

## Air Handling Systems Newsletter

[www.airhand.com](http://www.airhand.com)

INDUSTRIAL STRENGTH  
Ductwork Direct  
AUGUST 2016

### Buying a dust collector at IWF?

**CAUTION**  
**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

### Visit us at IWF Booth 5518

#### IWF 2016

August 24-27

Make plans now to attend  
the International  
Woodworking Fair,

Atlanta, GA. See Air Handling Systems at  
Booth 5518.



### Combustible Dust Seminar @ IWF

**Combustible Dust - An Explosive Issue,**  
**presented by Air Handling Systems and**  
**sponsored by WMMA.** For more information  
[click here](#). Thursday, August 25, 11:30-12:30.  
IWF, Atlanta, GA

### Shipping Spiral Pipe

Can you ship me just 3, 10 foot lengths of 6"  
spiral pipe?



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.

## Understanding 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 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](#).

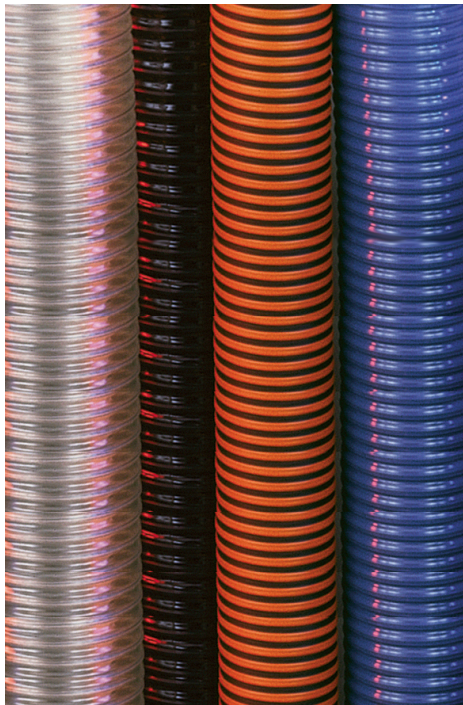
Air Handling Systems [Technical Data and Specifications click here](#).

Yes we can, but it is not practical. It is far more reasonable to simply ship 6, 5 foot lengths. Ten foot lengths of spiral pipe must ship via LTL common carrier; i.e., ABF, YRC, Estes, Fedex Freight. It is absolutely critical that the 10 foot lengths are crated for transport. The spiral pipe crates we manufacture are very sturdy and the crating charge is less than cost. The maximum distance the crates can be shipped is Central United States. For Mountain and Pacific time zones, we are able to ship our 5 foot pipe lengths. Our experience tells us, pipe crates just won't make it that distance without the possibility of damage.



The real issue is weight of the spiral pipe in the crate. In order to obtain a good shipping rate, a minimum of 300 lbs of pipe is required. This is necessary due to the physical size of the pipe crate. If we are taking up that much space in the trailer, the weight creates a minimum density factor. Otherwise, shipping class and shipping charge will increase substantially. Can we ship 3, 10 foot lengths of spiral pipe to Alabama? Certainly, we can, however the shipping cost will be astronomical! On our web site, [www.airhand.com](http://www.airhand.com), in the technical data section, you can find the weight per foot for spiral pipe. This will enable you to make a determination as to whether it is practical to ship 10 foot pipe lengths.

## Got Dust? Need Hose?



Air Handling Systems stocks 15 different types of flexible hoses from 2"-12" in diameter.

**Click here to see our online selection.** If you don't see the hose you need, let us know and we can tap our extensive network to find the correct hose for your application.

## Like/View/Follow us



Our 5 foot pipe lengths ship in a large carton on pallet. We are able to ship these cartons all across the United States as well as international. The 5 foot pipes ship nested. Fittings and hoses are packaged in independent boxes with packing and are placed alongside the spiral pipe. In some instances, a piping system may warrant up to 10 of these cartons on pallets. Excellent freight rates are normally applied to this shipping method. It is always our ultimate objective to ship the most cost effective manner while minimizing the possibility of damage in transit.

**Click here for more information on shipping.**

## Air Handling Catalog

2016 Air Handling Systems catalog is now available. To request your free copy please call 800-367-3828 or email **[sales@airhand.com](mailto:sales@airhand.com)**.



## Proper Planning for new machine purchased at IWF



### Proper Planning

#### New Machine Check List:

- ☒ 1. Sufficient voltage
- ☒ 2. Necessary floor space
- ☒ 3. Staff time for setup
- ☒ 4. Safety Program
- ☐ 5. Dust Collection\*\*\*



\*\*\* Air Handling Systems is your source! Unfortunately dust collection is frequently put on the back burner. This is an important factor for proper machinery set up. These details should be addressed with a priority. Dust collection affects the work environment as well as the workers and finished product.

Let us help you with Dust Collection and check the box. Call for our FREE catalog or visit us online at [www.airhand.com](http://www.airhand.com)

Due to market changes and fluctuations beyond our control, specifications and pricing subject to change without notice. Buyers subject to terms and conditions of sale. Many states and localities have codes and regulations governing sales, construction, installation and/or use of Products for certain purposes, which may vary from those in neighboring areas. While Air Handling Systems by Manufacturers Service Co., Inc. attempts to assure that its Products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the Product is installed or used. Before purchase and use of a Product, please review the Product application, national & local codes, regulations, and be sure that the Product, installation, and use will be in compliance. Copyright Air Handling Systems.

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