

FANTASTICS

A Quarterly Industrial Ventilation Newsletter

Fourth Quarter 2023



COMPANY NEWS

YRC (Yellow), one of the largest LTL trucking companies has filed for bankruptcy. YRC could not reach a deal with the unions. YRC was the third largest trucking company in the United States.

Cincinnati Fan has improved both axial and Centrifugal fans shipments. Standard fans can often ship in 24 - 48 hours when expedited.

Standard shipment is outlined as follows:

Cast Aluminum fans - 2 weeks
Fabricated axial fans - 4 weeks
Fabricated centrifugal blowers - 7-8 weeks

The Department of Energy request for premium Efficiency emailed a few years ago did not occur all motors. They recently announced that all motors must meet regulated efficiencies at all voltages and frequencies. This change will require motor nameplate and service panel labeling requirements. Hopefully how and when this must be completed will be forthcoming.

Cincinnati Fan has completed adding large backward curved and backward inclined fans from 40" to 60" Ø to their product line.



ENGINEERING REPORTS

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. Airflow 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 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.

VSI NEWS

We continue to receive many requests for evaluation of existing company ventilation that can improve working conditions within their manufacturing plants.

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: fans@vsifans.com / Website: www.vsifans.com

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