

Test Data

Duct Blaster Tests

<u>Total Supply</u>	<u>Duct P</u>	<u>Ring</u>	<u>DB Fan P</u>	<u>Flow</u>
near 50	52			625
near 25	27			420
<i>flow exponent</i>	0.606 if <.5 or >.7, retest			

<u>Supply to out</u>	<u>Duct P</u>	<u>Ring</u>	<u>DB Fan P</u>	<u>Flow</u>
near 50	50			300
near 25	25			190
<i>flow exponent</i>	0.659 if <.5 or >.7, retest			

<u>True Flow Results*</u>	use worksheet provided
Corrected SCFM	850
NSOP	32

* or enter results from temp rise or DB matching test

SUPPLY LEAKAGE FRACTION CALCULATION

Supply Duct Leakage near 25 Pa	Test Pressure	Total n	C
420	27	0.606	56.90

Pressure at Plenum	Plenum Weighting Fraction	Average Boot Pressure	Boot Weighting Fraction	System Operating Pressure
32	0.25	6.5	0.75	12.9

Supply Leakage to Outside near 25 Pa	Test Pressure	Outside n	C
190	25	0.659	22.78

Total Supply Leakage at System Operating Pressure =	268
Supply Leakage to Outside at System Operating Pressure =	123
Air Handler Flow =	850
Leakage Fraction =	14.4%

TrueFlow is default

Standard CFM/Static P Spreadsheet

(corrects for flowhood calibration, air delivery temp, and altitude)
 can add more rows as needed; just copy formulas downward

Reg Loc	Reg #	raw CFM	calibrated CFM	flow temp (F)	flow temp (C)	flow adj to T (CFM)	SCFM	static P
	s1	71.0	72.4	99.0	37.22	68.4	59.1	6.5
	s2	47.0	48.8	69.0	20.56	48.7	42.0	4.2
	s3	75.0	76.4	67.0	19.44	76.5	66.1	5.5
	s4	59.0	60.6	90.0	32.22	58.2	50.3	4.8
	s5	73.0	74.4	97.0	36.11	70.5	60.9	6
	s6	110.0	110.3	103.0	39.44	103.4	89.3	7.5
	s7	105.0	105.5	116.0	46.67	96.7	83.5	8
	s9	75.0	76.4	98.0	36.67	72.2	62.4	6
	s10	140.0	139.0	110.0	43.33	128.8	111.2	10
	s11	0.0	0.0	110.0	43.33	0.0	0.0	
	s12	0.0	0.0	98.0	36.67	0.0	0.0	
	s13	0.0	0.0	107.0	41.67	0.0	0.0	
	s14	0.0	0.0	101.0	38.33	0.0	0.0	
	s15	0.0	0.0	100.0	37.78	0.0	0.0	
	s16	0.0	0.0	92.0	33.33	0.0	0.0	

sum raw **755.0**

sum SCFM **624.8**

avg **6.5**

Flow hood calibration factors	
exponent	constant
0.96	1.21

Altitude (ft) **4000**