

**Table 3- Required Air and Duct Values & Formulas**

<b>Required Air and Duct Values</b>	<b>Formulas</b>
Q = Air Flow Rate, Units = CFM	
D = Duct Diameter, Units = Feet	
A = Duct Cross Sectional Area, Units = Feet Squared	$A = \pi * (D/2)^2$
V = Air Velocity, Units = Feet/Minute	$V = Q/A$
VP = Velocity Pressure	$VP = (V/4005)^2$
L = Center Line Distance, Units = Feet	
C = Dynamic Loss Coefficient	Found in Tables below
SPF = Friction Loss Static Pressure	$SPF = .0195 * (L/D) * VP$
SPD = Dynamic Loss Static Pressure	$SPD = C * (VP)$
SP = Static Pressure	$SP = SPF + SPD$