

## Air Handling Systems Newsletter

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**INDUSTRIAL STRENGTH  
Ductwork Direct**

MAY 2013

### Q&A with the Doctor of Ductwork, Curt Corum

**Can your round duct be used  
for SMACNA approved  
industrial duct system?**



SMACNA has 5 classes of duct systems according to the nature of the contaminant. One must first know the class of system as well as the operating negative pressure. Once the class and negative has been determined, the SMACNA guide will designate gauge of spiral pipe according to diameter. Air Handling Systems can manufacture spiral pipe from 24-gauge to 18-gauge thickness. Junction fittings such as Lateral Tees can be provided with 45 degree or 30 degree branch entries. We find that many branch fittings require a complimentary elbow to create a perpendicular branch run to main pipe. In this case a standard 45 degree elbow compliments a 45 degree branch entry. A 30 degree entry would require a 60 degree custom elbow.

The selection of branch entry angle is determined in original design criteria and must be met for proper performance. Per SMACNA Figure 15-9 Duct Branch Pipe Entries, 30 degree is preferred and 45 degree is acceptable, but not to exceed 45 degrees. Air Handling Systems is capable of fabricating gored elbows in any degree and radius required. We find that in smaller diameters the die formed 1.5 x diameter 90 degree and 45 degree elbows are very cost effective in the event the system has been designed around 1.5 x diameter elbows. Imagine the cost difference to duplicate same elbow in gore sections. Per SMACNA Figure 15-7 ELBOWS, 1.5 x diameter elbows are acceptable for class 1, 2, & 5. To summarize, pipe and fittings used for industrial duct systems must meet original design criteria for proper performance of

### Connecticut Manufacturers Support Reinvestment Act



Air Handling Systems strongly supports legislation introduced on April 25th in the U.S. Congress to allow manufacturers to reinvest in machinery, facilities and job training through a Manufacturing Reinvestment Account (MRA).

"The MRA is like an IRA for manufacturers," said Jamison Scott of Air Handling Systems. "It allows manufacturers to make annual pre-tax contributions of up to \$500,000 for seven years, and use the funds to reinvest in their businesses. This is a bill that has true bipartisan support."

The *Manufacturing Reinvestment Account Act* was introduced by Rep. Rosa DeLauro, D-Conn., and Adam Kinzinger, R-Ill. The idea originated with Jamison Scott of Air Handling Systems and Hugh McCann of ID Products, and today's action marks the third time the bill has been introduced.

"We started working with Rosa in 2009, and we knew it would take several cycles for something to happen," said Scott, who coined the term "Manufacturing Reinvestment Account." "There is definitely more interest right now in Washington, D.C., so the timing is really good."

While the legislation would affect smaller S corporations, larger manufacturing firms support the bill because they know it will help their vendors, Scott added. He urged manufacturers to contact their area representatives and urge passage of the

air handling unit.

Air Handling Systems is an extremely diverse fabricator. We can virtually manufacture almost anything in the way of ducting.

Sincerely,  
Curt Corum, Sales Manager

Contact [Air Handling Systems](#) has a plethora of technical data - [click here](#) for more technical sheets and specification on our products as well as information on dust collection and other industry related data.

bill.

DeLauro said manufacturing is a vital tool in keeping America's economy competitive in the global marketplace. "We need to stop being a nation that simply buys things, and return to being a nation that builds things," she said. "The *Manufacturing Reinvestment Account Act* would enable America's manufacturers to reinvest more of their profit back into their businesses, getting a bigger return on their hard-earned dollars. This bipartisan legislation supports our manufacturers, and creates and sustains jobs for hardworking Americans."

She noted that a manufacturer who contributes \$500,000 annually to an MRA account that earns interest at 5 percent would have \$3.6 million to reinvest in their business after seven years, with a 15 percent tax rate on amounts distributed from the MRA. That's about \$1 million more than would have been compiled in a taxable account.


[Click here](#) to read the latest in the Hartford Business Journal on the MRA.

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