

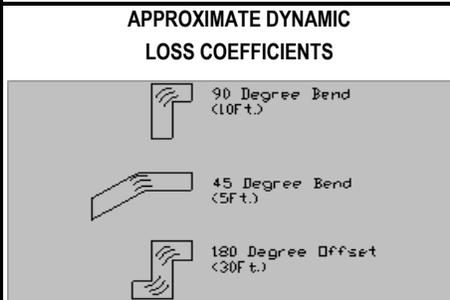


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STATIC PRESSURE CALCULATOR

TO FIND DUCT DIAMETER AND FRICTION LOSS	TO FIND DUCT DIAMETER AND DUCT VELOCITY	TO FIND DUCT VELOCITY AND FRICTION LOSS
Enter Velocity, Air Flow & Length Duct Velocity (FPM) <input style="width: 50px;" type="text" value="1,300"/> Duct Airflow (CFM) <input style="width: 50px;" type="text" value="1,000"/> Duct Length (Feet) <input style="width: 50px;" type="text" value="100"/> Enter Number of Bends 45° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 90° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 180° Offset (QTY) <input style="width: 50px;" type="text" value="0"/> Results Duct Diameter (in) <input style="width: 50px;" type="text" value="11.9"/> Friction Loss - (Inches W.C.) <input style="width: 50px;" type="text" value="0.23"/>	Enter Friction Loss, Airflow & Length Available Pressure - (Inches W.C.) <input style="width: 50px;" type="text" value="0.23"/> Duct Airflow (CFM) <input style="width: 50px;" type="text" value="1,000"/> Duct Length (Feet) <input style="width: 50px;" type="text" value="100"/> Enter Number of Bends 45° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 90° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 180° Offset (QTY) <input style="width: 50px;" type="text" value="0"/> Results Duct Diameter (in) <input style="width: 50px;" type="text" value="11.8"/> Duct Velocity (FPM) <input style="width: 50px;" type="text" value="1,317"/>	Enter Friction Loss, Airflow & Length Duct Diameter Round (inches) <input style="width: 50px;" type="text" value="12"/> Duct Airflow (CFM) <input style="width: 50px;" type="text" value="1,000"/> Duct Length (Feet) <input style="width: 50px;" type="text" value="100"/> Enter Number of Bends 45° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 90° Bends (QTY) <input style="width: 50px;" type="text" value="0"/> 180° Offset (QTY) <input style="width: 50px;" type="text" value="0"/> Results Duct Velocity (FPM) <input style="width: 50px;" type="text" value="1,274"/> Friction Loss - (Inches W.C.) <input style="width: 50px;" type="text" value="0.22"/>

TO FIND AIR MIXTURE	TO FIND EQUIVALENT RECTANGULAR DUCT	TO FIND EQUIVALENT ROUND DUCT																											
First Airstream <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td><td style="width: 40%;">CFM</td><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Temp, deg. F</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Humidity, Gr/Lb</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> </table> Second Airstream <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td><td style="width: 40%;">CFM</td><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Temp, deg. F</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Humidity, Gr/Lb</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> </table> Mixture Results <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td><td style="width: 40%;">CFM</td><td style="width: 30%;"><input style="width: 40px;" type="text" value="0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Temp, deg. F</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> <tr><td><input style="width: 40px;" type="text" value="0.0"/></td><td>Humidity, Gr/Lb</td><td><input style="width: 40px;" type="text" value="0.0"/></td></tr> </table>	<input style="width: 40px;" type="text" value="0"/>	CFM	<input style="width: 40px;" type="text" value="0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Temp, deg. F	<input style="width: 40px;" type="text" value="0.0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Humidity, Gr/Lb	<input style="width: 40px;" type="text" value="0.0"/>	<input style="width: 40px;" type="text" value="0"/>	CFM	<input style="width: 40px;" type="text" value="0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Temp, deg. F	<input style="width: 40px;" type="text" value="0.0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Humidity, Gr/Lb	<input style="width: 40px;" type="text" value="0.0"/>	<input style="width: 40px;" type="text" value="0"/>	CFM	<input style="width: 40px;" type="text" value="0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Temp, deg. F	<input style="width: 40px;" type="text" value="0.0"/>	<input style="width: 40px;" type="text" value="0.0"/>	Humidity, Gr/Lb	<input style="width: 40px;" type="text" value="0.0"/>	Enter Diameter Round Duct Diameter (in) <input style="width: 50px;" type="text" value="12"/> Enter Desired Height Rectangular Duct Height (in) <input style="width: 50px;" type="text" value="8"/> Results rounded to nearest inch Rectangular Duct Width (in) <input style="width: 50px;" type="text" value="14"/>	Enter Height Rectangular Duct Height (in) <input style="width: 50px;" type="text" value="8"/> Enter Width Rectangular Duct Width (in) <input style="width: 50px;" type="text" value="16"/> Results rounded to nearest inch Round Duct Diameter (in) <input style="width: 50px;" type="text" value="13"/>
<input style="width: 40px;" type="text" value="0"/>	CFM	<input style="width: 40px;" type="text" value="0"/>																											
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MAXIMUM RECOMMENDED SUPPLY VELOCITY

	Main Duct	Branch
Residential	900 fpm	600 fpm
Commercial	1,300 fpm	900 fpm
Industrial	1,800 fpm	1,000 fpm

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