

FANTASTICS

A Quarterly Industrial Ventilation Newsletter

Third Quarter 2018



Company News

- **HARTZELL AIR MOVEMENT** announces an expansion of their inlet and outlet blower control damper lines to include aluminum, mild steel, stainless steel, or FRP construction.
- **CINCINNATI FAN CO.** announces the purchase of Strobic Air Corporation, a manufacturer of axial fans.
- **PENN BARRY** has added direct drive Domex and Fumex models to the Miami-Dade certified family of products. A host of severe duty supply and exhaust fan options for air movement in high-wind hurricane zones are available.
- **UNITED ENERTECH**, manufacturer of louver and dampers, now offers a "rush" shipment program, offering 10, 5, and 3 working day shipments.



VSI News

- **VENTILATION SPECIALISTS, INC.** announces the representation of Universal Fan Co., headquartered in Ontario, Canada.
- **VENTILATION SPECIALISTS, INC.** has been awarded a contract to supply and install (23) twenty three 48" Ø power exhaust roof ventilators for a Hillsborough, FL manufacturing plant.

Increases in aluminum and steel tariffs has caused all of our represented manufacturing companies and motor manufacturers to increase prices.

Engineering Report

This time of year in Florida produces an increase in sun load on manufacturing buildings. From the following equation, one can determine the BTU/HR sun heat load based on the existing ventilation and indoor to outdoor temperature differential.

$$\text{BTU/HR} = \text{CFM} (1.085)(T_2 - T_1)$$

CFM is the cubic air per minute being exhausted. T_2 is the indoor plant air temperature and T_1 is the outdoor shade temperature. In Florida, the target for $T_2 - T_1$ is normally 10° F.

Once the existing BTU/HR sunload is calculated, an increased CFM can be determined. The differences between the existing CFM and the increased CFM will be the exhaust air which will need to be added.

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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