

NSGV IN-LINE BACKWARD INCLINED BELT DRIVE

CLASS I BLOWER SPECIFICATION

GENERAL DESCRIPTION: The NSGV Tubular Centrifugal In-Line Belt Drive Blowers are rated for Class 1 performance catalogued to 5" W.G. static pressure. Heavy gauge welded steel construction is used for the housing, motor base assembly, and mounting frame. The non-overloading characteristic provides a brake horsepower that levels off at a point to allow economical selection of motors that will not overload if the system pressure drops. Blowers are shipped as a complete, self-contained package, which allows ease of installation, maintenance, lubrication (if applicable), belt adjustment, and wiring. The in-line blowers are available in 6 mounting options, eight different motor positions, and arrangement 9 or 1. **Note:** Blowers are factory set to exact blower speed to meet the application specification. If submitted information along with the system design is correct, no field adjustments to blower speed or performance should be required.

TECHNICAL CHARACTERISTICS:

Performance range:	400 cfm up to 12,662 cfm
Housing Construction:	14 gauge minimum continuous welded seams with integral inlet and outlet flanges.
Wheel Type and Construction:	Centrifugal Backward Inclined, airfoil type welded steel construction
Shaft:	Hot rolled solid steel precision turned, ground, and polished with keyway at each end.
Bearings:	Self-aligning, re-greasable ball or roller type in a cast iron pillow block housing.
Motor:	Industrial heavy-duty type with permanently sealed ball bearings.

ACCESSORIES AVAILABLE:

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| 1. Drive Cover | 5. Aluminum Wheel |
| 2. Vibration Isolators | 6. Phenolic coating air stream |
| 3. Explosion-Proof or TEFC Motor | 7. Flexible connections for inlet/outlet |
| 4. AMCA Type B spark-proof construction | 8. Disconnect |

SUGGESTED SPECIFICATION

The Class 1 #_____ in-line, non-overloading, centrifugal belt drive blower shall be built in accordance with AMCA 210 guidelines as well as OSHA 1910 general sound requirements. The blower housing shall be constructed of not less than 14 gauge carbon steel. The blower impellers shall be continuously welded to the back plate and accurately balanced both statically and dynamically when installed by the manufacturer. The blower shall be designed for not less than 150 percent of the connected driving capacity, and the motor sheaves adjustable to provide not less than an overall 20 percent speed variation. Sheaves shall be selected to drive the blower as such speed to produce the specified capacity when set at the approximate midpoint of the sheave adjustment. Motors for v-belt drives shall be provided with adjustable steel base plate assemblies. Delivered air volume, static pressure and motor brake horsepower shall be as indicated on the blower schedule.

The drive assembly shall include a singular solid steel shaft, which is turned, ground, and polished. Belts provided are to be oil resistant, and sheaves are machined cast iron type. Ball bearings are to be self-aligning pillow block type.

Standard AMCA arrangements shall be provided unless otherwise indicated. Blower rotation and discharge shall be indicated. Fans shall be totally free of objectionable vibration and noise.

(Insert accessories here)

The belt-drive blower shall be a standard product as provided by National System of Garage Ventilation (NSGV) in Decatur, IL or approved equal.

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