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Dust Collection Systems

Dust collection systems can be complicated, here are a few simply steps to an effective and efficient dust collection system. We have simplified the dust collection system for smaller shops, it is important to know federal, state and localities have codes and regulations enforced by AHJ (Authorities Having Jurisdiction) governing sales, construction, installation and or use of dust collection systems.

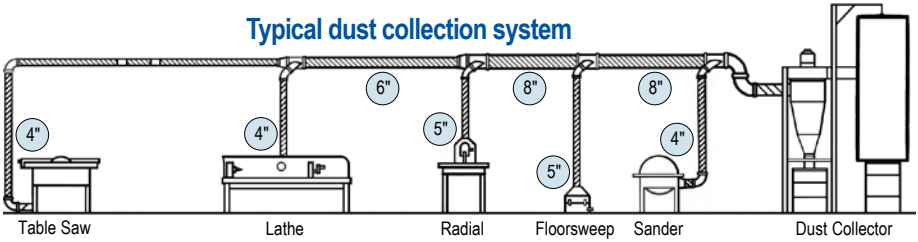
There are five simple steps to an effective and efficient dust collection system:

1. Draw a floor plan of your shop
2. Determine Duct Velocity (FPM)
3. Determine Diameter and CFM of each Branch
4. Determine Diameter and CFM of Main Duct
5. Figure System Resistance (SP - Static Pressure)

Definitions

- CFM -Air Volume in Cubic Feet per Minute.
- FPM - Velocity of Air in Feet per Minute.
- SP - Static Pressure. This is expressed in inches water gauge. It is resistance to air at rest in a duct, and is also commonly called “resistance,” friction,” “friction loss” or “pressure loss”.
- VP - Velocity Pressure: expressed in inches water gauge. It is kinetic pressure in the direction of flow necessary to cause air at rest to flow at a given velocity.

Typical dust collection system



We ALWAYS recommend you do these calculations BEFORE you purchase your dust collector or ductwork. To properly size your dust collector, you NEED to know your CFM requirements and at what Static Pressure your system will be operating. Use the CFM and Static Pressure to compare the performance of your dust collector. The dust collector performance ratings should show that at your given Static Pressure, the CFM it will provide.

1. Draw a floor plan of your shop area including the following: (see example, page 5)

- Location of dust producing machines, indicate size and location of dust pick-ups on each machine. Remember machines with the biggest draw (highest CFM) should be placed nearest to the dust collector.
- Desired location of dust collector unit.
- Floor to joist measurement.
- Any obstructions that would interfere with the run of the duct.

2. Determine Duct Velocity (FPM)

Use the chart below to determine the Velocity of your system.

Type of Dust	Velocity in Branches	Velocity in Main
Metalworking Dust	4500 FPM	4000 FPM
Woodworking Dust	4000 FPM	3500 FPM
Other Light Dust	4000 FPM	3500 FPM

3. Determine Diameter and CFM of each Branch

There are several ways to determine the diameter of the branches.

- If the machine has a factory installed collar, the manufacturer has determined that the machine needs that size branch under normal circumstances.
- If the machine has a metric diameter outlet, convert it into inches, and round off to the nearest inch. When writing up your parts list you may need to order a custom reducer.
- If the outlet is rectangular you need to determine the equivalent round diameter. This will require a Transition, see page 18.
- If the branch is smaller than 3" dia., requirement is high velocity vacuum, not volume dust collection, it is recommended to use a shop vacuum.

Chart 1

CFM requirements at specified velocity.

Dia.	3500 FPM	4000 FPM	4500 FPM
3"	170	195	220
4"	300	350	390
5"	475	550	610
6"	700	785	880
7"	950	1100	1200
8"	1200	1400	1570
9"	1550	1800	1990
10"	1900	2200	2450
12"	2800	3175	3600
14"	3800	4300	4800

Determine CFM requirement for each branch, use Chart 1. Under the proper velocity note the CFM of each branch. If working with wood dust, use 4000 FPM in branches.

4. Determine Diameter and CFM of Main Duct

Determine which machines are your primary machines. A primary machine is the machine(s) that will operate at the same time under the worst conditions. (If you normally operate two machines, but once a week need to operate a third machine at the same time, then you must size your system for all three machines.) We generally highlight the primary machines on the drawing.

Sizing the Main Trunk Line. When sizing the Main trunk line start with the primary machine farthest from the dust collector. Run that size duct until the next primary branch enters the Main. Increase the Main size at that junction to accommodate the CFM total of the two primaries. You will follow this practice all the way to the collector, sizing all primary junctions to accommodate total CFM of all primaries at that point. Do not increase Main duct size when a branch other than a primary enters. Your total CFM requirement is the total of all primary branches. When not using a primary machine you will close blast gate and divert suction to a secondary machine.

EXAMPLE - A 4" branch will be run from the Table Saw until it joins with the 4" branch from the Shaper. At this point your main starts and you need to increase the pipe to handle the combined CFM (350+350 = 700). Using the CFM Chart 1 look up 700 CFM under the appropriate velocity (3500 FPM in the Main for wood dust), then look at the corresponding diameter (6"). Run 6" pipe in the Main from the Shaper until the branch of the Radial Saw joins the Main.

Here again you need to increase your Main to handle the total CFM (700+550=1250 CFM). Using Chart 1 you will see that 1250 CFM is slightly more than volume for 8” diameter. Drop back to 8” diameter so as not to go below transport velocity. Run the 8” duct in your main from the Radial Saw to your Dust Collector.

5. Figure System Resistance (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 with out anything attached to it - pipe, flex or filter bags, it will pull max volume at free air without any resistance. Attach filter bags and 10' of pipe to the inlet and you have added resistance. Add 20' more of pipe and so on - you increase resistance as you add more pipe and fittings.

It is the dust collector’s job to overcome the ductwork 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 seen kids trying to drink a soda with those curly straws, they strain trying to get the soda to flow. They are trying to overcome the resistance of the long run.

You can run as much duct work in a system as long as the resistance has been compensated for and the

(Continued on next page)

Helpful Information

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.

The total static pressure is several factors added together. They are entry loss, dirty filter loss, static pressure of the worst branch duct, static pressure of main duct, and static pressure of the return duct.

1. There are more complicated ways to figure the entry loss of your system, but we find it usually equals a loss of 1" water gauge. (Use 1" as a constant).

2. If your system has filters, add in a 2" loss. (If you do not have filters add zero).

3. The Worst Branch, is the branch with the greatest resistance. The branch with the greatest resistance is usually a smaller diameter with the most lineal footage of pipe and elbows. Static pressure of worst branch and main duct can be calculated by using Chart 2. Chart 2 is based on 100 feet of pipe; therefore, you have to convert all elbows to an equivalent of pipe.

To convert 90° and 45° elbows to equivalent feet of pipe use Chart 2. When figuring the feet of pipe count lateral type branches as 45° elbows.

Chart 2

Static Pressure based on 100' of Pipe.				Elbow to Straight Pipe Conversion	
Dia.	3500 FPM	4000 FPM	4500 FPM	90° Elbow 1.5 Dia. Rad.	45° Elbow 1.5 Dia. Rad.
3"	7.5	10.0	12.0	5'	2.5'
4"	5.5	7.0	8.5	6'	3.0'
5"	4.2	5.5	6.5	9'	4.5'
6"	3.5	4.5	5.5	12'	6.0'
7"	2.8	3.8	4.5	13'	6.5'
8"	2.4	3.2	3.8	15'	7.5'
9"	2.0	2.8	3.4	17.5'	8.75'
10"	1.8	2.4	3.0	20'	10.0'
12"	1.5	2.0	2.5	25'	12.5'
14"	1.3	1.6	2.0	30'	15.0'

Flexible hose has a lot of resistance depending on the corrugation. For this reason we suggest you keep hose to a minimum. Multiply your length of flexible hose on your worst branch by 3 for equivalent length of straight pipe.

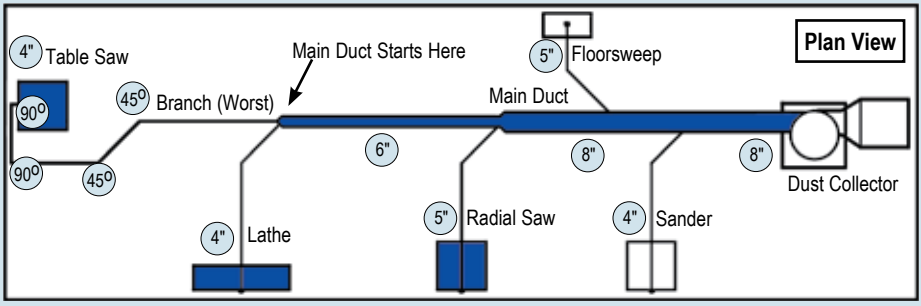
If you are installing an indoor recirculating dust collector you need not calculate any more duct diameters. If you are attaching ductwork to the exhaust side of your dust collector it is accepted practice to use a duct diameter two inches larger on the exhaust side than on the inlet side, thus minimizing exhaust and duct resistance. If clean air return duct is required, duct resistance should also be calculated.

Now you have all the information you need to make an educated decision in purchasing your dust collector. You have determined the Velocity, CFM, Static Pressure and the size of the ductwork. To develop your list of materials required, go through the system; this time starting at the dust collector and list each part you will need. Don’t forget pop rivets, hangers, strapping, caulking, and couplings. If you have any questions while you are designing your system give us a call at 800-367-3828.

Important TIPS to Remember

- Machines with the biggest draw (highest CFM) should be placed nearest to the dust collector.
- The shorter the run the better, less resistance to air flow.
- The final duct run entry into the dust collector should be straight pipe and not an elbow or branch fitting. Minimum of 3 times diameter of straight pipe, for example 8" diameter x 3 = 24" straight pipe.
- If clean air return is utilized from the dust collector, the outlet diameter should be a minimum 2" larger than the inlet to minimize resistance, slow down the air flow, and decrease the noise level.
- One hanger is required for every 10ft of main duct, and at least one on each 10ft branch or less.
- The less flexible hose used the better; flexible hose has approx. 3 times the resistance of air flow than straight pipe.
- Lateral tees off the main trunk line should be horizontal, with elbows attached to drop vertically. This will prevent dust flowing through the main duct from falling into a lateral tee positioned vertically.

1. Draw a floor plan of your shop



2. Determine Duct Velocity (FPM)

Wood Dust 4000 FPM in Branch and 3500 FPM Main

3. Determine Diameter and CFM of each Branch and Main Duct

You have 3 primary machines. You have assigned the branch diameter and CFM requirements.

Table Saw	4" Diameter	350 CFM
Shaper	4" Diameter	350 CFM
Radial Saw	5" Diameter	550 CFM

4. Determine Diameter and CFM of Main Duct

Total CFM of two 4" branches and one 5" branch pulling vacuum simultaneously = 1,250 CFM

5. Figure System Resistance (SP - Static Pressure)

Determine Static Pressure (Inches of Water Gauge) in Worst Branch - 4" Table Saw.

Description - 4" Diameter	Equivalent to Straight Pipe
Straight Pipe	20'
2 - 90° Elbows	12'
2 - 45° Elbows	6'
5' Flexhose (3x)	15'
Total equivalent straight pipe after conversions	53'

350 CFM in 4" diameter = 7" S.P. per 100'

350 CFM in 4" diameter = 3.71" S.P. per 53'

Static Pressure in MAIN DUCT 6" and 8" The static pressure of the Main Duct is done the same way, except you figure it out for each diameter in the Main, starting farthest away and working toward the collector.

Description - 6" Diameter	Equivalent to Straight Pipe
Straight Pipe	20'
Total equivalent straight pipe after conversions	20'

700 CFM in 6" diameter = 3.5" S.P. per 100'

700 CFM in 6" diameter = .70" S.P. per 20'

Description - 8" Diameter	Equivalent to Straight Pipe
Straight Pipe	25'
2 - 90° Elbows	30'
Total equivalent straight pipe after conversions	55'

1,250 CFM in 8" diameter = 2.4" S.P. per 100'

1,250 CFM in 8" diameter = 1.3" S.P. per 55'

(8" Diameter runs to self contained Dust Collector)

Total Static Pressure 1" (Entry Loss) + 2" (Filters) + 3.71" (Worst Branch) + .70" (6" Main) + 1.3" (8" Main) = 8.71" SP Inches Water Gauge.

System Requirement: 1,250 CFM at 8.71" SPWG

Installation of Spiral Pipe and Fittings

Pipe-To-Pipe Connection

Spiral pipe is connected by a small end (Male) coupling (Part No. COUP) which slipped into the pipe sections.

Fitting-To-Fitting Connection

Fitting-to-Fitting connections can be made using a large end (Female) coupling (Part No. COU2).

Fitting-To-Pipe Connection

All fittings are sized (Male) to slip into mating (Female) pipe sections or flexhose. No additional coupling will be needed.

Securing and Sealing the Connection

It is important to note that you must seal all field joints airtight. We recommend clear silicone caulking in tube form. Apply the silicone one-inch inside each large end completely around the circumference. Never use duct tape as it will dry rot over a short period of time and will open up leaks. Work the fitting into the pipe until the pipe is up to the bead on the fitting. Then drill rivet holes using # 30 drill bit through both layers of duct. Put a safe number of 1/8 diameter by 3/8 long steel pop rivets with steel pins around the circumference of each assembly. It is best to leave the bottom free from rivets between four o'clock to eight o'clock if possible. After the system is completely installed apply a coating of silicone over the outside of each joint, smooth out with a glove and let cure.

Never install sheet metal screws as fasteners, as they will catch pieces of wood and eventually clog the system. The velocity of air along with wood dust will wear the screw out over a period of time. This will cause the screws to fall out, and the pipe could possibly fall down if not supported sufficiently.

Friction Loss and Air Leakage

Two problems with high velocity systems are friction loss and air leakage. The installer has to install the high-pressure system without causing possible friction losses or air leakage problems. Do not crimp the ends of the fittings to make assembly easier. The crimping puts interference in the air stream, which adds friction loss to the system. Crimping can also create noise problems. Excessive clearances in sizing of the pipe and fittings can cause problems in sealing the system to make it airtight. Hunting and patching leaks in an installed system is tedious and stressful.

Your duct and fittings are sized to fit tightly for THREE good reasons.

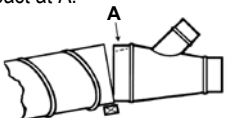
1. The joint has a minimum friction loss condition.
2. The tight fit makes the joint easy to seal against air leakage.
3. Noise is reduced with a tighter joint.

Connection of duct and fitting

Starting the fitting into the duct.

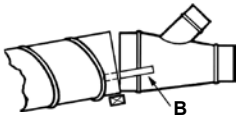
A sharp blow by a sheet metal hammer or mallet on the top of the fitting collar can cause the collar to seat into the duct. But, be careful not to dent the collar.

Starting the collar into duct, impact at A.



When a sub-assembly is put together on the floor, raise the end of the duct to support it off the floor by a piece of wood. Tilt the fitting slightly and start the bottom part of the fitting collar into the duct.

Starting the collar into duct, drive blade B in direction of arrow.



A strip of metal slipped into the space between the duct and fitting can be driven around the joint circumference. The fitting is worked to keep the collar in, but do not push too hard to bind the end of the duct and fitting so the fitting can't slip into the duct.

Ordering

- Phone - 203.389.9595 or 800.367.3828
- Online - Visit us at www.airhand.com for secure ordering, 24 Hours a Day - 7 Days a Week.
- Fax - Complete the Order Form and fax 800.438.7135, 24 Hours a Day - 7 Days a Week.
- Mail - Air Handling Systems by Manufacturers Service Co., Inc., 5 Lunar Drive, Woodbridge, CT 06525-2320

International Services, Shipping Outside Continental United States

- We ship worldwide. All Prices in US $ Dollars. Product prices and delivery charges may vary when shipping to another country or outside the continental United States. Recipients responsible for paying duty and taxes. Contact us for product prices, shipping fees and estimated delivery times.

Shipping

- Working with UPS, Fed Ex Ground, United States Postal Service, and many local, regional and national trucking companies our knowledgeable shipping department will ensure your shipment goes by the most efficient and economical way possible.
- We pride ourselves on our ability to ship your order in a timely manner, however we will not incur any liability for delays in processing and/or shipping your order.
- Accuracy is very important to all of us, however we realize mistakes do occur, please notify us immediately with any errors or omissions. We will not accept claims on errors or omissions after 2 days from date of delivery.

Packaging/Crates

- Standard shipments of fittings, hoses, accessories and 5-foot lengths of pipe normally will ship via UPS or FedEx Ground in cardboard boxes specially designed to maximize length, width and girth. Larger shipments may require special packaging to protect your shipment. We offer containers which are available for an additional cost which will be discussed upon placing your order.

Customer Pick-Ups

- You are welcome to pick up your order between 8 am - 4:30 pm Monday - Thursday; 8 am - 2:30 pm Friday EST. It is recommended to call in your order ahead of time. Please ask about our “Call Ahead” service.

Special Requests/Rush Orders

- If you are in a hurry, many stock items can be shipped Next, Second Day, or Air Freight, simply provide UPS or Fed Ex Ground Account number. Requests to produce custom items as fast as possible (faster than 4 to 10 working days), may incur additional costs that will be discussed to eliminate any misunderstanding.

Payment

- Credit Cards - We gladly accept American Express, VISA, Master Card & Discover.
- Payment by Check - Make checks payable to: MANUFACTURERS SERVICE CO., INC.
- Established Credit - For customers with established credit, payment terms are net 30 days from the date of invoice. If payment is not received within the 30-day period, we may defer or cancel all or part of any shipment or order.
- Connecticut Sales Tax - All orders picked up at our facility or shipped within the State of Connecticut are subject to Connecticut State Sales Tax regardless of destination, unless we have a properly filled out “Sales & Use Tax Resale Certificate” for the State of Connecticut. Forms available from our Accounting Dept.
- Out-of-State Sales - Title to shipment transfers at destination.

Returns (NO RETURN POLICY)

- **Air Handling Systems has a long established NO RETURN POLICY, based in part on Cross Contamination Dangers. Therefore, we do not accept for return, any material that has left our facility. We have a long established NO RETURN POLICY for ALL Custom Fabrications. Custom items are made to your specifications, they are not returnable for any reason. Orders cannot be cancelled or changed once production has begun.**

Catalog Mailing Services

- Changing of address, eliminating duplicate catalogs, removing your name from our list simply contact us and we will correct the problem immediately.

Terms & Conditions

- By placing an order and not stating otherwise, buyer has read and agreed to all Terms & Conditions set forth by Air Handling Systems by Manufacturers Service Co., Inc.
- All prices in US $ Dollars. We make every effort to maintain our pricing, however, due to market fluctuations, prices are subject to change without prior notice.

Terms and Conditions

1. NATURE OF THIS DOCUMENT

We hereby acknowledge receipt of your order of the Products shown on the reverse side hereof. All sales by us are made on the terms herein set forth. The terms of your order if on an instrument other then this are hereby rejected and we hereby offer to sell said Products to you upon the terms set forth. Your acceptance of this offer must be made on its exact terms and we OBJECT TO THE INCLUSION OF ANY DIFFERENT OR ADDITIONAL TERMS OR THE DELETION OR OMISSION OF ANY TERMS HEREOF proposed by you in any Acceptance hereof and if any are included or deleted in your Acceptance, a contract for sale will nonetheless result on our terms and conditions stated herein without the necessity of our rejecting such different or additional terms or deletions or omissions. Upon acceptance by us at our office in Woodbridge, Connecticut and by you, the terms of this instrument shall constitute the entire Agreement between us. No oral representation shall be effective whether or not made by you or our employees and no later document shall vary the terms hereof unless by specific reference hereto and signed by both of us, at our office in Woodbridge, Connecticut. If you fail to sign and return this instrument and we nonetheless deliver, such acceptance of delivery shall constitute acceptance of our offer contained herein on the terms herein set forth. We reserve the right to substitute an equivalent Product(s) of equal or greater value for the Product(s) ordered by you at our discretion.

ALL SALES ARE FINAL UPON ACCEPTANCE BY US. NO SALES ARE ON CONSIGNMENT OR APPROVAL.

2. ACCEPTANCE

Your acceptance of the terms and conditions herein must be accompanied by sufficient information plus a specification to enable us to proceed with the order forthwith. Otherwise we are to be at liberty to amend our prices to cover any increases in costs that may take place after acceptance and/or which may become apparent after such information and/or specification is furnished by you.

3. SECURITY AGREEMENT

This document when signed by you and accepted by us is a Security Agreement under the Uniform Commercial Code ("Code") and we retain and you grant to us a Purchase Money Security Interest in the Products as security for payment of the purchase price hereunder and upon your default we shall have the rights and remedies of a Secured Party under the Code. You will, at our request, sign and deliver Code filing documents and you irrevocably authorize us to sign such documents on your behalf. The foregoing is without prejudice to our rights under Article 2 and/or Article 9 of the Code.

4. LIMITS OF CONTRACT

Our Agreement includes only such Products as are specified herein. 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.

5. WARRANTY TO BUYER

THE PRODUCTS HAVE BEEN PURCHASED BY YOU "AS IS" AND YOU ACKNOWLEDGE THAT WE HAVE GIVEN YOU NO WARRANTY OF ANY KIND INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTIES, WARRANTIES REGARDING DESCRIPTION AND/OR QUALITY AND INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, PRODUCTIVENESS, OR ANY OTHER MATTER REGARDING ANY PRODUCTS WHICH WE SHALL SUPPLY. WE SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF AND SERVICE OF OUR PRODUCTS AND YOU HEREBY WAIVE ALL RIGHTS OF REFUSAL AND RETURN OF GOODS.

IN ALL EVENTS WE SHALL NOT BE LIABLE FOR ANY INCIDENTAL AND/OR CONSEQUENTIAL DAMAGE.

6. CLAIMS

On arrival the Products should be carefully and thoroughly inspected for any sign of damage or shortage and should be noted on the Freight Bill before signing the receipt. If the Product cannot be inspected properly, we recommend that you sign the Freight Bill marked "SUBJECT TO INSPECTION." It is your responsibility to report immediately to the carrier any package or crate received in a damaged condition and to request an inspection report. If you notice any damage after unpacking the shipment, notify the transport company immediately and request an inspection. Damage claims must be made with the carrier. All packaging material must be retained until the shipment is inspected by the carrier and your claim is settled. If you fail to notify the carrier within said time period, such Product shall be deemed conforming goods. If such a claim is sustained after inspection by us and Products furnished is proved not as ordered to our satisfaction, we shall have the option in such event of repairing or replacing the Products or crediting your account. Under no circumstances will we be liable for damages or for any claims for expense involved in using our Product. We will not allow claims for defective goods on those parts further processed by you and resulting in change of either dimensions or characteristics from your original blueprint or other specifications.

7. DELIVERIES

Every effort will be made to fill orders within the time promised but under no circumstances will we assume responsibility for any damage growing out of or owing to any delays whatever. Unless specifically stated to the contrary, orders are accepted for delivery as fast as manufactured by partial shipment in bulk. Any part of an Order that is shipped within ten days from the date of receipt of your Order at our offices in Woodbridge, Connecticut, will be invoiced at our prices shown on the reverse side hereof. Any part of an Order that, for any reason, is not shipped within the thirty days following date of receipt of your Order at our said offices will be invoiced at our prices prevailing at the date of shipment.

8. TERMS

All shipments are subject to the terms on the reverse side hereof. Prices are exclusive of all city, state and federal excise taxes, including without limitation taxes on manufacture, sales, receipts, gross income, occupation, use and similar taxes. Wherever applicable, any tax or taxes will be added to the invoice as a separate charge to be paid by you and are subject to our terms of payment, net thirty days from date of invoice. You agree to pay costs of collection including reasonable attorney fees, if collection costs are incurred through your late payment. Upon your failure to make any payment for any of the Products promptly when due and/or your failure to make any payment due by you to us whether or not covered by or related to this instrument and/or your default with respect to any term of any agreement between you and us, we shall have the right to cause all of your obligations to us hereunder whether or not then due, payable and/or performable to become due, payable and/or performable on demand and you consent that we may at any time thereafter maintain an action for all sums payable by you to us together with costs of collection including a reasonable attorney's fee. Prices herein are net wholesale prices with trade discounts already deducted. Due to market fluctuations, prices are subject to change without prior notice.

9. TAXES

You agree to pay all applicable Federal, State, or local Manufacturer's or sales, use or value added taxes, or any other tax now or hereafter levied upon this instrument or upon any Products sold on any shipments made hereunder.

10. CANCELLATIONS

Orders accepted by us cannot be cancelled or changed except with our consent and upon terms that will indemnify us against loss. All cancellation charges to be determined at the time of cancellation.

11. APPLICABLE LAW

Any agreement arising hereunder shall be governed by Connecticut Law.

12. TITLE

Title to shipment transfers at destination.

Spiral Pipe - 24 Gauge Galvanized

Our 24 gauge spiral pipe has a minimum of G60 thick protective coating of galvanized steel, perfect for all your small diameter needs. Available in easy to ship and install 5-foot lengths when you need small quantities. Also available in 10-foot lengths when you require large amounts for longer runs.

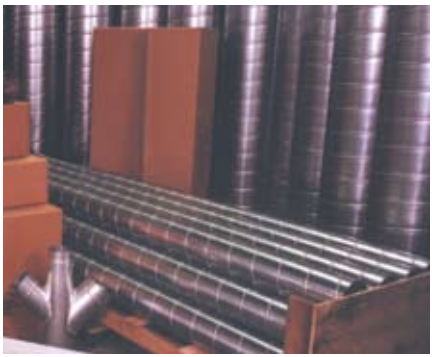
Dia.	5 Ft. Part No.	10 Ft. Part No.	Price Per Ft.
3"	03X5PI	03PIPE	4.10
4"	04X5PI	04PIPE	4.65
5"	05X5PI	05PIPE	5.25

Spiral Pipe - Heavy 22 Gauge Galvanized

Our 22 gauge spiral pipe is commonly used for dust collection, fume collection and HVAC and has a minimum of a G60 thick protective coating of galvanized steel. Stronger than other pipe - Make sure you have the right gauge for the right job. Do not be undersold, just to save money. Our spiral pipe is fabricated to industrial standards and is up to 20% stronger than smooth pipe systems of the same gauge, due to the added exterior spiral reinforcement. Available in easy to ship and install 5-foot lengths. Also available in 10-foot lengths when you require longer runs.

Dia.	5 Ft. Part No.	10 Ft. Part No.	Price Per Ft.
6"	06X5PI	06PIPE	6.70
7"	07X5PI	07PIPE	7.95
8"	08X5PI	08PIPE	8.50
9"	09X5PI	09PIPE	10.15
10"	10X5PI	10PIPE	10.75
11"	11X5PI	11PIPE	12.00
12"	12X5PI	12PIPE	12.50
13"	13X5PI	13PIPE	13.95
14"	14X5PI	14PIPE	14.50
15"	15X5PI	15PIPE	15.50
16"	16X5PI	16PIPE	16.05
18"	18X5PI	18PIPE	17.95
*20"	20X5PI	20PIPE	22.25
*22"	22X5PI	22PIPE	23.95
*24"	24X5PI	24PIPE	25.50

*4 to 10 working days for fabrication.



22 & 20 gauge Spiral Pipe is sized large end (female) to slip over standard fittings.

Pipe actually measures approx. 1/16" less than even inch, 6" = approx. 5-15/16" ID.

Paintable
Paintable for outdoor use.

Spiral Pipe - 20 Gauge Galvanized

Our 20 gauge spiral pipe is used for various commercial and industrial applications. 20 gauge spiral pipe has a minimum of a G60 thick protective coating of galvanized steel. Available from 10"-42". 40 feet minimum required for cost effectiveness, otherwise additional setup fees will be incurred. Contact us for quote. Allow 4 to 10 working days for fabrication.

Spiral Pipe - 18 Gauge Galvanized

Our 18 gauge spiral pipe has a minimum of a G60 thick protective coating of galvanized steel, and is available for your heavy-duty industrial needs. Used for all larger systems requiring the ultimate in strength and abrasion resistance. Ideal where high vacuum is required in dust collection systems. Angle Rings (pg. 11) are required to secure connections between 18 gauge pipe sections. Available from 12"-42". 40 feet minimum required for cost effectiveness, otherwise additional setup fees will be incurred. Contact us for quote. Allow 4 to 10 working days for fabrication.

Couplings

20 Gauge - Stronger than most competitors

Small end coupling for connecting pipe to pipe and flexible hose to pipe.

Large end coupling or short piece of pipe for connecting fitting to fitting.

Small End Coupling

Large End Coupling

Dia.	Small End (O.D.)	Large End (I.D.)	Price
3"	03COUP	03COU2	9.70
4"	04COUP	04COU2	10.10
5"	05COUP	05COU2	10.70
6"	06COUP	06COU2	11.10
7"	07COUP	07COU2	11.60
8"	08COUP	08COU2	12.65
9"	09COUP	09COU2	13.25
10"	10COUP	10COU2	13.90
11"	11COUP	11COU2	14.15
12"	12COUP	12COU2	14.50
14"	14COUP	14COU2	15.70
15"	15COUP	15COU2	15.95
16"	16COUP	16COU2	17.05
18"	18COUP	18COU2	17.50

Easy Connect System

Easy Connect Sleeve (ECS) is easily assembled by simply tightening one bolt to complete the connection. ECS's are airtight with no protrusions into the airstream. They are ideal for dust collection systems, which require quick disassembly and reassembly of ductwork, or when a fast labor saving installation is important. Sleeves have polyethylene seal that has sufficient elasticity to accommodate the spiral duct seam. When the connector is tightened the galvanized metal sleeve contacts the duct wall to provide rigidity.

Dia.	Part No.	Price
3"	03ECS	19.85
4"	04ECS	22.05
5"	05ECS	23.60
6"	06ECS	25.30
7"	07ECS	27.10
8"	08ECS	30.00
9"	09ECS	32.25
10"	10ECS	33.80
12"	12ECS	38.15
14"	14ECS	48.50

I/O Couplings

Inside/Outside Couplings have one Small-End which fits inside Spiral Pipe and one Large-End which fits outside Spiral Pipe. When using I/O Coupling, install in direction of air flow for a smoother inside surface.

Dia.	Part No.	Price
3"	03IO	19.65
4"	04IO	19.95
5"	05IO	21.40
6"	06IO	22.60
7"	07IO	23.80
8"	08IO	24.85
10"	10IO	29.35
12"	12IO	31.60

End Cap/ Plug

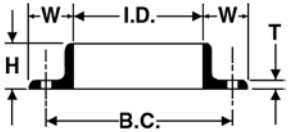
End Cap/Plug is the perfect combination of an End Cap and an End Plug. It is designed to fit over fittings to cap off the end as well as fit into spiral pipe to cap off the end. Available in other sizes. Individual End Caps also available.

Dia.	Part No.	Price
3"	03ECAP/PLUG	9.13
4"	04ECAP/PLUG	9.48
5"	05ECAP/PLUG	10.42
6"	06ECAP/PLUG	11.69
7"	07ECAP/PLUG	12.38
8"	08ECAP/PLUG	14.06
9"	09ECAP/PLUG	14.56
10"	10ECAP/PLUG	14.94
12"	12ECAP/PLUG	18.17
14"	14ECAP/PLUG	20.44
16"	16ECAP/PLUG	23.22

Angle Rings - Pre-punched, Black Iron

Angle Rings create an obstruction-free interior with stronger and sturdier joints (welded hot rolled steel). Used in Spray Booth Stacking, Paper Trim Collection, Bulk Material Handling, and any system that requires easy disassembly or where 18 gauge Spiral Pipe is installed. Angle Rings exposed to weather will have to be painted in the field. When installing, slip Angle Ring over spiral pipe, weld, then bolt together. Stainless Angle Rings also available, call for details.

Angle Ring Connection

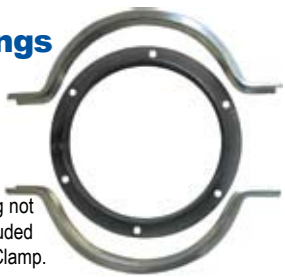


24"+ Rings ship by Common Carrier.

Dia.	Part No.	Height x Width x Thickness	Inside Dia. I.D.	Bolt Hole Centers	No. of Bolt Holes	Size of Bolt Holes	Weight	Price
3"	03RING	1" x 1" x 10 Ga.	3-1/8"	4-5/16"	6	9/32"	.67	4.95
4"	04RING	1" x 1" x 10 Ga.	4-1/8"	5-5/16"	6	9/32"	.88	5.80
5"	05RING	1" x 1" x 10 Ga.	5-1/8"	6-5/16"	6	9/32"	1.13	6.45
6"	06RING	1-1/4" x 1-1/4" x 1/8"	6-1/8"	7-5/16"	6	9/32"	1.75	7.85
7"	07RING	1-1/4" x 1-1/4" x 1/8"	7-1/8"	8-1/2"	6	3/8"	2.00	9.60
8"	08RING	1-1/4" x 1-1/4" x 1/8"	8-1/8"	9-9/16"	6	3/8"	2.25	11.10
9"	09RING	1-1/4" x 1-1/4" x 1/8"	9-1/8"	10-5/8"	6	7/16"	2.50	12.80
10"	10RING	1-1/4" x 1-1/4" x 1/8"	10-1/8"	11-13/16"	6	7/16"	2.75	14.35
11"	11RING	1-1/4" x 1-1/4" x 1/8"	11-1/8"	13-3/4"	6	7/16"	3.00	16.60
12"	12RING	1-1/2" x 1-1/2" x 1/8"	12-1/8"	14"	8	7/16"	4.00	19.20
13"	13RING	1-1/2" x 1-1/2" x 1/8"	13-1/8"	15"	8	7/16"	4.25	21.50
14"	14RING	1-1/2" x 1-1/2" x 1/8"	14-1/8"	16"	8	7/16"	4.75	23.75
15"	15RING	1-1/2" x 1-1/2" x 3/16"	15-1/8"	17"	8	7/16"	7.25	25.15
16"	16RING	1-1/2" x 1-1/2" x 3/16"	16-1/8"	18"	8	7/16"	8.00	26.95
18"	18RING	1-1/2" x 1-1/2" x 3/16"	18-1/8"	20"	8	7/16"	8.50	28.95
20"	20RING	1-1/2" x 1-1/2" x 3/16"	20-1/8"	21-3/4"	12	7/16"	9.50	31.45
22"	22RING	1-1/2" x 1-1/2" x 3/16"	22-1/8"	23-3/4"	12	7/16"	10.75	32.90
24"	24RING	1-1/2" x 1-1/2" x 3/16"	24-1/8"	25-7/8"	12	7/16"	11.50	35.10
26"	26RING	2" x 2" x 3/16"	26-1/8"	28-3/8"	16	7/16"	16.50	48.75
28"	28RING	2" x 2" x 3/16"	28-1/8"	30-3/8"	16	7/16"	18.00	51.15
30"	30RING	2" x 2" x 3/16"	30-1/8"	32-3/8"	16	7/16"	19.50	54.55
32"	32RING	2" x 2" x 3/16"	32-1/8"	34-3/8"	16	7/16"	20.00	58.20
34"	34RING	2" x 2" x 3/16"	34-1/8"	36-3/8"	16	7/16"	22.00	61.30
36"	36RING	2" x 2" x 3/16"	36-1/8"	38-3/8"	16	7/16"	23.00	63.10
38"	38RING	2" x 2" x 3/16"	38-1/8"	40-3/8"	24	7/16"	24.50	65.55
40"	40RING	2" x 2" x 3/16"	40-1/8"	42-3/8"	24	7/16"	25.75	71.00
42"	42RING	2" x 2" x 3/16"	42-1/8"	44-3/8"	24	7/16"	26.50	74.10

Quick Clamp for Angle Rings

SAVE TIME where removing of ductwork is required. Quick Clamp is easily removed by loosening two bolts. Not to be used with 14 gauge galvanized Angle Rings. Available in larger sizes.



Ring not included with Clamp.

Dia.	Part No.	Price
4"	04QC	16.95
5"	05QC	17.25
6"	06QC	17.70
7"	07QC	28.00
8"	08QC	18.95
9"	09QC	28.05
10"	10QC	22.45
12"	12QC	33.75

Galvanized Angle Rings

Galvanized Angle Rings are 14 gauge, strong, lightweight flanges that are ideal for HVAC duct. They are easy to ship, handle, and install. 6"-10" have 6 bolt holes; 12"-14" have 8 bolt holes. Height 1" x Width 1". Available in larger sizes.

Dia.	Part No.	Price
6"	06RING-U	14.15
7"	07RING-U	14.15
8"	08RING-U	14.70
10"	10RING-U	16.05
12"	12RING-U	19.00
14"	14RING-U	21.90

Die-Stamped and Gored Elbows

Stronger Than Most Competitor's Products

Airtight, welded elbows (die stamped and gored) are available in 45o and 90o. The die stamped elbows run from 3" to 14" and are fabricated from 20 gauge galvanized steel. Centerline Radius (CLR) is 1.5 x diameter. Our welded Gored (segmented) Elbows including 13", 15" and 16" are also fabricated from 20 gauge galvanized steel. Elbows 18" and larger are 18 gauge or can be quoted in heavier gauges. Elbows have 2" small end collars slightly less than even inch outside to fit into spiral pipe. All elbows have a smooth obstruction free interior. 30o and 60o elbows also available.

Die-Stamped Elbows

Fully Airtight Welded

45° - Die-Stamped

Dia.	Part No.	Price
3"	03EL45	16.17
4"	04EL45	25.00
5"	05EL45	25.45
6"	06EL45	27.45
7"	07EL45	35.05
8"	08EL45	42.70
9"	09EL45	49.50
10"	10EL45	56.95
12"	12EL45	67.45
14"	14EL45	78.85

90° - Die-Stamped

Dia.	Part No.	Price
3"	03EL90	24.36
4"	04EL90	27.20
5"	05EL90	33.55
6"	06EL90	37.95
7"	07EL90	45.85
8"	08EL90	53.30
9"	09EL90	63.85
10"	10EL90	73.85
12"	12EL90	92.95
14"	14EL90	133.00

Gored Elbows

45° - 3 Gores

Dia.	Part No.	Price
13"	13EL45	Call
15"	15EL45	Call
16"	16EL45	Call
18"	18EL45	Call
20"	20EL45	Call
22"	22EL45	Call
24"	24EL45	Call

90° - 5 Gores

Dia.	Part No.	Price
13"	13EL90	Call
15"	15EL90	Call
16"	16EL90	Call
18"	18EL90	Call
20"	20EL90	Call
22"	22EL90	Call
24"	24EL90	Call

All Elbows 18" and larger are fabricated of 18 gauge galvanized metal.

HVAC Elbow

Heating & Air Conditioning 90o elbows are 24 gauge and welded air tight. Centerline radius (CLR) is 1 x diameter making them perfect for HVAC systems.

Dia.	Part No.	Price
4"	04EL90-1	21.70
6"	06EL90-1	23.90
8"	08EL90-1	37.65
10"	10EL90-1	54.65
12"	12EL90-1	79.00

90° Long Radius Elbows

One piece elbows are fabricated from a single piece of galvanized sheet metal. Centerline radius (CLR) is 2.5 x diameter.

Elbows 3"-9" are 22 gauge and 10"-12" are 20 gauge.

Each elbow is fully welded air tight on the back (heel).

Dia.	Part No.	Price
3"	03EL90LR	Call
4"	04EL90LR	Call
5"	05EL90LR	Call
6"	06EL90LR	Call
7"	07EL90LR	Call
8"	08EL90LR	Call
10"	10EL90LR	Call
12"	12EL90LR	Call

Hangers - Cost-effective Solution

DYNA-TITE CABLE LOCK is the fastest way to secure spiral pipe and equipment, reducing installation labor. A fast, strong, lightweight solution.

The anti-corrosion housing has a stainless steel spring that holds the serrated teeth locking wedges against the 3/16" galvanized wire rope. There is a release pin for easy adjustment. The working weight load limit per 3/16" wire rope and Cable Lock is 640 lbs. with a 5 to 1 safety factor before breaking. These specifications apply only to Duro-Dyne Cable.

Part No.	Description	Price
30350	Cable Lock package of 10	$78.00
30206	250 ft. Spool 3/16" wire rope	$205.00
894075	Cable Cutter	$69.00

Note: Sold only in packages or full spools

Hangers - Economical

Economical Hangers 3"-12" are fabricated of 20-gauge galvanized steel, which is stronger than most competitors. They are perfect for lighter duty applications. Hangers are 1" wide. One hanger is required for every 10 feet of main duct, and at least one on each 10 foot branch or less.

Dia.	Part No.	Price
3"	03HANG-S	9.15
4"	04HANG-S	9.35
5"	05HANG-S	9.40
6"	06HANG-S	9.60
8"	08HANG-S	9.80
10"	10HANG-S	10.15
12"	12HANG-S	10.85

Hangers - Single Rod

Single Rod Hangers are designed to hang from a threaded single rod and fit loose around pipe. 3"-10" fabricated of 22-gauge galv. steel and 11"-14" fabricated of 20-gauge galv. steel. One hanger is required for every 10 feet of main duct, and at least one on each 10 foot of branch or less.

Dia.	Part No.	Price
3-4"	HANGER(3-4)	9.40
5-6"	HANGER(5-6)	9.55
7-8"	HANGER(7-8)	9.70
9-10"	HANGER(9-10)	11.25
11-12"	HANGER(11-12)	11.75
13-14"	HANGER(13-14)	12.95

Hangers - Heavy-Duty Galvanized

Heavy-Duty Hangers 3"-8" are fabricated of 18-gauge steel, Hangers 9"-12", 16-gauge steel, and Hangers 12"-24", 12-gauge steel. All Heavy-Duty Hangers are 1" wide. One Hanger is required for every 10 feet of main duct, and at least one on each 10 foot branch or less. Hangers come with nuts, 5/16" bolts, and washers. Can be installed with strapping or threaded rod. Other sizes available, call for pricing.

Dia.	Part No.	Price
3"	03HANG	12.85
4"	04HANG	12.90
5"	05HANG	12.95
6"	06HANG	14.15
8"	08HANG	17.10
9"	09HANG	17.15
10"	10HANG	17.25
12"	12HANG	25.45
14"	14HANG	25.75

Hanger Strapping 5 feet, 25 feet, & 100 feet

5 feet - Heavy -Duty, 16-gauge Hanger Strapping is used with heavy-duty hangers and economical hangers. To install, attach a hanger approximately every ten feet on spiral pipe system and run strapping from hangers to a safe structural location. Each piece is 5 feet long, 16-gauge Galvanized by 1 inch wide. UPS shippable.

25 feet - Easily make your own hangers from our 20-gauge galvanized steel, Light Duty Hanger Strapping, a 25-foot roll made, 3/4" wide. Hanger strap contains continuous perforated holes for easy securing where needed. Locate hanger every 10 feet. **Recommended for hanging 22-gauge spiral pipe up to 6" in diameter.** Simply cut strip to length and form by hand.

100 feet - Heavy-Duty 100-foot roll of heavy 16-gauge galvanized steel hanger strapping, 1" wide. No wasted material. Weight per box 22 lbs. Easily shipped by UPS. To install, simply cut to length, locate and drill hole for hanging.

Description	Part No.	Price
Strap 5'	STRAP5	4.25
Strap 25'	STRAP25	5.40
Strap 100'	STRAP100	88.75

45º Lateral Tee

Stronger than competitor's products, Airtight, Fully Welded.

Built of 20 gauge steel, stronger than most competitor's products, Lateral Tees are fully welded, air tight to prevent leakage, saving you money. To minimize turbulence and possible particulate that may settle out in your dust and fume collection ductwork, we recommend that Lateral Tee branches enter the main at a 45° angle. Lateral Tees should be installed to the side of the main, and no two branches should be entering opposite one another. Other sizes available upon request.

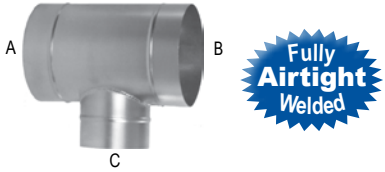
6" on 6" 45° Lateral Tee

4" on 12" 45° Lateral Tee

Specification & Installation

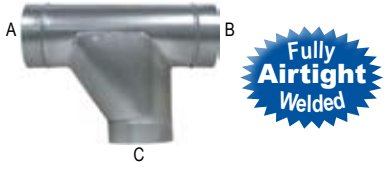
Our Lateral fittings are fabricated out of 20 gauge galvanized metal, with all seams welded solid to make an airtight system. To allow for an easy installation, tees are fabricated with a bead 2 inches in from each small end. This allows Air Handling Systems Spiral Pipe or Flexible Hose to fit over the Tee and set up tight against the bead. For a permanent installation, it is recommended that you place a small amount of silicone about one inch in and around the inside of the Spiral Pipe before you assemble any fitting. This chemical bond will make your Air Handling System completely airtight.

90º Bullhead Tee



Bullhead Tees are best used in low pressure heating and air conditioning systems. Not to be used for dust collection. When ordering replace LT with BT.

90º Boot Tee



Boot Tees are commonly used in confined area that does not allow use of 45° Lateral Tee. Call for price. When ordering, replace LT with BOOT. Example: 06BOOT12

C on A-B	Part No.	Price
02 on 04	02LT04	59.65
02 on 05	02LT05	59.80
02 on 06	02LT06	60.00
03 on 03	03LT03	60.32
03 on 04	03LT04	63.20
03 on 05	03LT05	67.50
03 on 06	03LT06	70.40
03 on 07	03LT07	74.70
03 on 08	03LT08	77.55
03 on 09	03LT09	86.20
03 on 10	03LT10	89.05
04 on 04	04LT04	75.55
04 on 05	04LT05	76.35
04 on 06	04LT06	80.42
04 on 07	04LT07	83.30
04 on 08	04LT08	86.15
04 on 09	04LT09	94.80
04 on 10	04LT10	97.65
04 on 12	04LT12	110.60
05 on 05	05LT05	83.30
05 on 06	05LT06	86.25
05 on 07	05LT07	91.90
05 on 08	05LT08	96.20
05 on 09	05LT09	103.40
05 on 10	05LT10	106.30
05 on 12	05LT12	114.90
06 on 06	06LT06	93.35
06 on 07	06LT07	94.70
06 on 08	06LT08	97.65
06 on 10	06LT10	110.60
06 on 12	06LT12	119.20
06 on 14	06LT14	122.10
07 on 08	07LT08	106.28
07 on 10	07LT10	119.20
07 on 12	07LT12	126.40
07 on 14	07LT14	132.15
08 on 08	08LT08	110.60
08 on 10	08LT10	122.10
08 on 12	08LT12	132.15
08 on 14	08LT14	135.00
08 on 16	08LT16	137.90
10 on 10	10LT10	132.15
10 on 12	10LT12	137.40
10 on 14	10LT14	142.20
10 on 16	10LT16	147.95
12 on 12	12LT12	147.95
12 on 14	12LT14	150.80
12 on 16	12LT16	153.70
12 on 18	12LT18	163.75
14 on 14	14LT14	153.70
14 on 16	14LT16	163.75
14 on 18	14LT18	166.60
16 on 16	16LT16	166.60
18 on 18	18LT18	174.00

45° Tee on Taper

Airtight , Fully Welded, Stronger than competitor's products.

Tee on Tapers are needed to reduce static pressure in your dust collection system and improve the overall performance. Tee on Tapers are used in locations where the combination of lateral tee and reducer may be planned. Many others sizes of Tees available, call 800-367-3828 for quote.

6"x4"x4" 45° Tee on Taper

8"x6"x6" 45° Tee on Taper

A x B x C	Part No.	Price
4"x3"x3"	04X03X03TT	103.75
5"x4"x3"	05X04X03TT	104.50
5"x4"x4"	05X04X04TT	109.86
6"x4"x4"	06X04X04TT	106.35
6"x5"x3"	06X05X03TT	107.62
6"x5"x4"	06X05X04TT	114.90
6"x5"x5"	06X05X05TT	123.21
7"x5"x5"	07X05X05TT	131.31
7"x6"x4"	07X06X04TT	119.00
8"x6"x4"	08X06X04TT	127.00
8"x6"x5"	08X06X05TT	137.47
8"x6"x6"	08X06X06TT	141.88
10"x8"x6"	10X08X06TT	157.99
10"x8"x8"	10X08X08TT	174.40
12"x10"x6"	12X10X06TT	170.32

45° Lateral Saddle Tap Tee

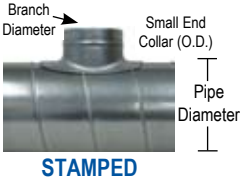
Airtight , Fully Welded, Stronger than competitor's products.

Commonly used when tapping into existing pipe, a 45° Saddle Tap Tee can be added on existing duct work by cutting a hole and pop riveting the saddle over the opening. It is important that you have the air volume (C.F.M.) for the new opening. Part Number designation for ordering, use "LST". A 4" branch on 6" pipe use Part No.: 04LST06.

- Saddle price is based on branch diameter.
- Saddle branch is male end.
- Saddle is rolled to fit specified pipe size.
- 20 Gauge galvanized welded construction.
- Fabricated to order.

Branch Dia.	Part No.	Price
2"	02LST__	41.00
3"	03LST__	42.50
4"	04LST__	43.08
5"	05LST__	50.26
6"	06LST__	67.20
8"	08LST__	75.85
9"	09LST__	76.85
10"	10LST__	78.99
12"	12LST__	106.00

90° Stamped Saddle Tap Tee



STAMPED

90° Saddle Tap Tee is used to add branches onto existing pipe. Used in Heating and Air Conditioning Systems and Low Velocity Systems. NOT to be used for Dust Collection Systems. Other sizes available upon request.

Branch Dia. on Pipe Dia.	Part No.	Price
6" on 6", 8", 10"/12", 14"/16"/18", 20"/22"/24"	06ST__	19.50
8" on 8", 10", 12"/14", 16"/18", 20"/22"/24"	08ST__	23.25
10" on 10", 12", 14"/16", 18"/20", 22"/24"	10ST__	26.85
12" on 12", 14"/16", 18"/20", 22"/24"	12ST__	29.95

Installation of Spiral Pipe and Fittings

Pipe-To-Pipe Connection

Spiral pipe is connected by a small end coupling (Part No. COUP) which slips into the pipe sections.

Fitting-To-Fitting Connection

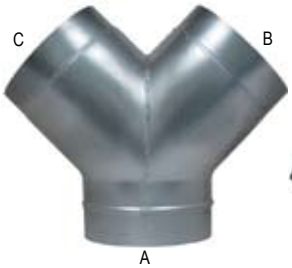
Fitting-to-Fitting connections can be made using a large end coupling (Part No. COU2).

Fitting-To-Pipe Connection

All fittings are sized to slip into mating pipe sections or flexible hose. No additional coupling will be needed.

Y Branches

Fully Welded, Airtight. Y Branch is the perfect solution for merging two branches of equal size together. As with our Tees, Y Branches are built to industrial standards of 20 gauge galvanized steel. Other sizes available upon request.



6" x 6" x 6" Y Branch

10" x 8" x 8" Y Branch

A x B x C	Part No.	Price
3"x3"x3"	03X03X03Y	105.50
4"x3"x3"	04X03X03Y	106.25
4"x4"x4"	04X04X04Y	106.75
5"x3"x3"	05X03X03Y	106.25
5"x4"x4"	05X04X04Y	106.75
5"x5"x5"	05X05X05Y	121.00
6"x3"x3"	06X03X03Y	104.75
6"x4"x4"	06X04X04Y	106.00
6"x5"x5"	06X05X05Y	122.50
6"x6"x6"	06X06X06Y	126.38
7"x4"x4"	07X04X04Y	113.53
7"x5"x5"	07X05X05Y	128.57
7"x6"x6"	07X06X06Y	135.41
7"x7"x7"	07X07X07Y	143.62
8"x4"x4"	08X04X04Y	120.37
8"x5"x5"	08X05X05Y	135.41
8"x6"x6"	08X06X06Y	143.62
8"x7"x7"	08X07X07Y	150.46
8"x8"x8"	08X08X08Y	157.98
10"x5"x5"	10X05X05Y	143.62
10"x6"x6"	10X06X06Y	150.46
10"x8"x8"	10X08X08Y	164.14
10"x10"x10"	10X10X10Y	172.34

OEM, Production and Speciality Fittings

What You Need, When You Need It. Fully Welded, Airtight.

We fabricate a variety of OEM, production and speciality round fittings on a regular basis. Standard material is 20 gauge galvanized steel, however other materials are available including galvannealed (paintable) steel. Whether you need one special fitting or a thousand custom parts, we fabricate many custom components to meet the needs of our very diversified customer base.

Multi-Tap Tees

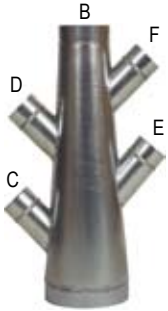
Stronger Than Most Competitor's Products Airtight, Fully Welded.

Please allow 4 to 10 working days for fabrication for all Multi-Tap Tees.

45° Double Cross Tee on Taper
DCTTAP45

45° Double Cross Lateral Tee
DCLT45

45° Double Branch Tee on Taper
DBTTAP45

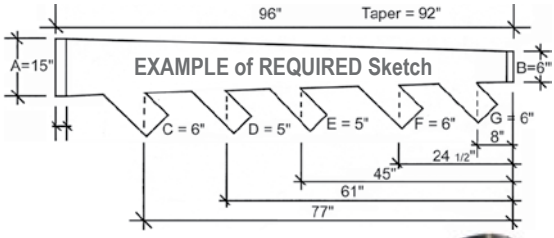


45° Double Cross Branch Tee on Taper
DCBTTAP45

45° Multi Tap Manifolds

What You Need, When You Need It. Fully Welded, Airtight.

We fabricate Custom Tees to your specifications. To provide a quote for a multi-tap manifold we require a DETAILED Sketch of the manifold. On the sketch, designate the A & B diameter. Then, designate the placement and diameter of each tap C, D, E, F etc. Provide measurements from small-end B to the start of each tap working toward A (taps can be on opposite sides).



Multi-Tap Manifold (4 taps) for a high production sander.

Multi-Tap Manifold (4 taps) for a gang of Shapers

Fully Airtight Welded

Multi-Tap Manifold (6 taps), AHPLUS is recommended for a manifold like this used for general dust control.

Multi-Tap Manifold (7 taps) for a cabinet manufacturer using an Edge Bander. Manifold shipped in 2 pieces via UPS

Fully Airtight Welded

AHS ON THE JOB - Gil Russ, Loveland, OH

"I don't know how you get the items to fit together so well? I know when you weld metal it is hard to hold a true form, however, Air Handling Systems has this down pat. Other companies cannot do this - that is why they only offer fittings that are spot-welded. But Air Handling Systems fully welds everything. That's why they are the experts. Everyone who comes into my shop is impressed with my dust collection system. I recommend that they call Air Handling Systems if they want a clean shop."

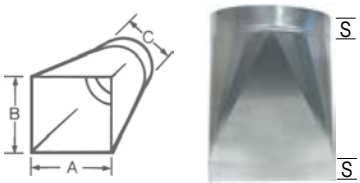
Transitions

Stronger Than Most Competitor's Products Airtight, Fully Welded.

Transitions are custom fabricated of 20 gauge galvanized steel with welded construction. Flanges are not included but will be priced upon request. The round end 3"-24" is concentric to the square or rectangular end. Please specify I.D. or O.D. dimensions. Transition pricing applies to those with a round, rectangular, or square end area within 10%.

- Transitions 3"-11" diameter overall length = 9", S = 2"
- Transitions 12"-15" diameter overall length = 12", S = 2"
- Transitions 16"-24" diameter overall length = 16", S = 2"

Fully Airtight Welded



Trans 1 - Square to Round

Trans 2 - Rectangle to Round, with 1 inch bent out flange

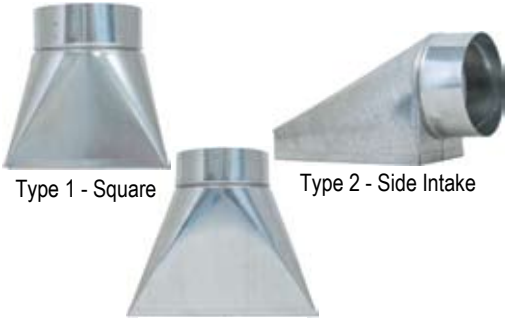
Dia.	Circle Area in Sq. In.	Price
3"	7.07	87.50
4"	12.57	89.25
5"	19.63	92.50
6"	28.27	101.20
8"	50.27	134.00
9"	63.62	140.00
10"	78.54	147.25
12"	113.10	166.50
14"	153.90	185.00
16"	201.00	210.50
18"	254.40	231.00
20"	314.10	242.00
22"	380.10	257.00
24"	452.30	292.00

AHS ON THE JOB - Brian Connolly, Cole Wood Products, Woodbury, CT

"I want to compliment Air Handling Systems for providing a solution for the dust collection requirements in my millwork shop. I tried using ductwork provided by my HVAC contractor, the first time I turned on the blower it collapsed the pipe like stepping on a tin can. Air Handling Systems pipe worked. I picked it up and installed it the same day."

Nozzles

Nozzles are best utilized to get the capture velocity in close to your work area. This helps collect the majority of the dust or fumes. These are designed with a small end (O.D.) collar to attach directly to flexible hose. Nozzles are available in standard sizes only, 26 gauge, lap and spot welded construction. For custom sizes, see Transitions, above.



Type 1 - Square

Type 2 - Side Intake

Type 3 - Flat

Dia.	Type	Description	Part No.	Price
3"	1	4" x 4" Square	C51014	20.50
4"	1	5" x 5" Square	C51015	32.25
5"	1	6" x 6" Square	C51016	41.75
6"	1	8" x 8" Square	C51030	60.85
3"	2	3" x 5" Side Intake	C51018	33.75
4"	2	4" x 8" Side Intake	C51019	35.50
5"	2	5" x 8" Side Intake	C51020	36.25
6"	2	6" x 9" Side Intake	C51021	39.00
3"	3	7" x 1.25" Flat	C51026	38.25
4"	3	8" x 2" Flat	C51027	42.50
5"	3	10" x 2.25" Flat	C51028	41.25
6"	3	12" x 3" Flat	C51029	69.75

Spun Reducers

Seam Welded, Airtight. Standard Spun Reducers, are lathe formed from 20 gauge galvanized metal. Both ends are male end collars sized to fit into spiral pipe or flex hose (Collar is roughly two inches long). Overall Spun Reducer lengths are approximately eight inches. **Other sizes and materials available, please call for quote.**

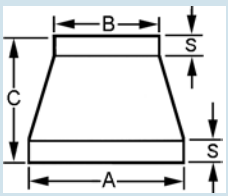
Dia.	Part No.	Price
4" to 3"	04SR03	21.50
5" to 3"	05SR03	22.50
5" to 4"	05SR04	22.50
6" to 3"	06SR03	23.85
6" to 4"	06SR04	23.85
6" to 5"	06SR05	23.85
7" to 4"	07SR04	24.25
7" to 5"	07SR05	24.25
7" to 6"	07SR06	24.25
8" to 4"	08SR04	25.00
8" to 5"	08SR05	25.00
8" to 6"	08SR06	25.00
8" to 7"	08SR07	25.00
9" to 5"	09SR05	29.75
9" to 6"	09SR06	29.75
9" to 7"	09SR07	29.75
9" to 8"	09SR08	29.75

Dia.	Part No.	Price
10" to 5"	10SR05	33.00
10" to 6"	10SR06	33.00
10" to 7"	10SR07	33.00
10" to 8"	10SR08	33.00
10" to 9"	10SR09	33.00
11" to 8"	11SR08	35.00
11" to 9"	11SR09	35.00
11" to 10"	11SR10	35.00
12" to 6"	12SR06	38.50
12" to 7"	12SR07	38.50
12" to 8"	12SR08	38.50
12" to 9"	12SR09	38.50
12" to 10"	12SR10	38.50
13" to 8"	13SR08	60.40
13" to 10"	13SR10	52.90
13" to 12"	13SR12	41.75
14" to 6"	14SR06	66.15
14" to 8"	14SR08	41.50
14" to 10"	14SR10	41.50
14" to 12"	14SR12	41.50

Custom Concentric Reducers

Fully Welded, Airtight

- Fabricated to your specifications.
- 20 Gauge Galvanized Metal.
- When ordering, use A, B & C dimensions. S=2".
- Custom Reducers require 4-10 days for fabrication.



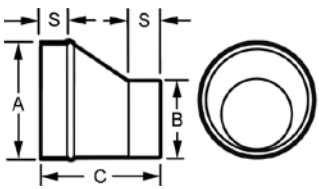
AHS ON THE JOB - Warren Lemaster, LeMaster Marine/LeMaster Builders, Bayside, CA

"It's always been my pleasure and advantage to deal with your company, Air Handling Systems, and personally with Curt Corum. I look forward to placing my next order. The personal attention and capability to provide quality materials with custom workmanship is very much appreciated."

Custom Eccentric Reducers

Fully Welded, Airtight

- Fabricated to your specifications.
- 20 Gauge Galvanized Metal.
- When ordering, use A, B & C dimensions. S=2"
- Heating and Air Conditioning Systems Only.
- Eccentric Reducers require 4-10 days for fabrication.



Full Blast Gate

Full Blast Gates 3"-24" are constructed of aluminum castings with a galvanized steel slide blade. Gate can be disassembled for cleaning. Full Blast Gates are used to balance the air going from one branch to another branch. When a machine is used for only a part of the workday, you can close the Blast Gate and divert the air to another machine.

Dia.	Part No.	Price
3"	03GATE	12.95
4"	04GATE	13.95
5"	05GATE	18.95
6"	06GATE	20.95
7"	07GATE	33.95
8"	08GATE	41.10
9"	09GATE	64.10
10"	10GATE	69.00
12"	12GATE	84.00

Half Blast Gate

Half Gates 3"-18" have the same quality and construction as the Full Blast Gate. Use Half Gates when working with wood containing a lot of pitch (it prevents the pitch from clogging the slide track). Half Gate is easily installed in existing ductwork simply by cutting a slot half way around the duct and sliding the blade into the opening, then pop riveting the casting to the outside of the duct.

Dia.	Part No.	Price
3"	03HGATE	15.75
4"	04HGATE	20.25
5"	05HGATE	22.50
6"	06HGATE	26.50
8"	08HGATE	38.00
9"	09HGATE	54.00
10"	10HGATE	56.00

Self-Cleaning Blast Gate

Self-Cleaning Gates are the same construction as Full Blast Gates except the galvanized steel blade pushes material like green wood, or wood sap through the end of the blast gate casting. This allows the blade to close without jamming on compacted materials.

Dia.	Part No.	Price
3"	03SGATE	21.95
4"	04SGATE	23.95
5"	05SGATE	26.95
6"	06SGATE	31.95
8"	08SGATE	61.95

2" Blast Gate with IO

2" Blast Gate with Inside Outside (IO) Coupling designed to fit INSIDE 2" flexible hose without restriction of airflow.

Dia.	Part No.	Price
2"	02GATE-IOK	23.95

Shop online www.airhand.com

Balancing with Blast Gates - Our Blast Gates can be adjusted to be open or closed at any position to best optimize their airflow from the equipment. Each of our Blast Gates has a thumbscrew adjustment to control CFM flow. You may close off a duct system a small amount and force that CFM to be used at another machine. Once you balance your system, just mark the location of each blast gate blade, you can even use color markings for different settings.

Hose to Gate Connector - Hose to Blast Gate Connector (BC) serves as an extension to facilitate installation of flexible hose to blast gate. See page 26.

Duct Silencers

Duct Silencers greatly reduce air movement noise levels (50% reduction in noise energy) in your work area or outside the building when located in the duct line on CLEAN air discharge of fans and dust collectors. Duct Silencers can be installed in new or existing systems. Not to be installed on inlet side of dust collector.

Our Duct Silencer is constructed of three layers. The inside layer is a wall fabricated of 22 gauge expanded metal. This is wrapped in the second layer which is a noise absorbing melamine foam. The foam is coated with a thermoplastic polyurethane film, this coating stops the foam from absorbing contaminate that flows through the duct system and at the same time allows air noise to pass into the foam. Finally, the outer layer consists of 22 gauge galvanized steel spiral pipe. Please allow 4 to 10 working days for fabrication.

Cross Section of Silencer, showing inner expanded metal wrapped in sound acoustical foam covered by our spiral pipe as the outer layer.

Dia.	L x W	Part No.	Price
5"	36" x 9"	05SILE	Call
6"	36" x 10"	06SILE	Call
8"	36" x 12"	08SILE	Call
10"	36" x 14"	10SILE	Call
12"	36" x 16"	12SILE	Call
14"	46" x 18"	14SILE	Call
16"	46" x 20"	16SILE	Call
18"	46" x 22"	18SILE	Call

Stainless Steel Silencers and larger sizes available, call for quote.

Up-Blast Stack Cap

Up-Blast Stack Cap combination non-back draft damper is applied at the terminating point of a vertical exhaust stack. The Cap has two damper blades that open automatically when the fan is turned on. When the fan is at operating speed, rain and snow are pushed away from the open duct. The damper blades remain at a slight angle when they are open. At the moment the fan is turned off, the blades drop and close off the open duct. This stops rain, snow or outside air from entering the duct system.

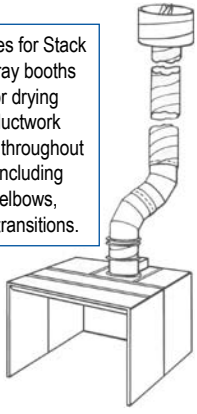
Most state and local municipalities "require" an Up-Blast Stack Cap as the terminating point of an exhaust duct that is directed to the atmosphere. It is also recommended to terminate the exhaust duct 6 feet above the roof line in a vertical fashion. This prevents the contaminant from being drawn into the heating or air conditioning units, open windows, make up air units and other open vents in the roof. For additional information, please refer to NFPA 33 and NFPA 91. The Code booklets can be obtained from the National Fire Protection Agency, www.nfpa.org. Allow 4 to 10 working days for fabrication.

Stainless Steel Stack Caps and larger sizes available, call for quote.

Side View. Collar sized to slip **OVER** spiral pipe.

Dia.	Length	Part No.	Price
6"	14"	UB06	227.30
8"	16"	UB08	238.80
10"	18"	UB10	305.20
12"	20"	UB12	323.08
14"	22"	UB14	337.13
16"	24"	UB16	344.79
18"	26"	UB18	351.18

Common uses for Stack Caps are spray booths (as shown) or drying ovens. Our ductwork can be used throughout the system, including spiral pipes, elbows, offsets, and transitions.



Swivel Ball Joint

Swivel Ball Joints with TWO properly installed collars - one collar to fit ductwork and a second EXTENDED COLLAR to connect to flexible hose allowing for free rotation. Do not be undersold just to save money. Most companies sell short collars, which are detrimental to installation and make it hard to connect pipe or hose. Competitors Ball Joints cannot be installed as sold. We add collars to ease connection to ductwork and hose. Constructed of 20 gauge galvanized steel.

Dia.	Part No.	Price w/Collar
4"	04BJC	187.50
5"	05BJC	211.60
6"	06BJC	227.70
8"	08BJC	289.80
10"	10BJC	383.00
12"	12BJC	495.00

Ball Joints are perfect for CNC Routers

Floorsweep

Floorsweeps ease clean-up when located near a machine where sufficient dust collection is difficult. At the end of the day, simply sweep dust into the Floorsweep. 18 gauge galvanized steel, welded construction.

Dia.	Part No.	Opening Size	Height	Price
4"	04FSWEEP	12" x 1.75"	13"	145.00
5"	05FSWEEP	14" x 2"	14.25"	152.00
6"	06FSWEEP	16" x 2"	14.25"	193.00

Radial Saw Hood

Hood is designed to be located behind saw blade. Hood has 4", 5" or 6" diameter collar, 18 gauge galvanized steel, welded construction.

Dia.	Part No.	Size	Price
4"	04RADIAL	H=9.5", W=9.5", D=7.5"	112.48
5"	05RADIAL	H=9.5", W=9.5", D=7.5"	113.56
6"	06RADIAL	H=9.5", W=9.5", D=7.5"	114.64

Radial Saw 2" Flexhose

02H201 Polyester neoprene, one ply very flexible hose for radial arm saw. Easily installs on blade guard and runs to lateral tee, 02H100, sold in five foot sections.

Starter Collar

Starter Collars are used when spaced is limited, for attaching flexible hose or pipe to a flat surface. This does not allow for the best airflow but is an alternative in a tight spot. They have a smaller back flange than bellmouths and take less space to install. They are also ideal for hanging filter bags. 20 gauge galvanized steel. Other sizes available.

Small End Collar (O.D.)

Dia.	Part No.	Price
3"	03RING-G	14.70
4"	04RING-G	15.05
5"	05RING-G	9.25
6"	06RING-G	9.00
7"	07RING-G	10.35
8"	08RING-G	11.40
10"	10RING-G	13.10
12"	12RING-G	15.40
14"	14RING-G	16.40

Bellmouth

Bellmouth is the optimum flow fitting for tapping round pipe or flexible hose to a flat surface. It is the proper fitting as recommended by the ACGIH, that must be used when tapping to a flat surface when space allows. For example, you can locate a bellmouth on the under side of a table saw, then attach ducting. Other sizes available.


Small End Collar (O.D.)

Dia.	Part No.	Price
4"	04BELL	48.40
5"	05BELL	43.90
6"	06BELL	34.70
8"	08BELL	37.50
10"	10BELL	48.15
12"	12BELL	61.05

Access Doors For Round Duct

Quick and Simple. Can be installed in minutes. Access Doors for round ducts are fabricated of galvanized steel. They have their own gaskets; no sealant is required, even for high-pressure applications. There are many times you need access into your duct system. For example, cleaning a spray booth duct and fan blade, cleaning out plugged ductwork, checking sprinkler heads or a fire damper's fusible links. This is the perfect solution. Other sizes available including High Temperature Doors. Allow 10 working days for fabrication. Fiberglass Rope 1000°F or Ceramic Fiber Gasket 2300°F.

Pipe Dia.	Door Size	Part No.	Price
4"	7"x3"	07ACDR03(4)	33.40
5"	7"x3"	07ACDR03(5)	33.40
6"	8"x4"	08ACDR04(6)	34.00
7"	8"x4"	08ACDR04(7)	34.00
8"	8"x4"	08ACDR04(8)	34.00
10"	8"x4"	08ACDR04(10)	34.00
12"	12"x8"	12ACDR08(12)	49.55
14"	12"x8"	12ACDR08(14)	49.55
16"	12"x8"	12ACDR08(16)	49.55
18"	16"x12"	16ACDR12(18)	74.00
20"	16"x12"	16ACDR12(20)	74.00
22"	20"x16"	20ACDR16(22)	131.50
24"-26"	20"x16"	20ACDR16(24-26)	131.50
28"	20"x16"	20ACDR16(28)	131.50
30"-32"	20"x16"	20ACDR16(30-32)	131.50
34"-36"	20"x16"	20ACDR16(34-36)	131.50
38"-40"	20"x16"	20ACDR16(38-40)	131.50
42"-46"	20"x16"	20ACDR16(42-46)	131.50

EASY Installation - Stick pattern on duct. Cut around pattern. Insert Door.

Access Doors for Round Duct are installed right above the tube axial fans (tube fans) to allow for cleaning and inspection of the fan blades as these are presently inaccessible areas.

Access Doors for Flat Surfaces

Flat Access Doors (oval shape) are fabricated of galvanized steel. They are perfect for use with rectangular or square duct. Can also be used for access in storage bins and into machines such as table saws. High Temperature Doors. Allow 10 working days for fabrication. Fiberglass Rope 1000°F or Ceramic Fiber Gasket 2300°F.

Door Size	Part No.	Price
8" x 4"	08FTAC04	27.95
12" x 8"	12FTAC08	43.00
16" x 12"	16FTAC12	68.00
20" x 16"	20FTAC16	124.50

AHS ON THE JOB - Roy Myers, Myers Cabinets, Whitestown, IN

"Speed in providing the needed materials and accuracy in system design tools are essential services provided by Air Handling Systems. The ease of installation helped save me money by using my own staff to install this entire system." Continues Myers. "Outstanding Service and Technical Advice is why I continue to use Air Handling Systems."

Stainless Steel Components

All Stainless Steel materials are supplied in 304, 2B, unless otherwise specified. Due to market fluctuations, prices and product availability will be quoted upon request.

Stainless Straight Pipe

Five foot length

Dia.	Part No.
4"	04X5PSS
5"	05X5PSS
6"	06X5PSS
8"	08X5PSS
10"	10X5PSS
12"	12X5PSS
14"	14X5PSS

Stainless Angle Rings

Pre-punched

Dia.	Part No.
4"	04RINGSS
6"	06RINGSS
8"	08RINGSS
10"	10RINGSS
12"	12RINGSS
14"	14RINGSS
16"	16RINGSS
18"	18RINGSS
20"	20RINGSS
24"	24RINGSS

Stainless Steel Welded Elbows - 20 Gauge

Dia.	Part No.
4"	04EL45SS
5"	05EL45SS
6"	06EL45SS
7"	07EL45SS
8"	08EL45SS
9"	09EL45SS
10"	10EL45SS
12"	12EL45SS
14"	14EL45SS

Dia.	Part No.
4"	04EL90SS
5"	05EL90SS
6"	06EL90SS
7"	07EL90SS
8"	08EL90SS
9"	09EL90SS
10"	10EL90SS
12"	12EL90SS
14"	14EL90SS

Other Stainless Steel fittings available include:

Up-Blast Stack Caps

Full Blast Gates

Y Branches

Lateral Tees

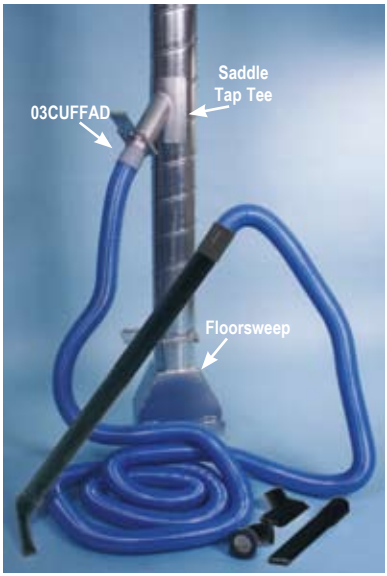
Fabricated Reducers

Bellmouths

Starter Collars

Industrial Vacuum Hose & Kit

Dust collection systems work great, but, they cannot possibly remove all the dust in the shop. How do you get rid of the stray dust from your hand tools and other machines that don't have dust collection attachments? The Industrial Vacuum Hose & Kit will put the stray dust where it belongs - in the dust collector. The Vacuum Kit includes the following: 2-1/2" Industrial Vacuum Hose (25 feet long), Nozzle Kit including Crevice tool, 14" wide Floor Nozzle, Dust Brush, Bench Nozzle, & Wands, (Gate and Saddle Tap Tee NOT included). The kit attaches directly to your existing ductwork with a Saddle Tap Tee and 3" Blast Gate with special metal cuff (03CUFFAD).



Why buy a portable vacuum when you can use the dust collector you already have?

Description	Part No.	Price
Vac Kit w/25' hose*	2.5IVHKITK	125.00
25 feet of hose	025IVH25	99.00
50 feet of hose**	025IVH50	195.00
Nozzle Kit	025ACCEK	28.00
Plug End Cuff	025CUFF	11.25
3" Gate & Coup	03CUFFAD	21.55
Saddle Tap Tee	03LSTxx*	42.50

*Vacuum Kit includes 25' of hose, cuff & nozzle kit (gate and saddle tap tee NOT included).
**Do not use 50 feet of hose for Vac Kit, as there is TOO MUCH RESISTANCE. 50 foot available as a replacement to cut into shorter lengths.

Constructed of: Longitudinal and helical polyester fibers bonded to a final layer of PVC reinforced with a spring steel wire helix.
Color: Blue
Available Diameter: 2 1/2" I.D.
Hose Lengths: 25 ft. or 50 ft.
Temperature Range: -20^{O}F to 150^{O}F

Air Handling System's Industrial Vacuum Hose and Kit is designed for general clean up around the shop floor and machinery. **Do not use for very fine dust collection such as bag house room or very prolonged periods of time.** Caution: Before you order, verify that you have a **Two-Stage Dust Collector with at least 5 HP. NOT for use with Single Stage Dust Collectors.**

Industrial Vacuum IVH

Industrial Vacuum IVH-G Hose is a versatile hose. Other ideal applications include venting gas, fumes & moisture; light dust collection; light vacuum applications. Smooth, easy to clean interior wall results in higher flow rates and reduced friction for longer wear. Cuffs are also available to easily attach hose to collection system.

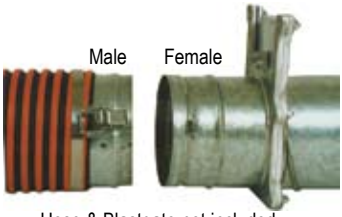
Dia.	Part No.	Price
1.5"	015IVH-G	3.70
2"	02IVH-G	4.75
3"	03IVH-G	7.25
4"	04IVH-G	8.75
	Cuffs	
1.5"	015CUFF	4.25
2"	02CUFF	10.05
3"	03CUFF	13.00

Constructed of: Longitudinal and helical polyester fibers bonded to a final layer of PVC reinforced with a spring steel wire helix.
Color: Grey.
Standard Length: 25 ft.
Temp. Range: -20^{O}F to 150^{O}F.

Caution: Do not use IVH hose where high temperatures or flame exist, product is not fire retardant.

Quick Flexible Hose Disconnect (QFD)

Quick Flexhose Disconnects are an easy way of connecting flexhose to hood collar or duct run. Installs in flexhose with hose clamp. Just unsnap to remove quickly. Priced as a set. Also available separately, call for pricing and availability.



Hose & Blastgate not included.

Dia.	Part No.	Price
4"	04QFD	34.51
5"	05QFD	37.17
6"	06QFD	38.49
8"	08QFD	45.25
10"	10QFD	46.95
12"	12QFD	47.75

Hose to Gate Connector

Hose to Blast Gate Connector (BC) serves as an extension to facilitate installation of flexible hose to blast gate. BC Connectors are three inches long, 22 gauge, and fits snugly over small end of blast gate while flexible hose fits tightly over the other end. Pop rivet BC Connector to Blast Gate, for a long lasting easy installation.

Blast Gate not included.

Dia.	Part No.	Price
3"	03BC	9.32
4"	04BC	9.45
5"	05BC	10.66
6"	06BC	10.97
7"	07BC	11.29
8"	08BC	12.08
10"	10BC	13.39
12"	12BC	13.55

AHS ON THE JOB - TJ Carr, Downes and Reader

"Air Handling Systems has been able to help me over every hurdle I've had. From collection issues at the machine to return air; the support, service and inventory has been there when I needed it. They are a wonderful group to work with, always helpful and responsive from the sales desk to the shipping department."

3-Bead Coupling for Hose

3-Bead Coupling (COUX) is the solution for connecting short hose sections to create a usable length. Do you have a damaged hose section? Simply cut out the bad section and splice it back together with the 3-Bead Coupling. You can also use the COUX to extend an existing hose drop when necessary to connect to a machine a little further away. Constructed of 20 gauge galvanized steel. Overall length = 6".

Clamps required to secure hose.

Dia.	Part No.	Price
4"	04COUX	13.75
5"	05COUX	14.30
6"	06COUX	15.75
8"	08COUX	17.10
10"	10COUX	18.70
12"	12COUX	20.10

Stainless Steel Hose Clamps

Completely mechanical design locks the one-piece housing directly to the band, using the full strength of the material to provide maximum anti-shear protection. There are no spot welds to rupture under stress or corrosion. And the one-piece housing cannot come apart under high loading. All Stainless Steel construction. Material Specifications Screw: 5/16" hex-head. 410 stainless steel. Band: 1/2" band width. 201/301 stainless steel. Housing: 201/301 stainless steel.

Dia.	Part No.	Price
2"	02CLAM	1.90
3"	03CLAM	2.00
4"	04CLAM	2.20
5"	05CLAM	2.40
6"	06CLAM	2.65
8"	08CLAM	3.05
10"	10CLAM	4.20
12"	12CLAM	4.50
14"	14CLAM	4.95

Adjustable Vacuum Hose & Hood

LOC-LINE® 2 1/2" Vacuum Hose is designed to be added to an existing central vacuum system to extract smoke, dust, fumes and particles at the source. It is easy to position within a work area and can be mounted to 3" PVC adapter or 3" sheet metal adaptor. Features: Self-supporting & Adjustable; Resistant to crushing; Short bend radius; Easy Installation.

Description	Part No.	Price
One foot segment (2.5" ID)	81201	15.85
4.5" Round Nozzle	81203	5.65
6"x3.5" Rectangular Nozzle	81204	5.65
3" PVC Adapter	81206	4.50
3" Sheet Metal Duct Adapter	81207	4.50
PVC Blast Gate	81208	13.60

Economical Stainless Steel Flexible Hose

An economical stainless steel tubing designed to handle a broad range of applications, including fume control & elevated temperatures up to 1700°F.

Dia.	Part No.	Price
2"	02TLOK	10.36
3"	03TLOK	14.36
4"	04TLOK	15.96
5"	05TLOK	19.95
6"	06TLOK	23.93
*8"	08TLOK	35.30

*8" available in 5 ft., for UPS shipping.

Construction: Triple mechanical lock, stainless steel 316 alloy, .005"
Color: Stainless Steel
Standard Length: 10 ft. or 5 ft. for $10 cutting charge, 5 ft. allows for UPS shipping.
Temp. Range: -60°F to 1700°F
Bend Radius: 1 1/2 x I.D.

Interlocking Galvanized Metal Flexible Hose

Interlocking metal hose is highly economical. Its construction permits flexibility as well as strength. Typical applications include engine intake and exhaust systems, abrasive material, and woodchip collection.

Dia. I.D.	Bend Radius	Weight Foot	Part No.	Price
2"	8"	0.7	02MFLE	6.50
3"	11"	1.0	03MFLE	7.40
*4"	15"	1.2	04MFLE	10.00
*5"	19"	1.5	05MFLE	11.80
*6"	22"	1.8	06MFLE	12.35

*4"-6" available in 5 ft., for UPS shipping.

Construction: Galvanized interlocked metal.
Material Thickness: .010"
Standard Length: 10 ft. or 5 ft. for $10 cutting charge, 5 ft. allows for UPS shipping.
Temp. Range: Sub 0 to 450°F

High Temperature Hoses 500°F to 2,000°F

500°F (intermittent) H401 Fiberglass-silicone impregnated flexible hose is ideal for automotive exhaust hose reel, gas exhaust control, hot fume control, hot air supply and removal, not recommended for diesel.

600°F Designed for medium pressure handling of air, dust, fumes and light powder, H600 is ideal for plastic injection molding resin dryers and high temperature fume collection.

1,000°F for diesel exhaust and 2,000°F for extreme temperatures.


H401 - Standard Length: 25 ft.


H600 - Standard Length: 12 ft.

Flexible, Versatile, Highly Visible AHPLUS

Tremendous versatility with improved puncture and tear resistance making it one of the best solutions for many of your dust collection needs including woodworking, solid surface dust, dry grinding dust and plastic dust. It is distinctly visible in ROYAL BLUE designed for increased visibility.

Abrasion Resistant | Chemical Resistant | Fume Removal | Dust Collection | UV/Ozone Resistant

Dia.	Part No.	Price
3"	03AHPLUS	10.60
4"	04AHPLUS	12.00
5"	05AHPLUS	14.65
6"	06AHPLUS	19.00

Construction: Polyester fabric encapsulated in thermoplastic rubber with a reinforced wire helix
Color: Blue
Standard Lengths: 12.5 ft or 25 ft.
Temp. Range: -60°F to 275°F

General Purpose RFH

Most versatile general purpose hose available. No cements, glues or adhesives are used in the manufacturing process. Can handle applications with a wide temperature range. Superior chemical resistance. UV/ozone resistant. Mild abrasion resistant. Also available in 40mm-160mm metric for imported machinery, see below.

Chemical Resistant | Fume Removal | Light Dust Collection | Moisture Resistant | UV/Ozone Resistant

Dia.	Part No.	Price
2"	02RFH	4.30
3"	03RFH	6.15
4"	04RFH	7.65
5"	05RFH	8.20
6"	06RFH	9.20
7"	07RFH	10.50
8"	08RFH	11.70
9"	09RFH	14.70
10"	10RFH	14.95
12"	12RFH	17.70

Construction: 30-MIL thermoplastic rubber with a wire helix
Color: Black
Standard Lengths: 5 ft., 10 ft., 25 ft.
Temp. Range: -60°F to 275°F continuous service, intermittent service to 300°F

General Purpose RFH METRIC

RFH-METRIC is identical to RFH except that it is Metric size. Metric size has been developed specifically to meet the needs of imported machinery owners.

Chemical Resistant | Fume Removal | Light Dust Collection | Moisture Resistant | UV/Ozone Resistant

Dia.	Part No.	Price
70mm	70RFH	6.05
80mm	80RFH	7.25
90mm	90RFH	7.60
110mm	110RFH	8.30
120mm	120RFH	8.90
140mm	140RFH	9.05
160mm	160RFH	10.40

Construction: 30-MIL thermoplastic rubber with wire helix
Color: Black
Standard Length: 25 ft. only
Temp. Range: -60°F to 275°F continuous service, intermittent service to 300°F

AHS ON THE JOB - P. Healey, Healey Custom Cabinetry, Winamac, IN

"Everything was fine and exactly what I ordered. I am very pleased with the quality and everything was packed well and came to me in great shape. Thank you. It has been a pleasure doing business with you."

Flame Retardant Polyester Neoprene AH2P

AH2P is strong, flexible and flame retardant to UL94V-0 rating, it is suitable for a wide range of applications from welding exhaust to dust collection on conveyors, grinders, buffers, polishers, machine tools, surface grinders, woodworking machines, and removal of smoke, fumes and airborne particles.

Flame Retardant | UL Listed | Chemical Resistant | Fume Removal | Puncture Resistant

Dia.	Part No.	Price
2"	02AH2P	7.38
3"	03AH2P	8.43
4"	04AH2P	9.66
5"	05AH2P	10.95
6"	06AH2P	11.74
8"	08AH2P	15.02
10"	10AH2P	18.75

Construction: 2-ply 100% polyester neoprene coated flame retardant to UL94V-0 rating with a crush resistant spring steel wire helix
Color: Black
Standard Length: 25 ft. or 12.5 ft. for $10 cutting charge.
Temp. Range: -40°F to 250°F

Smooth Bore Abrasion Resistance Urethane U30-AP

U30-AP has an ultra smooth interior which assures efficient airflow. Great abrasion, puncture and tear resistance with high tensile strength and lightweight. Clarity of hose allows easy visual check for blockages. External ABS helix.

Moisture Resistant | UV/Ozone Resistant | Abrasion Resistant | Puncture Resistant

Dia.	Part No.	Price
3"	03U30-AP	10.66
4"	04U30-AP	13.06
5"	05U30-AP	17.90
6"	06U30-AP	18.85
8"	08U30-AP	26.97

Construction: 33-40 MIL co-extruded all thermoplastic ether based polyurethane with rigid external ABS helix.
Color: Clear & Yellow
Standard Length: 25 ft.
Temp. Range: -40°F to 200°F

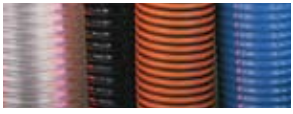
Chemical Resistance, Fume Control CVD

CVD is an economical flex hose with good chemical resistance for FUMES. Excellent choice for applications involving fume removal and satisfying many industrial chemical requirements.

Chemical Resistant | Fume Removal | Oil Resistant

Dia.	Part No.	Price
3"	03CVD-B	6.05
4"	04CVD-B	6.90
5"	05CVD-B	7.75
6"	06CVD-B	8.10
7"	07CVD-B	10.05
8"	08CVD-B	11.25
10"	10CVD-B	14.30
12"	12CVD-B	17.30

Construction: Polyvinyl chloride (PVC) chemical resistance material with a reinforced spring steel wire helix.
Color: Blue
Standard Length: 25 ft. or 12.5 ft. for $10 cut charge
Temp. Range: -20°F to 180°F



Many Other Flexible Hoses Available

Air Handling Systems can provide a variety of flexible hoses. Call 800-367-3828 or go to www.airhand.com for more details.

Lightweight Abrasion Resistance U20

Lightweight with good flexibility and compressibility, U20 has nearly all the abrasion and environmental resistance as our U30. Ideal for Oil Mist applications. U20 is constructed of 20-MIL thick urethane. Recommended for Vertical Panel Saw, and Edge Bander.

Dia.	Part No.	Price
2"	02U20-T	5.50
2.5"	025U20-T	7.05
3"	03U20-T	8.60
4"	04U20-T	9.50
5"	05U20-T	13.05
6"	06U20-T	14.40
7"	07U20-T	15.15
8"	08U20-T	15.90
10"	10U20-T	21.05
12"	12U20-T	23.85

Construction: 20-MIL polyurethane reinforced with a spring steel wire helix.
Color: Transparent
Standard Lengths: 10 ft. & 25 ft.
Temp. Range: -65^{O}F to 200^{O}F

Superior Abrasion Resistance U30

Heavy Duty Urethane U30 is ideal for traversing machinery such as CNC routers used in woodworking, plastics and solid surface dust collection. Additional uses include Shapers, Planers, Moulders, and Leaf collection. U30 has a high tear strength and superior abrasion resistance. U30 is constructed of 30-MIL thick urethane.

Dia.	Part No.	Price
2"	02U30-C	10.70
3"	03U30-C	12.35
4"	04U30-C	14.40
5"	05U30-C	16.45
6"	06U30-C	17.95
*7"	07U30-C	21.75
*8"	08U30-C	23.25
*10"	10U30-C	32.90
*12"	12U30-C	36.35

*Additional Shipping Costs Apply.

Construction: 30-MIL polyurethane reinforced with a spring steel wire helix.
Color: Clear
Standard Lengths: 5 ft., 15 ft. & 25 ft.
Temp. Range: -65^{O}F to 200^{O}F

Ultimate Abrasion Resistance U45

The Ultimate Puncture Resistant Urethane U45 is preferred when used for extreme conditions in leaf collection and street sweeping, broken glass, wood chips, bandmills, grain handling or any highly abrasive material. Ideal for heavy-duty municipal/commercial vacuuming. U45 will not collapse, twist or kink within recommended positive or negative working pressures. U45 is constructed of 45-MIL thick urethane. Allow 4-10 working days for fabrication.

Dia.	Part No.	Price
*6"	06U45	22.15
*8"	08U45	28.00
*10"	10U45	43.25
*12"	12U45	45.50
*14"	14U45	54.50

*Additional Shipping Costs Apply.

Construction: 45-MIL heavy weight polyurethane reinforced with a spring steel helix.
Color: Clear or Translucent Blue depending on availability.
Standard Length: 25 ft. or 12.5 ft. for $10 cut charge.
Temp. Range: -65^{O}F to 200^{O}F

Many Other Flexible Hoses Available - Air Handling Systems can provide a variety of flexible hoses. Call 800-367-3828 or go to www.airhand.com for more information.

Static Dissipative U30-SDC

U30-SDC is the answer for those who want to minimize the static build up from the friction caused by the material traveling through the hose. It is a flexible thermoplastic urethane hose which is an ideal choice for highly abrasive applications such as pellets, or dust collection. Recommended for fine powders found in woodworking, solid surface, plastics, toner dust, graphite, fertilizer.

Dia.	Part No.	Price
2"	02U30-SDC	17.80
3"	03U30-SDC	20.00
4"	04U30-SDC	22.20
5"	05U30-SDC	27.85
6"	06U30-SDC	30.60
*8"	08U30-SDC	37.10

*Additional Shipping Costs Apply.

Construction: 30-MIL thermoplastic static dissipative urethane with a spring steel wire helix.
Color: Clear
Standard Length: 25 ft. or 12.5 ft. for $10 cutting charge
Temp. Range: -65°F to 200°F

Static Dissipative WITH Grounding Wire SDH

Specially formulated thermoplastic polyurethane reinforced flexible hose with a plastic helix AND copper grounding wire. Constructed of a modern inherently static dissipative urethane. Great solution for combustible dust issues. Extremely flexible with great abrasion resistance. Smooth interior assures minimal friction loss and elimination of material build-up. Enclosed copper grounding wire reduces static build-up in material handling applications. Ideal for plastic pellet and powder transfer pneumatic conveying applications. Surface Resistively Level: 10^8-10^{10} Ohms/Square.

Dia.	Part No.	Price
2"	02SDH	9.77
3"	03SDH	20.46
4"	04SDH	25.57

Construction: Specially formulated thermoplastic polyurethane reinforced flexible hose with a plastic helix AND copper grounding wire
Color: Clear with black helix
Standard Length: 25 ft. only
Temp. Range: -40°F to 200°F

Superior Abrasion Metric U30

Metric Urethane is identical to our U30. It has been specifically sized to fit metric machines.

Approximate Metric to Inch Conversion
120 mm = 4.72"
140 mm = 5.51"
160 mm = 6.29"

Dia.	Part No.	Price
120mm	120U30-C	17.50
140mm	140U30-C	17.95
160mm	160U30-C	20.65

Construction: 30-MIL thermoplastic urethane with a spring steel wire helix.
Color: Clear
Standard Length: 25 ft. only
Temp. Range: -65°F to 200°F

Many Other Flexible Hoses Available

Air Handling Systems can provide a variety of flexible hoses. Call 800-367-3828 or go to www.airhand.com for more details.

Spiral Pipe

Our spiral pipe is commonly used for dust collection, fume collection and HVAC. Available in 18 ga.-24 ga., our spiral pipe is up to 20% stronger than smooth pipe systems of the same gauge, due to the added exterior spiral reinforcement in the manufacturing process. Make sure you have the right gauge for the right job. Do not be undersold, just to save money.

Flexible Hose

Air Handling Systems stocks over 20 different types of hoses for various applications including dust, fume and chip collection.

Are you looking for a product you can't find? Do you have a unique application or an OEM need? We have an extensive network to draw from to fit your needs.

Fittings

Stronger than most competitors products all of our standard fittings are 20 ga. galvanized, fully welded and air tight to eliminate leakage and give proper support that will last a lifetime.

Ready to Ship

We are knowledgeable about shipping rates and carriers to different parts of the country and world. Our shipping staff are very experienced and work to make sure the shipment goes by the most economical carrier. We can ship UPS or FedEx Ground, for these orders we fabricate spiral pipe in 5' sections from 3" to 12" diameter. (All other spiral pipe will be shipped by common carrier.) On rush orders, we can also handle your expedited requests.

Scan QR Code for Combustible Dust Video

Phone:
203.389.9595
800.367.3828

Fax:
203.389.8340

Order On-line:
www.airhand.com

E-mail:
sales@airhand.com

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