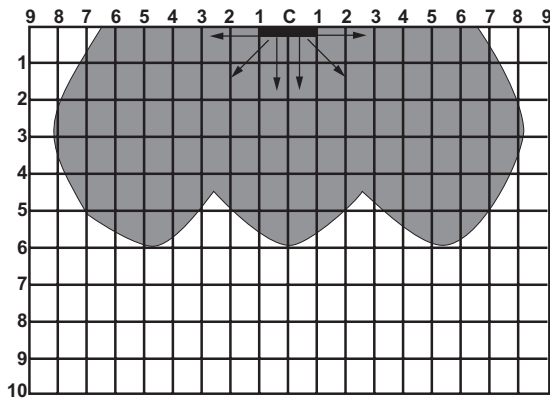
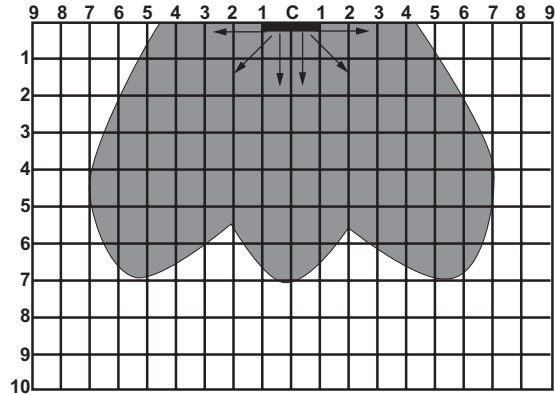


2-Way Pattern



Air envelope with a 5° temperature differential at 400 cfm/50 fpm Terminal velocity (24x24 diffuser with 8" inlet).

2-Way Pattern



Air envelope with a 15° temperature differential at 400 cfm/50 fpm Terminal velocity (24x24 diffuser with 8" inlet).



## 1-Way Engineering Data (90°)

UNIT SIZE (in.)	INLET SIZE (in.)	AIRFLOW (CFM)	P <sub>s</sub> (in wc)	NC	TEMP DIFF (°F)	HORZ THROW (ft)	VERTICAL THROW (ft)
24x24	6	150	0.015	<15	-5	4	2
		200	0.027	22	-5	5	3
		250	0.042	31	-5	6	4
24x24	6	150	0.015	<15	-15	3	4
		200	0.027	22	-15	4	5
		250	0.042	31	-15	5	6
24x24	8	300	0.037	23	-5	7	4
		400	0.065	32	-5	9	5
		500	0.102	39	-5	11	7
24x24	8	300	0.037	23	-15	5	6
		400	0.065	32	-15	7	8
		500	0.102	39	-15	9	-
24x24	10	400	0.045	21	-5	8	5
		550	0.085	33	-5	10	7
		700	0.138	41	-5	12	8
24x24	10	400	0.045	21	-15	6	7
		550	0.085	33	-15	8	9
		700	0.138	41	-15	10	-
24x48	10	400	0.024	19	-5	5	6
		550	0.046	31	-5	6	7
		700	0.074	38	-5	7	8
24x48	10	400	0.024	19	-15	4	7
		550	0.046	31	-15	5	8
		700	0.074	38	-15	6	9
24x48	12	600	0.044	25	-5	6	7
		800	0.079	35	-5	8	8
		1000	0.123	42	-5	10	-
24x48	12	600	0.044	25	-15	5	8
		800	0.079	35	-15	6	-
		1000	0.123	42	-15	7	-
12x48	6	150	0.015	<15	-5	2	2
		200	0.027	20	-5	3	3
		250	0.042	29	-5	4	4
12x48	6	150	0.015	<15	-15	1	4
		200	0.027	20	-15	2	5
		250	0.042	29	-15	3	6
12x48	8	300	0.037	17	-5	5	5
		400	0.065	28	-5	6	6
		500	0.102	33	-5	8	7
12x48	8	300	0.037	17	-15	3	6
		400	0.065	18	-15	4	7
		500	0.102	33	-15	6	8

## 2-Way Engineering Data (180°)

UNIT SIZE (in.)	INLET SIZE (in.)	AIRFLOW (CFM)	P <sub>s</sub> (in wc)	NC	TEMP DIFF (°F)	HORZ THROW (ft)	VERTICAL THROW (ft)
24x24	6	150	0.015	<15	-5	2.5	2.5
		200	0.027	22	-5	3	3
		250	0.042	31	-5	4	4
24x24	6	150	0.015	<15	-15	2	4
		200	0.027	22	-15	2.5	5
		250	0.042	31	-15	3	6
24x24	8	300	0.037	23	-5	7	5
		400	0.065	32	-5	8	6
		500	0.102	39	-5	9	7
24x24	8	300	0.037	23	-15	6	6
		400	0.065	32	-15	7	7
		500	0.102	39	-15	8	8
24x24	10	400	0.045	21	-5	7	6
		550	0.085	33	-5	9	7
		700	0.138	41	-5	11	8
24x24	10	400	0.045	21	-15	6	7
		550	0.085	33	-15	7	9
		700	0.138	41	-15	9	-
24x48	10	400	0.024	19	-5	4	5
		550	0.046	31	-5	5	6
		700	0.074	38	-5	7	7
24x48	10	400	0.024	19	-15	3	6
		550	0.046	31	-15	4	7
		700	0.074	38	-15	5	8
24x48	12	600	0.044	25	-5	4	6
		800	0.079	35	-5	6	7
		1000	0.123	42	-5	8	8
24x48	12	600	0.044	25	-15	3	7
		800	0.079	35	-15	5	8
		1000	0.123	42	-15	6	9

### Notes:

1. Tests conducted in accordance with ASHRAE 70-1991 (pressure loss and sound tests were conducted at isothermal conditions).
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. P<sub>s</sub>=Static Pressure and is measured in inches of water column.
4. NC=Noise Criteria and is based on 10dB room attenuation (Re: 10<sup>-12</sup> watts) evaluated at 125 thru 4000 Hz octave bands.
5. ΔT=The temperature difference, measured in degrees Fahrenheit, between the supply air temperature and the average room air temperature.
6. Horizontal and vertical throw are based on a terminal velocity of 50 fpm.
7. Test room dimensions: 18' x 24' x 9'
8. Dash "-" indicates vertical throw exceeds 9'.