FANTASTICS

A Quarterly Industrial Ventilation Newsletter

First Quarter 2014

Company News

- **PRICE INCREASES** – The following fan, blower, and filter companies are increasing prices as outlined below:

Company	% of Price Increase	Effective Date
Hartzell Air Movement	5%	2/1/14
American Coolair Corp.	3.27%	2/15/14
Penn Barry	7%	1/6/14
Nederman	3%	3/1/14
Cincinnati Fan & Ventilator Co.	4%	No set date
Tri-Dim Filter Corp.	3%	No set date

- **UNITED ENERTECH** introduces a number of new louver products including AMCA rated dampers, aluminum FEMA grills, 5" deep rain driven louvers, thermal break dampers with AMCA thermal efficiency ratings, salt water resistant dampers, and a combination louver/damper that can withstand high impact bomb or explosion blasts.

- **IAP, INC.** introduces a 36 page Industrial Air Products bulletin which outlines both standard and custom axial and centrifugal blowers along with a complete description of available accessories which can be viewed at http://iapfan.com/files/220.pdf.

- **CINCINNATI FAN & VENTILATOR COMPANY** completes converting all old microfilm orders back to 1971. Locating old orders for parts or complete duplicate fans is now possible.

- **NEDERMAN** – The line of high vacuum portable dust collectors will be available from stock in Thomasville, North Carolina starting in 2014.

Technical Tidbit

Over the years there has been considerable discussion as to why a fan or blower does not perform exactly as the published data provided by the equipment manufacturer. This difference has been called "systems effects."

More than 90% of the time, the difference in performance is attributable to how this fan or blower was installed. The following outlines a number of causes for a variance:

1. Air flow systems should be designed to handle the actual air density, temperature, and elevation that the fan or blower will encounter.
2. The amount of negative static pressure on the blower inlet should be accounted for.
3. The inlet to the fan or blower should have a straight duct that is 2.5 times the fan inlet size.
4. Selection of the fan or blower should not be on the back of the fan curve.
5. Fan discharge elbows should be installed in the same direction as the wheel rotation.
6. Airflow and static pressure test data need to be taken in straight duct runs where the CFM is mostly uniform across the cross section of the ductwork.

VENTILATION SPECIALISTS, INC.

PO Box 750, Winter Haven, FL 33882

Phone: 863-299-8234 / 863-299-3999 / 863-324-4000 Fax: 863-294-3646

Email: vsifans@tampabay.rr.com / Website: www.vsifans.com

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