

FANTASTICS

A Quarterly Industrial Ventilation Newsletter

Second Quarter 2016



Company News

- **TECO WESTINGHOUSE** introduces the model F510 product line of VFD's specifically designed for fans, blowers, and pumps which all require variable torque motors. These VFD's are currently available from 5 HP through 150 HP for the 230 volt models and 5 HP through 250 HP for the 460 volt models. Compared to other VFD's that are designed for both variable and constant torque, the F510 models are lower in cost.
- **HARTZELL AIR MOVEMENT** has introduced a new product line of propeller fans that utilize swing-out rear guards and highly polished cast aluminum propellers. These models are available from 12" – 60" in direct drive with belt drive models to follow.

VENTILATION SPECIALISTS, INC.
Finished #1 for increased sales of Cincinnati Fan in South Florida and finished #5 for sales of IAP, Inc. in Florida and Latin America!



Company News

- **CINCINNATI FAN** has vastly expanded its direct drive tube axial fan product line with many new cast aluminum propellers that can operate out to 4" S.P. Fan models from 12" – 48" are available all capable of being VFD driven..
- **NORDFAB** has introduced both 12 and 14 gauge, galvanized steel, quick fitting, XD ductwork to better serve the heavy duty industrial markets such as dust and fume and mist control systems. Nordfab ductwork can be easily changed after the original installation if new equipment requiring an exhaust system is involved.
- **FLEXIBLE SPECIALTY PRODUCTS** is now working with VSI to increase sales of expansion joints, metal bellows, and high temperature flexible ducting, all used to isolate fans and blowers from ductwork and supporting structures.

Engineering Report

There are two ways to air convey product without the product going through the blower. One commonly used method is a vertical drop hopper that free falls the product at the discharge of a centrifugal blower.

A second method is to install an air-to-product separator such as a dust collector, cyclone, or in the case of gasses, a scrubber. Installation of the blower would be on the clean side of the collector.

Another method is to convey the product through the blower. This fan must be radial design only. Hundreds of different materials can be conveyed through radial wheel centrifugal blowers. In order to be successful, each product must be identified as to its density, minimum conveying velocity, airflow per pound of material, and suction pickup static pressure loss.

Product information such as stickiness, explosive capability, corrosion potential, higher than ambient airstream temperatures, abrasion possibility, and elevation all play a factor on the design of a materials handling system.

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