

Performance Data

Models 92LS-SS

Imperial Units

Nominal Module Length (ft)	Slot Length (ft)	Airflow (cfm/ft)	25	30	35	40	45
4	3.646	Airflow (cfm)	91	109	128	146	164
		NC	–	–	–	–	–
		TP	0.029	0.042	0.057	0.074	0.094
		VP	0.004	0.006	0.008	0.011	0.014
		T	1-1-3	1-1-4	1-2-4	1-2-5	1-2-5
6	5.458	Airflow (cfm)	136	164	191	218	246
		NC	–	–	–	–	15
		TP	0.025	0.037	0.050	0.065	0.082
		VP	0.004	0.005	0.007	0.010	0.012
		T	1-1-4	1-2-4	1-2-5	1-2-5	1-2-5
8	7.125	Airflow (cfm)	178	214	249	285	321
		NC	–	–	–	–	16
		TP	0.028	0.040	0.054	0.071	0.090
		VP	0.004	0.006	0.008	0.011	0.013
		T	1-1-4	1-2-5	1-2-6	1-2-6	1-3-6
10	9.125	Airflow (cfm)	228	274	319	365	411
		NC	–	–	–	–	17
		TP	0.031	0.045	0.062	0.081	0.102
		VP	0.005	0.007	0.009	0.012	0.015
		T	1-1-5	1-2-5	1-2-6	1-3-6	1-3-7
12	11.125	Airflow (cfm)	278	334	389	445	501
		NC	–	–	–	15	18
		TP	0.026	0.038	0.052	0.067	0.085
		VP	0.004	0.006	0.008	0.010	0.013
		T	1-2-5	1-2-6	1-3-7	1-3-7	2-3-7
14	13.125	Airflow (cfm)	328	394	459	525	591
		NC	–	–	–	16	19
		TP	0.029	0.042	0.057	0.074	0.094
		VP	0.004	0.006	0.008	0.011	0.014
		T	1-2-5	1-2-6	1-3-7	1-3-7	2-3-7
16	14.792	Airflow (cfm)	370	444	518	592	666
		NC	–	–	–	17	19
		TP	0.027	0.039	0.053	0.069	0.088
		VP	0.004	0.006	0.008	0.010	0.013
		T	1-2-5	1-2-6	1-3-7	1-3-7	2-3-7

CFM - cubic feet per minute

TP - total pressure - inches w.g.

VP - velocity pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Performance Notes:

1. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.
2. Noise Criteria (NC) values based on 10 dB room absorption re 10⁻¹² watts with dampers fully open.
3. Dash (–) in space indicates an NC level of less than 15.
4. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.

Airflow Measurements

1. Take velocity readings at a number of locations along the length of the slot.
2. Total the various readings and divide by the number of readings taken to arrive at an average slot discharge velocity (Vk in FPM).
3. Calculate the airflow (CFM/ft) by multiplying the average velocity by the Ak factor per foot which is 0.078.

$$\text{Airflow (CFM/ft)} = \text{Average Slot Velocity (Vk)} \times \text{Ak}$$

4. Calculate the total airflow (CFM) by multiplying by the actual slot length (ft) shown above.

$$\text{Airflow (CFM)} = \text{Airflow (CFM/ft)} \times \text{Slot Length (ft)}$$

Performance Data

Models 92LS-SS

Metric Units

Nominal Module Length (mm)	Slot Length (m)	Airflow (l/s per m)	38.7	46.4	54.2	61.9	69.7
1219	1.11	Airflow (l/s)	43	51	60	69	77
		NC	–	–	–	–	–
		TP	7	10	14	18	23
		VP	1.0	1.5	2.0	2.7	3.5
		T	0.3-0.3-0.9	0.3-0.3-1.2	0.3-0.6-1.2	0.3-0.6-1.5	0.3-0.6-1.5
1829	1.66	Airflow (l/s)	64	77	90	103	116
		NC	–	–	–	–	15
		TP	6	9	12	16	20
		VP	1.0	1.2	1.7	2.5	3.0
		T	0.3-0.3-1.2	0.3-0.6-1.2	0.3-0.6-1.5	0.3-0.6-1.5	0.3-0.6-1.5
2438	2.17	Airflow (l/s)	84	101	118	134	151
		NC	–	–	–	–	16
		TP	7	10	13	18	22
		VP	1.0	1.5	2.0	2.7	3.2
		T	0.3-0.3-1.2	0.3-0.6-1.5	0.3-0.6-1.8	0.3-0.6-1.8	0.3-0.9-1.8
3048	2.78	Airflow (l/s)	108	129	151	172	194
		NC	–	–	–	–	17
		TP	8	11	15	20	25
		VP	1.2	1.7	2.2	3.0	3.7
		T	0.3-0.3-1.5	0.3-0.6-1.5	0.3-0.6-1.8	0.3-0.9-1.8	0.3-0.9-2.1
3658	3.39	Airflow (l/s)	131	158	184	210	236
		NC	–	–	–	15	18
		TP	6	9	13	17	21
		VP	1.0	1.5	2.0	2.5	3.2
		T	0.3-0.6-1.5	0.3-0.6-1.8	0.3-0.9-2.1	0.3-0.9-2.1	0.6-0.9-2.1
4267	4.00	Airflow (l/s)	155	186	217	248	279
		NC	–	–	–	16	19
		TP	7	10	14	18	23
		VP	1.0	1.5	2.0	2.7	3.5
		T	0.3-0.6-1.5	0.3-0.6-1.8	0.3-0.9-2.1	0.3-0.9-2.1	0.6-0.9-2.1
4677	4.51	Airflow (l/s)	175	209	244	279	314
		NC	–	–	–	17	19
		TP	7	10	13	17	22
		VP	1.0	1.5	2.0	2.5	3.2
		T	0.3-0.6-1.5	0.3-0.6-1.8	0.3-0.9-2.1	0.3-0.9-2.1	0.6-0.9-2.1

L/S - litres per second

TP - total pressure - Pa

VP - velocity pressure - Pa

T - throw in meters

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Performance Notes:

1. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.
2. Noise Criteria (NC) values based on 10 dB room absorption re 10⁻¹² watts with dampers fully open.
3. Dash (–) in space indicates an NC level of less than 15.
4. Throws are given at 0.76, 0.51 and 0.25 m/s terminal velocities under isothermal conditions.

Airflow Measurements

1. Take velocity readings at a number of locations along the length of the slot.
2. Total the various readings and divide by the number of readings taken to arrive at an average slot discharge velocity (Vk in m/s).
3. Calculate the airflow (l/s per m) by multiplying the average velocity by the Ak factor per meter which is 23.8.
Airflow (l/s per m) = Average Slot Velocity (Vk) x Ak.
4. Calculate the total airflow (l/s) by multiplying by the actual slot length (m) shown above.
Airflow (l/s) = Airflow (l/s per m) x Slot Length (m).