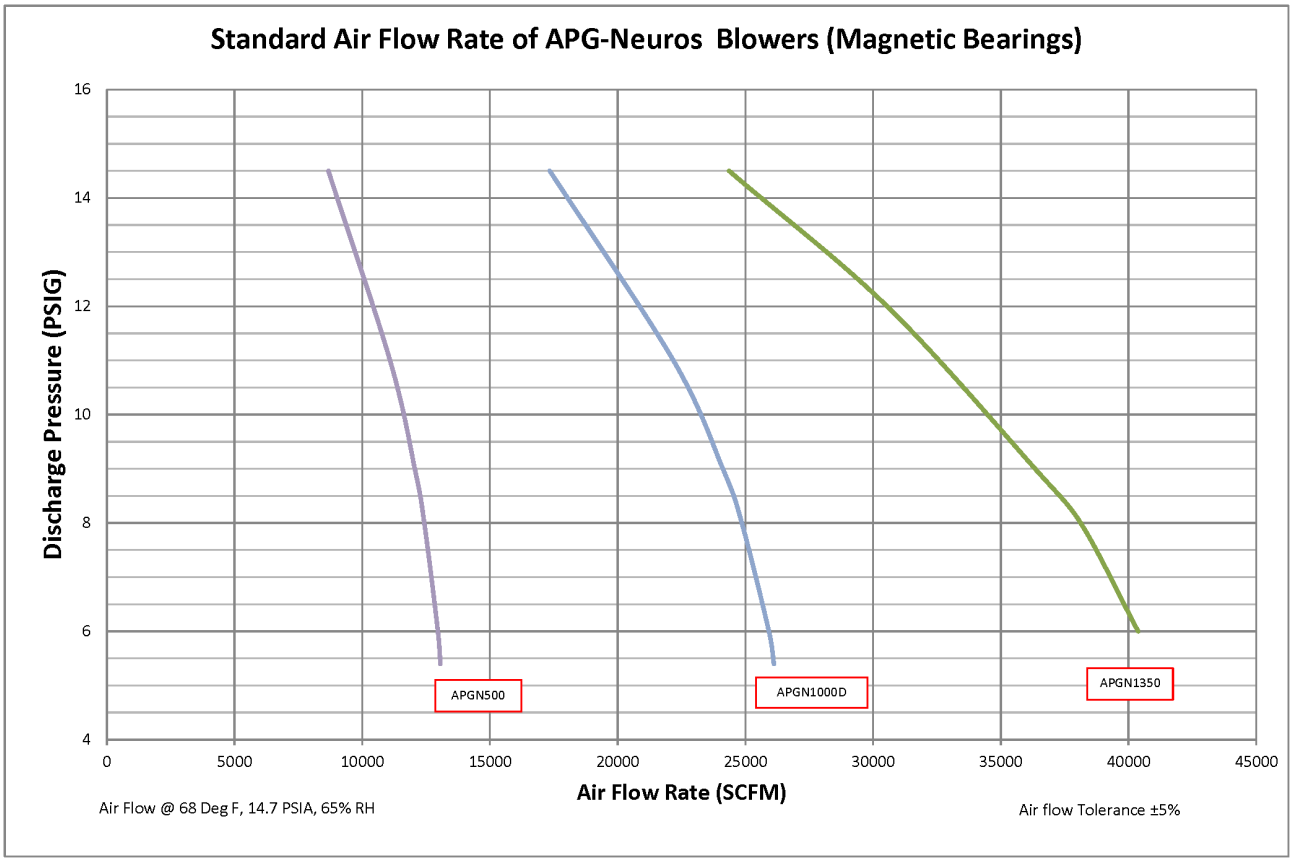


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