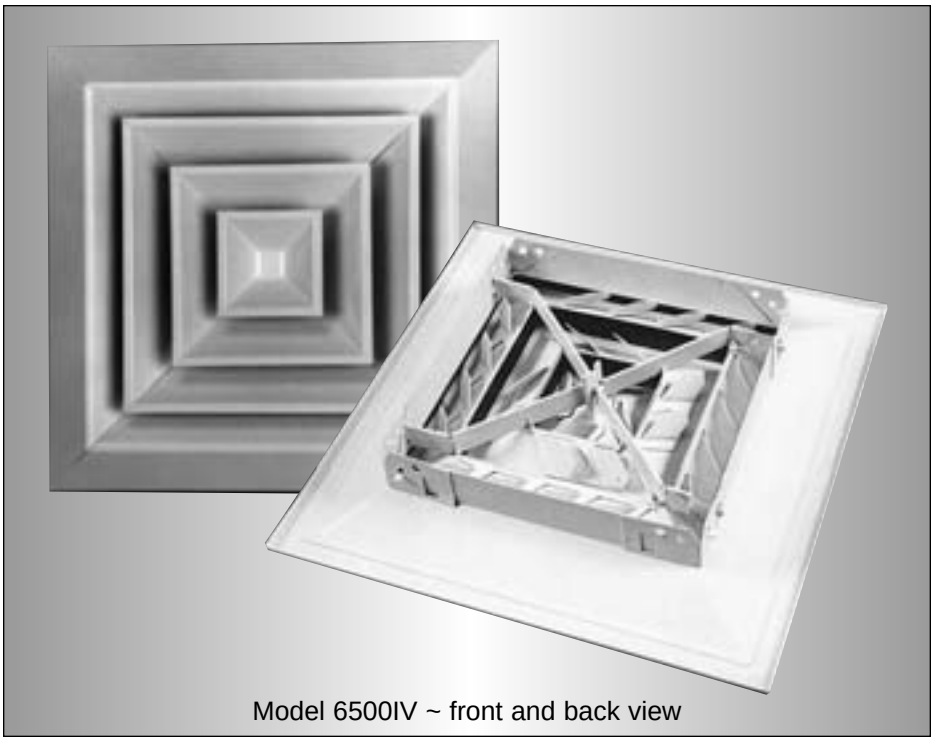
SQUARE AND RECTANGULAR PATTERN CEILING DIFFUSERS

- INDUCTION VANES
- LOUVERED FACE
- HIGH CAPACITY
- SQUARE, RECTANGULAR OR ROUND NECKS



Model 6500IV ~ front and back view

Steel Model:
6500IV Fixed Pattern
Aluminum Model:
6200IV Fixed Pattern

- **Suffix '-O' adds a steel opposed blade damper**
- **Suffix '-OA' adds an aluminum opposed blade damper** (available on aluminum models only)

The **Nailor Model Series 6500IV and 6200IV Pattern Ceiling Diffusers** have been specially designed to provide a high capacity, high induction, louvered face directional diffuser that can supply large volumes of air at relatively low sound levels and pressure drops. An engineered blade design with a 1/4" (6) horizontal lip on all angular discharge louvers creates a stable horizontal air pattern that is tight to the ceiling.

Induction vanes mounted behind the louvers create counter-flowing jets of primary air that promote rapid mixing of the cool primary air with the warm room air. This high induction characteristic is ideal for VAV applications involving high cooling loads as it quickly equalizes the air temperature, reduces the throw and minimizes the potential for uncomfortable drafts.

Available in a wide variety of core styles and neck sizes, a combination can be selected to suit a specified air pattern and deliver the desired volume of air to suit any particular requirement. Many frame types are also available to suit almost any mounting condition including surface mount (flat, beveled or deep drop face) and T-Bar panel types (Standard 1" (25), Fineline®, Spline, Tegular or Metal Pan Snap-in). These models therefore offer a great degree of design flexibility.

FEATURES:

• Spring loaded core. Removable without the use of tools.

• High neck collars for solid connection.

• Secure core attachment.

• A wide variety of frame styles to suit most ceiling applications.

• Optional extended panels to suit modular ceiling systems.

• Engineered air diffusion patterns for 1, 2, 3 or 4-way blow in a wide selection of square and rectangular neck sizes (see page D36).

• Clean lines with no unsightly visible screws.

• Square-to-round transition adaptors are available (SR option).

• Optional opposed blade damper with screwdriver slot operator.

Material: 6500IV Series – Corrosion-resistant steel. **6200IV Series** – Heavy-gauge aluminum extrusions.

Finish: AW Appliance White baked enamel finish is standard. Other finishes are available.

AVAILABLE SIZES:

Unit Size is determined by duct dimensions. Diffuser necks are undersized to suit ductwork.

Duct Sizes are available in 3" (76) increments.

Minimum size:

6" x 6" (152 x 152) square neck. 9" x 6" (229 x 152) rectangular neck (most core styles).

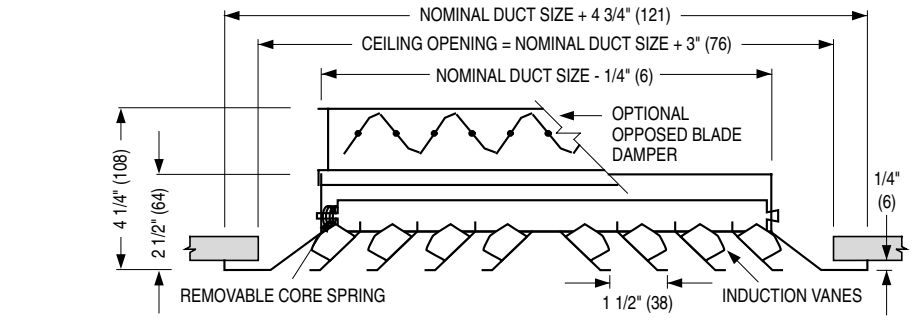
Maximum size:

Types S, B and D: 36" x 36" (914 x 914).

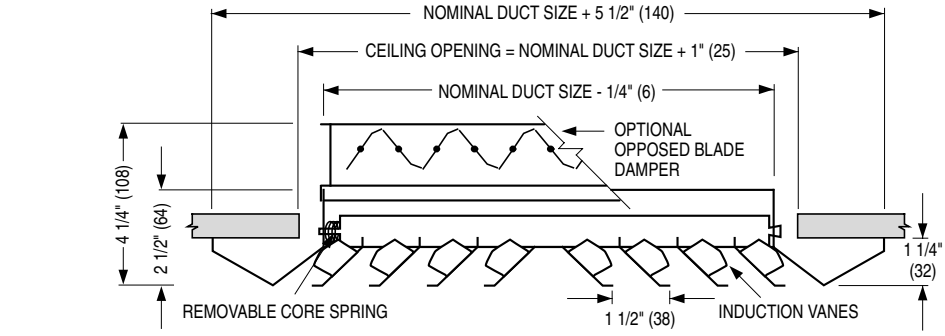
Types L, SP, TL, M and F: see page D34.

Dimensional Data and Frame Types

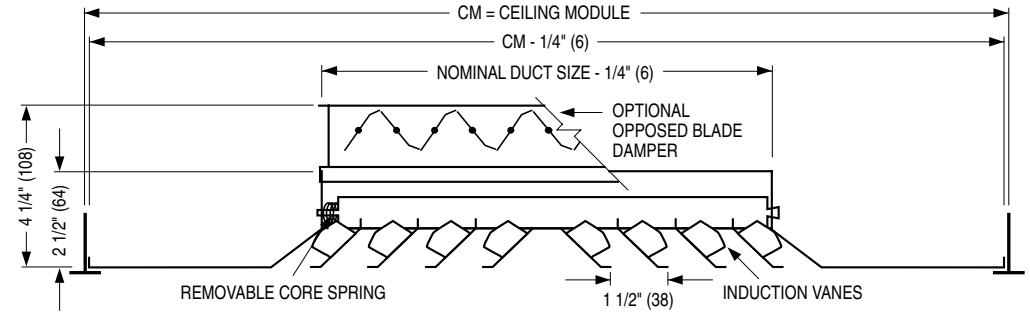
Model Series 6500IV and 6200IV



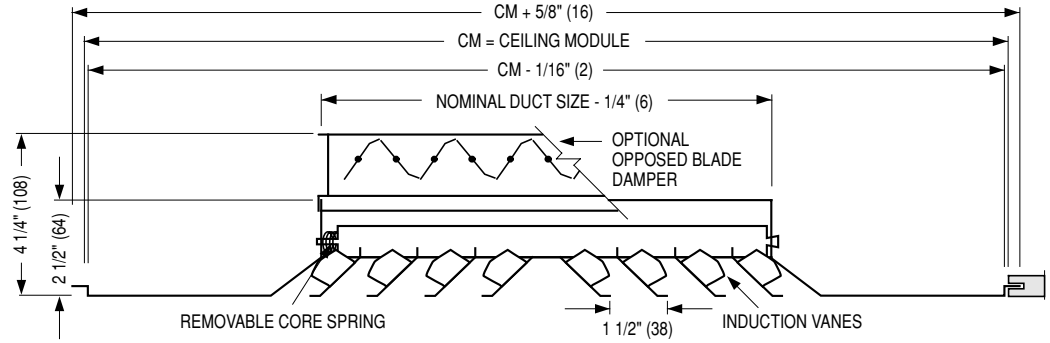
Type S - Surface Mount Frame



Type B - Beveled Drop Face Frame



Type L - Lay-In T-Bar Frame



Type SP - Spline Frame

SPLINE TYPE DIFFUSER FOR ONE-DIRECTIONAL EXPOSED T-BAR LAY-IN GRID OR FOR CONCEALED T-BAR GRID.
(SPLINES ON TWO OPPOSITE SIDES. STEEL LIFT BRACKETS ON THE OTHER TWO SIDES).

Extended Panel Diffusers
Frame Types L, SP, TL, M and F

If the ceiling module is more than 3" (76) larger than the neck size of the diffuser in either or both dimensions, a module-sized extended panel will be added.

See the table at right for the maximum duct size for each module size.

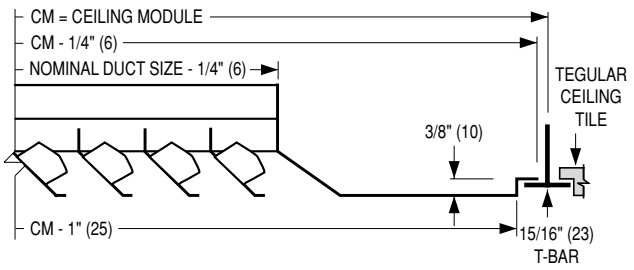
TABLE 1

Ceiling Module Size	Maximum Duct Size Frames L, SP and M	Maximum Duct Size Frames TL and F
12 x 12 (305 x 305)	9 x 9 (229 x 229)	6 x 6 (152 x 152)
20 x 20 (508 x 508)	15 x 15 (381 x 381)	–
24 x 12 (610 x 305)	21 x 9 (533 x 229)	18 x 6 (457 x 152)
24 x 24 (610 x 610)	21 x 21 (533 x 533)	18 x 18 (457 x 457)
48 x 24 (1219 x 610)	45 x 21 (1143 x 533)	–

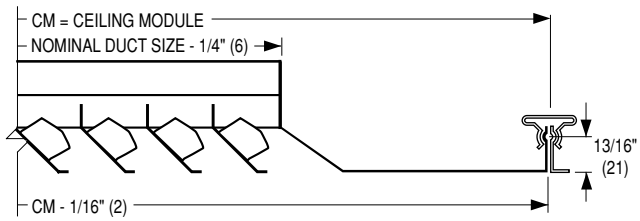
Dimensions are in inches (mm).

Dimensional Data and Frame Types
Model Series 6500IV and 6200IV

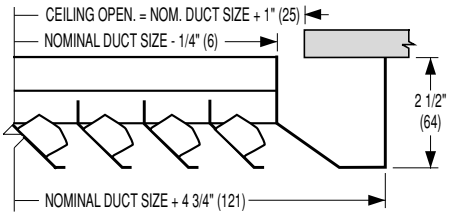
Type TL Tegular Lay-in



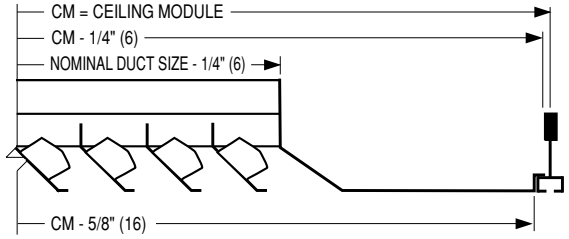
Type M Metal Pan (Snap-in)



Type D Deep Drop Face



Type F Fineline®

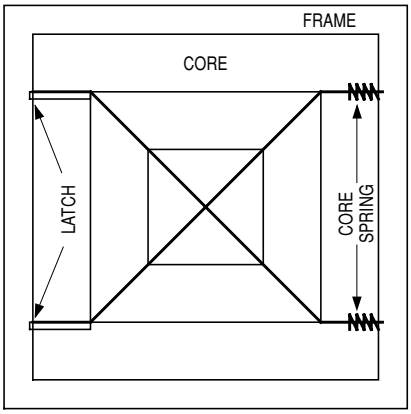


REMOVABLE CORE

- Standard feature of **Models 6500IV** and **6200IV.**
- Engineered design allows easy removal without the need for tools, yet remains securely in place.

HOW TO REMOVE "REMOVABLE" CORE

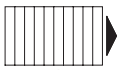
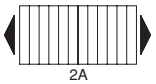
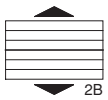
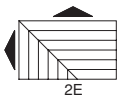
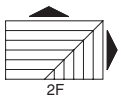
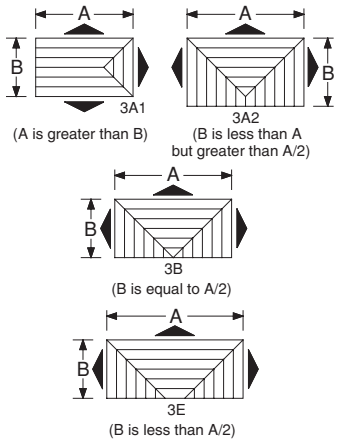
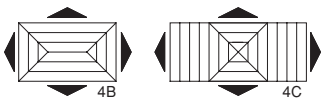
To remove diffuser core, lift the complete core assembly to disengage the latch, push the core against the core spring, pull down the core slightly and remove. Reverse procedure to re-install.



Standard Core Styles

Model Series 6500IV and 6200IV

Contact factory for special core configurations.

	SQUARE	RECTANGULAR	CORE	SIZES AVAILABLE MINIMUM	SIZES AVAILABLE MAXIMUM
1-WAY	 1S	 1A  1B	1S 1A 1B	6 x 6 (152 x 152) 9 x 6 (229 x 152) 9 x 6 (229 x 152)	36 x 36 (914 x 914) 36 x 33 (914 x 838) 36 x 33 (914 x 838)
2-WAY	 2S	 2A  2B	2S 2A 2B	6 x 6 (152 x 152) 9 x 6 (229 x 152) 9 x 6 (229 x 152)	36 x 36 (914 x 914) 36 x 33 (914 x 838) 36 x 33 (914 x 838)
2-WAY CORNER	 2G	 2E  2F	2G 2E 2F	6 x 6 (152 x 152) 9 x 6 (229 x 152) 9 x 6 (229 x 152)	36 x 36 (914 x 914) 36 x 33 (914 x 838) 36 x 33 (914 x 838)
3-WAY	 3A  3H	 3A1 (A is greater than B) 3A2 (B is less than A but greater than A/2) 3B (B is equal to A/2) 3E (B is less than A/2)	3A 3A1 3A2 3B 3E 3H	6 x 6 (152 x 152) 9 x 6 (229 x 152) 9 x 6 (229 x 152) 12 x 6 (305 x 152) 15 x 6 (381 x 152) 6 x 6 (152 x 152)	36 x 36 (914 x 914) 36 x 33 (914 x 838) 36 x 33 (914 x 838) 36 x 18 (914 x 457) 36 x 15 (914 x 381) 36 x 36 (914 x 914)
4-WAY	 4A	 4B 4C	4A 4B 4C	6 x 6 (152 x 152) 9 x 6 (229 x 152) 12 x 6 (305 x 152)	36 x 36 (914 x 914) 36 x 33 (914 x 838) 36 x 30 (914 x 762)

Dimensions are in inches (mm).

Notes:

1. Duct sizes are available in 3" (76) increments.
2. Patterns are shown in plan view (looking down into inlet).

HOW TO SPECIFY OR TO ORDER

(Show complete Model Number and Size, unless "Default" is desired).

Induction Vane Pattern Ceiling Diffusers – Model Series 6500IV and 6200IV

6500IV - O - 9 x 9 - 24 x 24 - L - AW - 4A - SR08

MODEL
- Steel Fixed Pattern 6500IV
- Aluminum Fixed Pattern 6200IV

DAMPER
- No Damper (default) —
- Opposed Blade (steel) O
- Opposed Blade (alum.) OA

NECK SIZE (W x H)

PANEL SIZE (TYPES L, SP, M, TL AND F ONLY)

Imperial (inches)	Metric (mm)
- 12 x 12	300 x 300
- 20 x 20	500 x 500
- 24 x 12	600 x 300
- 24 x 24	600 x 600
- 48 x 24	1200 x 600

FRAME TYPE
- Surface Mount Flat S
- T-Bar Lay-In L
- Spline SP
- Surface Mount Beveled B
- Metal Pan M
- Tegular (Drop Face) TL
- Fineline® F
- Surface Mount (Deep Drop) D

ACCESSORIES
- None (default) —
- Square to Round Transition Collar (04 thru 20 specify) SR
- Earthquake Tabs EQT

AIR BALANCING DEVICES

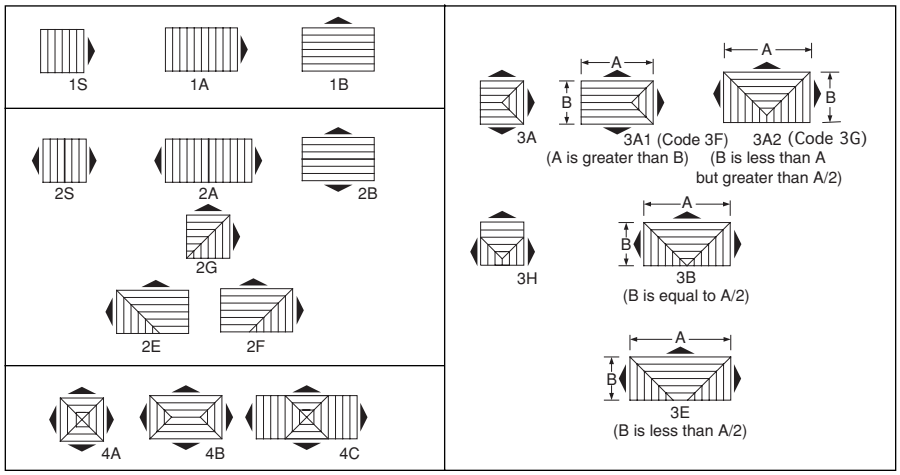
Rectangular Neck:
- Equalizing Grid (long) EGL
- Equalizing Grid (short) EGS
- Damper/Equal. Grid (long) DEGL
- Damper/Equal. Grid (short) DEGS

Round Neck:
- Radial Sliding Blade Damper 4250
- Radial Opposed Blade Damper 4275
- Butterfly Damper 4675
- Equalizing Grid EGR
- Damper/Equalizing Grid DEGR

CORE STYLE (See Below).

FINISH
- Appliance White (default) AW
- Aluminum AL
- Special Custom Color SP

CORE STYLE CHART



Note:
1. Consult text as to limitations of panel, neck size and core style combinations.

SUGGESTED SPECIFICATION:

Furnish and install **Nailor Model** (select one) **6500IV** (steel) or **6200IV** (aluminum) **Induction Vane Pattern Ceiling Diffusers** of the sizes and capacities as shown on the plans and air distribution schedules. The core assembly shall have a fixed pattern for horizontal throw and shall include induction vanes for rapid mixing of supply air with room air. The entire core assembly shall be removable without the use of tools. The directional pattern shall be supplied as a 4, 3, 2, or 1-way discharge pattern as specified. The core is to be interchangeable with all other frame styles of equal size. The square or rectangular duct connection collar shall be an integral part of the frame assembly. The finish shall be AW Appliance White baked enamel (optional finishes are available).

(Optional) An opposed blade damper constructed of heavy gauge corrosion-resistant steel (aluminum is optional) shall be provided with all units.

The manufacturer shall provide published performance data for the diffuser, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

Performance Data

Models 6500IV and 6200IV • Square Neck • Induction Vanes

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .035		400 .062		500 .097		600 .140		700 .191		800 .249		900 .316	
	RETURN FACTORS —SP=1.1 TP NC + 1	CFM NC	75 —		100 14		125 21		150 26		175 30		200 35		225 39	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
6 x 6 .25 SQ. FT.	4A	CFM/SIDE	19		25		31		37		44		50		56	
		THROW, FT.	3-4-6		3-5-8		5-6-8		5-6-9		6-7-10		6-7-10		7-8-10	
	3A	CFM/SIDE	19	28	25	38	31	47	37	56	44	66	50	75	56	85
		THROW, FT.	3-4-6	4-6-9	3-5-8	5-7-10	5-6-8	6-8-11	5-6-9	6-9-12	6-7-10	7-10-13	6-7-10	7-10-14	7-8-10	8-10-14
	2S 2G	CFM/SIDE	37		50		62		75		88		100		113	
		THROW, FT.	6-7-10		7-8-11		8-9-13		9-10-14		10-10-14		10-10-15		10-11-16	
	1S	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	7-9-12		8-10-14		9-11-15		10-12-18		10-13-18		11-14-19		12-14-20	
	RETURN FACTORS —SP=1.2 TP NC + 2	CFM NC	170 —		225 18		280 24		340 30		395 35		450 39		505 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
9 x 9 .56 SQ. FT.	4A	CFM/SIDE	42		56		70		84		98		112		126	
		THROW, FT.	5-6-10		6-8-11		8-9-12		8-10-13		9-10-14		9-11-15		10-12-16	
	3A	CFM/SIDE	42	63	56	85	70	106	84	127	98	148	112	169	126	190
		THROW, FT.	5-6-10	7-9-11	6-8-11	8-10-14	8-9-12	9-10-15	8-10-13	10-11-16	9-10-14	10-12-17	9-11-15	10-13-18	10-12-16	11-14-19
	2S 2G	CFM/SIDE	84		112		141		169		197		225		253	
		THROW, FT.	7-8-12		9-10-14		10-12-16		10-13-18		11-14-18		12-14-20		13-15-22	
	1S	CFM/SIDE	169		225		282		338		394		450		507	
		THROW, FT.	10-12-16		11-14-18		13-15-21		14-18-23		14-18-25		15-19-26		18-20-28	
	RETURN FACTORS —SP=1.3 TP NC + 4	CFM NC	300 14		400 21		500 27		600 32		700 37		800 40		900 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
12 x 12 1.0 SQ. FT.	4A	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	6-10-12		9-11-14		10-12-17		11-14-18		11-14-19		12-16-20		14-17-22	
	3A	CFM/SIDE	75	112	100	150	125	187	150	225	175	262	200	300	225	338
		THROW, FT.	6-10-12	9-11-15	9-11-14	11-13-17	10-12-17	11-14-19	11-14-18	12-15-21	11-14-19	13-16-22	12-16-20	14-17-24	14-17-22	15-18-25
	2S 2G	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	10-12-16		12-14-20		14-15-22		14-16-23		15-17-25		16-20-27		17-20-29	
	1S	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	13-16-22		14-18-26		17-20-30		18-21-31		18-22-33		20-23-33		22-26-38	
	RETURN FACTORS —SP=1.8 TP NC + 4	CFM NC	465 14		625 23		780 29		935 34		1090 37		1250 43		1400 45	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 15 1.56 SQ. FT.	4A	CFM/SIDE	117		156		195		234		273		312		350	
		THROW, FT.	10-13-17		11-14-19		13-15-22		14-17-23		15-18-24		16-19-26		17-21-28	
	3A	CFM/SIDE	117	175	156	234	195	292	234	351	273	409	312	468	350	527
		THROW, FT.	10-13-17	11-14-18	11-14-19	14-18-23	13-15-22	15-18-25	14-17-23	17-18-27	15-18-24	18-20-29	16-19-26	18-23-31	17-21-28	20-23-34
	2S 2G	CFM/SIDE	234		312		390		468		546		625		700	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		22-25-36		22-28-38	
	1S	CFM/SIDE	467		625		780		935		1090		1250		1400	
		THROW, FT.	17-20-29		18-23-34		21-26-38		23-29-41		24-31-44		26-34-46		29-35-49	
	RETURN FACTORS —SP=2.1 TP NC + 6	CFM NC	675 16		900 25		1125 31		1350 35		1575 40		1800 43		2025 46	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 18 2.25 SQ. FT.	4A	CFM/SIDE	168		225		281		337		394		450		506	
		THROW, FT.	12-15-20		14-16-23		15-19-26		16-20-29		18-22-30		19-23-33		20-25-34	
	3A	CFM/SIDE	168	253	225	338	281	422	337	506	394	590	450	675	506	760
		THROW, FT.	12-15-20	14-18-23	14-16-23	16-20-26	15-19-26	18-22-30	16-20-29	20-26-34	18-22-30	21-26-36	19-23-33	22-28-38	20-25-34	26-29-41
	2S 2G	CFM/SIDE	337		450		562		675		787		900		1012	
		THROW, FT.	15-18-26		18-21-30		19-24-34		21-25-37		24-27-39		24-28-42		26-31-44	
	1S	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	20-26-36		24-29-41		27-34-46		29-36-49		31-38-53		34-42-56		37-44-60	

For performance notes, see next page.

Performance Data

Models 6500IV and 6200IV • Square Neck • Induction Vanes

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .035	400 .062	500 .097	600 .140	700 .191	800 .249	900 .316
	RETURN FACTORS —SP=2.6 TP NC + 8	CFM NC	915 18	1225 26	1530 32	1835 36	2140 41	2450 44	2750 47
			A B	A B	A B	A B	A B	A B	A B
21 x 21 3.06 SQ. FT.	4A	CFM/SIDE	230	306	382	460	535	612	688
		THROW, FT.	14-17-24	15-20-27	17-22-31	18-24-33	20-27-35	21-27-37	22-31-41
	3A	CFM/SIDE	230 345	306 460	382 573	460 688	535 802	612 918	688 1030
		THROW, FT.	12-15-21 16-20-27	14-18-23 18-22-31	15-20-27 21-25-36	16-21-29 22-27-40	18-22-31 23-29-42	18-23-32 27-31-45	20-27-36 27-34-47
	2S 2G	CFM/SIDE	458	612	765	917	1070	1225	1375
		THROW, FT.	18-22-31	20-25-36	22-28-40	25-31-44	27-34-47	27-36-50	31-38-48
	1S	CFM/SIDE	917	1225	1530	1835	2140	2450	2750
		THROW, FT.	23-30-41	27-34-47	31-40-54	34-42-57	37-45-62	40-48-66	42-51-70
	RETURN FACTORS —SP=2.7 TP NC + 8	CFM NC	1200 19	1600 27	2000 33	2400 37	2800 41	3200 45	3600 48
			A B	A B	A B	A B	A B	A B	A B
24 x 24 4.0 SQ. FT.	4A	CFM/SIDE	300	400	500	600	700	800	900
		THROW, FT.	16-19-26	19-22-32	22-25-35	23-26-38	25-28-41	26-32-44	28-32-46
	3A	CFM/SIDE	300 450	400 600	500 750	600 900	700 1050	800 1200	900 1350
		THROW, FT.	16-19-26 18-22-31	19-22-32 19-25-37	22-25-35 23-29-42	23-26-38 25-30-45	25-28-41 29-33-47	26-32-44 29-34-51	28-32-46 31-38-54
	2S 2G	CFM/SIDE	600	800	1000	1200	1400	1600	1800
		THROW, FT.	20-26-36	24-29-41	27-34-46	29-36-49	31-38-53	34-42-56	37-44-60
	1S	CFM/SIDE	1200	1600	2000	2400	2800	3200	3600
		THROW, FT.	28-32-47	30-38-54	36-43-62	38-46-66	41-50-72	43-54-74	47-56-81
	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1875 20	2500 28	3125 34	3750 39	4375 43	5000 46	5625 50
			A B	A B	A B	A B	A B	A B	A B
30 x 30 6.25 SQ. FT.	4A	CFM/SIDE	469	625	782	937	1093	1250	1406
		THROW, FT.	20-25-34	23-29-38	27-32-44	29-35-49	30-37-52	32-40-55	37-42-58
	3A	CFM/SIDE	469 703	625 938	782 1172	937 1405	1093 1640	1250 1875	1406 2110
		THROW, FT.	20-25-34 22-27-39	23-29-38 26-31-46	27-32-44 28-35-51	29-35-49 31-39-55	30-37-52 33-39-59	32-40-55 35-46-62	37-42-58 39-48-66
	2S 2G	CFM/SIDE	937	1250	1562	1875	2187	2500	2812
		THROW, FT.	26-32-44	30-38-50	34-42-58	38-46-62	40-48-66	42-52-70	46-54-76
	1S	CFM/SIDE	1875	2500	3125	3750	4375	5000	5625
		THROW, FT.	34-42-58	39-48-66	45-55-74	48-58-82	50-62-87	55-66-117	58-70-98
	RETURN FACTORS —SP=3.6 TP NC + 9	CFM NC	2700 22	3600 29	4500 35	5400 40	6300 44	7200 48	8100 52
			A B	A B	A B	A B	A B	A B	A B
36 x 36 9.0 SQ. FT.	4A	CFM/SIDE	675	900	1125	1350	1575	1800	2025
		THROW, FT.	24-30-41	27-33-46	31-37-54	33-41-59	35-42-62	41-46-66	41-51-70
	3A	CFM/SIDE	675 1010	900 1350	1125 1687	1350 2025	1575 2362	1800 2700	2025 3038
		THROW, FT.	24-30-41 27-35-46	27-33-46 32-38-54	31-37-54 37-45-62	33-41-59 38-48-66	35-42-62 42-51-70	41-46-66 46-56-75	41-51-70 50-59-80
	2S 2G	CFM/SIDE	1350	1800	2250	2700	3150	3600	4050
		THROW, FT.	32-36-54	34-43-61	40-49-69	43-52-74	46-56-81	49-61-83	54-63-90
	1S	CFM/SIDE	2700	3600	4500	5400	6300	7200	8100
		THROW, FT.	39-49-68	47-56-79	53-64-91	58-68-98	61-73-105	66-78-114	70-85-120

CFM - cubic feet per minute

Neck Velocity - feet per minute

TP - total pressure - inches w.g.

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

Performance Notes:

1. Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions. Data applies to ceiling mounted units when the maximum coanda effect applies. When no ceiling is present (exposed duct), throws are reduced by approximately 25%.

2. Sound levels in performance tables are for steel construction – **Model 6500IV**. Apply the following corrections for aluminum construction – **Model 6200IV**.
TP = Listed value x 1.25.
NC = Listed value + 4.

3. Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.

4. Correction factors for round inlets - see next page.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Performance Data Corrections

Model Series 6500IV and 6200IV

CORRECTION FACTORS FOR RETURN INLET

If the unit is used as a return inlet, the performance data is obtained by applying the return corrections, as follows:

- Add the NC correction at the left side of the table to the NC value listed in the performance table.
- Multiply the listed SP factor at the left side of the table by the total pressure (TP) listed at the top of the table.

Example:

12" x 12" unit handling 600 cfm of return air. (Page D38).

- Return NC = 32 + 4 = 36.
- Return negative SP = 1.3 x (– .14) = – .182.

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR

- Add the NC correction factor from Table 2 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 2 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 2 by the listed throws in the performance tables.

Example:

12" x 12" unit with 10" round adaptor handling 500 cfm supply air. (Page D38).

- NC = 27 + 7 = 34
- Total Pressure = .097 x 1.65 = 0.160
- Throw = 17 x 1.15 = 19.55 feet @ 50 fpm terminal velocity.

TABLE 2 Correction Factors for SR Adaptors

SQUARE INLET	ROUND INLET	NC (add)	TP (multiply)	THROW (multiply)		
				150	100	50
6 x 6	**5**	7	1.65	1.10	1.10	1.15
9 x 9	**6**	17	3.50	1.15	1.15	1.20
9 x 9	**8**	4	1.40	1.10	1.10	1.10
12 x 12	**8**	17	3.50	1.15	1.15	1.20
12 x 12	**10**	7	1.65	1.10	1.10	1.15
15 x 15	**10**	17	3.50	1.15	1.15	1.20
15 x 15	**12**	9	1.90	1.10	1.10	1.15
15 x 15	**14**	3	1.25	1.05	1.05	1.10
18 x 18	**12**	17	3.50	1.15	1.15	1.20
18 x 18	**14**	10	2.00	1.10	1.10	1.15
18 x 18	**16**	5	1.45	1.10	1.10	1.10
21 x 21	**14**	17	3.70	1.15	1.15	1.20
21 x 21	**16**	11	2.25	1.10	1.10	1.15
21 x 21	**18**	6	1.60	1.10	1.10	1.10
21 x 21	**20**	3	1.20	1.05	1.05	1.10
24 x 24	**16**	17	3.50	1.15	1.15	1.20
24 x 24	**18**	12	2.35	1.10	1.10	1.15
24 x 24	**20**	7	1.65	1.10	1.10	1.15
24 x 24	**22**	4	1.33	1.05	1.05	1.10