

Air Handling Systems Newsletter

INDUSTRIAL STRENGTH Ductwork Direct

JULY 2012

"Combustible Dust" and "Wood Shop Dust Collection" FREE SEMINARS at IWF



Next month the woodworking community will gather for the largest woodworking event in the western hemisphere. [IWF the International Woodworking Fair](#) will be held in Atlanta, GA at the Georgia World Congress Center, August 22-25.

Staff of Air Handling Systems will be presenting **TWO FREE** seminars as part of the Technology Theatre

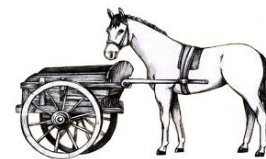
"Combustible Dust - An Explosive Issue" will cover - What is Combustible Dust? Who's in Charge? Can it Happen in My Facility? and Prevention! Presented by Jamison Scott. Thursday, August 23 from 10:00-10:20am in Building B.

"Wood Shop Dust Collection - How much air do I need?" will cover - How much CFM (cubic feet per minute) is required for a hood outlet diameter? Additionally, manifold sizing for multi port moulders and multi port wide belt sanders will also be discussed. Presented by Curt Corum. Thursday, August 23 from 10:30-10:50am in Building B.

At any time during your visit please plan to stop by and see our [Air Handling Systems](#) booth prominently located next to the "Men's Room" in Building B, **Booth 5800**.

Don't put the CART before the HORSE!

There are many woodworkers that buy a dust collector on the basis of a CFM number.



Unfortunately, the air volume they are given is called "free air delivery", that means, there is NO pipe attached to the dust collector. This CFM number may very well be enough air to evacuate the machines, but when you add pipe to the collector you add resistance (static pressure). When resistance is put on a collector, the CFM delivery decreases. The actual air delivery of a dust collector is typically half of the "free air" factor once it is piped in. It is important to first find out your systems CFM and RESISTANCE (Static Pressure), then purchase the right collector. A dust collector must be able to overcome the piping resistance and pull vacuum from the machines you need to operate simultaneously. Which leads us to...

What is Static Pressure?

Static Pressure is resistance to flow caused by friction and the channeling of airflow through a round pipe. If you turn on a dust collector without anything attached to it - spiral pipe, flexible hose, or filter bags, it will pull max volume at free air without any resistance. Attach filter bags and 10 feet of spiral pipe to the inlet and you have added resistance. Add 20 more feet of spiral pipe and so on - you increase resistance as you add more spiral pipe and fittings.

It is the dust collector's job to overcome the

NEW Products

We are continually expanding our product offerings.

4" Floor Sweep - We find many customers have a 4" branch they want to use for a floor sweep. They order a 05SR04 Spun Reducer and 5" Floor Sweep which will not work well. To solve this issue we have added a 4" Floor Sweep, part # [_04FSWEEP](#).

Long Radius Elbows - We also have added heavier 18 gauge galvanized fully welded elbows. Center Line Radius (CLR) is 2.5 x diameter. These are found on the [Long Radius Welded Elbows](#) page.

Air Tight Blast Gates - Our Air-Tight Blast Gates are used in industrial dust extraction and kept in the closed position until the vacuum source is needed. These blast gates increase the efficiency of the vacuum system by closing off inactive segments thus increasing the vacuum pressure at other active areas. [Click here for more info on Air Tight Blast Gates.](#)

duct work resistance and pull the proper amount of CFM when you open a branch or branches in a central dust collection system. When you drink a soda with a regular straw it does not take much effort. If you have ever seen kids trying to drink a soda with a curly straw, they strain trying to get the soda to flow. They are trying to overcome the resistance of the long run and several bends.

You can run as much duct work in a system as long as the resistance has been compensated for and the CFM is delivered as required.

"Inches of Water" on a scale is used to measure the resistance in a duct system. It can be equated to the resistance to lift water by inches in a tube.

One more resistance analogy is from the old days of siphoning gas. Remember the resistance in the garden hose we had to overcome to get the gas flowing?

For more information on dust collection system tips click here:

<http://www.airhand.com/designing.aspx>

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