



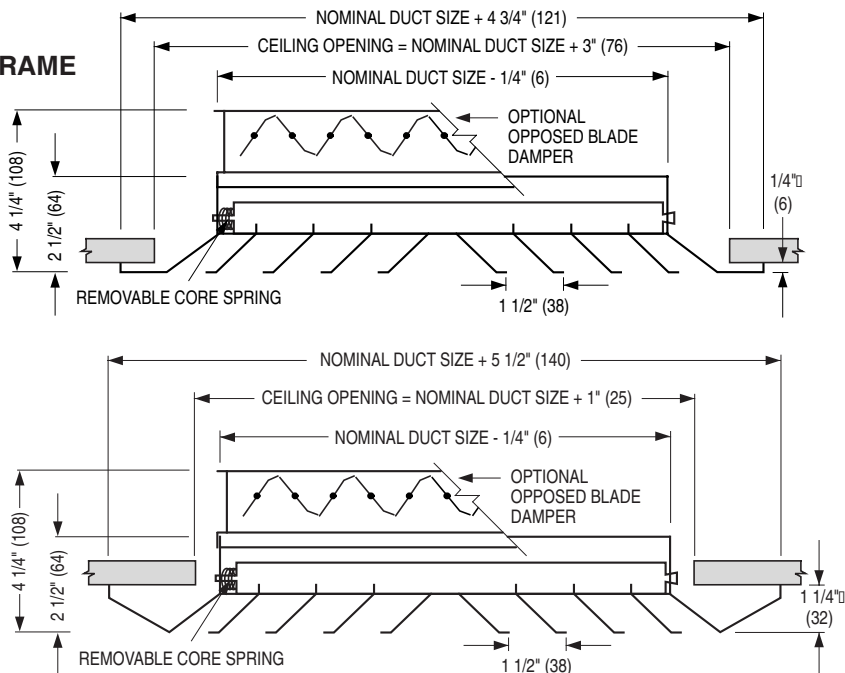
PATTERN CEILING DIFFUSERS **ALUMINUM • SQUARE, RECTANGULAR OR** **ROUND NECK** **MODELS: 6200 AND 6200-O TYPES S & B**

☐ **TYPE S • SURFACE MOUNT • FLAT FRAME**

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914)
 or 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.

☐ **TYPE B • BEVELED DROP FACE** **• SURFACE MOUNT**

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914)
 or 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.



CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S 	☐ 1A 	☐ 1B
↕ 2-WAY	☐ 2S 	☐ 2A 	☐ 2B
↗ 2-WAY CORNER	☐ 2G 	☐ 2E 	☐ 2F
↕ 3-WAY	☐ 3A 	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H 	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↕ 4-WAY	☐ 4A 	☐ 4B 	☐ 4C

Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum.
2. Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6200-O.
- ☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 23 - 26

6200

11 - 24 - 16

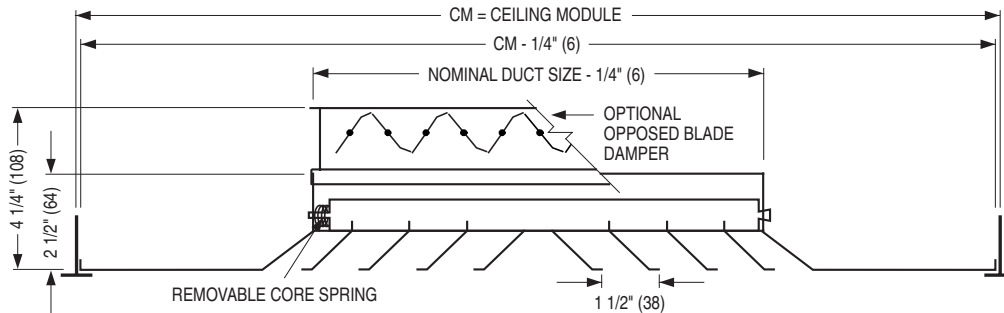
6200-1



PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK
MODELS: 6200 AND 6200-O TYPE L

TYPE L LAY-IN T-BAR



If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

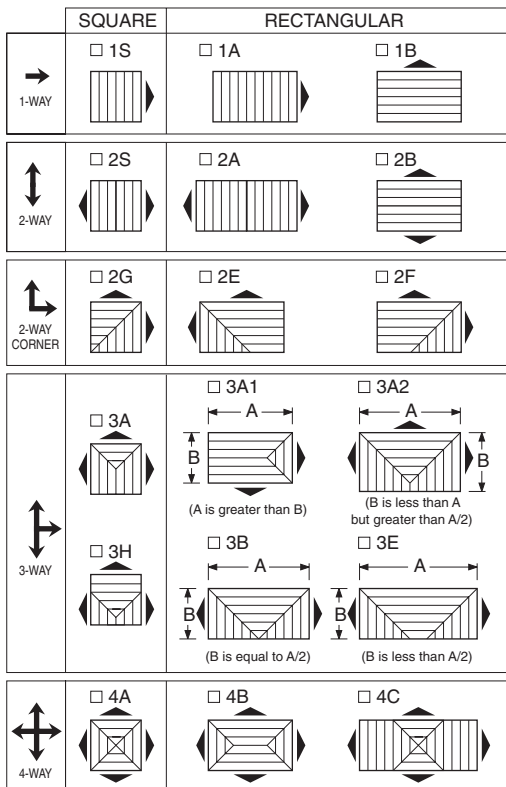
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457
48 x 24	45 x 21	1219 x 610	1143 x 533	1200 x 600	1067 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6200-O.

☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 23 - 26

6200

2 - 8 - 18

6200-2

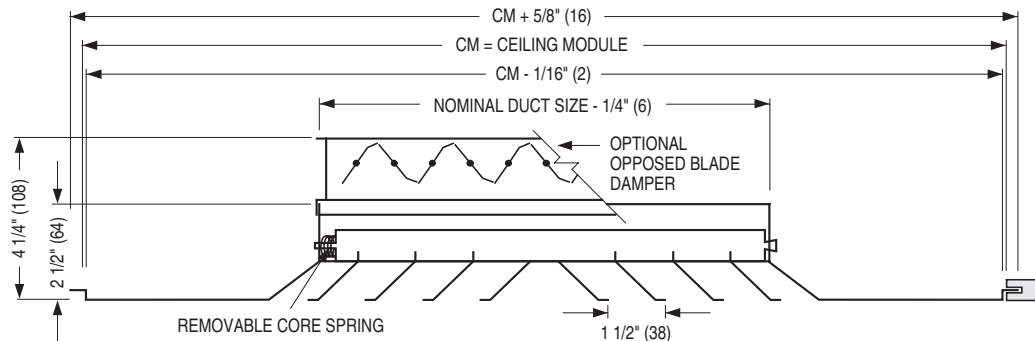


PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK

MODELS: 6200 AND 6200-O TYPE SP

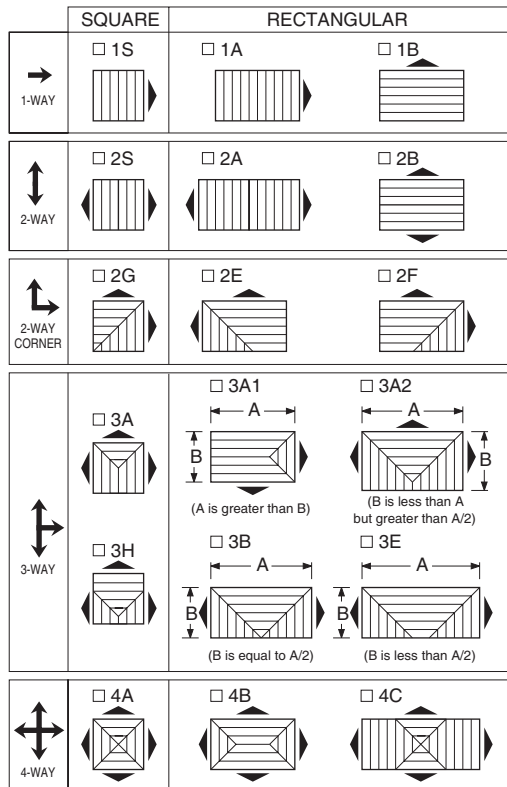
TYPE SP SPLINE



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

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 other two sides).

DESCRIPTION:

- Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
- Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
- Spring-loaded removable core.
- Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6200-O.

☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 23 - 26

6200

2 - 8 - 18

6200-3

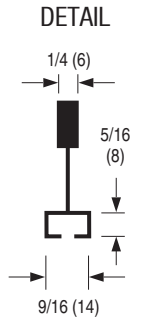
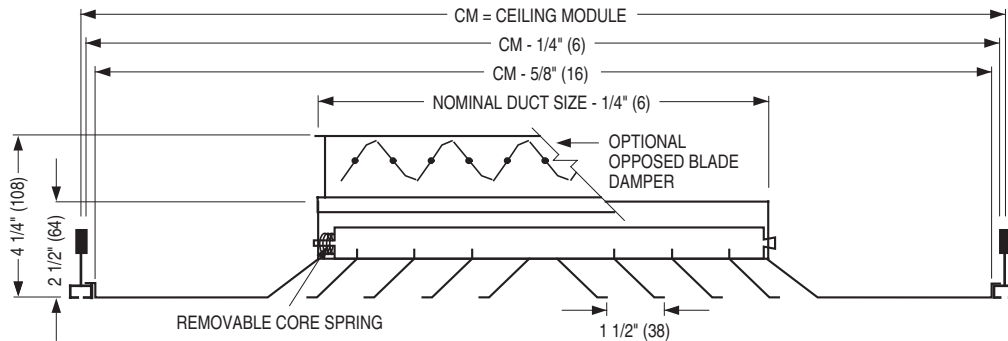


PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR
ROUND NECK
MODELS: 6200 AND 6200-O TYPE F

☐ TYPE F FINELINE® T-BAR

FOR FINELINE® TYPE CEILING SYSTEMS



The diffuser is supplied in a steel, module sized extended panel.

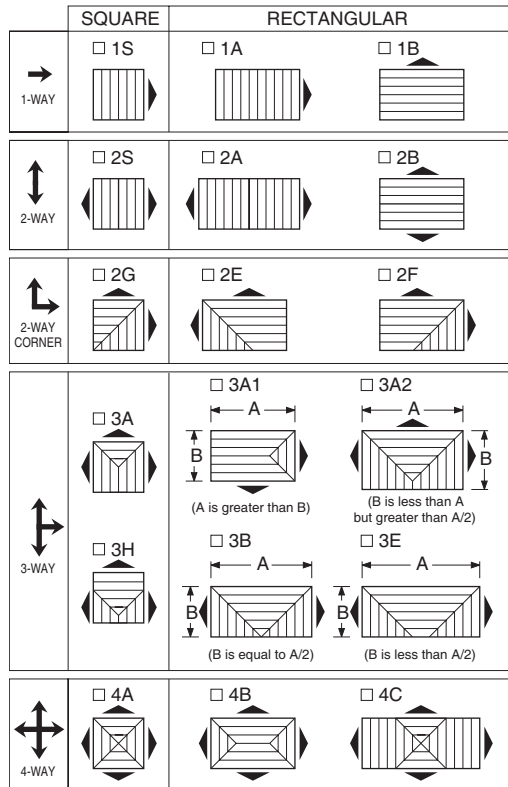
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK
 - ☐ Steel opposed blade damper. Model 6200-O.
 - ☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

Fineline® is a registered trademark of USG Interiors Inc..

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 23 - 26

6200

1 - 16 - 17

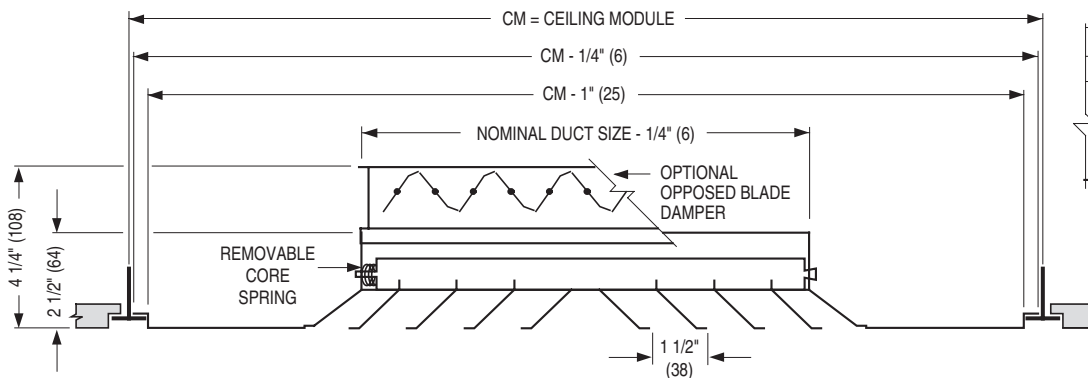
6200-4

PATTERN CEILING DIFFUSERS

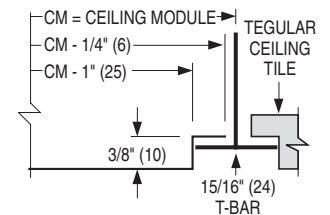
ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK

MODELS: 6200 AND 6200-O TYPE TL

TYPE TL TEGULAR LAY-IN



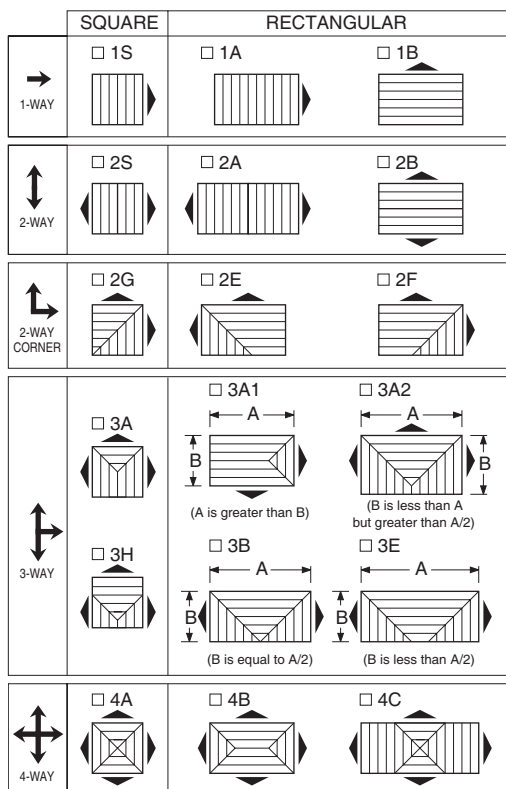
DETAIL



Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

- Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
- Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
The diffuser is supplied in a module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.
- Spring-loaded removable core.
- Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- ☐ Steel opposed blade damper. Model 6200-O.
- ☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

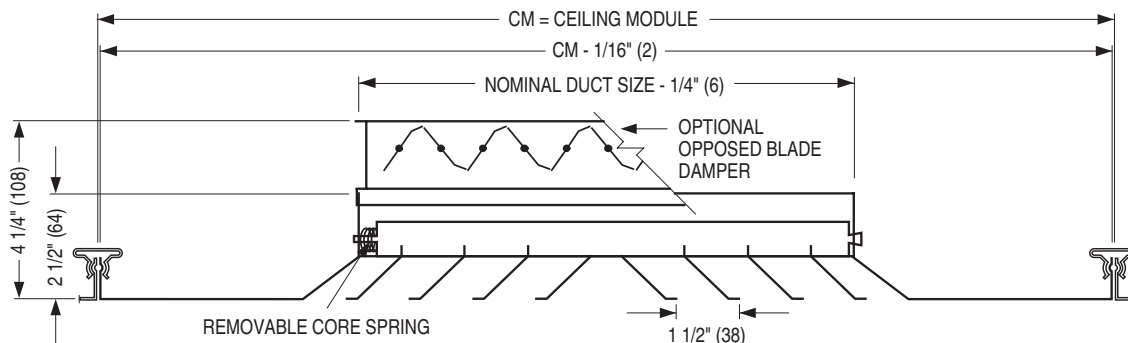
DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 23 - 26	6200	1 - 16 - 17	6200-5



PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR
ROUND NECK
MODELS: 6200 AND 6200-O TYPE M

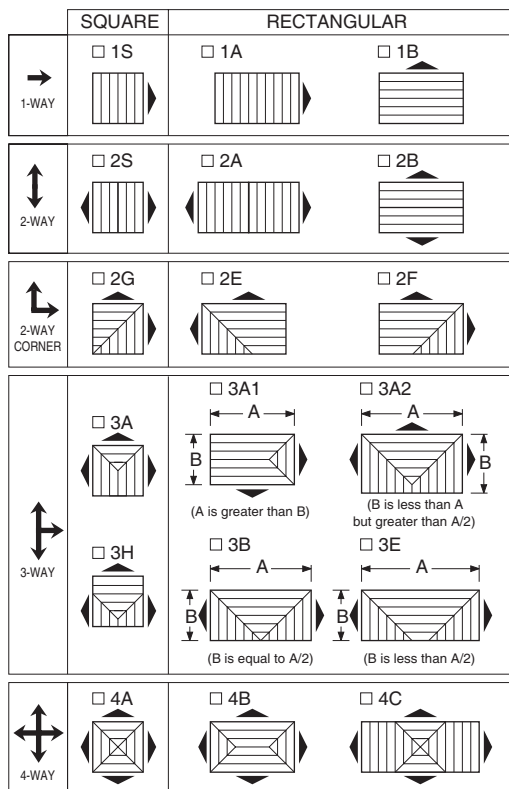
TYPE M METAL PAN (SNAP-IN)



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200 is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- ☐ Steel opposed blade damper. Model 6200-O.
- ☐ Aluminum opposed blade damper. Model 6200-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 23 - 26

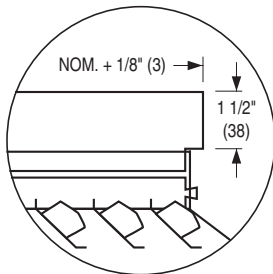
6200

2 - 8 - 18

6200-6

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6200IV AND 6200IV-O TYPES S & B

OFFSET NECK OPTION



☐ TYPE S • SURFACE MOUNT • FLAT FRAME

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914) or
 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.

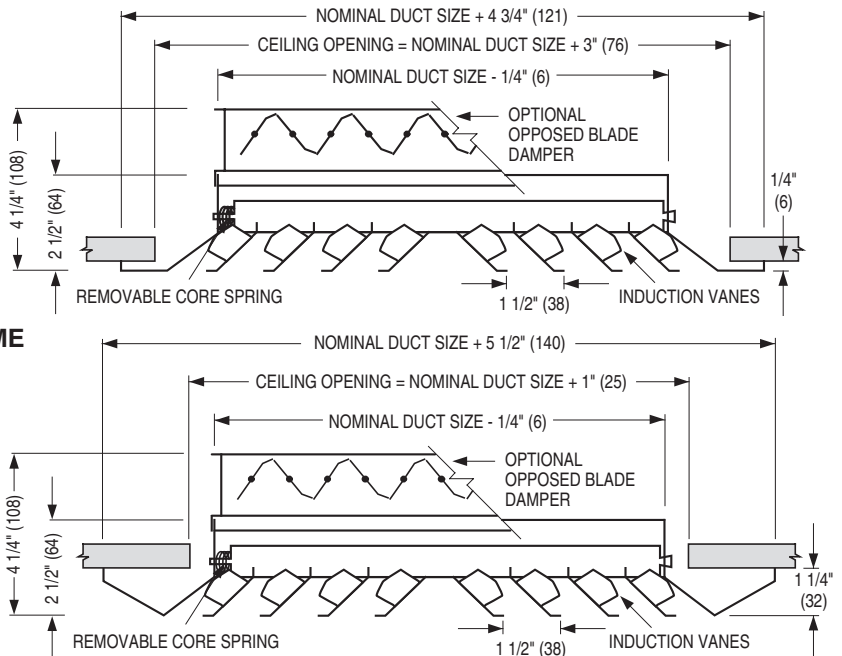
☐ TYPE B • BEVELED DROP FACE • SURFACE MOUNT

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914) or
 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.

CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S	☐ 1A	☐ 1B
↕ 2-WAY	☐ 2S	☐ 2A	☐ 2B
↖↗ 2-WAY CORNER	☐ 2G	☐ 2E	☐ 2F
↖↗ 3-WAY	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↖↗↖↗ 4-WAY	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).



DESCRIPTION:

1. Material: Aluminum.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6200IV-O.
- ☐ Aluminum opposed blade damper. Model 6200IV-OA.
- ☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

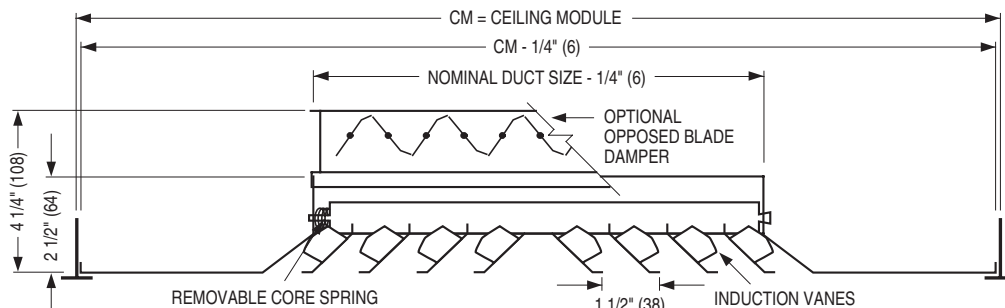
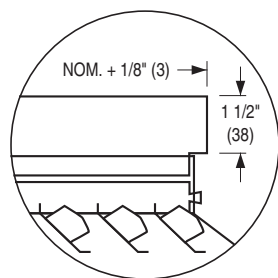
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 24 - 26	6200	11 - 24 - 16	6200IV-1



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6200IV AND 6200IV-O TYPE L

OFFSET NECK OPTION



TYPE L • LAY-IN T-BAR

If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457
48 x 24	45 x 21	1219 x 610	1143 x 533	1200 x 600	1067 x 457

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6200IV-O.
- ☐ Aluminum opposed blade damper. Model 6200IV-OA.
- ☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

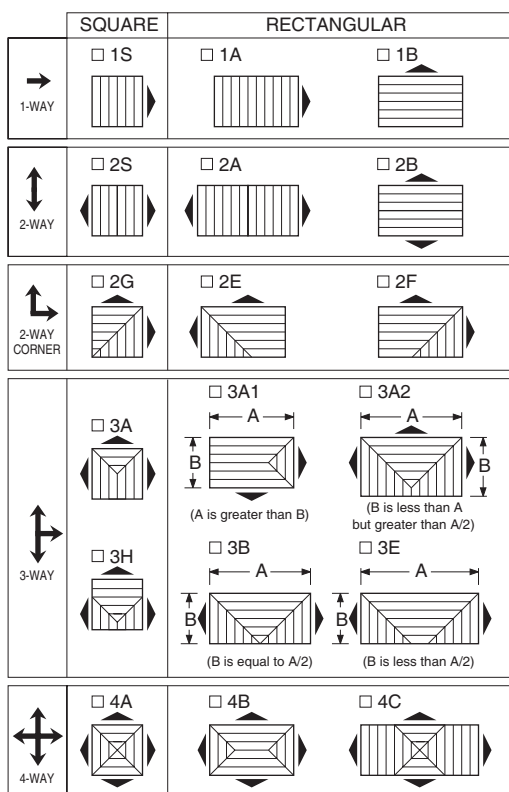
EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6200

2 - 8 - 18

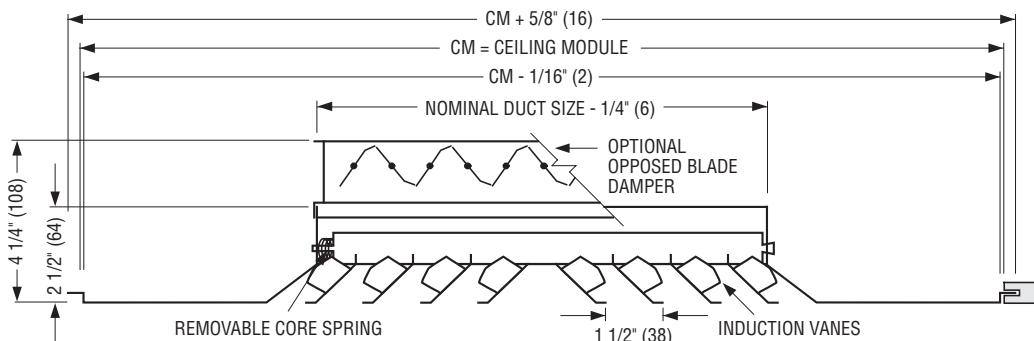
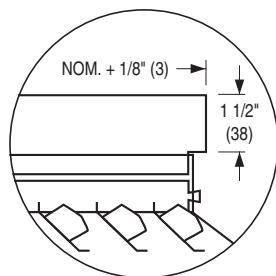
6200IV-2



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK
MODELS: 6200IV AND 6200IV-O TYPE SP

OFFSET NECK OPTION



☐ TYPE SP • SPLINE

If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

Minimum duct size: 6 x 6 (152 x 152)

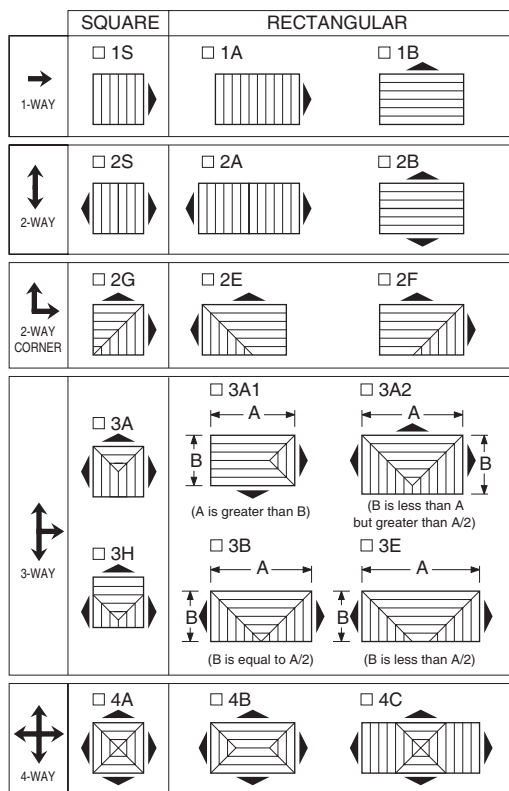
Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules (inches)	Metric Modules (mm)	Maximum Duct Size
12 x 12	300 x 300	6 x 6 (152 x 152)
24 x 12	600 x 300	18 x 6 (457 x 152)
24 x 24	600 x 600	18 x 18 (457 x 457)

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 other two sides).

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6200IV-O.

☐ Aluminum opposed blade damper. Model 6200IV-OA.

☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed - R-4.2.

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6200

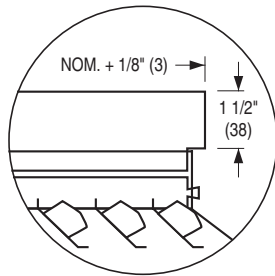
2 - 8 - 18

6200IV-3



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6200IV AND 6200IV-O TYPE F

OFFSET NECK OPTION



☐ **TYPE F • FINELINE® T-BAR**

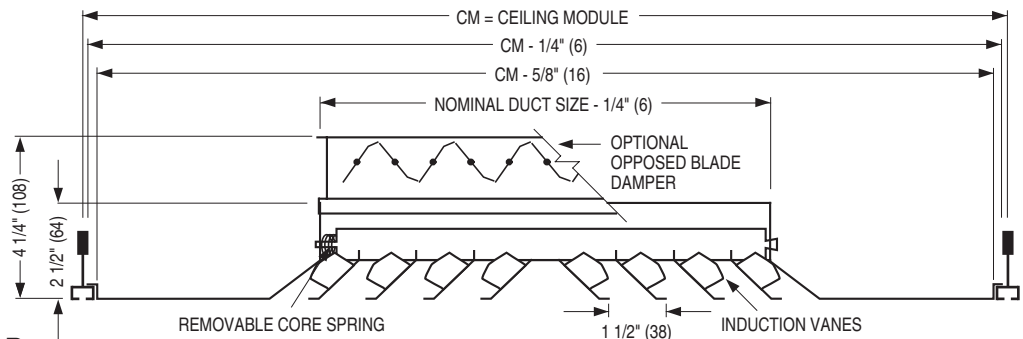
If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

Minimum duct size: 6 x 6 (152 x 152)

Maximum duct size: see table.

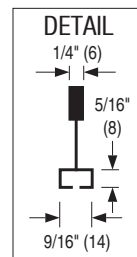
Available in 3" (76) increments only.

FOR FINELINE® TYPE CEILING SYSTEMS



REMOVABLE CORE SPRING

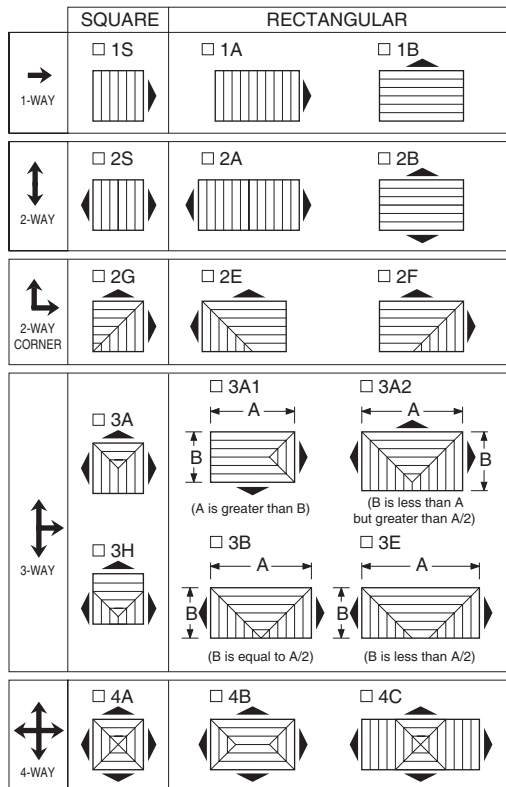
1 1/2" (38) INDUCTION VANES



Imperial Modules (inches)	Metric Modules (mm)	Maximum Duct Size
12 x 12	300 x 300	6 x 6 (152 x 152)
24 x 12	600 x 300	18 x 6 (457 x 152)
24 x 24	600 x 600	18 x 18 (457 x 457)

Fineline® is a registered trademark of USG Interiors Inc..

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6200IV-O.

☐ Aluminum opposed blade damper. Model 6200IV-OA.

☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6200

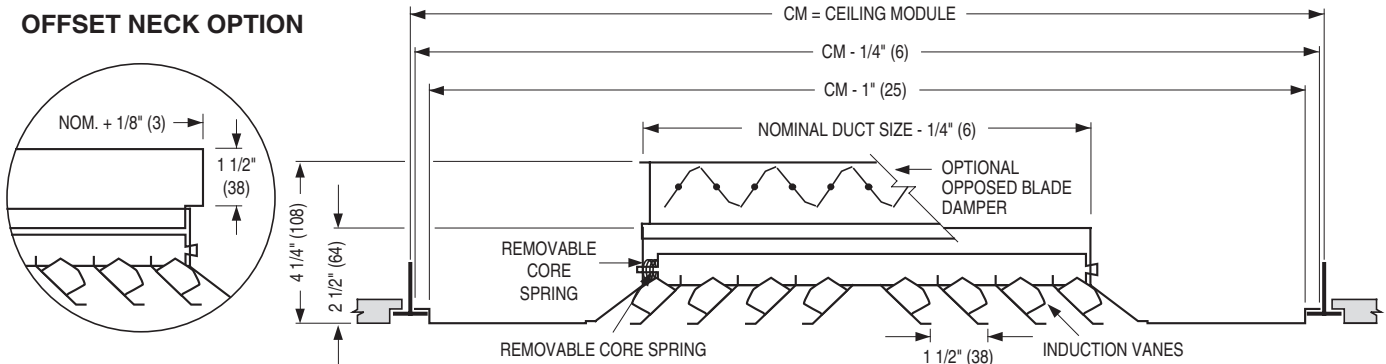
2 - 8 - 18

6200IV-4



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES **ALUMINUM • SQUARE, RECT. OR ROUND NECK** **MODELS: 6200IV AND 6200IV-O TYPE TL**

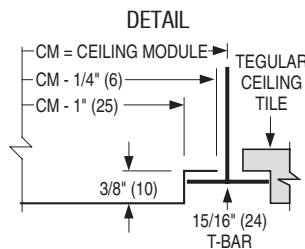
OFFSET NECK OPTION



☐ **TYPE TL • TEGULAR LAY-IN**

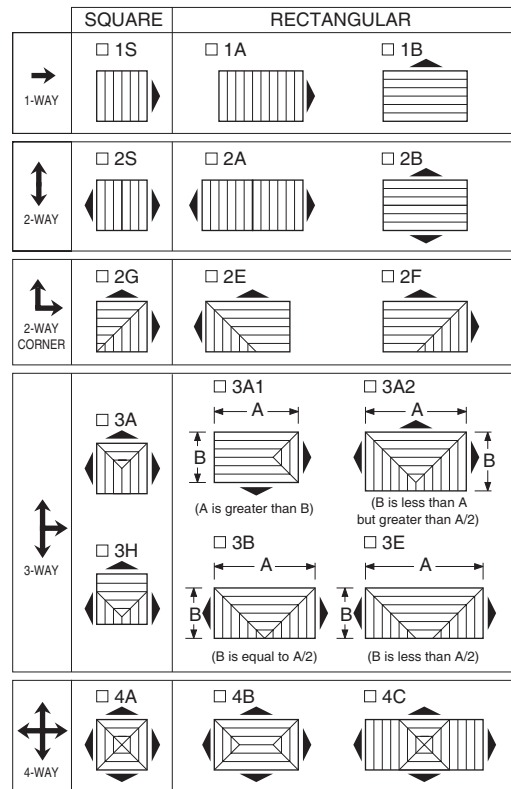
The diffuser is supplied in a steel module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: see table.
 Available in 3" (76) increments only.



Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- ☐ Steel opposed blade damper. Model 6200IV-O.
- ☐ Aluminum opposed blade damper. Model 6200IV-OA.
- ☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

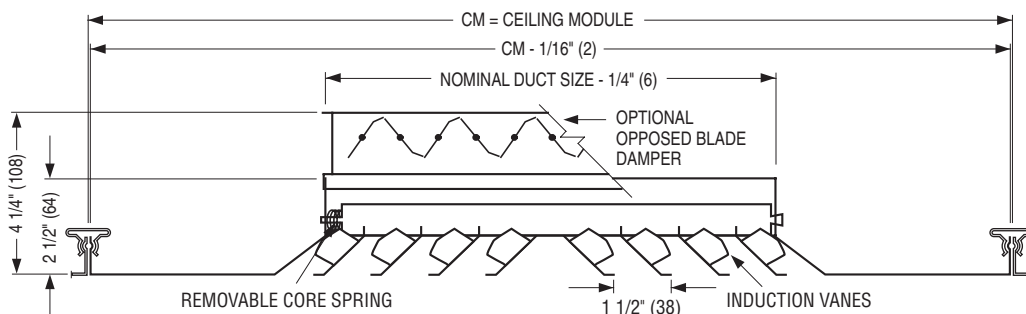
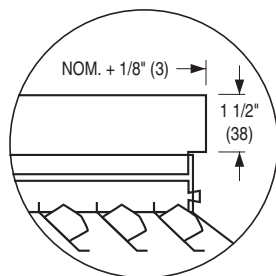
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 24 - 26	6200	1 - 16 - 17	6200IV-5



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6200IV AND 6200IV-O TYPE M

OFFSET NECK OPTION



☐ **TYPE M • METAL PAN (SNAP-IN)**

If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

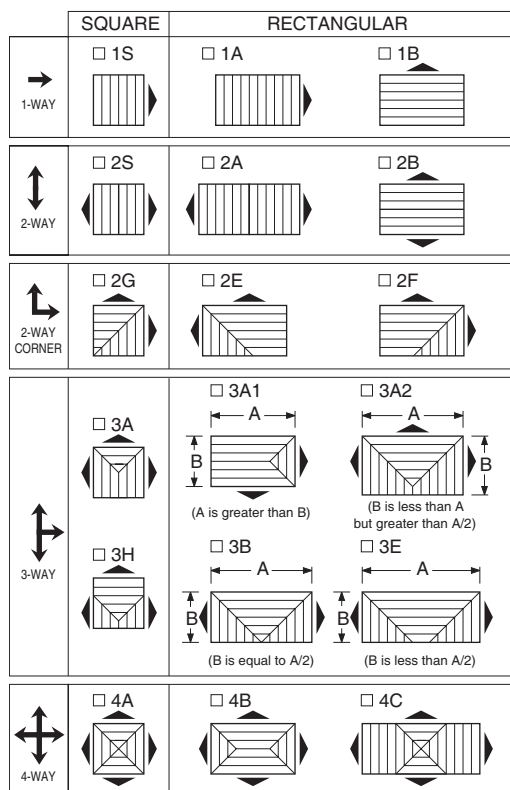
Minimum duct size: 6 x 6 (152 x 152)

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6200IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6200IV-O.
- ☐ Aluminum opposed blade damper. Model 6200IV-OA.
- ☐ ONA Offset neck adaptor. Fits outside duct (if a damper is required, order separately for remote mount. See Model OBDD).

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6200

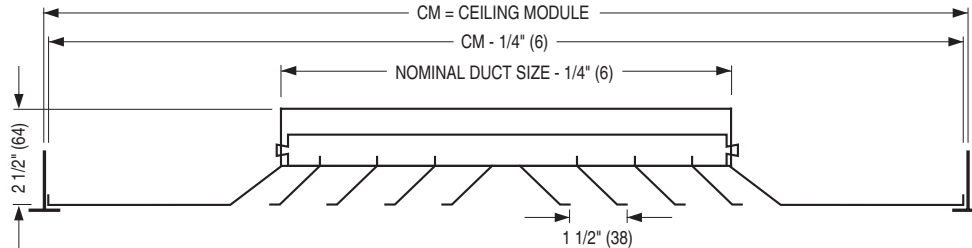
2 - 8 - 18

6200IV-6



PATTERN CEILING DIFFUSERS
100% ALUMINUM • SQUARE NECK
SUITABLE FOR MRI
MODEL: 6200-MRI TYPE L

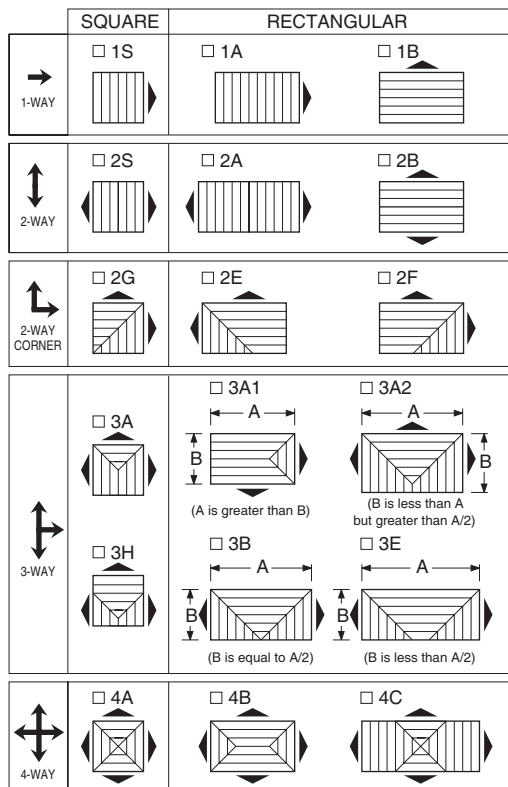
☐ **TYPE L LAY-IN T-BAR**



If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, an aluminum module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457
48 x 24	45 x 21	1219 x 610	1143 x 533	1200 x 600	1067 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: 100% Aluminum. Extended panel where required. Suitable for MRI.
2. Model 6200-MRI is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns to provide a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Fixed core.
4. Standard finish is AW Appliance White.

OPTIONS:

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6200

2 - 8 - 18

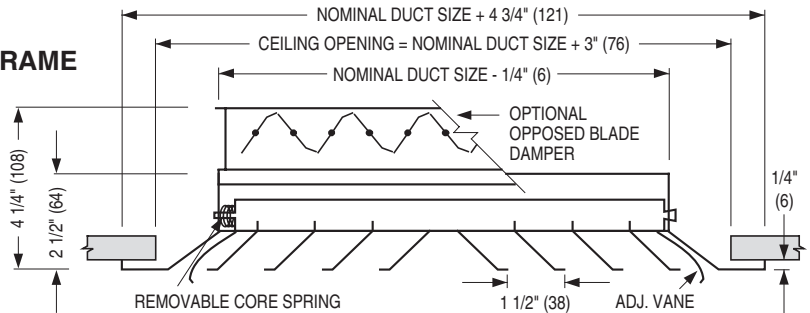
6200-MRI



PATTERN CEILING DIFFUSERS **ADJUSTABLE VANES • ALUMINUM** **SQUARE OR ROUND NECK** **MODELS: 6250 AND 6250-O TYPES S & B**

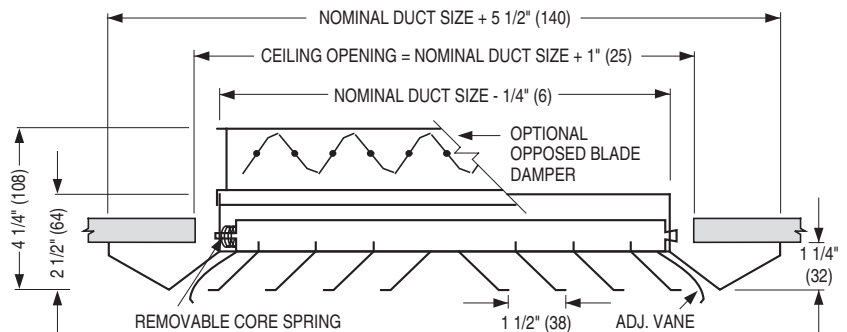
☐ **TYPE S • SURFACE MOUNT • FLAT FRAME**

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 24 x 24 (610 x 610)
 Available in 3" (76) increments only.



☐ **TYPE B • BEVELED DROP FACE • SURFACE MOUNT**

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 24 x 24 (610 x 610)
 Available in 3" (76) increments only.



DESCRIPTION:

1. Material: Aluminum.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6250-O.
- ☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

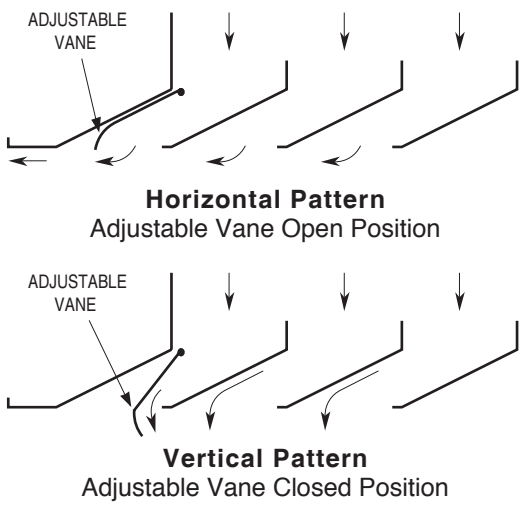
- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6250

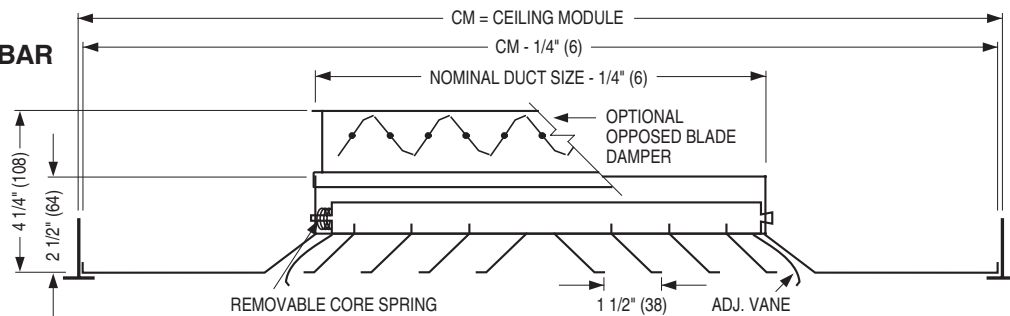
11 - 24 - 16

6250-1



PATTERN CEILING DIFFUSERS **ADJUSTABLE VANES • ALUMINUM** **SQUARE OR ROUND NECK** **MODELS: 6250 AND 6250-O TYPE L**

☐ **TYPE L** **LAY-IN T-BAR**



If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457
48 x 24	18 x 18	1219 x 610	457 x 457	1200 x 600	457 x 457

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6250-O.
☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

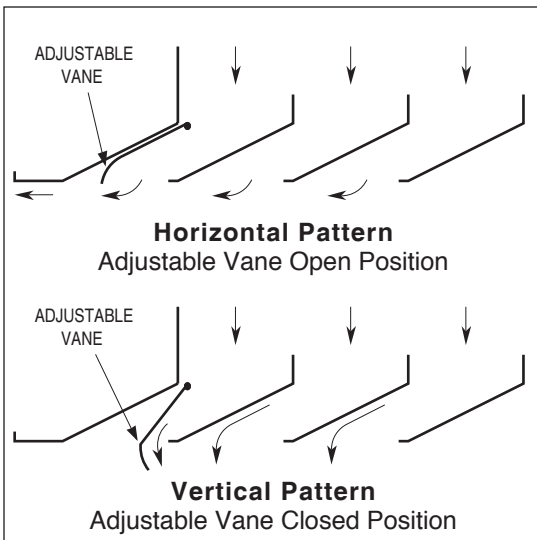
- ☐ SR Square to round transition collar
☐ SR-O Square to round transition collar for use over O.B.D.
☐ 4275 Radial Opposed Blade Damper (round)
☐ 4250 Radial Sliding Blade Damper (round)
☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6250

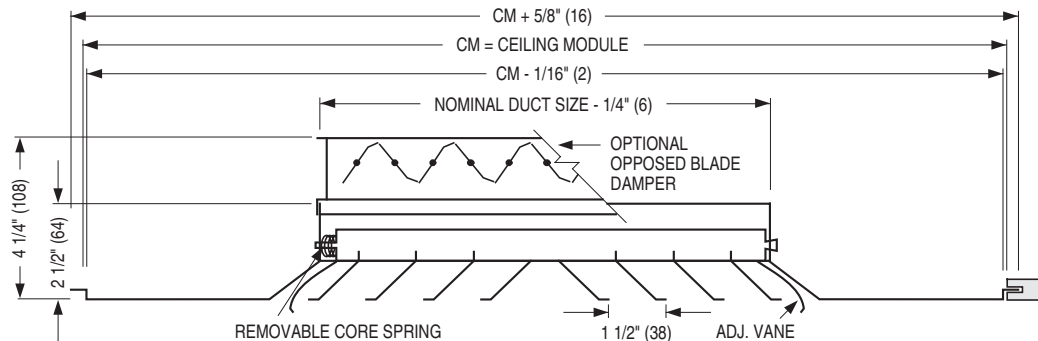
2 - 8 - 18

6250-2



PATTERN CEILING DIFFUSERS **ADJUSTABLE VANES • ALUMINUM** **SQUARE OR ROUND NECK** **MODELS: 6250 AND 6250-O TYPE SP**

☐ **TYPE SP SPLINE**



The diffuser is supplied in a steel module sized extended panel.
 Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: see table.
 Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

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 other two sides).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6250-O.
- ☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

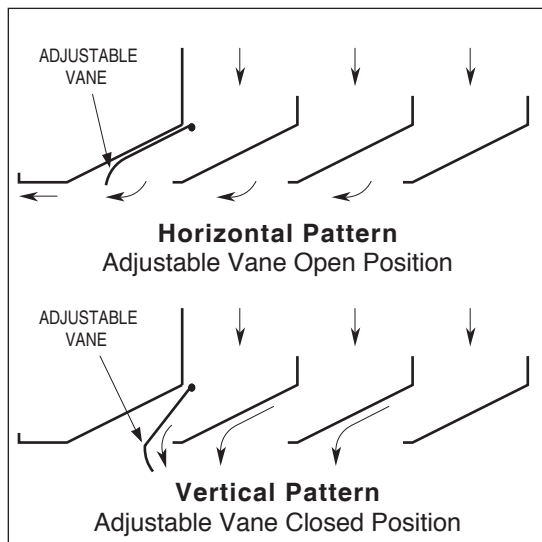
- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6250

11 - 24 - 16

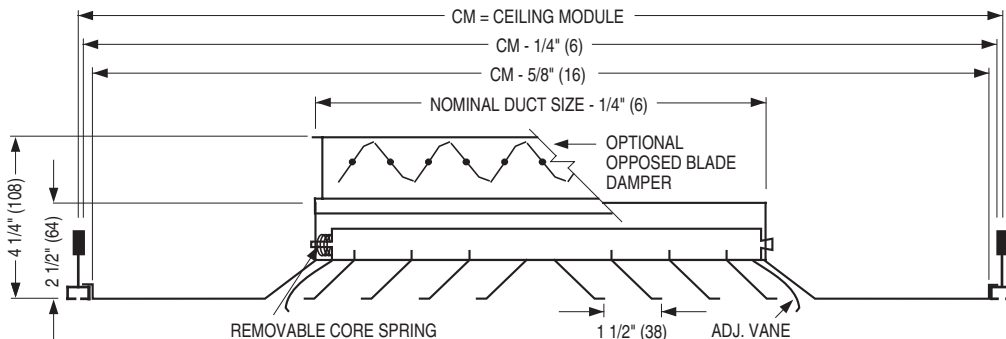
6250-3



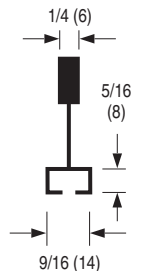
PATTERN CEILING DIFFUSERS **ADJUSTABLE VANES • ALUMINUM** **SQUARE OR ROUND NECK** **MODELS: 6250 AND 6250-O TYPE F**

☐ **TYPE F FINELINE® T-BAR**

FOR FINELINE® TYPE CEILING SYSTEMS



DETAIL



The diffuser is supplied in a steel module sized extended panel.
 Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: see table.
 Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6250-O.

☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

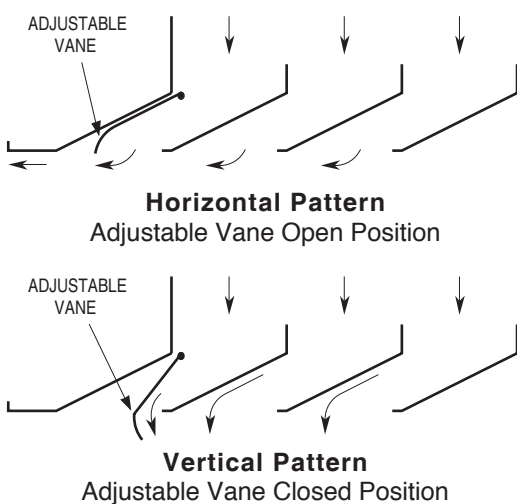
☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

OTHER CORE STYLE:

☐ Specify _____.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Fineline® is a registered trademark of USG Interiors Inc.
 Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6250

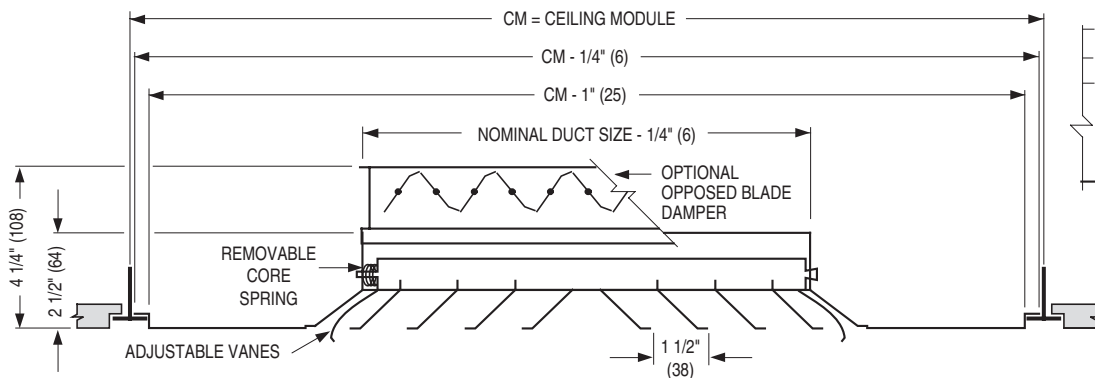
1 - 16 - 17

6250-4

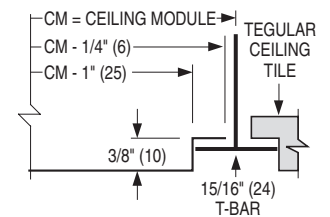


PATTERN CEILING DIFFUSERS **ADJUSTABLE VANES • ALUMINUM** **• SQUARE OR ROUND NECK** **MODELS: 6250 AND 6250-O TYPE TL**

☐ **TYPE TL TEGULAR LAY-IN**



DETAIL



Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: see table.
 Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern (core style 4A) as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.

The diffuser is supplied in a module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.

3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6250-O.
- ☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

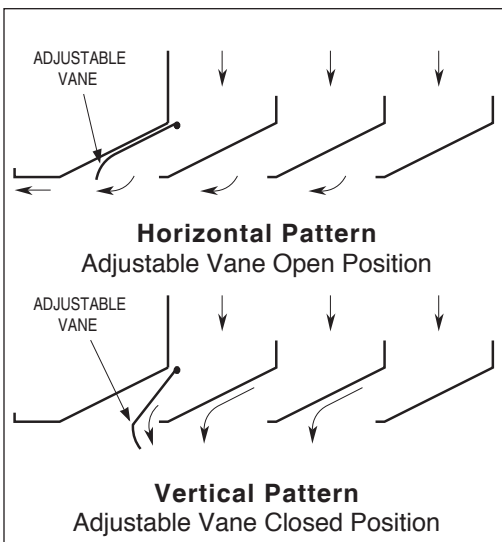
- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6250

1 - 16 - 17

6250-5



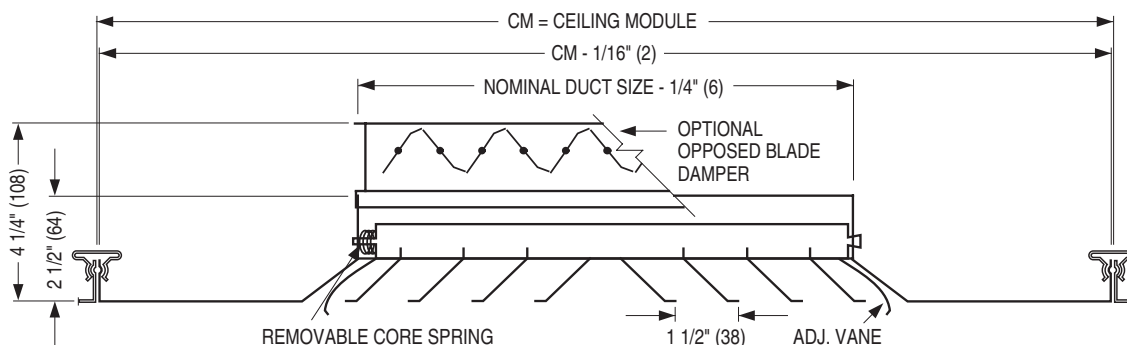
PATTERN CEILING DIFFUSERS

ADJUSTABLE VANES • ALUMINUM

SQUARE OR ROUND NECK

MODELS: 6250 AND 6250-O TYPE M

☐ TYPE M METAL PAN (SNAP-IN)



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

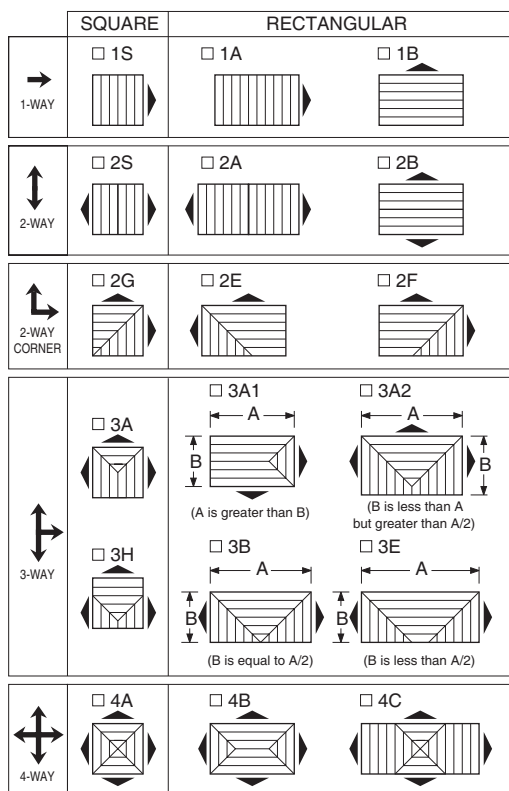
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6250 is a high capacity ceiling diffuser available with a square 4-way blow pattern as standard (optional core styles are available). The unit is supplied with independent movable vanes on all four sides to provide a horizontal to vertical throw adjustable discharge. In the horizontal setting, the diffuser provides a tight horizontal airflow pattern from maximum to minimum airflow. Ideal for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6250-O.

☐ Aluminum opposed blade damper. Model 6250-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 27 - 26

6250

2 - 8 - 18

6250-6

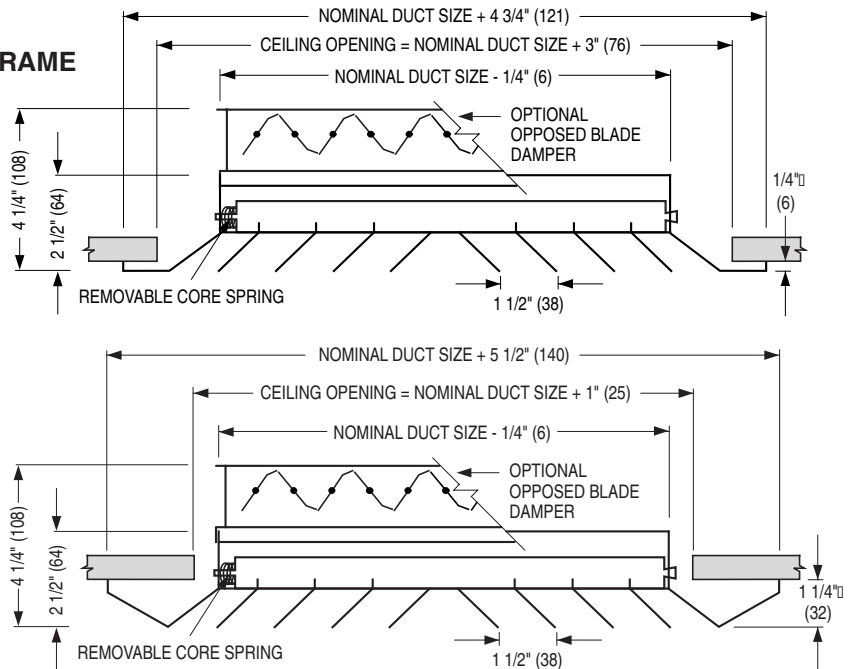
PATTERN CEILING DIFFUSERS ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK MODELS: 6400 AND 6400-O TYPES S & B

☐ TYPE S • SURFACE MOUNT • FLAT FRAME

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914)
 or 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.

☐ TYPE B • BEVELED DROP FACE • SURFACE MOUNT

Minimum duct size: 6 x 6 (152 x 152)
 Maximum duct size: 36 x 36 (914 x 914)
 or 36 x 24 (914 x 610) with O.B.D.
 Available in 3" (76) increments only.



CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S	☐ 1A	☐ 1B
↕ 2-WAY	☐ 2S	☐ 2A	☐ 2B
↖↗ 2-WAY CORNER	☐ 2G	☐ 2E	☐ 2F
↕ 3-WAY	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↕ 4-WAY	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6400-O.
- ☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

11 - 24 - 16

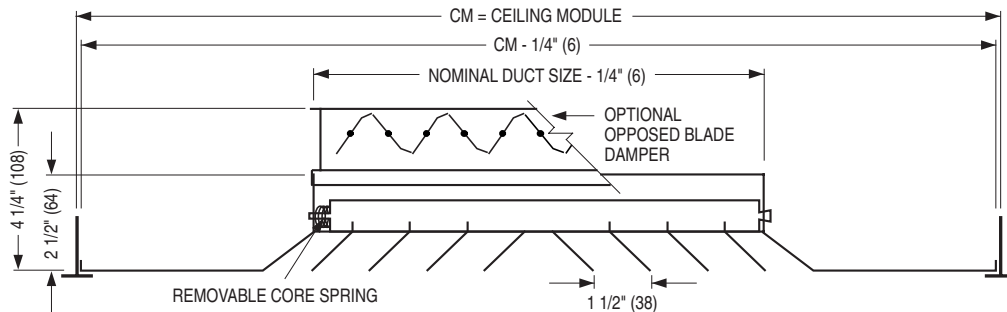
6400-1



PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR
ROUND NECK
MODELS: 6400 AND 6400-O TYPE L

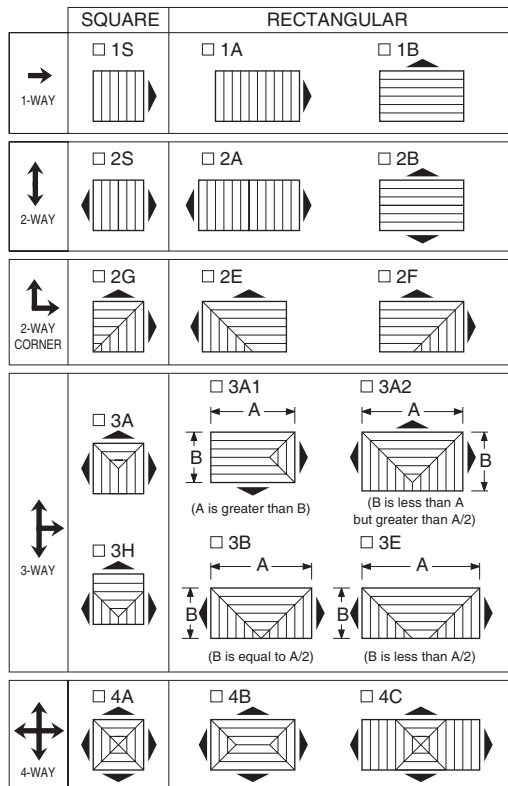
TYPE L LAY-IN T-BAR



If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457
48 x 24	45 x 21	1219 x 610	1143 x 533	1200 x 600	1067 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- ☐ Steel opposed blade damper. Model 6400-O.
- ☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

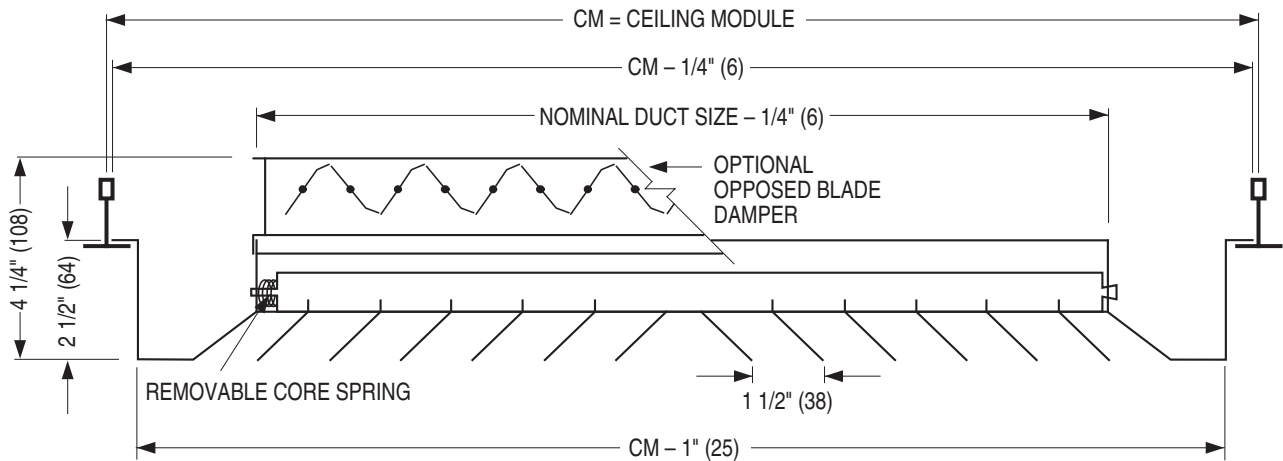
2 - 8 - 18

6400-2

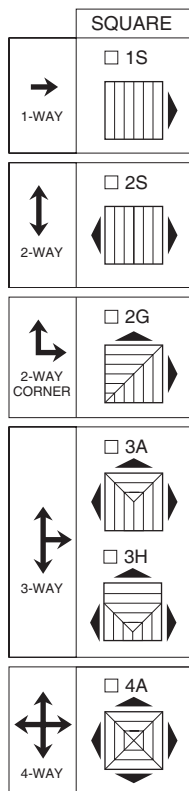


PATTERN CEILING DIFFUSER ALUMINUM • SQUARE OR ROUND NECK MODELS: 6400 AND 6400-O TYPE DL

☐ TYPE DL DROPPED FACE LAY-IN T-BAR MOUNT



CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

AVAILABLE SIZES:

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457
48 x 48	42 x 42	1219 x 1219	1067 x 1067	1200 x 1200	1067 x 1067

Minimum duct (neck) size: 6" x 6" (152 x 152).

Maximum duct (neck) size: see table.

Available in 3" (76) increments only.

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6400-O.

☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

11 - 24 - 16

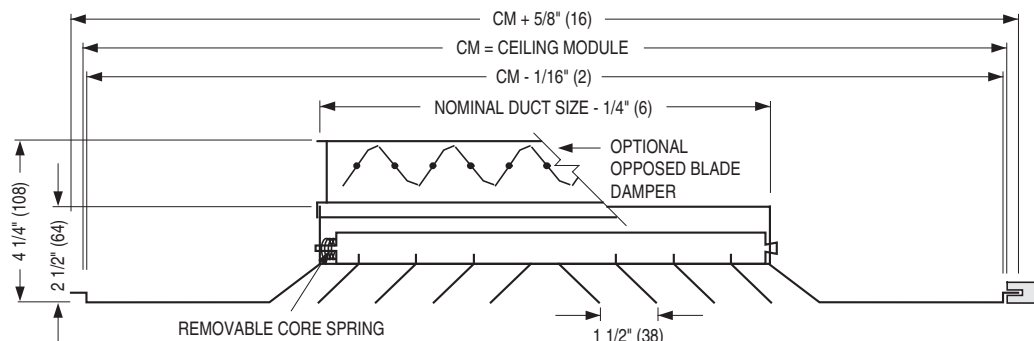
6400-2A



PATTERN CEILING DIFFUSERS

ALUMINUM • SQUARE, RECTANGULAR OR
ROUND NECK
MODELS: 6400 AND 6400-O TYPE SP

TYPE SP SPLINE



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

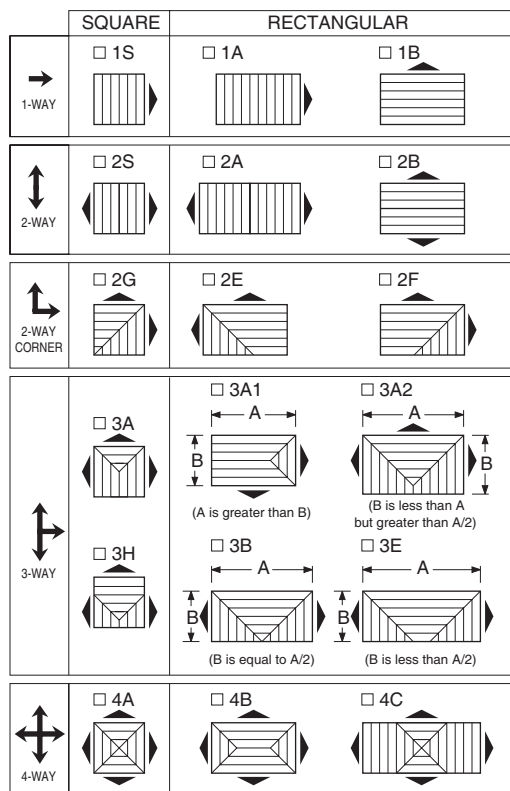
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

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 other two sides).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK
- ☐ Steel opposed blade damper. Model 6400-O.
 - ☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

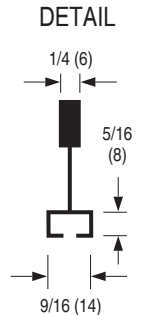
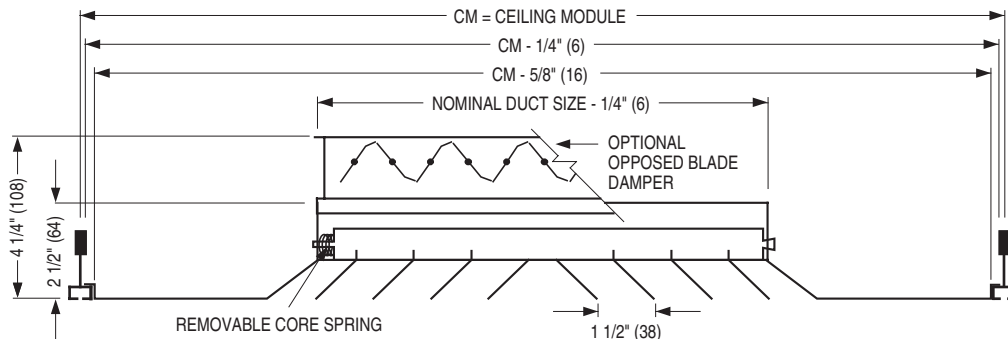
2 - 8 - 18

6400-3



PATTERN CEILING DIFFUSERS **ALUMINUM • SQUARE, RECTANGULAR OR** **ROUND NECK** **MODELS: 6400 AND 6400-O TYPE F**

☐ **TYPE F FINELINE® T-BAR FOR FINELINE® TYPE CEILING SYSTEMS**



The diffuser is supplied in a steel module sized extended panel.
 Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: see table.
 Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S	☐ 1A	☐ 1B
↕ 2-WAY	☐ 2S	☐ 2A	☐ 2B
↖↗ 2-WAY CORNER	☐ 2G	☐ 2E	☐ 2F
↕ 3-WAY	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↕ 4-WAY	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
 SQUARE AND RECTANGULAR NECK
☐ Steel opposed blade damper. Model 6400-O.
☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
☐ SR-O Square to round transition collar for use over O.B.D.
☐ 4275 Radial Opposed Blade Damper (round)
☐ 4250 Radial Sliding Blade Damper (round)
☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

Fineline® is a registered trademark of USG Corporation.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

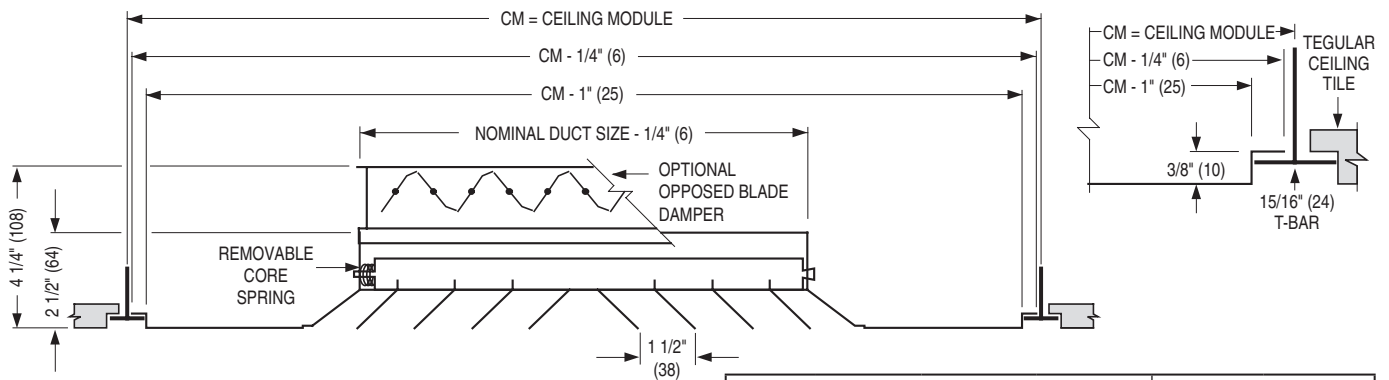
1 - 16 - 17

6400-4



PATTERN CEILING DIFFUSERS **ALUMINUM • SQUARE, RECTANGULAR OR** **ROUND NECK** **MODELS: 6400 AND 6400-O TYPE TL**

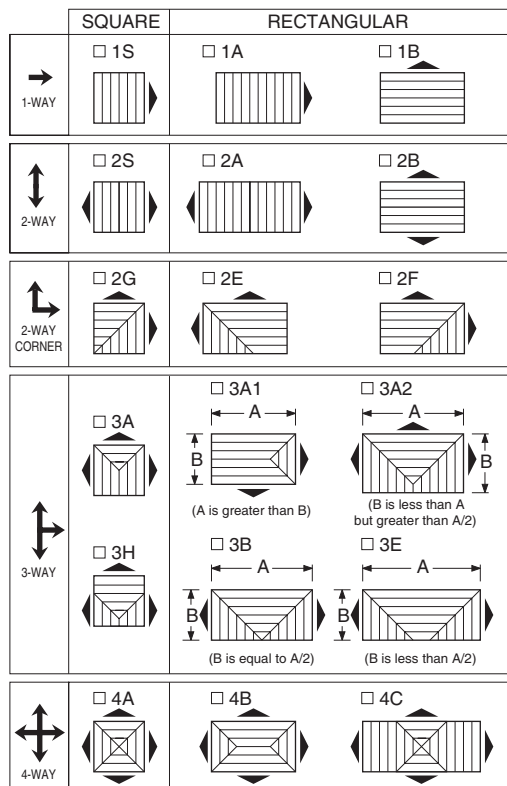
☐ **TYPE TL TEGULAR LAY-IN**



Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: see table.
 Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
 The diffuser is supplied in a module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.

3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- ☐ SQUARE AND RECTANGULAR NECK
- ☐ Steel opposed blade damper. Model 6400-O.
- ☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed
- ☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

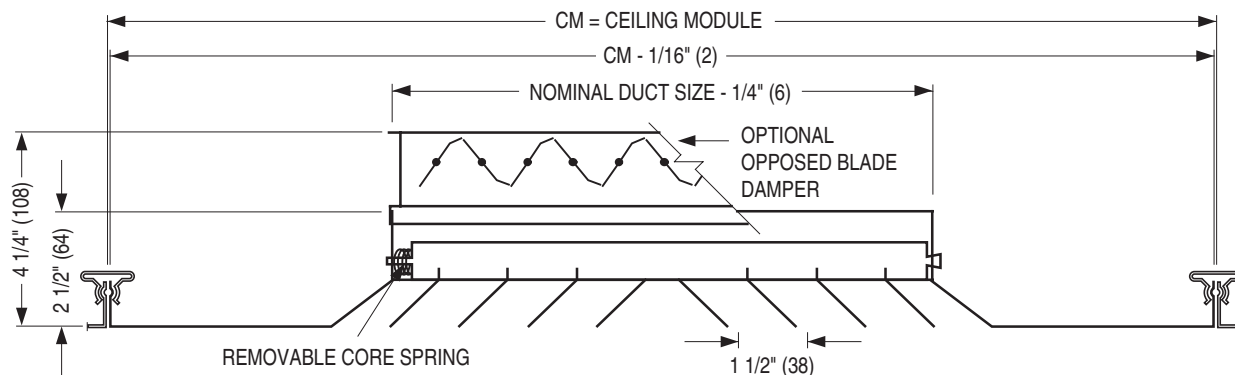
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 24 - 26	6400	2 - 8 - 18	6400-5



PATTERN CEILING DIFFUSERS **ALUMINUM • SQUARE, RECTANGULAR OR** **ROUND NECK** **MODELS: 6400 AND 6400-O TYPE M**

☐ **TYPE M METAL PAN (SNAP-IN)**



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S	☐ 1A	☐ 1B
↕ 2-WAY	☐ 2S	☐ 2A	☐ 2B
↖↗ 2-WAY CORNER	☐ 2G	☐ 2E	☐ 2F
↕↔ 3-WAY	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↕↔↕ 4-WAY	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400 is an extra high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns. The diffusers are designed to create an induction effect which causes rapid mixing of room air and primary air and reduces discharge velocity. These diffusers rely upon the ceiling coanda effect in order to maintain the horizontal air pattern and catalogued throws. Suitable for normal ceiling heights of 9 – 10 feet.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6400-O.
- ☐ Aluminum opposed blade damper. Model 6400-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)
- ☐ 4675 Butterfly Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

2 - 8 - 18

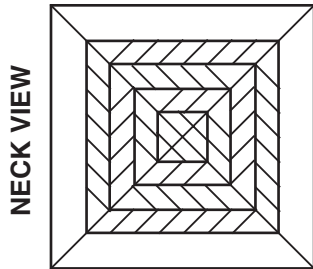
6400-6



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPES S & B

☐ **TYPE S • SURFACE MOUNT • FLAT FRAME**

Minimum duct size: 6 x 6 (152 x 152)
Maximum duct size: 36 x 36 (914 x 914)
or 36 x 24 (914 x 610) with O.B.D.
Available in 3" (76) increments only.



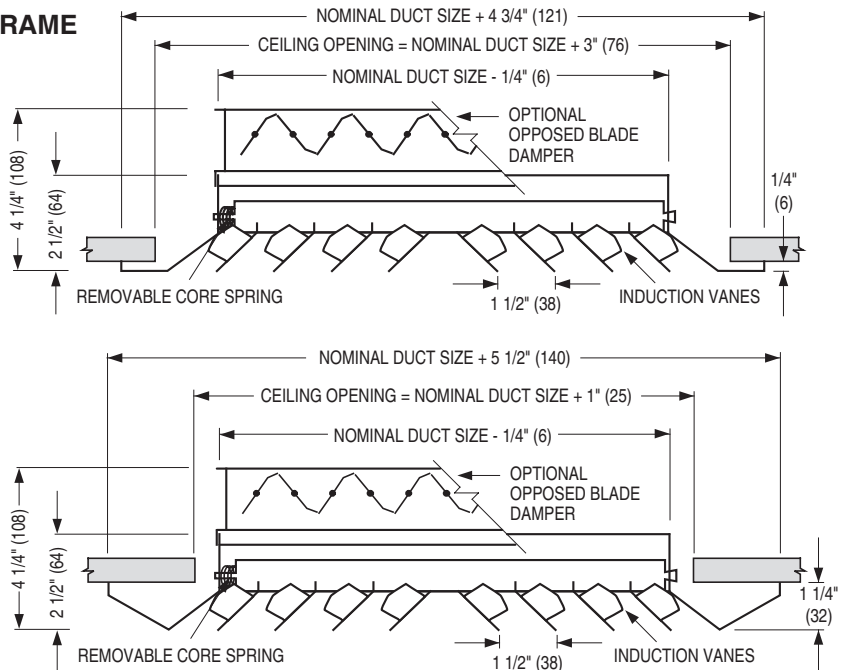
☐ **TYPE B • BEVELED DROP FACE • SURFACE MOUNT**

Minimum duct size: 6 x 6 (152 x 152)
Maximum duct size: 36 x 36 (914 x 914)
or 36 x 24 (914 x 610) with O.B.D.
Available in 3" (76) increments only.

CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
1-WAY →	☐ 1S	☐ 1A	☐ 1B
2-WAY ↕	☐ 2S	☐ 2A	☐ 2B
2-WAY CORNER ↙ ↘	☐ 2G	☐ 2E	☐ 2F
3-WAY ↕ ↗ ↘	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
4-WAY ↕ ↗ ↘ ↙	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).



DESCRIPTION:

1. Material: Extruded aluminum.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6400IV-O.
- ☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

8 - 4 - 26

6400

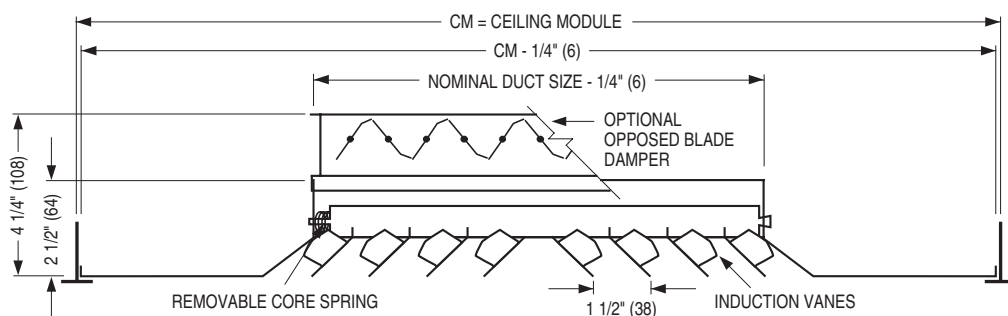
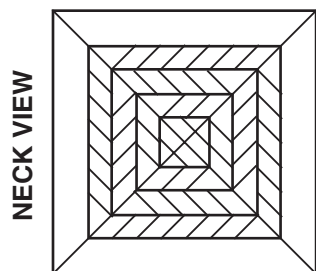
11 - 24 - 16

6400IV-1



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE L

TYPE L LAY-IN T-BAR



If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.

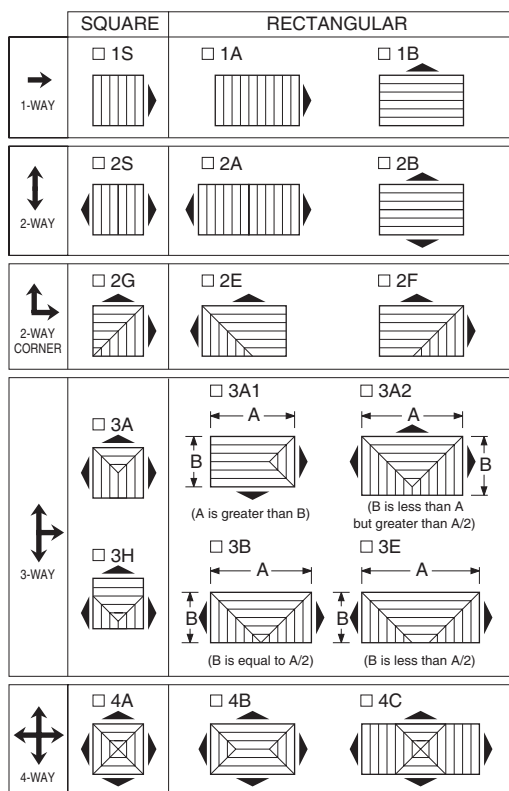
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
20 x 20	15 x 15	508 x 508	381 x 381	500 x 500	381 x 381
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457
48 x 24	45 x 21	1219 x 610	1143 x 533	1200 x 600	1067 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Extruded aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6400IV-O.

☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 24 - 26

6400

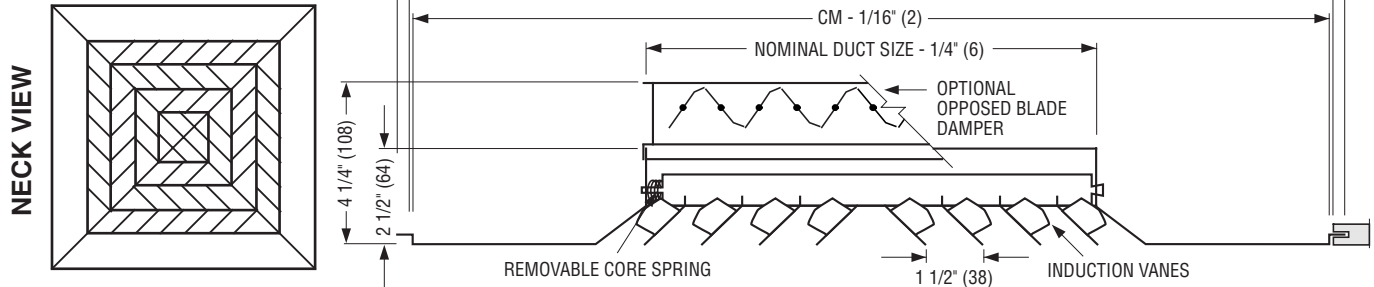
2 - 8 - 18

6400IV-2



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE SP

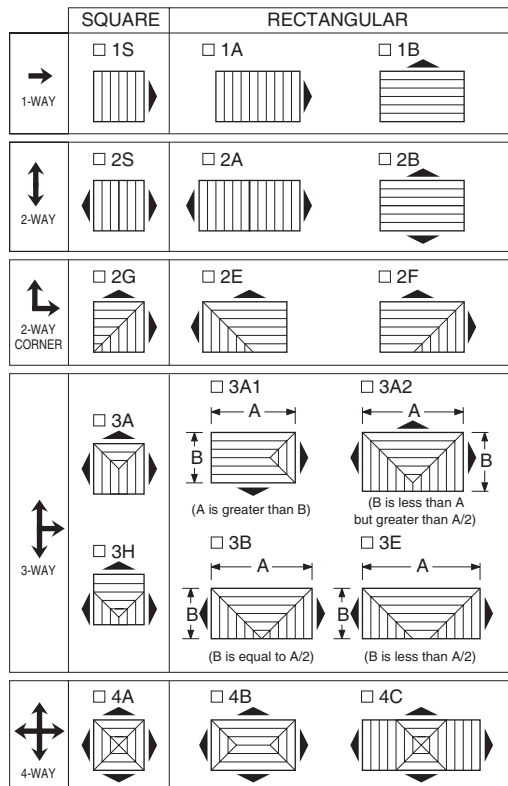
☐ **TYPE SP SPLINE**



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules (inches)	Metric Modules (mm)	Maximum Duct Size
12 x 12	300 x 300	6 x 6 (152 x 152)
24 x 12	600 x 300	18 x 6 (457 x 152)
24 x 24	600 x 600	18 x 18 (457 x 457)

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

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 other two sides).

DESCRIPTION:

1. Material: Extruded aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6400IV-O.
- ☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

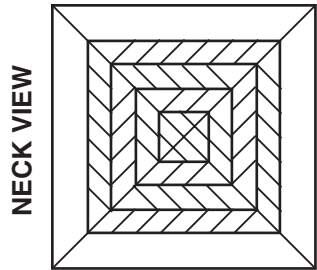
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 27 - 26	6400	2 - 8 - 18	6400IV-3

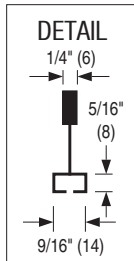
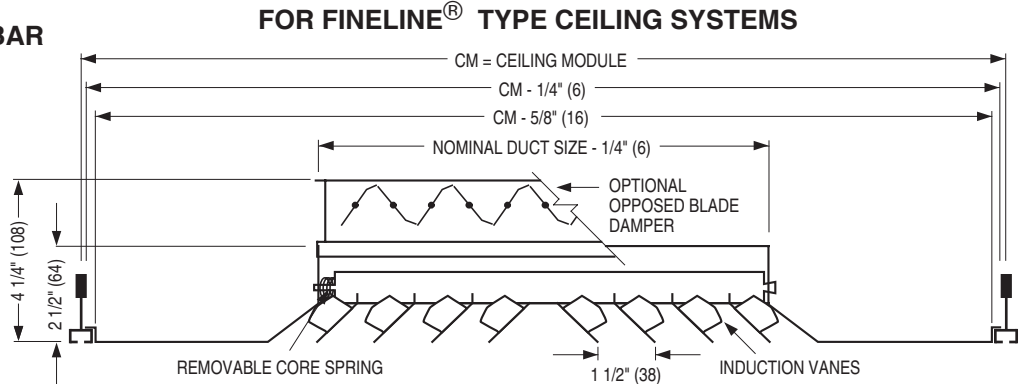


PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE F

☐ **TYPE F FINELINE® T-BAR**



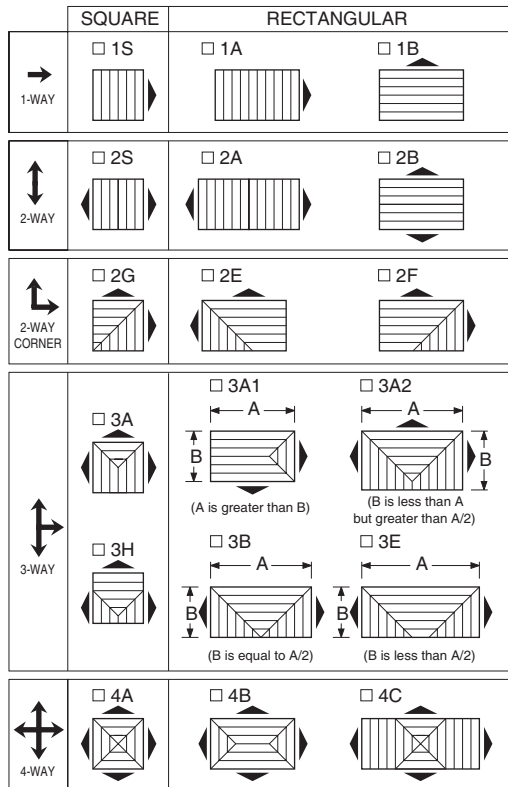
If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.



Imperial Modules (inches)	Metric Modules (mm)	Maximum Duct Size
12 x 12	300 x 300	6 x 6 (152 x 152)
24 x 12	600 x 300	18 x 6 (457 x 152)
24 x 24	600 x 600	18 x 18 (457 x 457)

Fineline® is a registered trademark of USG Interiors Inc..

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Extruded aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6400IV-O.

☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 27 - 26

6400

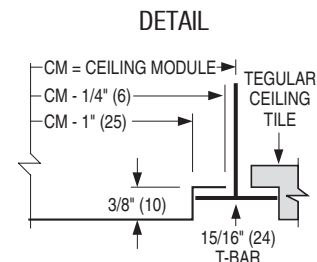
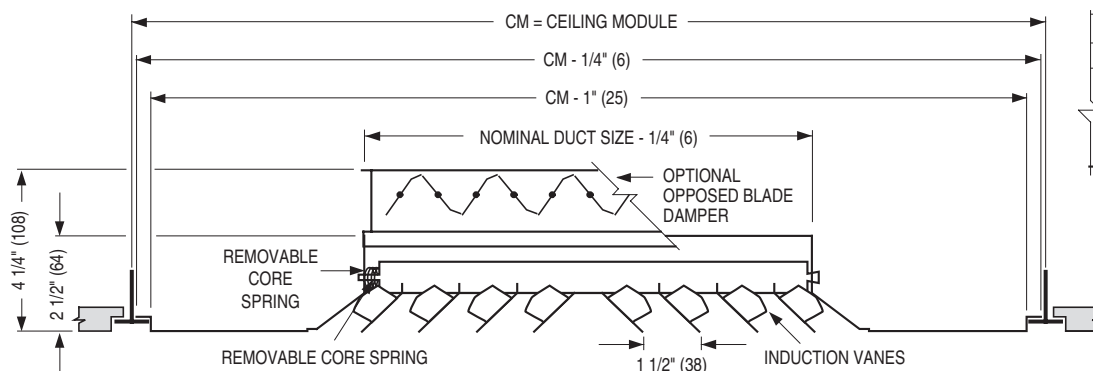
2 - 8 - 18

6400IV-4



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE TL

TYPE TL TEGULAR LAY-IN



The diffuser is supplied in a steel module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.

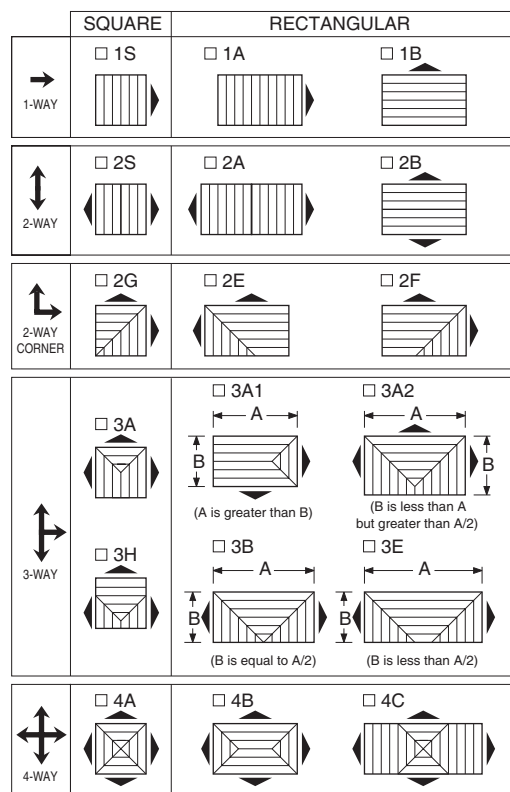
Minimum duct size: 6 x 6 (152 x 152).

Maximum duct size: see table.

Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	6 x 6	305 x 305	152 x 152	300 x 300	152 x 152
24 x 12	18 x 6	610 x 305	457 x 152	600 x 300	457 x 152
24 x 24	18 x 18	610 x 610	457 x 457	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Extruded aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

☐ PLA Aluminum Extended Panel.

SQUARE AND RECTANGULAR NECK

☐ Steel opposed blade damper. Model 6400IV-O.

☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

☐ SR Square to round transition collar

☐ SR-O Square to round transition collar for use over O.B.D.

☐ 4275 Radial Opposed Blade Damper (round)

☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

☐ EX External Foil-Back Insulation, installed

☐ MIB Molded Insulation Blanket, -R-6.0. ('MIB' is available for Frame Types L, TL and F with a 24 x 24 CM only, 15 x 15 max. neck size and a 'SR' square-to-round transition collar).

OPTIONAL FINISH:

☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 27 - 26

6400

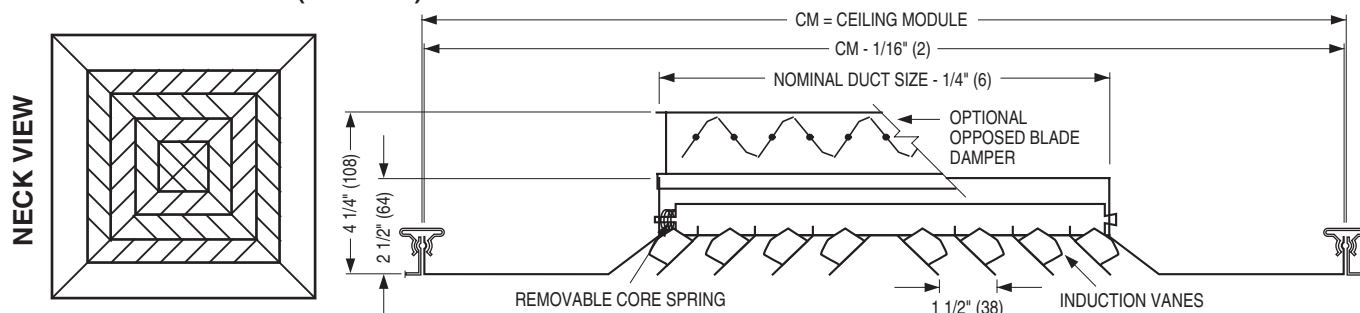
1 - 16 - 17

6400IV-5



PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE M

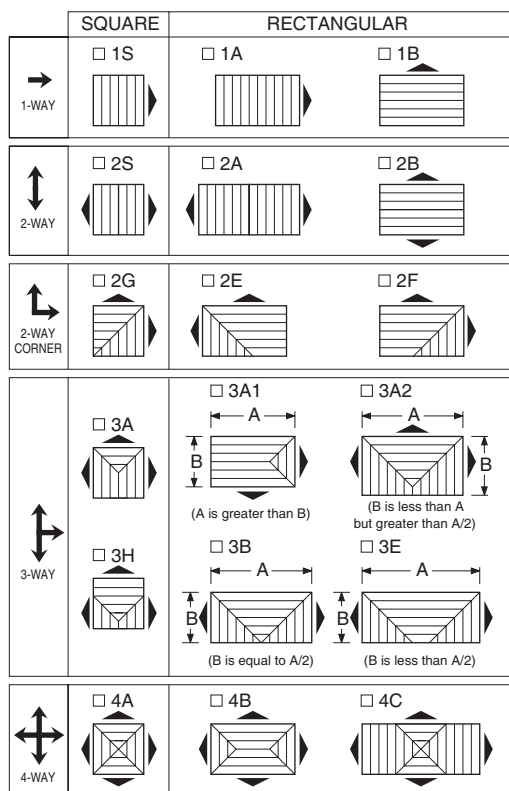
☐ **TYPE METAL PAN (SNAP-IN)**



If the ceiling module is not 3" (76) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

Imperial Modules				Metric Modules	
Imperial Units (in.)		Metric Units (mm)		Metric Units (mm)	
CM	Maximum Duct Size	CM	Maximum Duct Size	CM	Maximum Duct Size
12 x 12	9 x 9	305 x 305	229 x 229	300 x 300	152 x 152
24 x 12	21 x 9	610 x 305	533 x 229	600 x 300	457 x 152
24 x 24	21 x 21	610 x 610	533 x 533	600 x 600	457 x 457

CORE STYLE SELECTION



Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Extruded aluminum. Extended panel where required is corrosion-resistant coated steel.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser highly suitable for VAV applications.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

- ☐ PLA Aluminum Extended Panel.
- SQUARE AND RECTANGULAR NECK**
- ☐ Steel opposed blade damper. Model 6400IV-O.
- ☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

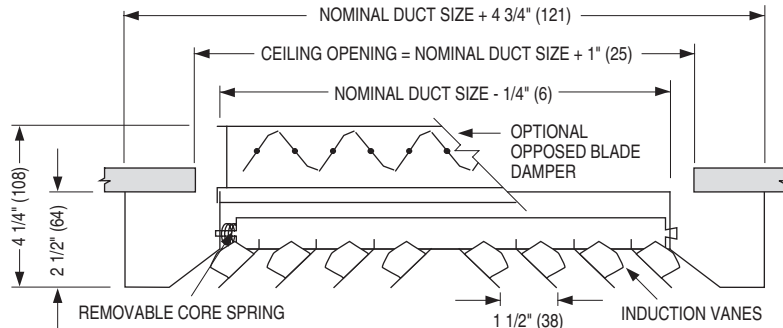
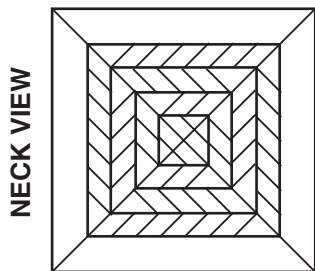
CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 27 - 26	6400	2 - 8 - 18	6400IV-6

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES ALUMINUM • SQUARE, RECT. OR ROUND NECK MODELS: 6400IV AND 6400IV-O TYPE D

☐ TYPE D DEEP DROP FACE



Minimum duct size: 6 x 6 (152 x 152).
 Maximum duct size: 36 x 36 (914 x 914) or 36 x 24 (914 x 610)
 with O.B.D.
 Available in 3" (76) increments only.

CORE STYLE SELECTION

	SQUARE	RECTANGULAR	
→ 1-WAY	☐ 1S	☐ 1A	☐ 1B
↕ 2-WAY	☐ 2S	☐ 2A	☐ 2B
↖↗ 2-WAY CORNER	☐ 2G	☐ 2E	☐ 2F
↕↔ 3-WAY	☐ 3A	☐ 3A1 (A is greater than B)	☐ 3A2 (B is less than A but greater than A/2)
	☐ 3H	☐ 3B (B is equal to A/2)	☐ 3E (B is less than A/2)
↕↔↕ 4-WAY	☐ 4A	☐ 4B	☐ 4C

Patterns are shown in plan view (looking down into inlet).

DESCRIPTION:

1. Material: Extruded aluminum.
2. Model 6400IV is a high capacity ceiling diffuser available in 1, 2, 3 or 4-way blow patterns especially designed for optimum performance in heating and cooling applications. The induction vanes consist of a set of 45° angled diffusion vanes spaced 1 1/2" (38) apart on the back of each diffuser louver. Vane sets on adjacent parallel louvers run in opposite directions and cause primary air to emerge from each louver at alternating angles. The resulting turbulent discharge air jets produce high induction rates and rapid temperature equalization, making the diffuser eminently suitable for VAV applications as the possibility of downdrafts (dumping) are eliminated.
3. Spring-loaded removable core.
4. Standard finish is AW Appliance White.

OPTIONS:

SQUARE AND RECTANGULAR NECK

- ☐ Steel opposed blade damper. Model 6400IV-O.
- ☐ Aluminum opposed blade damper. Model 6400IV-OA.

ROUND NECK

- ☐ SR Square to round transition collar
- ☐ SR-O Square to round transition collar for use over O.B.D.
- ☐ 4275 Radial Opposed Blade Damper (round)
- ☐ 4250 Radial Sliding Blade Damper (round)

EXTERNAL INSULATION

- ☐ EX External Foil-Back Insulation, installed

OPTIONAL FINISH:

- ☐ SP Special. Specify _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 27 - 26	6400	11 - 24 - 16	6400IV-7

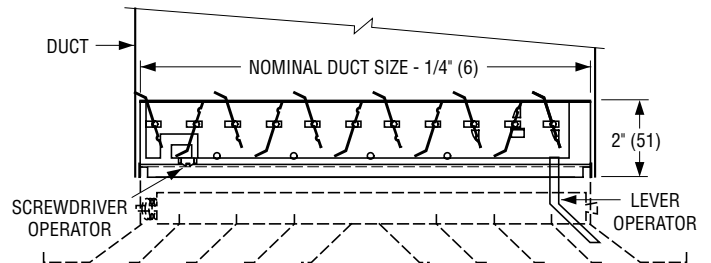
OPPOSED BLADE DAMPER

Corrosion-resistant steel. 22 ga. roll-formed frame and blade.

- ☐ Model OBD Type SL Screwdriver slot operator
- ☐ Model OBD Type L Lever operator
- Aluminum construction.
- ☐ Model OBD-A Type SL Screwdriver slot operator

Type SL requires diffuser face removal for access.

Type L can be adjusted without removing core.

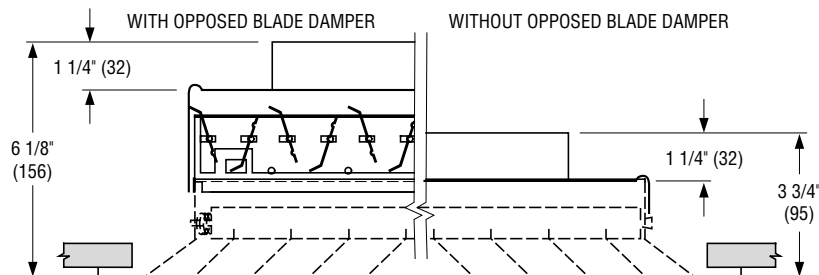

SQUARE-TO-ROUND TRANSITION COLLAR

- ☐ Model SR (for use with optional round neck damper)
- ☐ Model SR-O (for use over opposed blade damper)

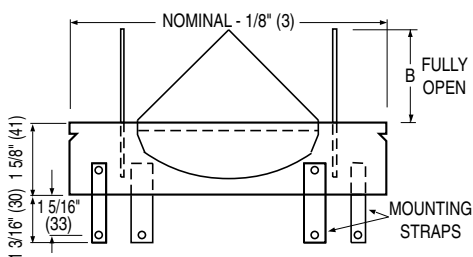
CONSTRUCTION:

22 ga. corrosion-resistant steel.

SQUARE NECK SIZE (INCHES)	ROUND NECK SIZE (INCHES)
6 x 6	4, 5, 6
9 x 9	6, 7, 8, 9
12 x 12	6, 8, 9, 10, 12
15 x 15	6, 8, 10, 12, 14, 15
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
21 x 21	6, 8, 10, 12, 14, 15, 16, 18, 20

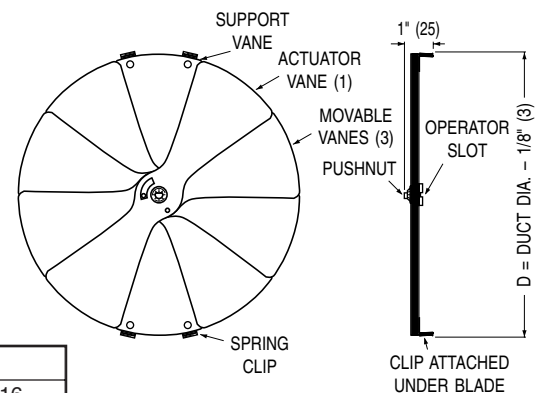

ROUND NECK DAMPERS

- ☐ Model 4275 Radial Damper



NOMINAL SIZE							
B	6	8	10	12	14	15	16
4275	1 5/8 (41)	2 1/2 (64)	2 1/4 (57)	2 7/8 (73)	3 3/8 (86)	3 3/4 (95)	4 3/8 (111)

- ☐ Model 4250 Radial Sliding Blade Damper


 Available Sizes: 6", 8", 10" and 12"
 (152, 203, 254 and 305) dia..

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

2 - 13 - 06

6200

10 - 4 - 00R

6200-7

OPPOSED BLADE DAMPER

Corrosion-resistant steel. 22 ga. roll-formed frame and blade.

☐ Model OBD Type SL Screwdriver slot operator

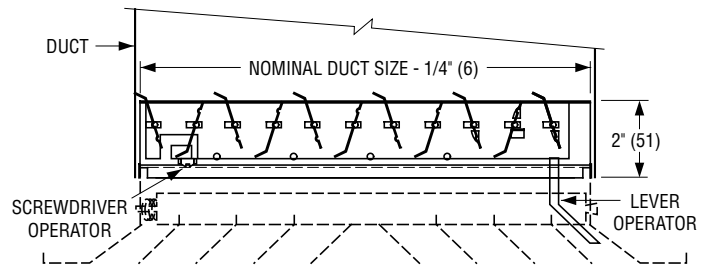
☐ Model OBD Type L Lever operator

Aluminum construction.

☐ Model OBD-A Type SL Screwdriver slot operator

Type SL requires diffuser face removal for access.

Type L can be adjusted without removing core.


SQUARE-TO-ROUND TRANSITION COLLAR

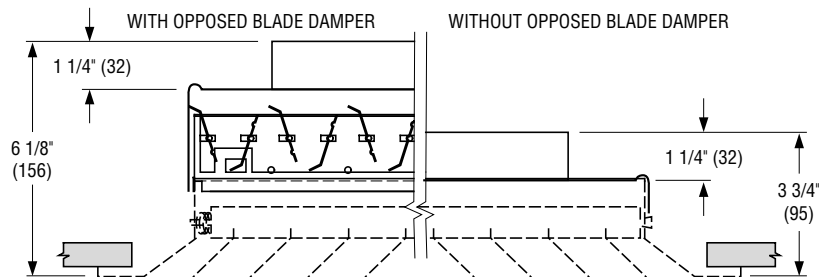
☐ Model SR
(for use with optional round neck damper)

☐ Model SR-O
(for use over opposed blade damper)

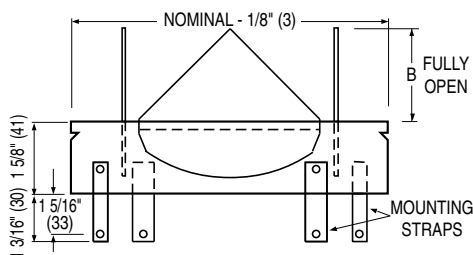
CONSTRUCTION:

22 ga. corrosion-resistant steel.

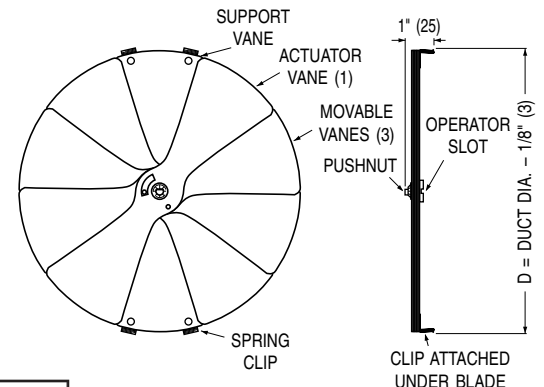
SQUARE NECK SIZE (INCHES)	ROUND NECK SIZE (INCHES)
6 x 6	4, 5, 6
9 x 9	6, 7, 8, 9
12 x 12	6, 8, 9, 10, 12
15 x 15	6, 8, 10, 12, 14, 15
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
21 x 21	6, 8, 10, 12, 14, 15, 16, 18, 20


ROUND NECK DAMPERS

☐ Model 4275 Radial Damper



☐ Model 4250 Radial Sliding Blade Damper



NOMINAL SIZE							
B	6	8	10	12	14	15	16
4275	1 5/8 (41)	2 1/2 (64)	2 1/4 (57)	2 7/8 (73)	3 3/8 (86)	3 3/4 (95)	4 3/8 (111)

Available Sizes: 6", 8", 10" and 12"
(152, 203, 254 and 305) dia..

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

5 - 11 - 15

6400

2 - 13 - 06R

6400-7



SQUARE TO ROUND TRANSITION COLLARS STEEL • DIFFUSER ACCESSORY MODELS: SR, SR-O

DESCRIPTION:

Transition collars are for use with any Nailor square neck diffuser where a round duct connection is desired. Round necks are sized for flexible or hard duct connection. SR's ship loose for field installation and are supplied with barbed S-clips.

☐ Model SR

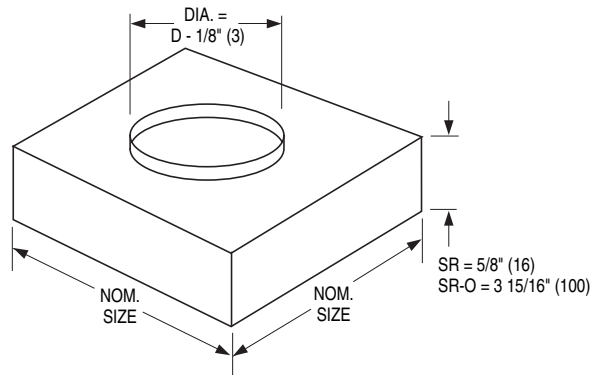
For direct attachment to diffuser neck. Round dampers may be added to neck.

☐ Model SR-O

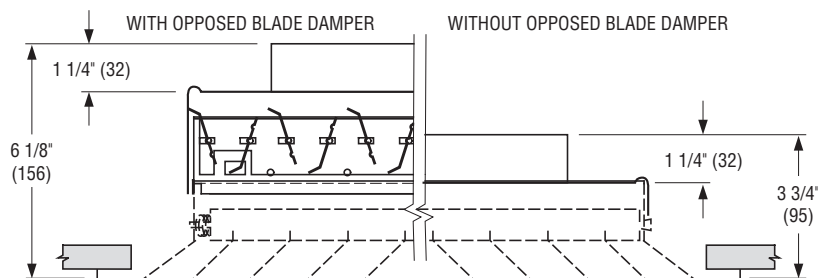
For use over a square neck opposed blade damper.

CONSTRUCTION:

22 ga. corrosion-resistant steel.



Square Neck Size (inches)	Round Neck Size D (inches)
6 x 6	4, 5, 6
8 x 8	4, 5, 6, 7, 8
9 x 9	6, 7, 8, 9
10 x 10	6, 7, 8, 9, 10
12 x 12	6, 8, 9, 10, 12
14 x 14	6, 8, 9, 10, 12, 14
15 x 15	6, 8, 10, 12, 14, 15
16 x 16	6, 8, 10, 12, 14, 15, 16
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
20 x 20	6, 8, 10, 12, 14, 15, 16, 18, 20
21 x 21	6, 8, 10, 12, 14, 15, 16, 18, 20
22 x 22	6, 8, 10, 12, 14, 16, 18, 20
24 x 24	6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 24



Example illustrated is Model 6500 Pattern Diffuser.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 4 - 16

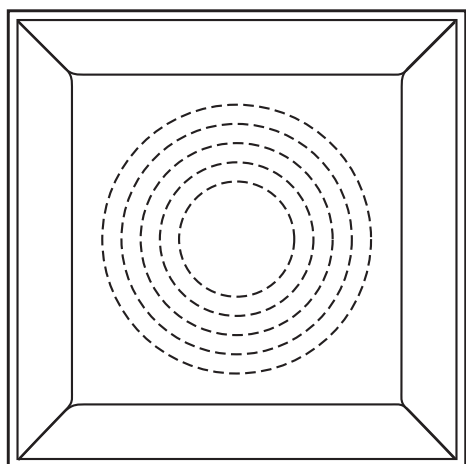
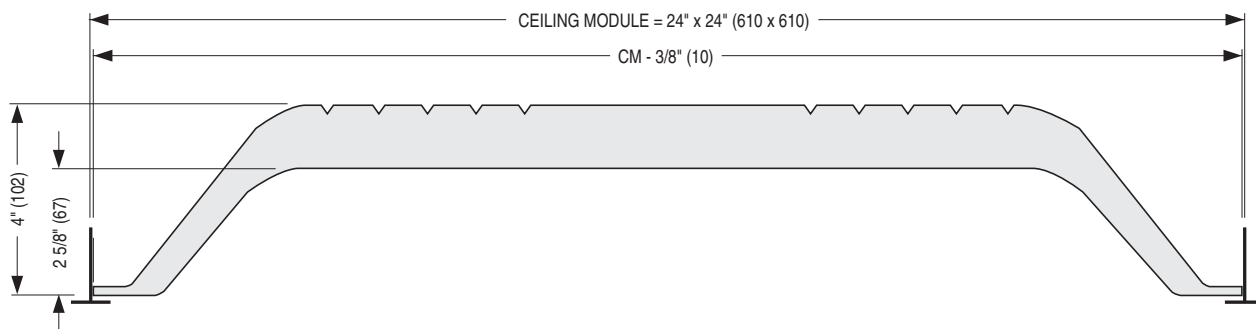
ACC

10 - 27 - 05

ACC-SR



MOLDED INSULATION BLANKET
CEILING DIFFUSER ACCESSORY
24" x 24" MODULE FOR CEILING DIFFUSERS
MODEL/ACCESSORY: MIB



DESCRIPTION:

1. One piece molded fiberglass insulation blanket with foil back vapour barrier. 6.0 R-value.
2. Pre-scored plenum 6", 8", 10", 12" or 14" (152, 203, 254, 305 or 356) dia. for field cutting.
3. The Nailor Model MIB fits over the backpan of most full face 24" x 24" diffusers and provides thermal protection to reduce the risk of condensation forming on the diffuser face.
Compatible models include RNS, RNS2, RNS3, UNI, 6200, 6400, 6500 and 4320 series.
4. The Nailor Model MIB: resists ageing, thermal shock, is incombustible, immune to rot, corrosion, oxidation and insects.
5. Tested in compliance with surface burning characteristics (ASTM E-84) and erosion test (UL 181).
6. Standard finish has a black interior.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 16 - 17

MIB

2 - 1 - 11

MIB-1



Nailor[®]
Industries Inc.

STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

Nailor offers a selection of standard colors and finishes available on our grilles, registers and diffusers. For painted finishes, our state-of-the-art paint systems provide environmentally friendly finishing solutions with uniform coverage and coating thickness. The result is an exceptionally durable finish that resists scratching, corrosion and general wear. Additional facilities for special requirements, as well as a selection of anodized or brushed finishes, complete our ability to provide unmatched beauty and durability for any application.

NAILOR POWDER COAT PROPERTIES

FILM THICKNESS	2.0 to 3.0 mils
HARDNESS	2 H
IMPACT RESISTANCE	Direct: 160 inch - lbs. Reverse 160 inch - lbs.
SALT SPRAY	1000 hours

ELECTROCOATING PROPERTIES

FILM THICKNESS	.8 to 1.2 mils
HARDNESS	HB TO H
IMPACT RESISTANCE	80 inch - lbs
SALT SPRAY	100 hours



POWDER COAT

Nailor's powder coat is a high-tech thermosetting polyester powder coating with superior physical properties that provide excellent color and gloss retention. The finish offers extreme durability and hardness that resists scratching, chipping and general wear. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse before a final powder coat finish is applied and baked. The environmentally friendly Nailor powder coat system assures uniform coverage and color consistency resulting in a long lasting superior finish. Colors, including simulated anodizing, which is far more economical than color anodizing, can be selected from Nailor's standard color chart or non-standard colors and can be matched from sample chips provided to Nailor.

ELECTROCOATING

E-Coat is an environmentally friendly coating that provides complete coverage and a wide range of performance properties, formulated to meet corrosion, durability and other performance specifications. Electrocoating is a highly automated process in which paint is electrically deposited onto a metal foundation. Film build thickness is uniform and overall application efficiencies are in excess of 90%. Paint is consistent on all part-to-part surfaces, preventing sags, runs or drips. E-Coat offers flexibility, better first yield pass and quicker production times compared to other forms of paint applications. Electrocoating is an excellent solution that offers superior properties and uniform finish.

CLEAR ANODIZING (Aluminum products only)

Clear anodizing is a clear oxide coating that exemplifies an aluminum surface's natural oxide coating producing a hard, scratch resistant surface that is resistant to general wear and mild chemicals. The process provides a natural looking, virtually maintenance free finish that will endure for many years.

COLOR ANODIZING (Aluminum products only)

Color anodizing is an electrolytic process where, after standard anodizing procedures, colored metallic pigments penetrate the oxide surface pores producing a corrosion resistant, colorfast finish. The process results in a natural metallic appearance that requires little maintenance.

BRUSHED AND CLEAR COAT

Available on specific aluminum products (consult applicable product page for availability). Surface is brushed to achieve a scratch finish texture before being degreased and chemically cleaned. A clear lacquer coating is then applied to provide a durable protective finish.

#4 BRUSHED SATIN POLISHED (Stainless Steel products only)

Surface is polished to ASTM A480 #4 standard to achieve a bright durable finish that is resistant to mild chemicals and corrosion. A final coating is not required due to the inherent anti-corrosion properties of the stainless steel.

PRIME COAT

Prime coat provides a stable base for painting in the field. Surface pretreatment includes degreasing and a chemical cleaning before an alkyd prime coat is applied. After a thorough cleaning for dust, etc. that can contaminate the final finish and cause premature flaking or peeling, finish coat should be field applied as soon as possible.

PAINT PREPARED ALUMINUM (Aluminum products only)

Allows for field applied paint. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse. Finish coat should be field applied as soon as possible.

MILL FINISH

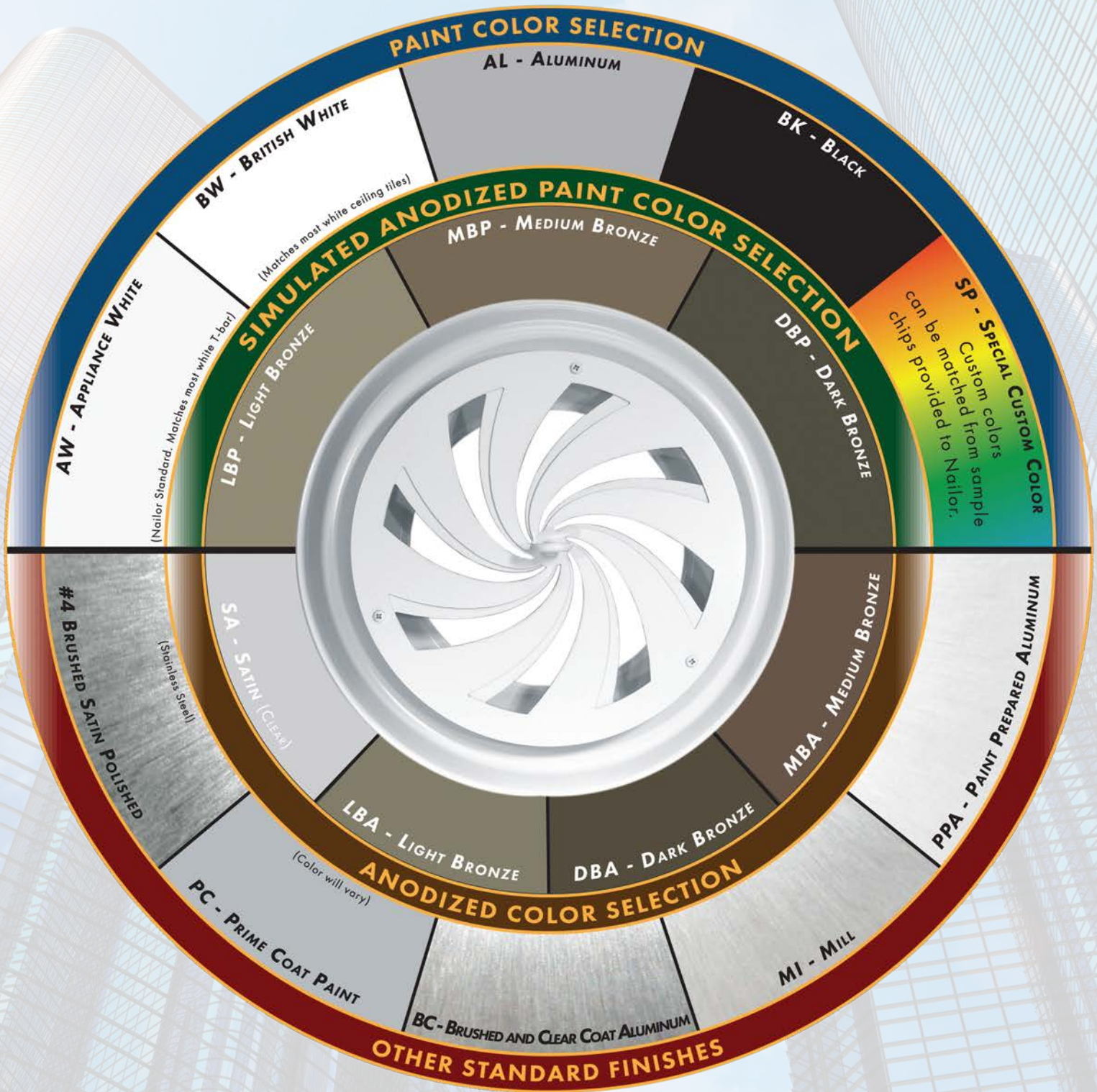
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



Nailor[®]
Industries Inc.

STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

The following standard colors and finishes are available on applicable Nailor air distribution products. Consult individual product pages for availability



The pictured finishes have been represented as best as possible within printing limitations. However, actual finish may vary. Contact your Nailor representative for a color chip sample on the material specified for a more accurate representation.

DBK - Black (for registers ordered with factory mounted dampers) - **BA** - Perforated Diffusers (4300 series only) Appliance White (AW) face with black back pan and pattern controllers.

"Complete Air Control and Distribution Solutions."

WGDSOF2015

www.nailor.com

PERFORMANCE DATA:

MODELS 6500 AND 6200 • ROUND NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VELOCITY TP	400 .026	600 .058	800 .103	900 .130	1000 .161	1200 .231	1400 .315
18 x 18 6" ROUND	RETURN FACTORS	—SP=0.7 TP NC + 0	CFM NC	78 — A B	118 11 A B	157 19 A B	176 21 A B	196 25 A B	235 30 A B	274 35 A B
	 4A	CFM/SIDE THROW, FT.	20 2-4-6	29 4-7-10	39 6-8-11	44 7-8-12	49 7-8-13	59 8-9-14	69 8-10-15	
	 3A	CFM/SIDE THROW, FT.	20 29 2-4-6 2-4-7	29 44 4-7-10 4-8-11	39 59 6-8-11 7-9-12	44 66 7-8-12 8-9-13	49 74 7-8-13 8-9-14	59 88 8-9-14 9-10-15	69 103 8-10-15 9-11-17	
	 2S  2G	CFM/SIDE THROW, FT.	39 3-4-9	59 5-6-13	78 6-9-15	88 6-10-16	98 7-11-17	118 8-13-18	137 9-14-20	
	 1S	CFM/SIDE THROW, FT.	78 4-7-14	118 6-10-18	157 9-14-21	176 10-15-23	196 11-16-24	235 12-18-26	274 13-19-28	
18 x 18 8" ROUND	RETURN FACTORS	—SP=0.8 TP NC + 0	CFM NC	140 — A B	209 13 A B	279 21 A B	314 23 A B	349 27 A B	419 32 A B	489 37 A B
	 4A	CFM/SIDE THROW, FT.	35 4-8-10	52 6-9-13	70 8-10-15	79 9-11-15	87 9-12-17	105 10-13-19	122 11-14-20	
	 3A	CFM/SIDE THROW, FT.	35 52 4-8-10 4-9-11	52 79 6-9-13 7-10-14	70 105 8-10-15 9-11-17	79 118 9-11-15 10-12-17	87 131 9-12-17 10-13-19	105 157 10-13-19 11-14-21	122 183 11-14-21 12-15-22	
	 2S  2G	CFM/SIDE THROW, FT.	70 5-17-14	105 6-9-17	140 8-13-20	157 9-14-22	175 10-15-23	209 12-17-25	244 10-13-1	
	 1S	CFM/SIDE THROW, FT.	140 7-12-19	209 9-14-24	279 13-19-28	314 14-21-30	349 15-22-32	419 16-24-34	489 17-26-37	
18 x 18 10" ROUND	RETURN FACTORS	—SP=0.9 TP NC + 2	CFM NC	218 — A B	327 16 A B	436 24 A B	491 26 A B	545 30 A B	654 35 A B	763 40 A B
	 4A	CFM/SIDE THROW, FT.	55 4-8-12	82 8-11-17	109 10-13-19	123 11-14-20	136 12-15-21	164 12-16-23	191 13-17-24	
	 3A	CFM/SIDE THROW, FT.	55 82 4-8-12 4-9-13	82 123 8-11-17 9-12-19	109 164 10-13-19 11-14-21	123 184 11-14-20 12-15-22	136 204 12-15-21 13-17-23	164 245 12-16-23 13-18-25	191 286 13-17-24 14-19-26	
	 2S  2G	CFM/SIDE THROW, FT.	109 5-7-15	164 7-11-22	218 10-15-25	245 12-17-27	273 13-19-28	327 14-21-30	382 15-23-34	
	 1S	CFM/SIDE THROW, FT.	218 7-12-22	327 12-17-31	436 15-23-25	491 17-26-37	545 19-27-39	654 20-29-42	763 22-32-45	
18 x 18 12" ROUND	RETURN FACTORS	—SP=1.0 TP NC + 3	CFM NC	314 — A B	471 18 A B	628 26 A B	707 28 A B	785 32 A B	942 37 A B	1099 42 A B
	 4A	CFM/SIDE THROW, FT.	79 6-9-15	118 8-11-18	157 10-15-23	177 13-17-24	196 14-18-25	236 15-20-28	275 17-21-30	
	 3A	CFM/SIDE THROW, FT.	79 118 6-9-15 7-10-17	118 177 8-11-18 9-12-20	157 236 10-15-23 11-17-25	177 265 13-17-24 14-19-26	196 294 14-18-25 15-20-28	236 353 15-20-28 17-23-31	275 412 17-21-30 19-23-33	
	 2S  2G	CFM/SIDE THROW, FT.	157 6-9-19	236 9-14-26	314 11-16-29	353 14-21-32	393 15-23-34	471 16-24-38	550 18-27-40	
	 1S	CFM/SIDE THROW, FT.	314 9-14-28	471 14-21-37	628 19-28-42	707 21-32-45	785 23-34-47	942 24-36-51	1099 27-39-55	
18 x 18 14" ROUND	RETURN FACTORS	—SP=1.1 TP NC + 4	CFM NC	427 — A B	641 20 A B	854 28 A B	961 30 A B	1068 34 A B	1282 39 A B	1495 44 A B
	 4A	CFM/SIDE THROW, FT.	107 7-10-19	160 10-15-23	214 14-19-26	240 15-20-29	267 17-21-30	320 19-23-32	374 21-26-38	
	 3A	CFM/SIDE THROW, FT.	107 160 7-10-19 8-11-21	160 240 10-15-23 11-17-25	214 320 14-19-26 15-21-29	240 360 15-20-29 17-22-32	267 401 17-21-30 19-23-33	320 481 19-23-32 21-25-35	374 561 21-26-38 23-29-42	
	 2S  2G	CFM/SIDE THROW, FT.	214 7-11-22	320 11-16-31	427 14-22-36	481 16-24-38	534 18-27-40	641 19-28-43	748 21-31-47	
	 1S	CFM/SIDE THROW, FT.	427 11-16-32	641 16-24-42	854 24-33-50	961 24-37-52	1068 27-39-55	1282 29-42-60	1495 33-45-65	
18 x 18 16" ROUND	RETURN FACTORS	—SP=1.3 TP NC + 6	CFM NC	558 — A B	837 22 A B	1116 30 A B	1256 32 A B	1395 36 A B	1674 41 A B	1953 46 A B
	 4A	CFM/SIDE THROW, FT.	140 8-12-21	209 12-19-26	279 17-21-31	314 19-23-32	349 20-25-35	419 22-28-42	488 24-30-48	
	 3A	CFM/SIDE THROW, FT.	140 209 8-12-21 9-13-23	209 314 12-19-26 13-21-29	279 419 17-21-31 19-23-34	314 471 19-23-32 21-25-35	349 523 20-25-35 22-28-39	419 628 22-28-42 24-31-46	488 732 24-30-48 26-33-53	
	 2S  2G	CFM/SIDE THROW, FT.	279 8-13-25	419 13-19-35	558 16-25-41	628 19-28-43	698 20-30-45	837 23-34-49	977 26-37-54	
	 1S	CFM/SIDE THROW, FT.	558 13-19-38	837 19-28-49	1116 25-38-57	1256 28-42-60	1395 31-44-63	1674 36-48-69	1953 42-52-75	

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
36 x 24 6.0 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 8	CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46
			A B	A B	A B	A B	A B	A B	A B
	4B 4C	CFM/SIDE THROW, FT.	600 300 29-37-51 19-22-31	800 400 34-41-58 22-25-37	1000 500 39-48-66 25-29-41	1200 600 41-51-70 27-31-44	1400 700 44-54-75 29-32-48	1600 800 49-59-80 31-37-51	1800 900 53-63-85 32-37-54
	4E	CFM/SIDE THROW, FT.	450 450 25-31-42 24-31-42	600 600 29-37-51 29-37-51	750 750 32-41-58 32-41-58	900 900 35-44-61 35-44-61	1050 1050 37-48-66 37-48-66	1200 1200 41-51-71 41-51-71	1350 1350 42-54-75 42-54-75
	3A1	CFM/SIDE THROW, FT.	750 300 31-37-54 19-22-31	1000 400 37-42-61 22-25-37	1250 500 41-49-70 25-29-41	1500 600 44-54-75 27-31-44	1750 700 48-58-80 29-32-48	2000 800 51-61-85 31-37-51	2250 900 54-65-90 32-37-54
	3A2	CFM/SIDE THROW, FT.	676 562 27-32-48 24-29-41	900 750 34-37-54 27-32-48	1125 937 34-42-61 31-37-54	1350 1125 37-48-66 32-39-58	1575 1312 39-51-71 35-42-61	1800 1500 42-54-75 37-44-66	2025 1687 48-58-80 41-49-70
	2A	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97
	2B	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97
	2C 2D	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75
	2E	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75
36 x 30 7.5 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	2250 19	3000 26	3750 32	4500 37	5250 41	6000 44	6750 47
			A B	A B	A B	A B	A B	A B	A B
	4B 4C	CFM/SIDE THROW, FT.	657 468 29-37-51 20-25-34	875 625 34-41-58 24-29-39	1093 782 39-48-66 27-32-44	1313 937 41-51-70 29-37-49	1532 1093 44-54-75 31-37-53	1750 1250 49-59-80 32-41-56	1969 1406 53-63-85 37-42-59
	3A1	CFM/SIDE THROW, FT.	890 468 32-41-56 20-25-34	1187 625 37-48-65 24-29-39	1484 782 42-54-73 27-32-44	1781 937 48-58-78 29-37-49	2078 1093 51-61-85 31-37-53	2375 1250 54-66-90 32-41-56	2672 1406 58-70-97 37-42-59
	3A2	CFM/SIDE THROW, FT.	787 675 31-37-54 22-27-37	1050 900 37-42-61 25-31-42	1312 1125 41-49-70 29-34-49	1575 1350 44-54-75 31-37-54	1837 1575 48-58-80 32-39-58	2100 1800 51-61-85 37-42-61	2362 2025 54-65-90 37-48-65
	2A	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102
	2B	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102
	2C 2D	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85
	2E	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85
	1A 1B	CFM/SIDE THROW, FT.	2250 48-60-82	3000 56-68-94	3750 64-78-106	4500 68-82-116	5250 72-88-124	6000 78-94-134	6750 82-100-144

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

CFM - cubic feet per minute
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Neck Velocity – feet per minute

Performance Notes:

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

- Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
- Correction factors for adjustable models - see next page.
- Correction factors for round inlets - see next page.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODELS 6500 AND 6200

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.

CORRECTION FACTORS FOR MODELS 6550 AND 6250 (ADJUSTABLE PATTERN CONTROLLERS) – TABLE 2

Refer to the performance data for the **Models 6500 and 6200**. Apply the corrections from Table 2 to the data for square, 4-way core styles, as follows:

- NC = listed + correction
- Total Pressure = listed x factor
- Horizontal Throw = listed
- Vertical Throw = listed x factor

Apply the throw factor to the 50 fpm terminal velocity throw only.

Example:

18" x 18", **Model 6500**, 1350 cfm, 20°F temperature difference heating, vertical projection, (Page D23).

- NC = 31 + 6 = 37
- TP = .13 x 2.1 = .273
- Throw = 36 x .9 = 32.4 feet @ 50 fpm terminal velocity.

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 3

- Add the NC correction factor from Table 3 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 3 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 3 by the listed throws in the performance tables.

Example:

12" x 12" unit with 10" round adaptor handling 500 cfm supply air. (Page D23).

- NC = 23 + 7 = 30
- Total Pressure = .09 x 1.65 = 0.149
- Throw = 21 x 1.15 = 24.15 feet @ 50 fpm terminal velocity.

Example:

12" x 12" unit handling 600 cfm of return air. (Page D23).

- Return NC = 28 + 4 = 32.
- Return negative SP = 1.3 x (– .13) = – .169.

TABLE 2 Correction Factors 6550/6250 Adjustable

NECK SIZE	NC (add)		TOTAL PRESSURE (multiply)		VERTICAL THROW (multiply)			
					COOLING, ΔT	HEATING, ΔT		
	H	V	H	V	20°F	0°F	20°F	40°F
6 x 6	2	6	1.2	1.5	1.3	1.1	0.8	0.6
9 x 9	2	6	1.4	2.1	1.5	1.2	0.9	0.6
12 x 12	2	6	1.4	2.1	1.6	1.3	1.0	0.6
15 x 15	2	6	1.4	2.1	1.7	1.3	1.0	0.6
18 x 18	2	6	1.4	2.1	1.7	1.3	0.9	0.6
21 x 21	2	6	1.4	2.1	1.7	1.3	0.8	0.5
24 x 24	2	6	1.6	2.2	1.5	1.1	0.7	0.3

TABLE 3 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

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
6 x 6 .25 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	19 3-4-6	25 3-5-8	31 5-6-8	37 5-6-9	44 6-7-10	50 6-7-10	56 7-8-10	
	 3A	CFM/SIDE THROW, FT.	19 28 3-4-6 4-6-9	25 38 3-5-8 5-7-10	31 47 5-6-8 6-8-11	37 56 5-6-9 6-9-12	44 66 6-7-10 7-10-13	50 75 6-7-10 7-10-14	56 85 7-8-10 8-10-14	
	 2S  2G	CFM/SIDE THROW, FT.	37 6-7-10	50 7-8-11	62 8-9-13	75 9-10-14	88 10-10-14	100 10-10-15	113 10-11-16	
	 1S	CFM/SIDE THROW, FT.	75 7-9-12	100 8-10-14	125 9-11-15	150 10-12-18	175 10-13-18	200 11-14-19	225 12-14-20	
9 x 9 .56 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	42 5-6-10	56 6-8-11	70 8-9-12	84 8-10-13	98 9-10-14	112 9-11-15	126 10-12-16	
	 3A	CFM/SIDE THROW, FT.	42 63 5-6-10 7-9-11	56 85 6-8-11 8-10-14	70 106 8-9-12 9-10-15	84 127 8-10-13 10-11-16	98 148 9-10-14 10-12-17	112 169 9-11-15 10-13-18	126 190 10-12-16 11-14-19	
	 2S  2G	CFM/SIDE THROW, FT.	84 7-8-12	112 9-10-14	141 10-12-16	169 10-13-18	197 11-14-18	225 12-14-20	253 13-15-22	
	 1S	CFM/SIDE THROW, FT.	169 10-12-16	225 11-14-18	282 13-15-21	338 14-18-23	394 14-18-25	450 15-19-26	507 18-20-28	
12 x 12 1.0 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	75 6-10-12	100 9-11-14	125 10-12-17	150 11-14-18	175 11-14-19	200 12-16-20	225 14-17-22	
	 3A	CFM/SIDE THROW, FT.	75 112 6-10-12 9-11-15	100 150 9-11-14 11-13-17	125 187 10-12-17 11-14-19	150 225 11-14-18 12-15-21	175 262 11-14-19 13-16-22	200 300 12-16-20 14-17-24	225 338 14-17-22 15-18-25	
	 2S  2G	CFM/SIDE THROW, FT.	150 10-12-16	200 12-14-20	250 14-15-22	300 14-16-23	350 15-17-25	400 16-20-27	450 17-20-29	
	 1S	CFM/SIDE THROW, FT.	300 13-16-22	400 14-18-26	500 17-20-30	600 18-21-31	700 18-22-33	800 20-23-33	900 22-26-38	
15 x 15 1.56 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	117 10-13-17	156 11-14-19	195 13-15-22	234 14-17-23	273 15-18-24	312 16-19-26	350 17-21-28	
	 3A	CFM/SIDE THROW, FT.	117 175 10-13-17 11-14-18	156 234 11-14-19 14-18-23	195 292 13-15-22 15-18-25	234 351 14-17-23 17-18-27	273 409 15-18-24 18-20-29	312 468 16-19-26 18-23-31	350 527 17-21-28 20-23-34	
	 2S  2G	CFM/SIDE THROW, FT.	234 13-16-22	312 15-18-25	390 17-20-29	468 18-22-32	546 19-23-34	625 22-25-36	700 22-28-38	
	 1S	CFM/SIDE THROW, FT.	467 17-20-29	625 18-23-34	780 21-26-38	935 23-29-41	1090 24-31-44	1250 26-34-46	1400 29-35-49	
18 x 18 2.25 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	168 12-15-20	225 14-16-23	281 15-19-26	337 16-20-29	394 18-22-30	450 19-23-33	506 20-25-34	
	 3A	CFM/SIDE THROW, FT.	168 253 12-15-20 14-18-23	225 338 14-16-23 16-20-26	281 422 15-19-26 18-22-30	337 506 16-20-29 20-26-34	394 590 18-22-30 21-26-36	450 675 19-23-33 22-28-38	506 760 20-25-34 26-29-41	
	 2S  2G	CFM/SIDE THROW, FT.	337 15-18-26	450 18-21-30	562 19-24-34	675 21-25-37	787 24-27-39	900 24-28-42	1012 26-31-44	
	 1S	CFM/SIDE THROW, FT.	675 20-26-36	900 24-29-41	1125 27-34-46	1350 29-36-49	1575 31-38-53	1800 34-42-56	2025 37-44-60	

For performance notes, see D44.

D

CEILING DIFFUSERS

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
21 x 21 3.06 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	230 14-17-24	306 15-20-27	382 17-22-31	460 18-24-33	535 20-27-35	612 21-27-37	688 22-31-41	
	 3A	CFM/SIDE THROW, FT.	230 345 12-15-21 16-20-27	306 460 14-18-23 18-22-31	382 573 15-20-27 21-25-36	460 688 16-21-29 22-27-40	535 802 18-22-31 23-29-42	612 918 18-23-32 27-31-45	688 1030 20-27-36 27-34-47	
	 2S  2G	CFM/SIDE THROW, FT.	458 18-22-31	612 20-25-36	765 22-28-40	917 25-31-44	1070 27-34-47	1225 27-36-50	1375 31-38-48	
	 1S	CFM/SIDE THROW, FT.	917 23-30-41	1225 27-34-47	1530 31-40-54	1835 34-42-57	2140 37-45-62	2450 40-48-66	2750 42-51-70	
24 x 24 4.0 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	300 16-19-26	400 19-22-32	500 22-25-35	600 23-26-38	700 25-28-41	800 26-32-44	900 28-32-46	
	 3A	CFM/SIDE THROW, FT.	300 450 16-19-26 18-22-31	400 600 19-22-32 19-25-37	500 750 22-25-35 23-29-42	600 900 23-26-38 25-30-45	700 1050 25-28-41 29-33-47	800 1200 26-32-44 29-34-51	900 1350 28-32-46 31-38-54	
	 2S  2G	CFM/SIDE THROW, FT.	600 20-26-36	800 24-29-41	1000 27-34-46	1200 29-36-49	1400 31-38-53	1600 34-42-56	1800 37-44-60	
	 1S	CFM/SIDE THROW, FT.	1200 28-32-47	1600 30-38-54	2000 36-43-62	2400 38-46-66	2800 41-50-72	3200 43-54-74	3600 47-56-81	
30 x 30 6.25 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	469 20-25-34	625 23-29-38	782 27-32-44	937 29-35-49	1093 30-37-52	1250 32-40-55	1406 37-42-58	
	 3A	CFM/SIDE THROW, FT.	469 703 20-25-34 22-27-39	625 938 23-29-38 26-31-46	782 1172 27-32-44 28-35-51	937 1405 29-35-49 31-39-55	1093 1640 30-37-52 33-39-59	1250 1875 32-40-55 35-46-62	1406 2110 37-42-58 39-48-66	
	 2S  2G	CFM/SIDE THROW, FT.	937 26-32-44	1250 30-38-50	1562 34-42-58	1875 38-46-62	2187 40-48-66	2500 42-52-70	2812 46-54-76	
	 1S	CFM/SIDE THROW, FT.	1875 34-42-58	2500 39-48-66	3125 45-55-74	3750 48-58-82	4375 50-62-87	5000 55-66-117	5625 58-70-98	
36 x 36 9.0 SQ. FT.	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
	 4A	CFM/SIDE THROW, FT.	675 24-30-41	900 27-33-46	1125 31-37-54	1350 33-41-59	1575 35-42-62	1800 41-46-66	2025 41-51-70	
	 3A	CFM/SIDE THROW, FT.	675 1010 24-30-41 27-35-46	900 1350 27-33-46 32-38-54	1125 1687 31-37-54 37-45-62	1350 2025 33-41-59 38-48-66	1575 2362 35-42-62 42-51-70	1800 2700 41-46-66 46-56-75	2025 3038 41-51-70 50-59-80	
	 2S  2G	CFM/SIDE THROW, FT.	1350 32-36-54	1800 34-43-61	2250 40-49-69	2700 43-52-74	3150 46-56-81	3600 49-61-83	4050 54-63-90	
	 1S	CFM/SIDE THROW, FT.	2700 39-49-68	3600 47-56-79	4500 53-64-91	5400 58-68-98	6300 61-73-105	7200 66-78-114	8100 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 – 2023.

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 D43).

- 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 D43).

- 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

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
9 x 6 .375 SQ. FT.	RETURN FACTORS —SP=1.2 TP NC + 0	CFM NC	110 —	150 14	185 20	225 25	260 29	300 33	335 37
	4B	CFM/SIDE THROW, FT.	37 18 7-11-13 5-6-10	50 25 10-12-16 6-7-11	62 31 11-13-18 7-10-12	75 37 12-14-19 7-10-13	87 44 12-16-20 10-11-14	100 50 13-17-22 10-12-15	112 56 14-18-23 11-12-16
	3A1	CFM/SIDE THROW, FT.	47 18 10-11-14 5-6-10	62 25 11-12-17 6-7-11	78 31 12-13-19 7-10-12	94 37 13-14-20 7-10-13	109 44 14-16-22 10-11-14	125 50 14-17-23 10-12-15	140 56 16-18-26 11-12-16
	3A2	CFM/SIDE THROW, FT.	42 35 8-12-14 6-8-13	55 47 10-13-17 8-10-14	70 58 12-14-19 10-12-16	84 70 13-16-21 10-13-17	98 82 13-17-22 12-13-18	112 94 14-18-23 12-14-19	126 105 16-19-25 13-16-21
	2A 2B	CFM/SIDE THROW, FT.	56 11-12-16	75 12-14-19	93 13-16-22	112 14-18-23	131 16-19-24	150 17-20-26	168 18-22-29
	2C 2E	CFM/SIDE THROW, FT.	75 37 12-14-19 8-12-14	100 50 13-16-22 10-13-17	125 62 14-18-25 12-14-19	150 75 16-19-29 13-16-21	175 87 17-21-29 13-17-25	200 100 18-22-31 14-18-23	225 112 20-23-33 16-20-25
	1A 1B	CFM/SIDE THROW, FT.	112 14-17-23	150 17-19-29	187 19-22-31	225 21-23-34	262 22-25-36	300 23-29-39	337 25-29-42
12 x 6 .50 SQ. FT.	RETURN FACTORS —SP=1.6 TP NC + 1	CFM NC	150 —	200 14	250 20	300 26	350 31	400 35	450 39
	4B	CFM/SIDE THROW, FT.	56 18 11-13-17 5-6-10	75 25 12-14-19 6-7-11	94 31 13-17-22 7-10-12	113 37 14-18-23 7-10-13	131 44 16-19-26 10-11-14	150 50 17-20-26 10-11-14	169 56 18-22-29 11-12-16
	3A1	CFM/SIDE THROW, FT.	66 18 11-13-18 5-6-10	87 25 12-14-20 6-7-11	109 31 13-17-23 7-10-12	131 37 14-18-26 7-10-13	153 44 16-19-26 10-11-14	175 50 17-20-29 10-11-14	197 56 18-22-30 11-12-16
	3B	CFM/SIDE THROW, FT.	75 37 11-16-20 8-12-14	100 50 14-18-23 10-13-17	126 62 16-20-27 12-14-19	150 75 18-22-29 13-16-21	176 87 18-23-31 13-17-25	200 100 20-25-32 14-18-23	226 112 22-27-34 16-20-25
	2A 2B	CFM/SIDE THROW, FT.	75 11-13-18	100 12-14-20	125 13-17-23	150 14-18-26	175 16-19-26	200 17-20-29	225 18-22-30
	2C 2E	CFM/SIDE THROW, FT.	112 37 14-17-23 8-12-14	150 50 17-19-29 10-13-17	188 62 19-22-31 12-14-19	225 75 21-23-34 13-16-21	263 87 22-25-36 13-17-25	300 100 23-29-39 14-18-23	338 112 25-29-42 16-20-25
	1A 1B	CFM/SIDE THROW, FT.	150 14-17-23	200 17-19-29	250 19-22-31	300 21-23-34	350 22-25-36	400 23-29-39	450 25-29-42
15 x 6 .625 SQ. FT.	RETURN FACTORS —SP=1.9 TP NC + 1	CFM NC	190 —	250 15	310 21	375 27	440 32	500 36	565 40
	4B	CFM/SIDE THROW, FT.	75 18 11-13-18 5-6-10	100 25 12-14-20 6-7-11	125 31 13-17-23 7-10-12	150 37 14-18-26 7-10-13	175 44 16-19-26 10-11-14	200 50 17-20-29 10-11-14	225 56 18-22-30 11-12-16
	4E	CFM/SIDE THROW, FT.	56 37 11-12-16 10-11-14	75 50 12-14-19 11-12-17	94 62 12-17-22 12-13-19	113 75 14-18-23 13-14-20	131 87 16-19-26 14-16-22	150 100 16-20-26 14-17-23	169 112 18-22-29 16-18-26
	3A1	CFM/SIDE THROW, FT.	84 18 12-13-19 5-6-10	112 25 13-16-22 6-7-11	140 31 14-18-24 7-10-12	169 37 16-19-26 7-10-13	197 44 17-20-28 10-11-14	225 50 18-22-30 10-11-14	253 56 19-23-34 11-12-16
	2A 2B	CFM/SIDE THROW, FT.	94 12-14-20	125 13-16-23	156 14-19-26	187 16-20-28	219 17-22-30	250 18-23-31	281 19-26-35
	2C 2E	CFM/SIDE THROW, FT.	150 37 14-17-23 8-12-14	200 50 17-19-29 10-13-17	250 62 19-22-31 12-14-19	300 75 21-23-34 13-16-21	350 87 22-25-36 13-17-22	400 100 23-29-39 14-18-23	450 112 25-29-42 16-20-25
	1A 1B	CFM/SIDE THROW, FT.	188 16-19-26	250 18-22-30	312 21-25-34	375 22-29-38	438 23-29-40	500 25-31-43	563 29-32-45

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
18 x 6 .75 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 2	CFM NC	225 —	300 16	375 22	450 28	525 33	600 37	675 41
	4B 4C	CFM/SIDE THROW, FT.	A 94 18 B 12-14-20 5-6-10	A 125 25 B 13-17-23 6-7-11	A 156 31 B 14-19-25 7-10-12	A 188 37 B 16-20-28 7-10-13	A 218 44 B 17-22-30 10-11-14	A 250 50 B 18-23-31 10-11-14	A 281 56 B 19-26-35 11-12-16
	4E	CFM/SIDE THROW, FT.	56 56 11-13-17 11-13-17	75 75 12-14-19 12-14-19	94 94 13-17-22 13-17-22	113 113 14-18-23 14-18-23	131 131 16-19-26 16-19-26	150 150 17-20-26 17-20-26	169 169 18-22-29 18-22-29
	3A1	CFM/SIDE THROW, FT.	103 18 12-14-20 5-6-10	137 25 13-17-23 6-7-11	172 31 14-19-25 7-10-12	206 37 16-20-28 7-10-13	240 44 17-22-30 10-11-14	275 50 18-23-31 10-11-14	309 56 19-26-35 11-12-16
	2A 2B	CFM/SIDE THROW, FT.	112 13-16-22	150 16-18-26	187 18-20-29	225 19-22-31	262 20-23-34	300 22-26-36	337 23-26-38
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	187 37 16-19-26 8-12-14	250 50 18-22-30 10-13-17	313 62 21-25-34 12-14-19	375 75 22-29-38 13-16-21	438 87 23-29-40 13-17-22	500 100 25-31-43 14-18-23	563 112 29-32-45 16-19-25
	1A 1B	CFM/SIDE THROW, FT.	225 17-21-29	300 19-23-32	375 22-26-38	450 23-29-42	525 25-30-44	600 29-32-47	675 29-36-52
21 x 6 .875 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	260 —	350 16	435 22	525 29	610 33	700 38	785 41
	4B 4C	CFM/SIDE THROW, FT.	A 112 18 B 13-16-22 5-6-10	A 150 25 B 16-18-26 6-7-11	A 187 31 B 18-20-29 7-10-12	A 225 37 B 19-22-31 7-10-13	A 262 44 B 20-23-34 10-11-14	A 300 50 B 22-26-36 10-11-14	A 337 56 B 23-26-38 11-12-16
	4E	CFM/SIDE THROW, FT.	75 56 11-13-18 11-13-17	100 75 12-14-20 12-14-19	125 94 13-17-23 13-17-22	150 113 14-18-26 14-18-23	175 131 16-19-26 16-19-26	200 150 17-20-29 17-20-26	225 169 18-22-30 18-22-29
	3A1	CFM/SIDE THROW, FT.	122 18 13-16-22 5-6-10	162 25 16-18-26 6-7-11	203 31 18-20-29 7-10-12	244 37 19-22-31 7-10-13	284 44 20-23-34 10-11-14	325 50 22-26-36 10-11-14	365 56 23-26-38 11-12-16
	2A 2B	CFM/SIDE THROW, FT.	131 13-16-22	175 16-18-26	218 18-20-29	262 19-22-31	306 20-23-34	350 22-26-36	393 23-26-38
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	225 37 17-21-29 8-12-14	300 50 19-23-32 10-13-17	375 62 22-26-38 12-14-19	450 75 23-29-42 13-16-21	525 87 25-30-44 13-17-22	600 100 29-32-47 14-18-23	675 112 29-36-49 16-19-25
	1A 1B	CFM/SIDE THROW, FT.	262 17-21-29	350 19-23-32	437 22-26-38	525 23-29-42	612 25-30-44	700 29-32-47	787 29-36-49
24 x 6 1.0 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	300 —	400 16	500 23	600 30	700 34	800 39	900 42
	4B 4C	CFM/SIDE THROW, FT.	A 131 18 B 13-16-22 5-6-10	A 175 25 B 16-18-26 6-7-11	A 219 31 B 18-20-29 7-10-12	A 263 37 B 19-22-31 7-10-13	A 306 44 B 20-23-34 10-11-14	A 350 50 B 22-26-36 10-11-14	A 394 56 B 23-26-38 11-12-16
	4E	CFM/SIDE THROW, FT.	75 75 11-13-18 11-13-17	100 100 12-14-20 12-14-20	125 125 13-17-23 13-17-23	150 150 14-18-26 14-18-26	175 175 16-19-26 16-19-26	200 200 17-20-29 17-20-29	225 225 18-22-30 18-22-30
	3A1	CFM/SIDE THROW, FT.	141 18 13-16-22 5-6-10	187 25 16-18-26 6-7-11	234 31 18-20-29 7-10-12	281 37 19-22-31 7-10-13	328 44 20-23-34 10-11-14	375 50 22-26-36 10-11-14	422 56 23-26-38 11-12-16
	2A 2B	CFM/SIDE THROW, FT.	150 13-16-22	200 16-18-26	250 18-20-29	300 19-22-31	350 20-23-34	400 22-26-36	450 23-26-38
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	260 37 17-21-29 8-12-14	350 50 19-23-32 10-13-17	438 62 22-26-38 12-14-19	525 75 23-29-42 13-16-21	613 87 25-30-44 13-17-22	700 100 29-32-47 14-18-23	788 112 29-36-49 16-19-25
	1A 1B	CFM/SIDE THROW, FT.	300 18-22-31	400 21-25-36	500 23-29-42	600 25-30-44	700 29-32-47	800 29-34-51	900 31-38-53

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
30 x 6 1.25 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	375 —	500 17	625 24	750 30	875 35	1000 40	1125 43
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	169 18 16-19-26 5-6-10	225 25 18-22-30 6-8-12	281 31 21-25-34 8-10-13	338 37 22-29-38 8-10-14	393 44 23-29-40 10-12-16	450 50 25-31-43 10-12-16	506 56 27-32-45 12-13-17
	3A1	CFM/SIDE THROW, FT.	94 94 13-16-22 13-16-22	125 125 14-18-25 14-18-25	156 156 16-21-29 16-21-29	188 188 17-22-30 17-22-30	219 219 18-23-32 18-23-32	250 250 19-25-34 19-25-34	282 282 21-29-38 21-29-38
	2A 2B	CFM/SIDE THROW, FT.	178 18 16-19-26 5-6-10	237 25 18-22-30 6-8-12	297 31 21-25-34 8-10-13	356 37 22-29-38 8-10-14	415 44 23-29-40 10-12-16	475 50 25-31-43 10-12-16	534 56 27-32-45 12-13-17
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	187 16-19-26	250 18-22-30	312 21-25-34	375 22-29-38	437 23-29-40	500 25-31-43	562 27-32-45
	1A 1B	CFM/SIDE THROW, FT.	337 37 18-22-31 8-12-14	450 50 21-25-36 10-13-17	563 62 23-29-42 12-14-19	675 75 25-30-44 13-16-21	788 87 27-32-47 13-17-22	900 100 29-34-51 14-18-23	1013 112 31-38-53 16-19-25
12 x 9 .75 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	225 —	300 17	375 23	450 28	525 33	600 36	675 40
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	3A1	CFM/SIDE THROW, FT.	70 42 10-13-17 6-8-13	94 56 12-14-19 8-10-14	117 70 13-16-22 10-12-16	141 84 14-17-23 10-13-17	164 98 16-18-25 12-13-18	188 112 16-19-27 12-14-19	211 126 17-21-29 13-16-21
	3A2	CFM/SIDE THROW, FT.	91 42 13-16-22 6-8-13	121 56 14-18-25 8-10-14	152 70 16-21-29 10-12-16	183 84 17-22-30 10-13-17	213 98 18-23-32 12-13-18	244 112 19-25-34 12-14-19	274 126 21-29-38 13-16-21
	2A 2B	CFM/SIDE THROW, FT.	75 75 13-15-20 13-15-20	100 100 14-17-22 14-17-22	125 125 15-20-25 15-20-25	150 150 17-21-27 17-21-27	175 175 18-22-31 18-22-31	200 200 20-24-31 20-24-31	225 225 21-25-34 21-25-34
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	112 14-17-23	150 17-19-29	187 19-22-31	225 21-23-34	262 22-25-36	300 23-27-39	337 25-29-42
	1A 1B	CFM/SIDE THROW, FT.	141 84 15-18-25 13-15-20	188 112 18-21-31 14-17-22	234 141 21-24-34 15-20-25	281 169 22-25-36 17-21-27	328 197 24-27-39 18-22-31	375 225 25-29-42 20-24-31	422 253 27-31-45 21-25-34
15 x 9 .93 SQ. FT.	RETURN FACTORS —SP=1.7 TP NC + 3	CFM NC	280 —	375 18	470 24	565 29	655 34	750 37	845 41
	4B 4C	CFM/SIDE THROW, FT.	A B A	B A	B A	B A	B A	B A	B
	4E	CFM/SIDE THROW, FT.	98 42 13-16-22 6-8-13	131 56 14-18-25 8-10-14	165 70 16-21-29 10-12-16	198 84 17-22-30 10-13-17	230 98 18-23-32 12-13-18	263 112 19-25-34 12-14-19	296 126 21-29-38 13-16-21
	3A1	CFM/SIDE THROW, FT.	70 70 12-14-19 12-14-19	94 94 13-16-22 13-16-22	117 117 14-18-25 14-18-25	141 141 16-19-29 16-19-29	164 164 17-21-29 17-21-29	188 188 18-22-31 18-22-31	211 211 19-23-32 19-23-32
	3A2	CFM/SIDE THROW, FT.	120 42 14-17-23 6-8-13	159 56 17-19-29 8-10-14	200 70 19-22-31 10-12-16	240 84 21-23-34 10-13-17	279 98 22-25-36 12-13-18	319 112 23-27-39 12-14-19	359 126 25-29-42 13-16-21
	2A 2B	CFM/SIDE THROW, FT.	117 82 14-15-22 11-14-18	155 110 15-18-25 13-15-21	196 137 17-21-28 14-17-24	233 165 18-22-31 15-18-25	272 192 20-24-32 17-20-27	312 219 21-25-35 17-21-31	351 247 22-27-39 18-22-31
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	140 14-17-23	187 17-19-29	235 19-22-31	281 21-23-34	328 22-25-36	375 23-29-39	422 25-29-42
15 x 9 .93 SQ. FT.	1A 1B	CFM/SIDE THROW, FT.	197 84 17-21-28 13-15-20	263 112 20-24-32 14-17-22	329 141 22-27-36 15-20-25	394 169 24-31-41 17-21-27	459 197 25-31-43 18-22-30	525 225 27-34-46 20-24-32	592 253 31-35-49 21-25-34
	1A 1B	CFM/SIDE THROW, FT.	281 20-24-34	375 22-27-39	470 25-31-45	563 27-32-48	656 29-35-50	750 31-36-55	845 34-41-57

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
18 x 9 1.125 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 3	CFM NC	335 —	450 19	560 25	675 30	790 35	900 38	1010 42
	4B 4C	CFM/SIDE THROW, FT.	126 42 14-17-23 6-8-13	169 56 17-19-29 8-10-14	211 70 19-22-31 10-12-16	254 84 21-23-34 10-13-17	296 98 22-25-36 12-13-18	338 112 23-27-39 12-14-19	380 126 25-29-42 13-16-21
	4E	CFM/SIDE THROW, FT.	99 70 13-16-22 12-14-19	132 94 14-18-25 13-16-22	164 117 16-21-29 14-18-25	197 141 17-22-30 16-19-29	230 164 18-23-32 17-21-29	263 188 19-25-34 18-22-31	296 211 21-29-38 19-23-32
	3A1	CFM/SIDE THROW, FT.	147 42 14-17-23 6-8-13	197 56 17-19-29 8-10-14	246 70 19-22-31 10-12-16	295 84 21-23-34 10-13-17	345 98 22-25-36 12-13-18	394 112 23-27-39 12-14-19	443 126 25-29-42 13-16-21
	3B	CFM/SIDE THROW, FT.	168 84 17-21-28 13-15-20	225 112 19-23-32 14-17-22	281 141 21-27-36 15-20-25	337 169 23-28-40 17-21-27	394 197 25-30-42 18-22-31	450 225 27-32-46 20-24-31	506 253 28-34-47 21-25-34
	2A 2B	CFM/SIDE THROW, FT.	163 16-19-26	225 18-22-30	281 21-25-34	337 22-29-38	394 23-29-40	450 25-31-43	506 29-32-45
	2C 2E	CFM/SIDE THROW, FT.	253 84 18-22-31 13-15-20	338 112 21-25-35 14-17-22	421 141 24-28-41 15-20-25	506 169 25-31-45 17-21-27	591 197 27-32-48 18-22-31	675 225 29-35-50 20-24-31	759 253 31-39-53 21-25-34
	1A 1B	CFM/SIDE THROW, FT.	337 20-24-34	450 22-27-39	562 25-31-45	675 27-32-48	788 29-35-50	900 31-36-55	1012 34-41-57
	RETURN FACTORS —SP=2.5 TP NC + 4	CFM NC	395 —	525 19	655 25	785 31	915 36	1050 38	1180 42
	4B 4C	CFM/SIDE THROW, FT.	154 42 16-19-26 6-8-13	206 56 18-22-30 8-10-14	258 70 21-25-34 10-12-16	309 84 22-29-38 10-13-17	360 98 23-29-40 12-13-18	413 112 25-31-43 12-14-19	464 126 29-32-45 13-16-21
21 x 9 1.125 SQ. FT.	4E	CFM/SIDE THROW, FT.	98 98 13-16-22 13-16-22	131 131 14-18-25 14-18-25	163 163 16-21-29 16-21-29	196 196 17-22-30 17-22-30	229 229 18-23-32 18-23-32	261 261 19-25-34 19-25-34	294 294 21-29-38 21-29-38
	3A1	CFM/SIDE THROW, FT.	175 42 16-19-26 6-8-13	234 56 18-22-30 8-10-14	292 70 21-25-34 10-12-16	351 84 22-29-38 10-13-17	410 98 23-29-40 12-13-18	468 112 25-31-43 12-14-19	527 126 29-32-45 13-16-21
	2A 2B	CFM/SIDE THROW, FT.	196 16-19-26	262 18-22-30	327 21-25-34	393 22-27-38	458 23-29-40	525 25-31-43	590 29-32-45
	2C 2E	CFM/SIDE THROW, FT.	308 84 20-24-34 13-15-20	412 112 22-27-39 14-17-22	514 141 25-31-45 15-20-25	617 169 27-32-48 17-21-27	720 197 31-35-50 18-22-29	825 225 31-36-55 20-24-31	927 253 34-41-57 21-25-34
	1A 1B	CFM/SIDE THROW, FT.	393 21-25-35	524 24-31-42	655 27-34-48	786 29-36-50	917 31-39-55	1050 34-42-59	1180 35-45-62
	RETURN FACTORS —SP=2.9 TP NC + 4	CFM NC	450 —	600 19	750 25	900 31	1050 36	1200 38	1350 43
	4B 4C	CFM/SIDE THROW, FT.	183 42 17-21-28 7-8-14	244 56 20-24-32 8-11-15	305 70 22-27-36 11-13-17	366 84 24-29-41 11-14-18	427 98 25-31-43 13-14-20	488 112 27-34-46 13-15-21	549 126 31-35-49 14-17-22
	4E	CFM/SIDE THROW, FT.	126 99 15-18-25 14-17-24	169 132 18-21-31 15-20-27	211 164 21-24-34 17-22-31	253 197 22-25-36 18-24-32	295 230 24-27-39 20-25-35	337 263 25-31-42 21-27-36	379 296 27-31-45 22-31-41
	3A1	CFM/SIDE THROW, FT.	204 42 17-21-28 7-8-14	272 56 20-24-32 8-11-15	340 70 22-27-36 11-13-17	408 84 24-29-41 11-14-18	476 98 25-31-43 13-14-20	544 112 27-34-46 13-15-21	612 126 31-35-49 14-17-22
	2A 2B	CFM/SIDE THROW, FT.	225 18-22-31	300 21-25-35	375 24-28-41	450 25-31-45	525 27-32-48	600 29-35-50	675 31-39-53
24 x 9 1.5 SQ. FT.	2C 2E	CFM/SIDE THROW, FT.	365 84 21-25-35 13-15-20	488 112 24-31-42 14-17-22	609 141 27-34-48 15-20-25	731 169 29-36-50 17-21-27	853 197 31-39-55 18-22-29	975 225 34-42-59 20-24-31	1097 253 35-45-62 21-25-34
	1A 1B	CFM/SIDE THROW, FT.	450 21-25-35	600 24-31-42	750 27-34-48	900 29-36-50	1050 31-39-55	1200 34-42-59	1350 35-45-62

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
30 x 9 1.875 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 5	CFM NC	560 —	750 20	935 26	1125 32	1310 37	1500 39	1685 44
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	238 42 18-22-31 7-8-14	319 56 21-25-35 8-11-15	398 70 24-28-41 11-13-17	478 84 25-31-45 11-14-18	557 98 27-32-48 13-14-20	638 112 29-35-50 13-15-21	716 126 31-39-53 14-17-22
	3A1	CFM/SIDE THROW, FT.	155 126 17-21-28 15-18-25	206 169 20-24-32 18-21-31	258 211 22-27-36 21-24-34	310 253 24-31-41 22-25-36	361 295 25-31-42 24-27-39	413 337 27-34-46 25-29-42	465 379 31-35-49 27-31-45
	2A 2B	CFM/SIDE THROW, FT.	259 42 18-22-31 7-8-14	347 56 21-25-35 8-11-15	433 70 24-28-41 11-13-17	520 84 25-31-45 11-14-18	606 98 27-32-48 13-14-20	694 112 29-35-50 13-15-21	779 126 31-39-53 14-17-22
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	281 20-24-34	375 22-27-39	468 25-31-45	562 27-32-48	655 29-35-50	750 31-36-55	842 34-41-57
	1A 1B	CFM/SIDE THROW, FT.	476 84 22-27-39 13-15-20	638 112 25-31-45 14-17-22	796 141 28-35-50 15-20-25	956 169 31-39-55 17-21-27	1113 197 32-42-59 18-22-31	1275 225 35-45-62 20-24-31	1432 253 39-48-66 21-25-34
36 x 9 2.25 SQ. FT.	RETURN FACTORS —SP=5.0 TP NC + 6	CFM NC	675 —	900 21	1125 27	1350 33	1575 38	1800 40	2025 44
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	295 42 20-24-34 7-8-14	394 56 22-27-39 8-11-15	492 70 25-31-45 11-13-17	591 84 27-32-48 11-14-18	689 98 29-35-50 13-14-20	788 112 31-36-55 13-15-21	886 126 34-41-57 14-17-22
	3A1	CFM/SIDE THROW, FT.	183 155 17-21-28 17-21-28	244 206 20-24-32 20-24-32	305 258 22-27-36 22-27-36	366 310 24-31-41 24-31-41	427 361 25-31-42 25-31-42	488 413 27-34-46 27-34-46	549 465 31-35-49 31-35-49
	2A 2B	CFM/SIDE THROW, FT.	316 42 20-24-34 7-8-14	422 56 22-27-39 8-11-15	527 70 25-31-45 11-13-17	633 84 27-32-48 11-14-18	738 98 29-35-50 13-14-20	844 112 31-36-55 13-15-21	949 126 34-41-57 14-17-22
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	337 20-24-34	450 22-27-39	562 25-31-45	675 27-32-48	787 29-35-50	900 31-36-55	1012 34-41-57
	1A 1B	CFM/SIDE THROW, FT.	590 84 24-31-42 13-15-20	788 112 28-34-48 14-17-22	984 141 32-39-55 15-20-25	1181 169 34-42-57 17-21-27	1378 197 36-45-62 18-22-29	1575 225 41-49-66 20-24-31	1772 253 43-52-70 21-25-34
15 x 12 1.25 SQ. FT.	RETURN FACTORS —SP=1.6 TP NC + 2	CFM NC	375 —	500 19	625 25	750 30	875 34	1000 38	1125 41
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	3A1	CFM/SIDE THROW, FT.	112 75 13-15-21 8-13-15	150 100 14-17-24 11-14-18	187 125 15-20-27 13-15-21	225 150 17-21-29 14-17-22	262 175 18-22-31 14-18-24	300 200 20-24-34 15-20-25	337 225 21-25-35 17-21-27
	3A2	CFM/SIDE THROW, FT.	150 75 15-18-25 8-13-15	200 100 18-21-31 11-14-18	250 125 21-24-34 13-15-21	300 150 22-25-36 14-17-22	350 175 24-27-39 14-18-24	400 200 25-29-42 15-20-25	450 225 27-31-45 17-21-27
	2A 2B	CFM/SIDE THROW, FT.	117 129 11-14-18 14-15-22	156 172 13-15-21 15-18-25	195 215 14-17-24 17-21-28	234 258 15-18-25 18-22-31	273 301 17-20-27 20-24-32	312 344 17-21-29 21-25-35	351 387 18-22-31 22-27-39
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	187 17-21-28	250 20-24-32	312 22-27-36	375 24-29-41	437 25-31-43	500 27-34-46	567 31-35-49
	1A 1B	CFM/SIDE THROW, FT.	225 150 18-22-31 14-17-24	300 200 21-25-35 15-20-27	375 250 24-28-41 17-22-31	450 300 25-31-45 18-24-32	525 350 27-32-48 20-25-35	600 400 31-35-50 21-27-36	675 450 31-39-53 22-31-41

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
18 x 12 1.5 SQ. FT.	RETURN FACTORS —SP=1.9 TP NC + 3	CFM NC	450 —	600 20	750 26	900 31	1050 35	1200 39	1350 42
	 	CFM/SIDE THROW, FT.	150 75 15-18-25 8-13-15	200 100 18-21-31 11-14-18	250 125 21-24-34 13-15-21	300 150 22-25-36 14-17-22	350 175 24-27-39 14-18-24	400 200 25-31-42 15-20-25	450 225 27-31-45 17-21-27
		CFM/SIDE THROW, FT.	187 75 17-21-28 8-13-15	250 100 20-24-32 11-14-18	312 125 22-27-36 13-15-21	375 150 24-31-41 14-17-22	437 175 25-31-43 14-18-24	500 200 27-34-46 15-20-25	562 225 31-35-49 17-21-27
		CFM/SIDE THROW, FT.	168 141 14-17-24 13-15-21	225 187 15-20-27 14-17-24	281 234 17-22-31 15-20-27	337 281 18-24-32 17-21-31	394 328 20-25-35 18-22-31	450 375 21-27-36 20-24-34	506 422 22-31-41 21-25-35
	 	CFM/SIDE THROW, FT.	225 18-22-31	300 21-25-35	375 24-28-41	450 25-31-45	525 27-32-48	600 29-35-50	675 31-39-53
	   	CFM/SIDE THROW, FT.	300 150 20-24-34 14-17-24	400 200 22-27-39 15-20-27	500 250 25-31-45 17-22-31	600 300 27-32-48 18-24-32	700 350 29-35-50 20-25-35	800 400 31-36-55 21-27-36	900 450 34-41-57 22-31-41
	 	CFM/SIDE THROW, FT.	450 21-25-35	600 24-31-42	750 27-34-48	900 29-36-50	1050 31-39-55	1200 34-42-59	1350 35-45-62
21 x 12 1.75 SQ. FT.	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	525 —	700 20	875 26	1050 31	1225 35	1400 39	1575 42
	 	CFM/SIDE THROW, FT.	187 75 17-21-28 8-13-15	250 100 20-24-32 11-14-18	312 125 22-27-36 13-15-21	375 150 24-31-41 14-17-22	437 175 25-32-43 14-18-24	500 200 27-34-46 15-20-25	562 225 31-35-49 17-21-27
		CFM/SIDE THROW, FT.	150 112 15-18-25	200 150 18-21-31 15-18-25	250 187 21-24-34	300 225 22-25-36	350 262 24-27-39	400 300 25-31-42 22-25-36	450 337 27-31-45
		CFM/SIDE THROW, FT.	225 75 18-22-31 8-13-15	300 100 21-25-35 11-14-18	375 125 24-28-41 13-15-21	450 150 25-31-45 14-17-22	525 175 27-32-48 14-18-24	600 200 29-35-50 15-20-25	675 225 31-39-53 17-21-27
		CFM/SIDE THROW, FT.	230 148 14-17-24 13-15-21	306 197 15-20-27 14-17-24	382 246 17-22-31 15-20-27	460 295 18-24-32 17-21-31	535 345 20-25-35 18-22-31	612 394 21-27-36 20-24-34	688 443 22-31-41 21-25-35
	 	CFM/SIDE THROW, FT.	262 18-22-31	350 21-25-35	437 24-28-41	525 25-31-45	612 27-32-48	700 29-35-50	787 31-39-53
	   	CFM/SIDE THROW, FT.	375 150 21-25-35 14-17-24	500 200 24-31-42 15-20-27	625 250 27-34-48 17-22-31	750 300 29-36-50 18-24-32	875 350 31-39-55 20-25-35	1000 400 34-42-59 21-27-36	1125 450 35-45-62 22-31-41
	 	CFM/SIDE THROW, FT.	525 22-27-39	700 25-31-45	875 28-35-50	1050 31-39-55	1225 32-42-59	1400 35-45-62	1575 39-48-66
24 x 12 2.0 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 5	CFM NC	600 12	800 21	1000 27	1200 32	1400 36	1600 40	1800 43
	 	CFM/SIDE THROW, FT.	225 75 18-22-31 8-13-15	300 100 21-25-35 11-14-18	375 125 24-28-41 13-15-21	450 150 25-31-45 14-17-22	525 175 27-32-48 14-18-24	600 200 31-35-50 15-20-25	675 225 31-39-53 17-21-27
		CFM/SIDE THROW, FT.	150 150 15-18-25 15-18-25	200 200 18-21-31 18-21-31	250 250 21-24-34 21-24-34	300 300 22-25-36 22-25-36	350 350 24-27-39 24-27-39	400 400 25-31-42 25-31-42	450 450 27-31-45 27-31-45
		CFM/SIDE THROW, FT.	262 75 18-22-31 8-13-15	350 100 21-25-35 11-14-18	437 175 24-28-41 13-15-21	525 150 25-31-45 14-17-22	612 175 27-32-48 14-18-24	700 200 29-35-50 15-20-25	787 225 31-39-53 17-21-27
		CFM/SIDE THROW, FT.	300 150 15-18-25 14-17-24	400 200 18-21-31 15-20-27	500 250 21-24-34 17-22-31	600 300 22-25-36 18-24-32	700 350 24-27-39 20-25-35	800 400 25-31-42 21-27-36	900 450 27-31-45 22-31-41
	 	CFM/SIDE THROW, FT.	300 20-24-34	400 22-27-39	500 25-31-45	600 27-32-48	700 29-35-50	800 31-36-55	900 34-41-57
	   	CFM/SIDE THROW, FT.	450 150 21-25-35 14-17-24	600 200 24-31-42 15-20-27	750 250 27-34-48 17-22-31	900 300 29-36-50 18-24-32	1050 350 31-39-55 20-25-35	1200 400 34-42-59 21-27-36	1350 450 35-45-62 22-31-41
	 	CFM/SIDE THROW, FT.	600 24-31-42	800 28-34-48	1000 32-39-55	1200 34-42-57	1400 36-45-62	1600 41-49-66	1800 43-52-70

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
30 x 12 2.5 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 6	CFM NC	750 15	1000 23	1250 29	1500 33	1750 37	2000 41	2250 43
	4B 4C	CFM/SIDE THROW, FT.	A B 300 75 20-24-34 8-13-15	A B 400 100 22-27-39 11-14-18	A B 500 125 25-31-45 13-15-21	A B 600 150 27-32-48 14-17-22	A B 700 175 29-35-50 14-18-24	A B 800 200 31-36-55 15-20-25	A B 900 225 34-41-57 17-21-27
	4E	CFM/SIDE THROW, FT.	183 183 17-21-28 17-21-28	250 250 20-24-32 20-24-32	313 313 22-27-36 22-27-36	375 375 24-31-41 24-31-41	437 437 25-31-43 25-31-43	500 500 27-34-46 27-34-46	562 562 31-35-49 31-35-49
	3A1	CFM/SIDE THROW, FT.	337 75 20-24-34 8-13-15	450 100 22-27-39 11-14-18	562 125 25-31-45 13-15-21	675 150 27-32-48 14-17-22	787 175 29-35-50 14-18-24	900 200 31-36-55 15-20-25	1012 225 34-41-57 17-21-27
	2A 2B	CFM/SIDE THROW, FT.	375 21-25-35	500 24-31-42	625 27-34-48	750 29-36-50	875 31-39-55	1000 34-42-59	1125 35-45-62
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	600 150 24-31-41 14-17-24	800 200 28-34-48 15-20-27	1000 250 32-39-55 17-22-31	1200 300 34-42-57 18-24-32	1400 350 36-45-62 20-25-35	1600 400 41-49-66 21-27-36	1800 450 43-52-70 22-31-41
	1A 1B	CFM/SIDE THROW, FT.	750 25-31-45	1000 31-35-50	1250 34-41-57	1500 36-45-62	1750 39-48-66	2000 42-50-70	2250 45-53-74
	RETURN FACTORS —SP=4.0 TP NC + 7	CFM NC	900 16	1200 25	1500 30	1800 34	2100 38	2400 42	2700 44
	4B 4C	CFM/SIDE THROW, FT.	A B 375 75 21-25-35 8-13-15	A B 500 100 24-31-42 11-14-18	A B 625 125 27-34-48 13-15-21	A B 750 150 29-36-50 14-17-22	A B 875 175 31-39-55 14-18-24	A B 1000 200 34-42-59 15-20-25	A B 1125 225 35-45-62 17-21-27
	4E	CFM/SIDE THROW, FT.	225 225 18-22-31 18-22-31	300 300 21-25-35 21-25-35	375 375 24-28-41 24-28-41	450 450 25-31-45 25-31-45	525 525 27-32-48 27-32-48	600 600 29-35-50 29-35-50	675 675 31-39-53 31-39-53
36 x 12 3.0 SQ. FT.	3A1	CFM/SIDE THROW, FT.	412 75 21-25-35 8-13-15	550 100 24-31-42 11-14-18	687 125 27-34-48 13-15-21	825 150 29-36-50 14-17-22	962 175 31-39-55 14-18-24	1100 200 34-42-59 15-20-25	1237 225 35-45-62 17-21-27
	2A 2B	CFM/SIDE THROW, FT.	450 21-25-35	600 24-31-42	750 27-34-48	900 29-36-50	1050 31-39-55	1200 34-42-59	1350 35-45-62
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	750 150 25-31-45 14-17-24	1000 200 31-35-50 15-20-27	1250 250 34-41-57 17-22-31	1500 300 36-45-62 18-24-32	1750 350 39-48-66 20-25-35	2000 400 42-50-70 21-27-36	2250 450 45-53-74 22-31-41
	1A 1B	CFM/SIDE THROW, FT.	900 27-34-46	1200 31-39-53	1500 35-45-60	1800 39-48-64	2100 42-50-70	2400 45-55-74	2700 48-57-80
	RETURN FACTORS —SP=2.0 TP NC + 4	CFM NC	560 14	750 21	935 28	1125 32	1310 36	1500 39	1685 43
	4B 4C	CFM/SIDE THROW, FT.	A B 164 117 14-17-24 11-14-18	A B 219 156 15-20-27 13-15-21	A B 273 195 17-22-31 14-17-24	A B 328 234 18-24-32 15-18-25	A B 383 273 20-25-35 17-20-27	A B 438 312 21-27-36 17-21-31	A B 492 351 22-31-41 18-22-31
	3A1	CFM/SIDE THROW, FT.	222 117 18-22-31 11-14-18	297 156 21-25-35 13-15-21	371 195 24-28-41 14-17-24	445 234 25-31-45 15-18-25	519 273 31-39-55 17-20-27	594 312 31-35-50 17-21-31	668 351 31-39-53 18-22-31
	3A2	CFM/SIDE THROW, FT.	168 197 13-16-22 18-22-30	225 262 15-18-25 21-25-34	281 328 16-21-28 24-28-39	337 394 18-22-33 25-33-43	394 459 19-24-33 27-33-46	450 525 21-25-36 28-36-49	506 590 22-27-37 33-37-52
	2A 2B	CFM/SIDE THROW, FT.	281 20-24-34	375 22-27-39	468 25-31-45	562 27-32-48	656 29-35-50	750 31-36-55	843 34-41-57
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	329 234 25-33-45 18-22-30	438 312 30-36-51 21-25-34	547 390 34-42-58 24-28-39	657 468 36-45-61 25-31-43	766 546 39-48-66 27-33-46	876 624 43-52-70 28-36-49	985 702 46-55-75 33-37-52
	1A 1B	CFM/SIDE THROW, FT.	562 24-28-42	750 27-33-48	937 30-37-54	1125 33-42-58	1312 34-45-63	1500 37-48-66	1687 42-51-70

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
21 x 15 2.185 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 5	CFM NC	655 14	875 21	1090 28	1310 33	1530 36	1750 39	1970 43
	 4B  4C	CFM/SIDE THROW, FT.	210 117 19-24-33 12-15-19	281 156 22-27-37 13-16-22	361 195 25-30-43 15-18-25	422 234 27-33-48 16-19-27	493 273 28-34-51 18-21-28	563 312 33-37-54 18-22-33	634 351 33-42-57 19-24-33
	 4E	CFM/SIDE THROW, FT.	164 164 18-22-30 18-22-30	218 218 21-25-36 21-25-36	273 273 24-28-39 24-28-39	327 327 25-31-43 25-31-43	382 382 27-33-46 27-33-46	437 437 28-36-49 28-36-49	491 491 33-37-52 33-37-52
	 3A1	CFM/SIDE THROW, FT.	269 117 19-24-33 12-15-19	359 156 22-27-37 13-16-22	448 195 25-30-43 15-18-25	539 234 27-33-48 16-19-27	629 273 28-34-51 18-21-28	719 312 33-37-54 18-22-33	809 351 33-42-57 19-24-33
	 3A2	CFM/SIDE THROW, FT.	230 213 16-19-27 15-18-25	306 284 19-22-33 16-21-28	382 355 22-25-36 18-24-33	460 426 24-27-39 19-25-34	535 498 25-28-42 21-27-37	612 569 27-31-45 22-28-39	688 641 28-33-48 24-33-43
	 2A	CFM/SIDE THROW, FT.	327 21-25-36	437 24-28-42	596 27-33-48	656 28-34-51	766 31-37-54	875 33-39-58	985 36-43-61
	 2B	CFM/SIDE THROW, FT.	422 234 22-27-37 18-22-30	563 312 25-33-45 21-25-34	702 390 28-36-51 24-28-39	844 468 29-39-54 25-33-43	966 546 33-42-58 27-33-46	1126 624 36-45-63 28-36-49	1268 702 37-48-66 33-37-52
	 2C  2E	CFM/SIDE THROW, FT.	422 234 22-27-37 18-22-30	563 312 25-33-45 21-25-34	702 390 28-36-51 24-28-39	844 468 29-39-54 25-33-43	966 546 33-42-58 27-33-46	1126 624 36-45-63 28-36-49	1268 702 37-48-66 33-37-52
	 1A	CFM/SIDE THROW, FT.	655 25-33-45	875 30-36-51	1092 33-42-58	1312 36-45-61	1532 39-48-66	1750 43-52-70	1970 46-55-75
	 1B	CFM/SIDE THROW, FT.	655 25-33-45	875 30-36-51	1092 33-42-58	1312 36-45-61	1532 39-48-66	1750 43-52-70	1970 46-55-75
24 x 15 2.5 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 6	CFM NC	750 14	1000 22	1250 29	1500 34	1750 37	2000 39	2250 44
	 4B  4C	CFM/SIDE THROW, FT.	258 117 19-24-33 12-15-19	344 156 22-27-37 13-16-22	430 195 25-30-43 15-18-25	516 234 27-33-48 16-19-27	602 273 28-34-51 18-21-28	688 312 31-37-54 18-22-31	774 351 33-42-57 19-24-33
	 4E	CFM/SIDE THROW, FT.	164 211 18-22-30 19-24-33	218 281 21-25-36 22-27-37	273 352 24-28-39 25-30-43	327 422 25-31-43 27-33-48	382 492 27-33-46 28-34-51	437 563 28-36-49 33-37-54	491 633 33-37-52 33-42-57
	 3A1	CFM/SIDE THROW, FT.	316 117 21-25-36 12-15-19	422 156 24-28-42 13-16-22	527 195 27-33-48 15-18-25	633 234 28-34-51 16-19-27	738 273 31-37-54 18-21-28	844 312 33-39-58 18-22-31	949 351 36-43-61 19-24-33
	 3A2	CFM/SIDE THROW, FT.	300 225 19-24-33 16-19-27	400 300 22-27-37 19-22-33	500 375 25-30-43 22-25-36	600 450 27-33-48 24-27-39	700 525 28-34-51 25-28-42	800 600 31-37-54 27-33-45	900 675 33-42-57 28-33-48
	 2A	CFM/SIDE THROW, FT.	375 22-27-37	500 25-33-45	625 28-36-51	750 31-39-54	875 33-42-58	1000 36-45-63	1125 37-48-66
	 2B	CFM/SIDE THROW, FT.	375 22-27-37	500 25-33-45	625 28-36-51	750 31-39-54	875 33-42-58	1000 36-45-63	1125 37-48-66
	 2C  2E	CFM/SIDE THROW, FT.	516 234 24-28-42 18-22-30	688 312 27-33-48 21-25-34	860 390 30-37-54 24-28-39	1032 468 33-42-58 25-31-43	1204 546 34-45-63 27-33-46	1376 624 37-48-66 28-36-49	1548 702 42-51-70 33-37-52
	 1A	CFM/SIDE THROW, FT.	750 27-33-48	1000 33-37-54	1250 36-43-61	1500 39-48-66	1750 41-51-70	2000 45-54-75	2250 48-57-79
	 1B	CFM/SIDE THROW, FT.	750 27-33-48	1000 33-37-54	1250 36-43-61	1500 39-48-66	1750 41-51-70	2000 45-54-75	2250 48-57-79
	 1B	CFM/SIDE THROW, FT.	750 27-33-48	1000 33-37-54	1250 36-43-61	1500 39-48-66	1750 41-51-70	2000 45-54-75	2250 48-57-79
30 x 15 3.125 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	935 14	1250 23	1565 30	1875 36	2190 39	2500 40	2810 45
	 4B  4C	CFM/SIDE THROW, FT.	351 117 20-24-34 11-14-18	469 156 22-27-39 13-15-21	587 195 25-31-45 14-17-24	703 234 27-32-48 15-18-25	822 273 29-35-50 17-20-27	938 312 31-36-55 17-21-29	1054 351 34-41-57 18-22-31
	 4E	CFM/SIDE THROW, FT.	258 211 18-22-31 18-22-31	344 281 21-25-31 21-25-35	430 352 24-28-41 24-28-41	516 422 25-31-45 25-31-45	602 492 27-32-48 27-32-48	688 583 31-35-50 31-35-50	775 633 31-39-53 31-39-53
	 3A1	CFM/SIDE THROW, FT.	410 117 21-25-35 11-14-18	547 156 24-31-42 13-15-21	685 195 27-34-48 14-17-24	820 234 29-36-50 15-18-25	958 273 31-39-55 17-20-27	1094 312 34-42-59 17-21-29	1224 351 35-45-62 18-22-31
	 3B	CFM/SIDE THROW, FT.	468 234 24-30-40 18-22-30	625 312 28-34-46 21-25-34	782 391 32-38-52 24-28-39	937 469 34-44-58 25-33-43	1095 547 36-44-62 27-33-46	1250 625 38-48-66 28-36-49	1406 702 44-50-70 33-37-52
	 2A	CFM/SIDE THROW, FT.	468 22-27-39	625 25-31-45	782 28-35-50	937 31-39-55	1095 32-42-59	1250 35-45-62	1405 39-48-66
	 2B	CFM/SIDE THROW, FT.	468 22-27-39	625 25-31-45	782 28-35-50	937 31-39-55	1095 32-42-59	1250 35-45-62	1405 39-48-66
	 2C  2E	CFM/SIDE THROW, FT.	702 234 25-33-45 18-22-30	938 312 30-36-51 21-25-34	1175 390 34-42-58 24-28-39	1407 468 36-45-61 25-33-43	1644 546 39-48-66 27-33-46	1876 624 43-52-70 28-36-49	2108 702 51-55-75 33-37-52
	 1A	CFM/SIDE THROW, FT.	937 28-36-49	1250 33-42-57	1565 37-48-64	1875 42-51-69	2190 45-54-75	2500 48-58-79	2810 51-61-85
	 1B	CFM/SIDE THROW, FT.	937 28-36-49	1250 33-42-57	1565 37-48-64	1875 42-51-69	2190 45-54-75	2500 48-58-79	2810 51-61-85
	 1B	CFM/SIDE THROW, FT.	937 28-36-49	1250 33-42-57	1565 37-48-64	1875 42-51-69	2190 45-54-75	2500 48-58-79	2810 51-61-85

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
	RETURN FACTORS —SP=3.8 TP NC + 7	CFM NC	1125 13	1500 23	1875 31	2250 37	2625 40	3000 41	3375 46
			A B	A B	A B	A B	A B	A B	A B
36 x 15 3.75 SQ. FT.	4B 4C	CFM/SIDE THROW, FT.	446 117 22-27-37 12-15-19	594 156 25-33-45 13-16-22	742 195 28-36-51 15-18-25	891 234 33-39-54 16-19-27	1039 273 33-45-58 18-21-28	1188 312 36-45-63 18-22-30	1336 351 37-48-66 19-24-33
	4E	CFM/SIDE THROW, FT.	306 258 21-25-36 19-24-33	408 344 24-28-42 22-27-37	510 430 27-33-48 25-30-43	612 516 28-34-51 27-33-48	714 602 33-37-54 28-34-51	816 688 33-39-58 33-37-54	918 775 36-43-61 33-42-57
	3A1	CFM/SIDE THROW, FT.	504 117 24-28-42 12-15-19	672 156 27-33-48 13-16-22	840 195 30-37-54 15-18-25	1008 234 33-45-58 16-19-27	1176 273 34-45-63 18-21-28	1344 312 37-48-66 18-22-30	1512 351 42-51-70 19-24-33
	2A 2B	CFM/SIDE THROW, FT.	562 24-28-42	750 27-33-48	937 30-37-54	1125 33-42-58	1312 34-45-63	1500 37-48-66	1682 42-51-70
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	890 234 28-36-49 18-22-30	1188 312 33-42-49 21-25-34	1485 390 37-48-64 24-28-39	1782 468 42-51-69 25-33-43	2079 546 45-54-75 27-33-46	2376 624 48-58-79 28-36-49	2873 702 51-61-85 33-37-52
	1A 1B	CFM/SIDE THROW, FT.	1125 30-37-52	1500 34-43-60	1875 39-48-67	2250 42-52-73	2625 46-57-78	3000 49-60-85	3375 52-64-90
	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	785 14	1050 21	1310 27	1575 32	1840 36	2100 40	2360 43
			A B	A B	A B	A B	A B	A B	A B
21 x 18 2.625 SQ. FT.	4B 4C	CFM/SIDE THROW, FT.	225 169 16-19-27 13-16-22	300 225 19-22-33 15-18-25	375 280 22-25-36 16-21-28	450 337 24-27-40 18-22-30	526 394 25-28-42 19-24-33	600 450 27-33-45 21-25-36	674 506 28-33-48 22-27-37
	3A1	CFM/SIDE THROW, FT.	309 169 21-25-36 13-16-22	412 225 24-28-42 15-18-25	514 281 27-33-48 16-21-28	619 337 28-34-51 18-22-30	723 394 33-37-54 19-24-33	825 450 33-39-58 21-25-36	927 506 36-43-61 22-27-37
	3A2	CFM/SIDE THROW, FT.	279 230 21-25-36 15-18-25	372 306 24-28-42 16-21-28	464 382 27-33-48 18-24-33	557 460 28-34-51 19-25-34	652 535 33-37-54 21-27-37	744 612 33-39-58 22-28-39	836 688 36-43-61 24-33-43
	2A 2B	CFM/SIDE THROW, FT.	393 22-27-37	525 25-33-42	655 28-36-46	787 30-39-54	920 33-42-58	1050 36-45-63	1180 37-48-66
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	450 338 22-27-37 19-24-33	600 450 25-33-42 22-27-37	750 560 28-36-46 25-30-43	900 675 30-39-54 27-33-48	1060 790 33-42-58 28-34-51	1200 900 36-45-63 33-37-54	1350 1010 37-48-66 33-42-57
	1A 1B	CFM/SIDE THROW, FT.	787 29-35-51	1050 35-40-58	1310 38-46-66	1575 42-51-70	1840 45-54-75	2100 48-58-80	2360 51-61-85
	RETURN FACTORS —SP=2.5 TP NC + 6	CFM NC	900 15	1200 22	1500 28	1800 33	2100 37	2400 40	2700 43
			A B	A B	A B	A B	A B	A B	A B
24 x 18 3.0 SQ. FT.	4B 4C	CFM/SIDE THROW, FT.	281 169 22-27-38 14-18-24	375 225 26-30-45 16-19-27	469 281 29-35-51 18-22-30	563 337 30-37-54 19-24-33	656 394 33-40-58 21-26-35	750 450 35-42-62 22-27-38	844 506 38-46-66 24-29-40
	4E	CFM/SIDE THROW, FT.	225 225 21-26-35 21-26-35	300 300 24-29-40 24-29-40	375 375 27-32-46 27-32-46	450 450 29-35-51 29-35-51	525 525 30-37-54 30-37-54	600 600 33-40-58 33-40-58	675 675 35-45-61 35-45-61
	3A1	CFM/SIDE THROW, FT.	366 169 24-29-40 14-18-24	487 225 27-35-48 16-19-27	609 281 30-38-54 18-22-30	731 337 35-42-58 19-24-33	853 394 35-45-62 21-26-35	975 450 38-48-67 22-27-38	1098 506 40-51-70 24-29-40
	3A2	CFM/SIDE THROW, FT.	300 300 25-31-43 20-23-32	400 400 29-34-50 23-27-40	500 500 32-40-58 27-31-43	600 600 34-41-61 29-32-47	700 700 40-45-65 31-34-50	800 800 40-47-70 32-40-54	900 900 43-52-74 34-40-58
	2A 2B	CFM/SIDE THROW, FT.	450 24-29-40	600 27-35-48	750 30-38-54	900 35-42-58	1050 35-45-62	1200 38-48-67	1350 40-51-70
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	562 338 26-30-45 21-26-35	750 450 29-35-51 24-29-40	938 562 32-40-58 27-32-46	1125 675 35-45-62 29-35-51	1313 787 37-48-67 30-37-54	1500 900 40-51-70 33-40-58	1688 1012 45-54-75 35-45-61
	1A 1B	CFM/SIDE THROW, FT.	900 30-38-53	1200 35-45-61	1500 40-51-69	1800 45-54-74	2100 48-58-80	2400 51-62-85	2700 54-66-91

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
30 x 18 3.75 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	1125 15	1500 23	1875 29	2250 34	2625 38	3000 42	3375 45
	4B 4C	CFM/SIDE THROW, FT.	394 169 24-29-40 14-18-24	525 225 27-35-48 16-19-27	657 281 30-38-54 18-22-30	788 337 35-42-58 19-24-35	918 394 35-45-62 21-26-35	1050 450 38-48-67 22-27-38	1181 506 40-51-70 24-29-40
	4E	CFM/SIDE THROW, FT.	281 281 22-27-38 22-27-38	375 375 26-30-45 26-30-45	469 469 29-35-51 29-35-51	563 563 30-37-54 30-37-54	657 657 32-40-58 32-40-58	750 750 35-42-62 35-42-62	845 845 38-46-66 38-46-66
	3A1	CFM/SIDE THROW, FT.	478 169 26-30-45 14-18-24	637 225 29-35-51 16-19-27	797 281 32-40-58 18-22-30	956 337 35-45-62 19-24-35	1115 394 37-48-67 21-26-35	1275 450 40-51-70 22-27-38	1434 506 45-54-75 24-29-40
	3A2	CFM/SIDE THROW, FT.	469 327 22-27-38 19-24-32	625 437 26-30-45 22-27-37	782 546 29-35-51 26-30-42	937 656 30-37-54 27-35-46	1093 766 32-40-58 29-35-50	1250 875 35-42-62 30-38-53	1406 984 38-46-66 35-40-56
	2A 2B	CFM/SIDE THROW, FT.	562 26-30-45	750 29-35-51	937 32-40-58	1125 35-45-62	1312 37-48-67	1500 40-51-70	1687 45-54-75
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	787 337 29-35-51 21-26-35	1050 450 35-40-58 24-29-40	1313 562 38-46-66 27-32-46	1575 675 42-51-70 29-35-51	1838 787 45-54-75 30-37-54	2100 900 48-58-80 33-40-58	2363 1012 51-61-85 35-45-61
	1A 1B	CFM/SIDE THROW, FT.	1125 32-40-56	1500 37-46-62	1875 42-53-72	2250 46-56-78	2625 50-61-83	3000 53-64-91	3375 56-69-96
	RETURN FACTORS —SP=3.6 TP NC + 8	CFM NC	1350 16	1800 24	2250 30	2700 35	3150 39	3600 42	4050 45
	4B 4C	CFM/SIDE THROW, FT.	506 169 26-30-45 14-18-24	675 225 29-35-51 16-19-27	844 281 33-40-58 18-22-30	1013 337 35-45-62 19-24-35	1181 394 37-48-67 21-26-35	1350 450 40-51-70 22-27-38	1519 506 45-54-75 24-29-40
36 x 18 4.5 SQ. FT.	4E	CFM/SIDE THROW, FT.	339 339 22-27-38 22-27-38	452 452 26-30-45 26-30-45	565 565 29-35-51 29-35-51	678 678 30-37-54 30-37-54	791 791 33-40-58 33-40-58	904 904 35-42-62 35-42-62	1020 1020 38-46-66 38-46-66
	3A1	CFM/SIDE THROW, FT.	591 169 27-35-48 14-18-24	787 225 32-38-54 16-19-27	984 281 37-45-62 18-22-30	1181 337 38-48-66 19-24-35	1378 394 42-51-70 21-26-35	1575 450 46-56-75 22-27-38	1772 506 50-59-80 24-29-40
	3B	CFM/SIDE THROW, FT.	675 337 27-35-48 21-26-35	900 450 32-38-54 24-29-40	1125 562 37-45-62 27-32-46	1350 675 38-48-66 29-35-51	1575 787 42-51-70 30-37-54	1800 900 46-56-75 33-40-58	2025 1012 50-59-80 35-45-61
	2A 2B	CFM/SIDE THROW, FT.	675 27-35-48	900 32-38-54	1125 37-45-62	1350 38-48-66	1575 42-51-70	1800 46-56-75	2025 50-59-80
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	1010 337 32-40-56 21-26-35	1350 450 37-46-64 24-29-40	1688 562 42-53-72 27-32-46	2025 675 46-56-78 29-35-51	2363 787 50-61-83 30-37-54	2700 900 53-64-91 33-40-58	3038 1012 56-69-96 35-45-61
	1A 1B	CFM/SIDE THROW, FT.	1350 35-40-59	1800 38-48-67	2250 45-54-77	2700 48-58-82	3150 51-62-90	3600 54-67-93	4050 59-70-101
	RETURN FACTORS —SP=2.1 TP NC + 7	CFM NC	1050 15	1400 22	1750 28	2100 33	2450 37	2800 41	3150 44
	4B 4C	CFM/SIDE THROW, FT.	295 230 20-25-34 17-20-29	394 306 24-29-39 19-24-32	493 382 27-32-44 20-27-37	590 460 29-37-49 22-29-39	690 535 31-37-53 24-31-42	788 612 32-41-56 25-32-44	887 688 37-42-59 27-37-49
	3A1	CFM/SIDE THROW, FT.	410 230 25-31-42 17-20-29	547 306 29-37-51 19-24-32	684 382 32-41-58 20-27-37	820 460 37-44-61 22-29-39	957 535 37-48-66 24-31-42	1094 612 41-51-71 25-32-44	1231 688 42-54-75 27-37-49
	3A2	CFM/SIDE THROW, FT.	375 300 25-31-42 19-22-31	500 400 29-37-51 22-25-37	625 500 32-41-58 25-29-41	750 600 37-44-61 27-31-44	875 700 37-48-66 29-32-48	1000 800 41-51-71 31-37-51	1125 900 42-54-75 32-37-54
24 x 21 3.5 SQ. FT.	2A 2B	CFM/SIDE THROW, FT.	525 27-32-48	700 31-37-54	875 34-42-61	1050 37-48-66	1225 39-51-71	1400 42-54-75	1575 48-58-80
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	591 459 29-37-51 24-29-41	788 612 34-41-58 27-32-48	986 764 39-48-66 31-37-54	1180 920 41-51-70 32-39-58	1380 1070 44-54-75 37-42-61	1576 1224 49-59-80 37-44-66	1774 1376 53-63-85 41-49-70
	1A 1B	CFM/SIDE THROW, FT.	1050 34-42-59	1400 39-49-68	1750 44-56-76	2100 49-59-83	2450 53-65-88	2800 56-68-87	3150 59-73-102

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
30 x 21 4.375 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1310 16	1750 23	2185 29	2625 34	3060 38	3500 41	3935 44
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	425 230 25-31-42 17-20-29	569 306 24-37-51 19-24-32	710 382 32-41-58 20-27-37	852 460 37-44-61 22-29-39	995 535 37-48-66 24-31-42	1138 612 41-51-71 25-32-44	1279 688 42-54-75 27-37-49
	3A1	CFM/SIDE THROW, FT.	360 295 24-29-41	480 394 27-32-48	600 492 31-37-54	720 591 32-39-58	840 690 37-42-61	960 788 37-44-66	1080 887 41-49-70
	3A2	CFM/SIDE THROW, FT.	540 230 27-32-48 17-20-29	722 306 31-37-54 19-24-32	901 382 34-42-61 20-27-37	1082 460 37-48-66 22-29-39	1262 535 39-51-71 24-31-42	1444 612 42-54-75 25-32-44	1623 688 48-58-80 27-37-49
	2A 2B	CFM/SIDE THROW, FT.	468 422 25-31-42 20-25-34	625 562 29-37-51 24-29-39	782 701 32-41-58 27-32-44	937 844 37-44-61 29-37-49	1093 983 37-48-66 31-37-53	1250 1125 41-51-71 32-41-56	1406 1264 42-54-75 37-42-61
	2C 2D 2E	CFM/SIDE THROW, FT.	655 29-37-51	875 34-41-58	1092 39-48-66	1312 41-51-70	1530 44-54-75	1750 49-59-80	1968 53-63-85
	1A 1B	CFM/SIDE THROW, FT.	853 457 31-37-54 24-29-41	1138 612 37-42-61 27-32-48	1421 764 41-49-70 31-37-54	1705 920 44-54-75 32-39-58	1990 1070 48-58-80 37-42-61	2276 1224 51-61-85 37-44-66	2559 1376 54-65-90 41-49-70
		CFM/SIDE THROW, FT.	1310 37-42-63	1750 41-51-71	2185 48-58-82	2625 51-61-87	3060 54-66-95	3500 58-71-99	3935 63-75-107
36 x 21 5.25 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	1575 16	2100 24	2625 30	3150 34	3675 38	4200 42	4725 45
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	558 230 27-32-48 17-20-29	744 306 31-37-54 19-24-32	930 382 34-42-61 20-27-37	1115 460 37-48-66 22-29-39	1306 535 39-51-71 24-31-42	1488 612 42-54-75 25-32-44	1674 688 48-58-80 27-37-49
	3A1	CFM/SIDE THROW, FT.	427 360 25-31-42 25-31-42	568 480 29-37-61 29-37-51	710 600 32-41-58 32-41-58	852 720 37-44-61 37-44-61	945 840 37-48-66 37-48-66	1135 960 41-51-71 41-51-71	1280 1080 42-54-75 42-54-75
	3A2	CFM/SIDE THROW, FT.	672 230 29-37-51 17-20-29	897 306 34-41-58 19-24-32	1121 382 39-48-66 20-27-37	1345 460 41-51-70 22-29-39	1570 535 44-54-75 24-31-42	1794 612 49-59-80 25-32-44	2018 688 53-63-85 27-37-49
	2A 2B	CFM/SIDE THROW, FT.	675 450 25-31-42 22-27-37	900 600 29-37-51 25-31-42	1125 750 32-41-58 29-34-49	1350 900 37-44-61 31-37-54	1575 1050 37-48-66 32-39-58	1800 1200 41-51-71 34-42-61	2025 1350 42-54-75 37-48-65
	2C 2D 2E	CFM/SIDE THROW, FT.	787 31-37-54	1050 37-42-61	1312 41-49-70	1575 44-54-75	1837 48-58-80	2100 51-61-85	2362 54-65-90
	1A 1B	CFM/SIDE THROW, FT.	1115 460 34-42-59 24-29-41	1488 612 39-49-68 27-32-48	1861 764 44-56-76 31-37-54	2230 920 49-59-83 32-39-58	2605 1070 53-65-88 37-42-61	2976 1224 56-68-97 37-44-66	3349 1376 59-73-102 41-49-70
		CFM/SIDE THROW, FT.	1575 41-51-70	2100 39-58-80	2625 54-66-90	3150 58-70-99	3675 61-75-105	4200 66-80-114	4725 70-85-122
30 x 24 5.0 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1500 17	2000 25	2500 30	3000 35	3500 39	4000 43	4500 46
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	450 300 25-31-42 19-22-31	600 400 29-37-51 22-25-37	750 500 32-41-58 25-29-41	900 600 33-44-61 27-31-44	1050 700 37-48-66 29-32-48	1200 800 41-51-71 31-37-51	1350 900 42-54-75 32-37-54
	3A1	CFM/SIDE THROW, FT.	375 375 25-31-42 25-31-42	500 500 29-37-51 29-37-51	625 625 32-41-58 32-41-58	750 750 33-44-61 37-44-61	875 875 37-48-66 37-48-66	1000 1000 41-51-71 41-51-71	1125 1125 42-54-75 42-54-75
	3A2	CFM/SIDE THROW, FT.	600 300 29-37-51 19-22-31	800 400 34-41-58 22-25-37	1000 500 39-48-66 25-29-41	1200 600 41-51-70 27-31-44	1400 700 44-54-75 29-32-48	1600 800 49-59-80 31-37-51	1800 900 53-63-85 32-37-54
	2A 2B	CFM/SIDE THROW, FT.	515 470 31-37-54 25-31-42	687 625 37-42-61 29-37-51	859 782 41-49-70 32-41-58	1031 937 44-54-75 33-44-61	1203 1093 48-58-80 37-48-66	1375 1250 51-61-85 41-51-71	1548 1406 54-65-90 42-54-75
	2C 2D 2E	CFM/SIDE THROW, FT.	750 32-41-56	1000 37-48-65	1250 42-54-73	1500 48-58-78	1750 51-61-85	2000 54-66-90	2250 58-70-97
	1A 1B	CFM/SIDE THROW, FT.	900 600 37-42-63 29-37-51	1200 800 41-51-71 34-41-58	1500 1000 48-58-82 39-48-66	1800 1200 51-61-87 41-51-70	2100 1400 54-66-85 44-54-75	2400 1600 58-71-99 49-59-80	2700 1800 63-75-107 53-63-85
		CFM/SIDE THROW, FT.	1500 38-47-67	2000 45-54-76	2500 48-61-85	3000 54-65-95	3500 58-72-99	4000 62-76-106	4500 66-79-113

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VELOCITY TP	300 .033		400 .058		500 .090		600 .130		700 .177		800 .231		900 .293	
36 x 24 6.0 SQ. FT.	RETURN FACTORS	—SP=3.3 TP NC + 8	CFM NC	1800 18		2400 25		3000 31		3600 36		4200 40		4800 43		5400 46	
	 4B	 4C	CFM/SIDE THROW, FT.	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
				29-37-51	19-22-31	34-41-58	22-25-37	39-48-66	25-29-41	41-51-70	27-31-44	44-54-75	29-32-48	49-59-80	31-37-51	53-63-85	32-37-54
	 4E		CFM/SIDE THROW, FT.	450	450	600	600	750	750	900	900	1050	1050	1200	1200	1350	1350
				25-31-42	24-31-42	29-37-51	29-37-51	32-41-58	32-41-58	35-44-61	35-44-61	37-48-66	37-48-66	41-51-71	41-51-71	42-54-75	42-54-75
	 3A1		CFM/SIDE THROW, FT.	750	300	1000	400	1250	500	1500	600	1750	700	2000	800	2250	900
				31-37-54	19-22-31	37-42-61	22-25-37	41-49-70	25-29-41	44-54-75	27-31-44	48-58-80	29-32-48	51-61-85	31-37-51	54-65-90	32-37-54
	 3A2		CFM/SIDE THROW, FT.	676	562	900	750	1125	937	1350	1125	1575	1312	1800	1500	2025	1687
			27-32-48	24-29-41	34-37-54	27-32-48	34-42-61	31-37-54	37-48-66	32-39-58	39-51-71	35-42-61	42-54-75	37-44-66	48-58-80	41-49-70	
 2A			CFM/SIDE THROW, FT.	900		1200		1500		1800		2100		2400		2700	
				32-41-56		37-48-65		42-54-73		48-58-78		51-61-85		54-66-90		58-70-97	
 2C		 2D	CFM/SIDE THROW, FT.	1200	600	1600	800	2000	1000	2400	1200	2800	1400	3200	1600	3600	1800
2E		B		37-42-63	25-31-42	41-51-71	29-37-51	48-58-82	32-41-58	51-61-87	35-44-61	54-66-95	37-48-66	58-71-99	41-51-71	63-75-107	42-54-75
 1A			CFM/SIDE THROW, FT.	1800		2400		3000		3600		4200		4800		5400	
				41-51-70		48-58-80		54-66-90		58-70-99		61-75-105		66-80-114		70-85-122	
36 x 30 7.5 SQ. FT.	RETURN FACTORS	—SP=3.4 TP NC + 8	CFM NC	2250 19		3000 26		3750 32		4500 37		5250 41		6000 44		6750 47	
	 4B	 4C	CFM/SIDE THROW, FT.	657	468	875	625	1093	782	1313	937	1532	1093	1750	1250	1969	1406
				29-37-51	20-25-34	34-41-58	24-29-39	39-48-66	27-32-44	41-51-70	29-37-49	44-54-75	31-37-53	49-59-80	32-41-56	53-63-85	37-42-59
	 3A1		CFM/SIDE THROW, FT.	890	468	1187	625	1484	782	1781	937	2078	1093	2375	1250	2672	1406
				32-41-56	20-25-34	37-48-65	24-29-39	42-54-73	27-32-44	48-58-78	29-37-49	51-61-85	31-37-53	54-66-90	32-41-56	58-70-97	37-42-59
	 3A2		CFM/SIDE THROW, FT.	787	675	1050	900	1312	1125	1575	1350	1837	1575	2100	1800	2362	2025
				31-37-54	22-27-37	37-42-61	25-31-42	41-49-70	29-34-49	44-54-75	31-37-54	48-58-80	32-39-58	51-61-85	37-42-61	54-65-90	37-48-65
	 2A		CFM/SIDE THROW, FT.	1125		1500		1875		2250		2625		3000		3375	
				34-42-59		39-49-68		44-56-76		49-59-83		53-65-88		56-68-97		59-73-102	
 2C		 2D	CFM/SIDE THROW, FT.	1312	938	1750	1250	2188	1562	2625	1875	3063	2187	3500	2500	3938	2812
2E		B		37-42-63	29-37-51	41-51-71	34-41-58	48-58-82	39-48-66	51-61-87	41-51-70	54-66-95	44-54-75	58-71-99	49-59-80	63-75-107	53-63-85
 1A			CFM/SIDE THROW, FT.	2250		3000		3750		4500		5250		6000		6750	
				48-60-82		56-68-94		64-78-106		68-82-116		72-88-124		78-94-134		82-100-144	

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

CFM - cubic feet per minute
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Neck Velocity – feet per minute

Performance Notes:

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

- Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
- Correction factors for adjustable models - see next page.
- Correction factors for round inlets - see next page.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODELS 6500 AND 6200

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.

CORRECTION FACTORS FOR MODELS 6550 AND 6250 (ADJUSTABLE PATTERN CONTROLLERS) – TABLE 2

Refer to the performance data for the **Models 6500 and 6200**. Apply the corrections from Table 2 to the data for square, 4-way core styles, as follows:

- NC = listed + correction
- Total Pressure = listed x factor
- Horizontal Throw = listed
- Vertical Throw = listed x factor

Apply the throw factor to the 50 fpm terminal velocity throw only.

Example:

18" x 18", **Model 6500**, 1350 cfm, 20°F temperature difference heating, vertical projection, (Page D23).

- NC = 31 + 6 = 37
- TP = .13 x 2.1 = .273
- Throw = 36 x .9 = 32.4 feet @ 50 fpm terminal velocity.

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 3

- Add the NC correction factor from Table 3 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 3 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 3 by the listed throws in the performance tables.

Example:

12" x 12" unit with 10" round adaptor handling 500 cfm supply air. (Page D23).

- NC = 23 + 7 = 30
- Total Pressure = .09 x 1.65 = 0.149
- Throw = 21 x 1.15 = 24.15 feet @ 50 fpm terminal velocity.

Example:

12" x 12" unit handling 600 cfm of return air. (Page D23).

- Return NC = 28 + 4 = 32.
- Return negative SP = 1.3 x (– .13) = – .169.

TABLE 2 Correction Factors 6550/6250 Adjustable

NECK SIZE	NC (add)		TOTAL PRESSURE (multiply)		VERTICAL THROW (multiply)			
					COOLING, ΔT	HEATING, ΔT		
	H	V	H	V	20°F	0°F	20°F	40°F
6 x 6	2	6	1.2	1.5	1.3	1.1	0.8	0.6
9 x 9	2	6	1.4	2.1	1.5	1.2	0.9	0.6
12 x 12	2	6	1.4	2.1	1.6	1.3	1.0	0.6
15 x 15	2	6	1.4	2.1	1.7	1.3	1.0	0.6
18 x 18	2	6	1.4	2.1	1.7	1.3	0.9	0.6
21 x 21	2	6	1.4	2.1	1.7	1.3	0.8	0.5
24 x 24	2	6	1.6	2.2	1.5	1.1	0.7	0.3

TABLE 3 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

PERFORMANCE DATA:

MODELS 6500 AND 6200 • SQUARE NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
6 x 6 .25 SQ. FT.	RETURN FACTORS —SP=1.1 TP NC + 1	CFM NC	75 —	100 10	125 17	150 22	175 26	200 31	225 35
	4A	CFM/SIDE THROW, FT.	19 4-5-8	25 4-6-10	31 6-8-10	37 6-8-11	44 8-9-12	50 8-9-12	56 9-10-13
	3A	CFM/SIDE THROW, FT.	19 28 4-5-8 5-8-11	25 38 4-6-10 6-9-12	31 47 6-8-10 8-10-14	37 56 6-8-11 8-11-15	44 66 8-9-12 9-12-16	50 75 8-9-12 9-12-17	56 85 9-10-13 10-13-18
	2S 2G	CFM/SIDE THROW, FT.	37 8-9-12	50 9-10-14	62 10-11-16	75 11-12-17	88 12-13-18	100 12-13-19	113 12-14-20
	1S	CFM/SIDE THROW, FT.	75 9-11-15	100 10-12-17	125 11-14-19	150 12-15-22	175 13-16-22	200 14-17-24	225 15-18-25
9 x 9 .56 SQ. FT.	RETURN FACTORS —SP=1.2 TP NC + 2	CFM NC	170 —	225 14	280 20	340 26	395 31	450 35	505 38
	4A	CFM/SIDE THROW, FT.	42 6-8-12	56 7-10-14	70 10-11-15	84 10-12-16	98 11-12-17	112 11-14-19	126 12-15-20
	3A	CFM/SIDE THROW, FT.	42 63 6-8-12 9-11-14	56 85 7-10-14 10-12-17	70 106 10-11-15 11-13-19	84 127 10-12-16 12-14-20	98 148 11-12-17 13-15-21	112 169 11-14-19 13-16-22	126 190 12-15-20 14-18-24
	2S 2G	CFM/SIDE THROW, FT.	84 9-10-15	112 11-13-18	141 12-15-20	169 13-16-22	197 14-17-23	225 15-18-25	253 16-19-28
	1S	CFM/SIDE THROW, FT.	169 12-15-20	225 14-17-23	282 16-19-26	338 17-22-29	394 18-22-31	450 19-24-33	507 22-25-35
12 x 12 1.0 SQ. FT.	RETURN FACTORS —SP=1.3 TP NC + 4	CFM NC	300 10	400 17	500 23	600 28	700 33	800 36	900 39
	4A	CFM/SIDE THROW, FT.	75 8-13-15	100 11-14-18	125 13-15-21	150 14-17-22	175 14-18-24	200 15-20-25	225 17-21-27
	3A	CFM/SIDE THROW, FT.	75 112 8-13-15 11-14-19	100 150 11-14-18 12-15-21	125 187 13-15-21 14-17-24	150 225 14-17-22 15-19-26	175 262 14-18-24 16-20-27	200 300 15-20-25 17-21-30	225 338 17-21-27 19-22-31
	2S 2G	CFM/SIDE THROW, FT.	150 12-15-20	200 15-17-25	250 17-19-27	300 18-20-29	350 19-21-31	400 20-25-34	450 21-25-36
	1S	CFM/SIDE THROW, FT.	300 16-20-28	400 18-22-32	500 21-25-37	600 22-26-39	700 23-28-41	800 25-29-41	900 28-33-47
15 x 15 1.56 SQ. FT.	RETURN FACTORS —SP=1.8 TP NC + 4	CFM NC	465 10	625 19	780 25	935 30	1090 33	1250 39	1400 41
	4A	CFM/SIDE THROW, FT.	117 13-16-21	156 14-18-24	195 16-19-27	234 18-21-29	273 19-22-30	312 20-24-33	350 21-26-35
	3A	CFM/SIDE THROW, FT.	117 175 13-16-21 14-17-23	156 234 14-18-24 17-19-29	195 292 16-19-27 19-22-31	234 351 18-21-29 21-23-34	273 409 19-22-30 22-25-36	312 468 19-24-35 22-29-39	350 527 21-26-35 25-29-42
	2S 2G	CFM/SIDE THROW, FT.	234 16-20-27	312 19-22-31	390 21-25-36	468 22-27-40	546 24-29-42	625 27-31-45	700 27-35-47
	1S	CFM/SIDE THROW, FT.	467 21-25-36	625 23-29-42	780 26-32-47	935 29-36-51	1090 30-39-55	1250 32-42-57	1400 36-44-61
18 x 18 2.25 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 6	CFM NC	675 12	900 21	1125 27	1350 31	1575 36	1800 39	2025 42
	4A	CFM/SIDE THROW, FT.	168 15-19-25	225 17-20-29	281 19-24-32	337 20-25-36	394 22-27-37	450 24-29-41	506 25-31-43
	3A	CFM/SIDE THROW, FT.	168 253 15-19-25 17-22-29	225 338 17-20-29 20-25-33	281 422 19-24-32 23-27-38	337 506 20-25-36 25-32-42	394 590 22-27-37 26-32-45	450 675 24-29-41 27-35-48	506 760 25-31-43 32-36-51
	2S 2G	CFM/SIDE THROW, FT.	337 19-23-32	450 22-26-38	562 24-30-43	675 26-31-46	787 30-34-49	900 30-35-53	1012 32-39-55
	1S	CFM/SIDE THROW, FT.	675 25-33-45	900 30-36-51	1125 34-42-58	1350 36-45-61	1575 39-48-66	1800 43-52-70	2025 46-55-75

For performance notes, see page D37.

PERFORMANCE DATA:

MODELS 6500 AND 6200 • SQUARE NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
21 x 21 3.06 SQ. FT.	RETURN FACTORS	—SP=2.6 TP NC + 8	CFM NC	915 14	1225 22	1530 28	1835 32	2140 37	2450 40	2750 43
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	230 18-21-30	306 19-25-34	382 21-28-39	460 23-30-41	535 25-32-44	612 26-34-46	688 28-39-51	
	 3A	CFM/SIDE THROW, FT.	230 345 15-19-26 20-25-34	306 460 17-22-29 23-28-39	382 573 19-25-34 26-31-45	460 688 20-26-36 28-34-50	535 802 22-28-39 29-36-53	612 918 23-29-40 34-39-56	688 1030 25-34-45 34-43-59	
	 2S  2G	CFM/SIDE THROW, FT.	458 22-27-39	612 25-31-45	765 28-35-50	917 31-39-55	1070 32-42-59	1225 35-45-62	1375 39-48-66	
24 x 24 4.0 SQ. FT.		 1S	CFM/SIDE THROW, FT.	917 29-37-51	1225 34-43-59	1530 39-50-67	1835 43-53-71	2140 46-56-77	2450 50-60-82	2750 53-64-88
	RETURN FACTORS	—SP=2.7 TP NC + 8	CFM NC	1200 15	1600 23	2000 29	2400 33	2800 37	3200 41	3600 44
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	300 20-24-33	400 24-27-40	500 27-31-44	600 29-33-47	700 31-35-51	800 33-40-55	900 35-40-58	
	 3A	CFM/SIDE THROW, FT.	300 450 20-24-33 23-28-39	400 600 24-27-40 26-31-46	500 750 27-31-44 29-36-52	600 900 29-33-47 31-38-56	700 1050 31-33-51 36-41-59	800 1200 33-40-55 36-43-64	900 1350 35-40-58 39-47-67	
30 x 30 6.25 SQ. FT.	 2S  2G	CFM/SIDE THROW, FT.	600 25-33-45	800 30-36-51	1000 34-42-58	1200 36-45-61	1400 39-48-66	1600 43-52-70	1800 46-55-75	
	 1S	CFM/SIDE THROW, FT.	1200 35-40-59	1600 38-48-67	2000 45-54-77	2400 48-58-82	2800 51-62-90	3200 54-67-93	3600 59-70-101	
	RETURN FACTORS	—SP=3.1 TP NC + 8	CFM NC	1875 16	2500 24	3125 30	3750 35	4375 39	5000 42	5625 46
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	469 25-31-42	625 29-36-48	782 34-40-55	937 36-44-61	1093 38-46-65	1250 40-50-69	1406 46-52-73	
36 x 36 9.0 SQ. FT.	 3A	CFM/SIDE THROW, FT.	469 703 25-31-42 28-34-49	625 938 29-36-48 32-39-57	782 1172 34-40-55 35-44-64	937 1405 36-44-61 39-49-69	1093 1640 38-46-65 41-49-74	1250 1875 40-50-69 44-57-78	1406 2110 46-52-73 49-60-83	
	 2S  2G	CFM/SIDE THROW, FT.	937 32-40-55	1250 37-47-63	1562 42-53-72	1875 47-57-77	2187 50-60-83	2500 53-65-88	2812 57-68-95	
	 1S	CFM/SIDE THROW, FT.	1875 42-53-72	2500 49-60-83	3125 56-69-93	3750 60-72-102	4375 63-77-109	5000 69-83-116	5625 72-88-123	
	RETURN FACTORS	—SP=3.6 TP NC + 9	CFM NC	2700 18	3600 25	4500 31	5400 36	6300 40	7200 44	8100 48
				A B	A B	A B	A B	A B	A B	A B
36 x 36 9.0 SQ. FT.	 4A	CFM/SIDE THROW, FT.	675 30-37-51	900 34-41-57	1125 39-46-67	1350 41-51-74	1575 44-53-78	1800 51-57-83	2025 51-64-87	
	 3A	CFM/SIDE THROW, FT.	675 1010 30-37-51 34-44-60	900 1350 34-41-57 40-48-68	1125 1687 39-46-67 46-56-78	1350 2025 41-51-74 48-60-82	1575 2362 44-53-78 52-64-88	1800 2700 51-57-83 58-70-94	2025 3038 51-64-87 62-74-100	
	 2S  2G	CFM/SIDE THROW, FT.	1350 40-45-67	1800 43-54-76	2250 50-61-86	2700 54-65-92	3150 58-70-101	3600 61-76-104	4050 67-79-113	
	 1S	CFM/SIDE THROW, FT.	2700 49-61-85	3600 59-70-99	4500 66-80-114	5400 72-85-122	6300 76-91-131	7200 82-97-142	8100 87-106-150	

For performance notes, see page D37.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODELS 6500 AND 6200 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .033	400 .058	500 .090	600 .130	700 .177	800 .231	900 .293
36 x 24 6.0 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 8	CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46
			A B	A B	A B	A B	A B	A B	A B
	4B 4C	CFM/SIDE THROW, FT.	600 300 29-37-51 19-22-31	800 400 34-41-58 22-25-37	1000 500 39-48-66 25-29-41	1200 600 41-51-70 27-31-44	1400 700 44-54-75 29-32-48	1600 800 49-59-80 31-37-51	1800 900 53-63-85 32-37-54
	4E	CFM/SIDE THROW, FT.	450 450 25-31-42 24-31-42	600 600 29-37-51 29-37-51	750 750 32-41-58 32-41-58	900 900 35-44-61 35-44-61	1050 1050 37-48-66 37-48-66	1200 1200 41-51-71 41-51-71	1350 1350 42-54-75 42-54-75
	3A1	CFM/SIDE THROW, FT.	750 300 31-37-54 19-22-31	1000 400 37-42-61 22-25-37	1250 500 41-49-70 25-29-41	1500 600 44-54-75 27-31-44	1750 700 48-58-80 29-32-48	2000 800 51-61-85 31-37-51	2250 900 54-65-90 32-37-54
	3A2	CFM/SIDE THROW, FT.	676 562 27-32-48 24-29-41	900 750 34-37-54 27-32-48	1125 937 34-42-61 31-37-54	1350 1125 37-48-66 32-39-58	1575 1312 39-51-71 35-42-61	1800 1500 42-54-75 37-44-66	2025 1687 48-58-80 41-49-70
	2A	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97
	2B	CFM/SIDE THROW, FT.	900 32-41-56	1200 37-48-65	1500 42-54-73	1800 48-58-78	2100 51-61-85	2400 54-66-90	2700 58-70-97
	2C 2D	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75
	2E	CFM/SIDE THROW, FT.	1200 600 37-42-63 25-31-42	1600 800 41-51-71 29-37-51	2000 1000 48-58-82 32-41-58	2400 1200 51-61-87 35-44-61	2800 1400 54-66-95 37-48-66	3200 1600 58-71-99 41-51-71	3600 1800 63-75-107 42-54-75
36 x 30 7.5 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	2250 19	3000 26	3750 32	4500 37	5250 41	6000 44	6750 47
			A B	A B	A B	A B	A B	A B	A B
	4B 4C	CFM/SIDE THROW, FT.	657 468 29-37-51 20-25-34	875 625 34-41-58 24-29-39	1093 782 39-48-66 27-32-44	1313 937 41-51-70 29-37-49	1532 1093 44-54-75 31-37-53	1750 1250 49-59-80 32-41-56	1969 1406 53-63-85 37-42-59
	3A1	CFM/SIDE THROW, FT.	890 468 32-41-56 20-25-34	1187 625 37-48-65 24-29-39	1484 782 42-54-73 27-32-44	1781 937 48-58-78 29-37-49	2078 1093 51-61-85 31-37-53	2375 1250 54-66-90 32-41-56	2672 1406 58-70-97 37-42-59
	3A2	CFM/SIDE THROW, FT.	787 675 31-37-54 22-27-37	1050 900 37-42-61 25-31-42	1312 1125 41-49-70 29-34-49	1575 1350 44-54-75 31-37-54	1837 1575 48-58-80 32-39-58	2100 1800 51-61-85 37-42-61	2362 2025 54-65-90 37-48-65
	2A	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102
	2B	CFM/SIDE THROW, FT.	1125 34-42-59	1500 39-49-68	1875 44-56-76	2250 49-59-83	2625 53-65-88	3000 56-68-97	3375 59-73-102
	2C 2D	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85
	2E	CFM/SIDE THROW, FT.	1312 938 37-42-63 29-37-51	1750 1250 41-51-71 34-41-58	2188 1562 48-58-82 39-48-66	2625 1875 51-61-87 41-51-70	3063 2187 54-66-95 44-54-75	3500 2500 58-71-99 49-59-80	3938 2812 63-75-107 53-63-85
	1A 1B	CFM/SIDE THROW, FT.	2250 48-60-82	3000 56-68-94	3750 64-78-106	4500 68-82-116	5250 72-88-124	6000 78-94-134	6750 82-100-144

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

CFM - cubic feet per minute
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Neck Velocity – feet per minute

Performance Notes:

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

- Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
- Correction factors for adjustable models - see next page.
- Correction factors for round inlets - see next page.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODELS 6500 AND 6200

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.

CORRECTION FACTORS FOR MODELS 6550 AND 6250 (ADJUSTABLE PATTERN CONTROLLERS) – TABLE 2

Refer to the performance data for the **Models 6500 and 6200**. Apply the corrections from Table 2 to the data for square, 4-way core styles, as follows:

- NC = listed + correction
- Total Pressure = listed x factor
- Horizontal Throw = listed
- Vertical Throw = listed x factor

Apply the throw factor to the 50 fpm terminal velocity throw only.

Example:

18" x 18", **Model 6500**, 1350 cfm, 20°F temperature difference heating, vertical projection, (Page D23).

- NC = 31 + 6 = 37
- TP = .13 x 2.1 = .273
- Throw = 36 x .9 = 32.4 feet @ 50 fpm terminal velocity.

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 3

- Add the NC correction factor from Table 3 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 3 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 3 by the listed throws in the performance tables.

Example:

12" x 12" unit with 10" round adaptor handling 500 cfm supply air. (Page D23).

- NC = 23 + 7 = 30
- Total Pressure = .09 x 1.65 = 0.149
- Throw = 21 x 1.15 = 24.15 feet @ 50 fpm terminal velocity.

Example:

12" x 12" unit handling 600 cfm of return air. (Page D23).

- Return NC = 28 + 4 = 32.
- Return negative SP = 1.3 x (– .13) = – .169.

TABLE 2 Correction Factors 6550/6250 Adjustable

NECK SIZE	NC (add)		TOTAL PRESSURE (multiply)		VERTICAL THROW (multiply)			
					COOLING, ΔT	HEATING, ΔT		
	H	V	H	V	20°F	0°F	20°F	40°F
6 x 6	2	6	1.2	1.5	1.3	1.1	0.8	0.6
9 x 9	2	6	1.4	2.1	1.5	1.2	0.9	0.6
12 x 12	2	6	1.4	2.1	1.6	1.3	1.0	0.6
15 x 15	2	6	1.4	2.1	1.7	1.3	1.0	0.6
18 x 18	2	6	1.4	2.1	1.7	1.3	0.9	0.6
21 x 21	2	6	1.4	2.1	1.7	1.3	0.8	0.5
24 x 24	2	6	1.6	2.2	1.5	1.1	0.7	0.3

TABLE 3 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

PERFORMANCE DATA:

MODEL 6400IV • RECTANGULAR NECK

Core Style 4B • 4-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.01	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw, Side A	2-2-3 (13)	2-3-5 (25)	3-4-7 (38)	4-5-10 (50)	5-6-12 (63)	5-7-14 (75)	6-9-16 (88)
	Throw, Side B	1-2-2 (6)	2-2-4 (12)	2-3-5 (18)	3-4-7 (25)	3-5-8 (31)	4-8-10 (37)	4-6-11 (43)
	Noise Criteria	—	—	—	11	22	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw, Side A	2-3-4 (19)	2-4-7 (37)	4-5-10 (56)	5-7-12 (75)	6-8-15 (94)	7-10-18 (113)	8-11-21 (131)
	Throw, Side B	1-2-2 (6)	2-2-4 (13)	2-3-5 (18)	3-4-7 (25)	3-5-8 (31)	4-5-10 (37)	4-6-11 (44)
	Noise Criteria	—	—	—	12	19	25	30
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw, Side A	2-3-4 (24)	3-4-7 (47)	4-6-11 (70)	5-7-14 (94)	6-9-17 (117)	7-11-20 (141)	8-12-23 (164)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	13	20	27	32
15 x 9	Airflow, CFM	94	188	281	375	469	563	656
	Throw, Side A	2-3-4 (33)	3-4-8 (65)	4-6-11 (98)	6-8-15 (131)	7-10-18 (165)	8-11-20 (198)	9-13-25 (230)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (48)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	14	21	28	32
18 x 9	Airflow, CFM	113	225	338	450	563	675	788
	Throw, Side A	2-3-5 (42)	3-5-8 (85)	5-7-12 (126)	6-8-16 (169)	7-10-19 (211)	8-12-23 (254)	10-14-27 (296)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	15	22	29	33
21 x 9	Airflow, CFM	131	263	394	525	656	788	919
	Throw, Side A	2-3-4 (51)	4-5-9 (103)	5-7-13 (154)	6-9-17 (206)	8-11-21 (258)	9-13-25 (309)	10-15-29 (360)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	16	23	30	34
15 x 12	Airflow, CFM	125	250	375	500	625	750	875
	Throw, Side A	2-3-5 (38)	4-5-9 (75)	5-7-12 (112)	6-9-16 (150)	7-11-20 (187)	9-12-24 (225)	10-14-28 (262)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-19 (150)	8-11-22 (175)
	Noise Criteria	—	—	—	15	22	29	34
18 x 12	Airflow, CFM	5-29-0	10-26-0	3-25-1	8-22-1	1-19-2	6-18-2	11-15-2
	Throw, Side A	2-3-5 (50)	4-5-9 (100)	5-7-13 (150)	6-9-17 (200)	8-11-21 (250)	9-13-25 (300)	10-15-28 (351)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	3-5-10 (74)	5-7-13 (99)	6-8-16 (124)	7-10-19 (149)	8-11-22 (173)
	Noise Criteria	—	—	—	16	23	30	35
21 x 12	Airflow, CFM	175	350	525	700	875	1050	1225
	Throw, Side A	2-3-5 (53)	4-5-9 (125)	5-7-13 (187)	7-9-18 (250)	8-11-22 (312)	9-13-26 (375)	11-15-30 (437)
	Throw, Side B	2-2-4 (35)	3-4-7 (50)	4-5-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-19 (150)	8-11-22 (175)
	Noise Criteria	—	16	—	16	23	31	36
24 x 12	Airflow, CFM	200	400	600	800	1000	1200	1400
	Throw, Side A	3-3-6 (75)	4-6-10 (150)	6-8-15 (225)	7-10-19 (300)	9-12-24 (375)	10-15-28 (450)	12-17-33 (525)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-19 (150)	8-11-22 (175)
	Noise Criteria	—	17	—	17	24	31	36
18 x 15	Airflow, CFM	186	375	563	750	938	1125	1313
	Throw, Side A	2-3-5 (54)	4-5-9 (110)	5-7-12 (164)	6-9-16 (219)	7-10-19 (273)	9-12-24 (328)	10-14-28 (383)
	Throw, Side B	2-3-5 (39)	3-5-8 (78)	5-6-12 (117)	6-8-15 (156)	7-11-20 (195)	8-12-22 (234)	9-14-26 (273)
	Noise Criteria	—	16	—	17	24	31	37
21 x 18	Airflow, CFM	263	525	785	1050	1310	1575	1840
	Throw, Side A	3-3-6 (76)	4-6-10 (200)	6-8-15 (225)	7-10-19 (300)	9-12-24 (375)	10-15-28 (450)	12-17-33 (526)
	Throw, Side B	3-3-6 (56)	4-6-10 (112)	6-8-15 (169)	7-10-19 (225)	9-12-24 (280)	10-15-28 (337)	12-17-33 (394)
	Noise Criteria	—	18	13	19	26	33	38
24 x 18	Airflow, CFM	300	600	900	1200	1500	1800	2100
	Throw, Side A	3-4-6 (94)	4-6-11 (187)	6-9-16 (281)	8-11-21 (375)	9-14-26 (469)	11-16-32 (563)	13-19-37 (656)
	Throw, Side B	3-3-6 (56)	4-6-10 (112)	6-8-15 (169)	7-10-19 (225)	9-10-24 (280)	10-15-28 (337)	12-17-33 (394)
	Noise Criteria	—	—	14	20	27	34	39

For performance notes, see page D79.

PERFORMANCE DATA:

MODEL 6400IV • RECTANGULAR NECK

Core Style 3B • 3-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw, Side A	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-19 (150)	8-12-22 (175)
	Throw, Side B	2-2-3 (13)	2-3-5 (25)	3-4-7 (38)	4-5-10 (50)	5-6-12 (63)	5-7-14 (75)	6-8-15 (88)
	Noise Criteria	—	—	—	12	19	27	30
18 x 9	Airflow, CFM	113	225	338	450	563	675	788
	Throw, Side A	3-3-6 (57)	3-6-10 (113)	6-8-15 (169)	7-10-19 (225)	9-12-24 (282)	10-15-28 (338)	12-17-33 (394)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (84)	5-7-14 (113)	6-9-17 (141)	7-11-20 (169)	8-12-23 (199)
	Noise Criteria	—	—	—	15	22	29	23
24 x 12	Airflow, CFM	200	400	600	800	1000	1200	1400
	Throw, Side A	3-4-6 (100)	4-6-11 (200)	6-9-17 (300)	8-11-22 (400)	10-14-27 (500)	11-17-32 (600)	13-19-37 (700)
	Throw, Side B	2-3-5 (50)	4-5-9 (100)	5-7-13 (150)	6-9-16 (200)	7-11-20 (250)	9-13-24 (300)	10-14-28 (350)
	Noise Criteria	—	—	—	17	24	31	36

Core Style 3A2 • 3-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw, Side A	2-2-3 (15)	2-3-5 (28)	3-4-7 (42)	4-5-10 (56)	5-6-12 (70)	5-7-14 (84)	6-9-16 (98)
	Throw, Side B	2-2-3 (12)	2-3-5 (23)	3-4-7 (35)	4-5-9 (47)	4-6-11 (58)	5-7-13 (70)	6-8-15 (82)
	Noise Criteria	—	—	—	11	22	26	29
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw, Side A	2-3-4 (25)	3-4-6 (50)	4-5-10 (75)	5-7-13 (100)	6-9-16 (125)	7-10-19 (150)	8-12-23 (175)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	4-6-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-20 (150)	8-11-22 (175)
	Noise Criteria	—	—	—	13	20	27	32
15 x 9	Airflow, CFM	94	188	281	375	469	563	656
	Throw, Side A	2-3-5 (39)	3-5-8 (78)	5-6-12 (117)	6-8-15 (156)	7-10-19 (196)	8-12-22 (235)	9-14-26 (274)
	Throw, Side B	2-3-4 (27)	3-4-7 (55)	4-6-11 (82)	5-7-14 (109)	6-9-17 (137)	7-11-20 (164)	8-12-23 (191)
	Noise Criteria	—	—	—	14	21	28	32
15 x 12	Airflow, CFM	125	250	375	500	625	750	875
	Throw, Side A	2-3-5 (39)	3-5-8 (78)	5-6-12 (117)	6-8-15 (156)	7-10-19 (195)	8-12-23 (234)	9-14-26 (273)
	Throw, Side B	2-3-5 (43)	3-5-8 (86)	5-6-12 (129)	6-8-15 (172)	7-10-19 (215)	8-12-23 (258)	9-14-26 (301)
	Noise Criteria	—	—	—	15	22	29	34
18 x 15	Airflow, CFM	188	375	563	750	938	1125	1313
	Throw, Side A	3-3-6 (56)	4-6-10 (113)	6-8-15 (168)	7-10-19 (225)	9-12-24 (281)	10-15-28 (338)	12-17-33 (394)
	Throw, Side B	4-4-7 (66)	5-7-12 (131)	7-9-17 (197)	8-11-21 (262)	10-13-26 (328)	11-16-30 (394)	13-18-35 (459)
	Noise Criteria	—	—	—	17	24	31	37

Performance Notes:

1. All pressures are in inches w.g..
 2. 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%.

3. Tests conducted on diffuser only without damper using ideal straight rigid inlet condition. Other inlet conditions may affect performance. Correction factors for addition of a neck mounted opposed blade damper (fully open):
 Total Pressure: Multiply catalog value by x 1.20.
 Noise Criteria: Add + 4 to catalog value.

4. Correction factor for round inlets, see next page.

5. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 10.

6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA:

MODEL 6400IV • RECTANGULAR NECK

Core Style 3E • 3-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
15 x 6	Airflow, CFM	63	125	188	250	313	375	438
	Throw, Side A	2-3-5 (38)	4-5-9 (75)	5-7-12 (113)	6-9-16 (150)	7-11-20 (188)	9-12-24 (225)	10-14-28 (263)
	Throw, Side B	2-2-3 (13)	2-3-5 (25)	3-4-7 (38)	4-5-10 (50)	5-6-12 (63)	5-7-14 (75)	6-9-16 (88)
	Noise Criteria	—	—	—	12	19	26	31
21 x 9	Airflow, CFM	131	263	394	525	656	788	919
	Throw, Side A	2-3-5 (75)	4-5-9 (150)	5-7-13 (225)	6-9-17 (300)	8-11-21 (375)	9-13-25 (450)	10-15-29 (525)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (84)	5-7-14 (113)	6-9-17 (141)	7-11-20 (169)	8-12-23 (197)
	Noise Criteria	—	—	—	16	23	30	34
24 x 9	Airflow, CFM	150	300	450	600	750	900	1050
	Throw, Side A	2-3-5 (94)	4-5-10 (188)	5-8-14 (281)	7-10-19 (375)	8-12-23 (469)	10-14-28 (563)	11-17-32 (656)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (84)	5-7-14 (113)	6-9-17 (141)	7-11-20 (169)	8-12-23 (197)
	Noise Criteria	—	—	—	17	24	31	36

Core Style 3A1 • 3-way blow pattern



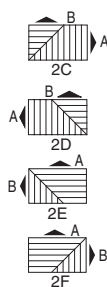
Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw, Side A	2-2-3 (16)	3-3-6 (31)	3-5-8 (47)	4-6-10 (62)	5-7-13 (78)	6-8-15 (93)	7-9-18 (109)
	Throw, Side B	1-2-2 (6)	2-2-4 (12)	2-3-5 (19)	3-4-7 (25)	3-5-8 (31)	4-5-10 (37)	4-6-11 (44)
	Noise Criteria	—	—	—	11	22	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw, Side A	2-2-4 (22)	3-4-6 (44)	4-5-9 (66)	5-6-12 (88)	6-8-15 (109)	6-9-17 (131)	7-11-20 (153)
	Throw, Side B	1-2-2 (6)	2-2-4 (13)	2-3-5 (19)	3-4-7 (25)	3-5-8 (32)	4-5-10 (38)	4-6-11 (44)
	Noise Criteria	—	—	—	12	19	26	30
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw, Side A	2-3-4 (30)	3-4-7 (61)	4-6-11 (91)	5-7-14 (122)	6-9-17 (152)	7-11-20 (183)	8-12-23 (213)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	13	20	27	32
15 x 9	Airflow, CFM	94	188	281	375	469	563	656
	Throw, Side A	2-3-5 (40)	3-5-8 (80)	5-7-12 (119)	6-8-16 (159)	7-10-19 (199)	8-12-23 (239)	10-14-27 (279)
	Throw, Side B	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11 (70)	5-7-13 (84)	6-8-15 (98)
	Noise Criteria	—	—	—	14	21	28	32
15 x 12	Airflow, CFM	125	250	375	500	625	750	875
	Throw, Side A	2-3-5 (50)	4-5-9 (100)	5-7-13 (150)	6-9-17 (200)	8-11-21 (250)	9-13-25 (300)	10-15-29 (350)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-12 (100)	6-8-15 (125)	7-10-18 (150)	8-11-21 (175)
	Noise Criteria	—	—	—	15	22	29	34
18 x 12	Airflow, CFM	150	300	450	600	750	900	1050
	Throw, Side A	2-3-5 (63)	4-5-9 (125)	5-7-13 (188)	7-9-18 (250)	8-11-22 (313)	9-13-26 (375)	11-15-30 (437)
	Throw, Side B	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-12 (100)	6-8-15 (125)	7-10-18 (150)	8-11-21 (175)
	Noise Criteria	—	—	—	16	23	30	35
18 x 15	Airflow, CFM	186	375	563	750	938	1125	1313
	Throw, Side A	3-3-6 (74)	4-6-10 (149)	6-8-15 (223)	8-12-24 (297)	9-12-24 (371)	10-15-28 (445)	12-17-33 (520)
	Throw, Side B	2-3-5 (39)	3-5-8 (78)	5-6-12 (117)	6-8-15 (156)	7-10-19 (195)	8-12-22 (234)	9-14-26 (273)
	Noise Criteria	—	—	—	17	24	31	37

For performance notes, see page D79.

PERFORMANCE DATA:

MODEL 6400IV • RECTANGULAR NECK

Core Styles 2C, 2D, 2E and 2F • 2-way corner blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw, Side A	2-3-4 (25)	3-4-7 (50)	4-6-10 (75)	5-7-14 (100)	6-9-17 (125)	7-10-20 (150)	8-12-23 (175)
	Throw, Side B	2-2-3 (13)	2-3-5 (25)	3-4-7 (38)	4-5-10 (50)	5-6-12 (63)	5-7-14 (75)	6-9-16 (88)
	Noise Criteria	—	—	—	11	18	25	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw, Side A	2-3-5 (38)	4-5-9 (75)	5-7-12 (113)	6-9-16 (150)	7-11-20 (188)	9-12-24 (225)	10-14-28 (263)
	Throw, Side B	2-2-3 (13)	2-3-5 (25)	3-4-7 (38)	4-5-10 (50)	5-6-12 (63)	5-7-14 (75)	6-9-16 (88)
	Noise Criteria	—	—	—	12	19	26	30
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw, Side A	2-3-5 (47)	4-5-9 (94)	5-7-13 (140)	6-9-17 (188)	8-11-21 (234)	9-13-25 (281)	10-15-29 (328)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (84)	5-7-14 (112)	6-9-17 (140)	7-11-20 (169)	8-12-23 (197)
	Noise Criteria	—	—	—	13	20	27	32
15 x 9	Airflow, CFM	94	188	281	375	469	563	656
	Throw, Side A	2-3-5 (66)	4-5-9 (132)	5-7-13 (197)	7-9-18 (262)	8-11-22 (328)	9-13-26 (394)	11-15-30 (459)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (84)	5-7-14 (113)	6-9-17 (141)	7-11-20 (169)	8-12-23 (197)
	Noise Criteria	—	—	—	14	21	28	32
18 x 9	Airflow, CFM	113	225	338	450	563	675	788
	Throw, Side A	2-3-5 (85)	4-5-10 (169)	5-8-14 (254)	7-10-19 (338)	8-12-23 (421)	10-14-27 (506)	11-16-32 (591)
	Throw, Side B	2-3-4 (28)	3-4-7 (56)	4-6-11 (85)	5-7-14 (113)	6-9-17 (141)	7-11-20 (169)	8-12-23 (197)
	Noise Criteria	—	—	—	15	22	29	33
15 x 12	Airflow, CFM	125	250	375	500	625	750	875
	Throw, Side A	2-3-5 (75)	4-5-9 (150)	5-7-13 (225)	6-9-17 (300)	8-11-21 (375)	9-13-25 (450)	9-15-29 (525)
	Throw, Side B	2-3-5 (50)	4-5-9 (100)	5-7-13 (150)	6-9-17 (200)	8-11-21 (250)	9-13-25 (300)	10-15-29 (350)
	Noise Criteria	—	—	—	15	22	29	34
18 x 12	Airflow, CFM	150	300	450	600	750	900	1050
	Throw, Side A	2-3-5 (100)	4-5-10 (200)	5-8-14 (300)	7-10-19 (400)	8-12-23 (500)	10-14-29 (600)	11-17-32 (700)
	Throw, Side B	2-3-5 (50)	4-5-9 (100)	5-9-13 (150)	6-9-17 (200)	8-11-21 (250)	9-13-25 (300)	10-15-29 (350)
	Noise Criteria	—	—	—	18	25	31	36

Core Style 2A • 2-way opposite blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
15 x 9	Airflow, CFM	94	188	281	375	469	563	656
	Throw, Side	2-3-5 (47)	3-5-8 (94)	5-6-12 (141)	6-8-15 (188)	7-10-19 (234)	8-12-23 (282)	9-14-26 (328)
	Noise Criteria	—	—	—	14	21	28	32
18 x 9	Airflow, CFM	113	225	338	450	563	675	788
	Throw, Side	2-3-5 (57)	4-5-9 (113)	5-7-12 (169)	6-9-16 (225)	7-11-20 (282)	9-12-24 (338)	10-14-28 (394)
	Noise Criteria	—	—	—	15	22	29	33
21 x 9	Airflow, CFM	131	263	394	525	656	788	919
	Throw, Side	2-3-5 (66)	3-5-9 (132)	5-7-13 (197)	6-9-17 (263)	8-11-21 (328)	9-13-26 (394)	11-15-30 (460)
	Noise Criteria	—	—	—	15	23	30	34
15 x 12	Airflow, CFM	125	250	375	500	625	750	875
	Throw, Side	2-3-5 (63)	4-5-10 (125)	5-7-14 (188)	7-10-18 (250)	8-12-23 (313)	10-14-27 (375)	11-16-31 (438)
	Noise Criteria	—	—	—	15	22	29	34
18 x 12	Airflow, CFM	150	300	450	600	750	900	1050
	Throw, Side	3-3-6 (75)	4-6-10 (150)	6-8-15 (225)	7-10-20 (300)	9-13-24 (375)	10-15-29 (450)	12-17-33 (525)
	Noise Criteria	—	—	—	16	23	30	35
21 x 12	Airflow, CFM	175	350	525	700	875	1050	1225
	Throw, Side	3-3-6 (88)	4-6-11 (175)	6-8-16 (263)	8-11-21 (350)	9-13-25 (438)	11-16-30 (525)	12-18-35 (613)
	Noise Criteria	—	16	—	17	24	31	36
24 x 12	Airflow, CFM	200	400	600	800	1000	1200	1400
	Throw, Side	3-4-6 (100)	4-6-11 (200)	6-9-17 (300)	8-11-22 (400)	10-14-27 (500)	11-17-32 (600)	13-19-37 (700)
	Noise Criteria	—	—	—	18	25	31	36

For performance notes, see page D79.

PERFORMANCE DATA:

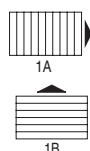
MODEL 6400IV • RECTANGULAR NECK

Core Style 2B • 2-way opposite blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw	2-2-4 (19)	3-4-7 (38)	4-5-10 (57)	5-7-12 (75)	6-8-15 (94)	7-10-18 (113)	8-11-21 (132)
	Noise Criteria	—	—	—	11	18	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw	2-3-4 (25)	3-4-7 (50)	4-6-11 (75)	5-7-14 (100)	6-9-17 (125)	7-11-20 (150)	8-12-23 (175)
	Noise Criteria	—	—	—	12	19	26	30
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw	2-3-4 (38)	3-4-8 (75)	4-6-11 (113)	6-8-15 (150)	7-10-18 (188)	8-11-21 (225)	9-13-25 (263)
	Noise Criteria	—	—	—	15	23	30	34

Core Styles 1A and 1B • 1-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw	2-3-4	4-5-9	5-7-12	6-9-16	7-11-20	9-12-24	10-14-28
	Noise Criteria	—	—	—	11	18	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-25	10-15-29
	Noise Criteria	—	—	—	13	20	27	32
15 x 6	Airflow, CFM	63	125	188	250	313	375	438
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-25	10-15-29
	Noise Criteria	—	—	—	12	19	26	31
18 x 6	Airflow, CFM	75	150	225	300	375	450	525
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-26	11-15-30
	Noise Criteria	—	—	—	12	20	27	32
21 x 6	Airflow, CFM	88	175	263	350	438	525	613
	Throw	2-3-5	4-5-10	5-7-14	7-10-18	8-12-22	10-14-27	11-16-31
	Noise Criteria	—	—	—	13	21	28	33
24 x 6	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-3-5	4-5-10	5-8-14	7-10-19	8-12-23	10-14-28	11-20-32
	Noise Criteria	—	—	—	15	22	28	33
21 x 9	Airflow, CFM	131	263	394	525	656	788	919
	Throw	3-3-6	4-6-10	6-8-15	7-10-20	9-13-25	10-15-29	12-18-34
	Noise Criteria	—	—	—	16	23	30	35
24 x 9	Airflow, CFM	150	300	450	600	750	900	1050
	Throw	3-4-6	4-6-11	6-9-16	8-11-21	9-14-26	11-16-31	13-19-36
	Noise Criteria	—	—	—	17	24	31	36

Performance Notes:

1. All pressures are in inches w.g..
2. 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%.

3. Tests conducted on diffuser only without damper using ideal straight rigid inlet condition. Other inlet conditions may affect performance. Correction factors for addition of a neck mounted opposed blade damper (fully open):
Total Pressure: Multiply catalog value by x 1.20.
Noise Criteria: Add + 4 to catalog value.

4. Correction factor for round inlets, see next page.
5. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 10.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODEL 6400IV

Correction Factors For Round Necks (Square to Round Inlet Adaptors).

- Add the NC correction factor from Table 1 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 1 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 1 by the listed throws in the performance tables.

Example:

12" x 12" unit with a 4A core and a 10" round adaptor handling 500 cfm supply air. (Page D72).

- NC = 20 + 7 = 27
- Total Pressure = .072 x 1.65 = 0.119
- Throw = 16 x 1.15 = 18.40 feet @ 50 fpm terminal velocity.

TABLE 1 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

Recommended Maximum Airflow

Diffuser mounting height and air temperature differential (ΔT) are both to be considered when selecting diffusers. As air travels from a diffuser, room air is entrained into the supply air stream and the delivery pattern thickens.

If the volume or throw requirement is too great, the lower part of the supply air stream can intrude into the occupied zone causing objectionable drafts. Consult Table 2 to verify selection.

TABLE 2 Maximum Recommended Airflow

CEILING HEIGHT (ft.)	MAX. AIRFLOW PER DIFFUSER (CFM)				MAX. REC. COOLING TEMP. DIFFERENTIAL ΔT
	4-way	3-way	2-way (2A, 2B)	1-way & 2S	
7	400	300	200	100	15°F
8	600	450	300	150	20°F
9	1200	900	600	300	25°F
10	1800	1350	900	450	25°F
12	3200	2400	1600	800	30°F
14	4800	3600	2400	1200	30°F
16	6000	4500	3000	1500	30°F

PERFORMANCE DATA:

MODEL 6400IV • SQUARE NECK

Core Style 4A • 4-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
6 x 6	Airflow, CFM	25	50	75	100	125	150	175
	Throw	1-2-2	2-2-4	2-3-5	3-5-7	3-6-8	4-6-10	4-7-12
	Noise Criteria	—	—	—	—	15	21	26
9 x 9	Airflow, CFM	56	113	169	225	281	338	394
	Throw	2-2-3	2-3-5	3-5-7	4-5-9	4-6-11	5-8-13	6-9-16
	Noise Criteria	—	—	—	—	18	24	29
12 x 12	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-2-4	3-4-7	4-5-10	5-7-13	6-8-16	7-10-19	8-11-22
	Noise Criteria	—	—	—	13	20	27	32
15 x 15	Airflow, CFM	156	313	469	625	781	938	1094
	Throw	2-3-5	3-5-8	4-6-12	6-8-15	7-10-19	8-12-23	9-14-26
	Noise Criteria	—	—	—	15	22	29	34
18 x 18	Airflow, CFM	225	450	675	900	1125	1350	1575
	Throw	3-3-6	4-6-10	6-8-15	7-10-19	9-12-24	10-15-28	12-17-33
	Noise Criteria	—	—	—	16	23	30	35
21 x 21	Airflow, CFM	306	613	919	1225	1531	1838	2144
	Throw	3-4-6	4-6-11	6-9-17	8-11-22	10-14-27	11-17-32	13-19-37
	Noise Criteria	—	—	—	18	25	31	36
24 x 24	Airflow, CFM	400	800	1200	1600	2000	2400	2800
	Throw	3-4-7	5-7-12	7-10-18	9-12-24	10-15-29	12-18-35	14-21-41
	Noise Criteria	—	—	12	19	26	32	37

Performance Notes:

1. All pressures are in inches w.g..

2. 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%.

3. Tests conducted on diffuser only without damper using ideal straight rigid inlet condition. Other inlet conditions may affect performance. Correction factors for addition of a neck mounted opposed blade damper (fully open):

Total Pressure: Multiply catalog value by x 1.20.

Noise Criteria: Add + 4 to catalog value.

4. Correction factor for round inlets, see next page.

5. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 10.

6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA:

MODEL 6400IV • SQUARE NECK

Core Style 3A • 3-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
6 x 6	Airflow, CFM	25	50	75	100	125	150	175
	Throw, Side A	1-1-2 (6)	2-2-4 (13)	2-3-5 (19)	3-4-7 (25)	3-5-8 (31)	4-5-10 (37)	4-6-11 (44)
	Throw, Side B	2-2-3 (9)	2-3-5 (19)	3-4-6 (28)	3-5-8 (38)	4-5-10 (47)	5-6-12 (56)	5-7-14 (66)
	Noise Criteria	—	—	—	—	15	21	26
9 x 9	Airflow, CFM	56	113	169	225	281	338	394
	Throw, Side A	2-2-3 (14)	2-3-5 (28)	3-4-7 (42)	4-5-9 (56)	4-6-11(70)	5-7-13 (84)	6-8-15 (99)
	Throw, Side B	2-2-4 (21)	3-4-7 (43)	4-5-9 (64)	5-7-12 (84)	6-8-15 (105)	7-9-18 (127)	8-11-21 (148)
	Noise Criteria	—	—	—	—	18	24	29
12 x 12	Airflow, CFM	100	200	300	400	500	600	700
	Throw, Side A	2-2-4 (25)	3-4-7 (50)	4-5-10 (75)	5-7-13 (100)	6-8-16 (125)	7-10-19 (150)	8-11-22 (175)
	Throw, Side B	2-3-5 (38)	3-5-8 (75)	5-6-12 (113)	6-8-16 (150)	7-10-19 (188)	8-12-23 (225)	10-14-27 (263)
	Noise Criteria	—	—	—	13	20	27	32
15 x 15	Airflow, CFM	156	313	469	625	781	938	1094
	Throw, Side A	2-3-5 (39)	3-5-8 (78)	4-6-12 (117)	6-8-15 (156)	7-10-19 (195)	8-12-23 (235)	9-14-26 (273)
	Throw, Side B	3-3-6 (59)	4-6-10 (117)	6-8-15 (176)	7-10-20 (234)	9-13-24 (293)	10-15-29 (352)	12-17-34 (410)
	Noise Criteria	—	—	—	15	22	29	34
18 x 18	Airflow, CFM	225	450	675	900	1125	1350	1575
	Throw, Side A	3-3-6 (56)	4-6-10 (113)	6-8-15 (169)	7-10-19 (225)	9-12-24 (281)	10-15-28 (338)	12-17-33 (394)
	Throw, Side B	3-4-6 (84)	5-6-12 (169)	6-9-17 (253)	8-12-22 (338)	10-14-28 (422)	12-17-33 (506)	13-20-38 (591)
	Noise Criteria	—	—	—	16	23	30	35

Core Style 2S • 2-way opposite blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
6 x 6	Airflow, CFM	25	50	75	100	125	150	175
	Throw	2-2-3	2-3-5	3-4-7	4-5-10	5-6-12	5-7-14	6-9-16
	Noise Criteria	—	—	—	—	17	23	28
9 x 9	Airflow, CFM	56	113	169	225	281	338	394
	Throw	2-3-4	3-4-7	4-6-11	5-7-14	6-9-17	7-11-20	8-12-23
	Noise Criteria	—	—	—	13	20	27	32
12 x 12	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-3-5	4-5-9	5-7-13	6-9-16	7-11-20	9-13-24	10-14-28
	Noise Criteria	—	—	—	15	22	29	34
15 x 15	Airflow, CFM	156	313	469	625	781	938	1094
	Throw	3-3-6	4-6-10	6-8-15	7-10-20	9-13-24	10-15-29	12-17-33
	Noise Criteria	—	—	—	17	24	31	36
18 x 18	Airflow, CFM	225	450	675	900	1125	1350	1575
	Throw	3-4-6	4-6-11	6-9-17	8-11-22	10-14-27	11-17-32	13-19-37
	Noise Criteria	—	—	—	18	25	32	37
21 x 21	Airflow, CFM	306	613	919	1225	1531	1838	2144
	Throw	3-4-7	5-7-13	7-10-18	9-13-24	11-15-30	13-18-36	15-21-42
	Noise Criteria	—	—	13	20	27	33	38
24 x 24	Airflow, CFM	400	800	1200	1600	2000	2400	2800
	Throw	3-4-7	5-7-13	7-10-20	9-13-26	11-16-32	13-20-38	15-23-44
	Noise Criteria	—	—	14	21	28	34	39

For performance notes, see page D79.

PERFORMANCE DATA:

MODEL 6400IV • SQUARE NECK

Core Style 2G • 2-way corner blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
6 x 6	Airflow, CFM	25	50	75	100	125	150	175
	Throw	2-2-3	2-3-5	3-5-7	4-5-10	5-6-12	5-7-14	4-9-16
	Noise Criteria	—	—	—	—	17	23	28
9 x 9	Airflow, CFM	56	113	169	225	281	338	394
	Throw	2-3-4	3-4-7	4-6-11	5-7-14	6-9-17	7-11-20	8-12-23
	Noise Criteria	—	—	—	13	20	27	32
12 x 12	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-3-5	4-5-9	5-7-13	6-9-16	7-11-20	9-13-24	10-14-28
	Noise Criteria	—	—	—	15	22	29	34
15 x 15	Airflow, CFM	156	313	469	625	781	938	1094
	Throw	3-3-6	4-6-10	6-8-15	7-10-20	9-13-24	10-15-29	12-17-33
	Noise Criteria	—	—	—	17	24	31	36
18 x 18	Airflow, CFM	225	450	675	900	1125	1350	1575
	Throw	3-4-6	4-6-11	6-9-17	8-11-22	10-14-27	11-17-32	13-19-37
	Noise Criteria	—	—	—	18	25	32	37

Core Style 1S • 1-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
6 x 6	Airflow, CFM	25	50	75	100	125	150	175
	Throw	2-3-4	3-4-7	4-6-10	5-7-13	6-9-18	7-10-20	5-12-23
	Noise Criteria	—	—	—	—	17	23	28
9 x 9	Airflow, CFM	56	113	169	225	281	338	394
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-25	10-15-29
	Noise Criteria	—	—	—	13	20	27	32
12 x 12	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-3-5	4-5-10	5-8-13	7-10-19	8-12-23	10-14-28	11-17-32
	Noise Criteria	—	—	—	15	22	29	34
15 x 15	Airflow, CFM	156	313	469	625	781	938	1094
	Throw	3-3-6	4-6-11	6-8-16	8-11-21	9-13-26	11-16-31	13-18-36
	Noise Criteria	—	—	—	17	24	31	36
18 x 18	Airflow, CFM	225	450	675	900	1125	1350	1575
	Throw	3-4-6	5-6-12	6-9-17	8-12-23	10-15-28	12-17-33	14-20-39
	Noise Criteria	—	—	—	18	25	32	37
21 x 21	Airflow, CFM	306	613	919	1225	1531	1838	2144
	Throw	3-4-7	5-7-13	7-10-19	9-13-25	11-16-31	13-19-38	15-22-44
	Noise Criteria	—	—	13	20	27	33	38
24 x 24	Airflow, CFM	400	800	1200	1600	2000	2400	2800
	Throw	3-4-7	5-7-14	7-11-20	10-14-27	12-17-33	14-20-40	16-24-46
	Noise Criteria	—	—	14	21	28	34	39

For performance notes, see page D79.

PERFORMANCE DATA:

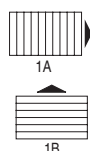
MODEL 6400IV • RECTANGULAR NECK

Core Style 2B • 2-way opposite blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw	2-2-4 (19)	3-4-7 (38)	4-5-10 (57)	5-7-12 (75)	6-8-15 (94)	7-10-18 (113)	8-11-21 (132)
	Noise Criteria	—	—	—	11	18	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw	2-3-4 (25)	3-4-7 (50)	4-6-11 (75)	5-7-14 (100)	6-9-17 (125)	7-11-20 (150)	8-12-23 (175)
	Noise Criteria	—	—	—	12	19	26	30
12 x 9	Airflow, CFM	75	150	225	300	375	450	525
	Throw	2-3-4 (38)	3-4-8 (75)	4-6-11 (113)	6-8-15 (150)	7-10-18 (188)	8-11-21 (225)	9-13-25 (263)
	Noise Criteria	—	—	—	15	23	30	34

Core Styles 1A and 1B • 1-way blow pattern



Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.014	.031	.056	.087	.126	.171
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw	2-3-4	4-5-9	5-7-12	6-9-16	7-11-20	9-12-24	10-14-28
	Noise Criteria	—	—	—	11	18	26	29
12 x 6	Airflow, CFM	50	100	150	200	250	300	350
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-25	10-15-29
	Noise Criteria	—	—	—	13	20	27	32
15 x 6	Airflow, CFM	63	125	188	250	313	375	438
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-25	10-15-29
	Noise Criteria	—	—	—	12	19	26	31
18 x 6	Airflow, CFM	75	150	225	300	375	450	525
	Throw	2-3-5	4-5-9	5-7-13	6-9-17	8-11-21	9-13-26	11-15-30
	Noise Criteria	—	—	—	12	20	27	32
21 x 6	Airflow, CFM	88	175	263	350	438	525	613
	Throw	2-3-5	4-5-10	5-7-14	7-10-18	8-12-22	10-14-27	11-16-31
	Noise Criteria	—	—	—	13	21	28	33
24 x 6	Airflow, CFM	100	200	300	400	500	600	700
	Throw	2-3-5	4-5-10	5-8-14	7-10-19	8-12-23	10-14-28	11-20-32
	Noise Criteria	—	—	—	15	22	28	33
21 x 9	Airflow, CFM	131	263	394	525	656	788	919
	Throw	3-3-6	4-6-10	6-8-15	7-10-20	9-13-25	10-15-29	12-18-34
	Noise Criteria	—	—	—	16	23	30	35
24 x 9	Airflow, CFM	150	300	450	600	750	900	1050
	Throw	3-4-6	4-6-11	6-9-16	8-11-21	9-14-26	11-16-31	13-19-36
	Noise Criteria	—	—	—	17	24	31	36

Performance Notes:

1. All pressures are in inches w.g..
2. 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%.

3. Tests conducted on diffuser only without damper using ideal straight rigid inlet condition. Other inlet conditions may affect performance. Correction factors for addition of a neck mounted opposed blade damper (fully open):
Total Pressure: Multiply catalog value by x 1.20.
Noise Criteria: Add + 4 to catalog value.

4. Correction factor for round inlets, see next page.
5. Noise Criteria (NC) values are based upon 10dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 10.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODEL 6400IV

Correction Factors For Round Necks (Square to Round Inlet Adaptors).

- Add the NC correction factor from Table 1 and the NC value listed in the performance tables.
- Multiply the correction factor from Table 1 by the listed total pressure in the performance tables.
- Multiply the correction factor from Table 1 by the listed throws in the performance tables.

Example:

12" x 12" unit with a 4A core and a 10" round adaptor handling 500 cfm supply air. (Page D72).

- $NC = 20 + 7 = 27$
- Total Pressure = $.072 \times 1.65 = 0.119$
- Throw = $16 \times 1.15 = 18.40$ feet @ 50 fpm terminal velocity.

TABLE 1 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

Recommended Maximum Airflow

Diffuser mounting height and air temperature differential (ΔT) are both to be considered when selecting diffusers. As air travels from a diffuser, room air is entrained into the supply air stream and the delivery pattern thickens.

If the volume or throw requirement is too great, the lower part of the supply air stream can intrude into the occupied zone causing objectionable drafts. Consult Table 2 to verify selection.

TABLE 2 Maximum Recommended Airflow

CEILING HEIGHT (ft.)	MAX. AIRFLOW PER DIFFUSER (CFM)				MAX. REC. COOLING TEMP. DIFFERENTIAL ΔT
	4-way	3-way	2-way (2A, 2B)	1-way & 2S	
7	400	300	200	100	15°F
8	600	450	300	150	20°F
9	1200	900	600	300	25°F
10	1800	1350	900	450	25°F
12	3200	2400	1600	800	30°F
14	4800	3600	2400	1200	30°F
16	6000	4500	3000	1500	30°F

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
9 x 6 .375 SQ. FT.	RETURN FACTORS	—SP=1.2 TP NC + 0	CFM NC	110 —	150 14	185 20	225 25	260 29	300 33	335 37
		4B	CFM/SIDE THROW, FT.	37 18 6-9-11 4-5-8	50 25 8-10-13 5-6-9	62 31 9-11-15 6-8-10	75 37 10-12-16 6-8-11	87 44 10-13-17 8-9-12	100 50 11-14-18 8-9-12	112 56 12-15-19 9-10-13
		3A1	CFM/SIDE THROW, FT.	47 18 8-9-12 4-5-8	62 25 9-10-14 5-6-9	78 31 10-11-16 6-8-10	94 37 11-12-17 6-8-11	109 44 12-13-18 8-9-12	125 50 12-14-19 8-9-12	140 56 13-15-22 9-10-13
		3A2	CFM/SIDE THROW, FT.	42 35 6-9-11 5-6-10	55 47 8-10-13 6-8-11	70 58 9-11-15 8-9-12	84 70 10-12-16 8-10-13	98 82 10-13-17 9-10-14	112 94 11-14-18 9-11-15	126 105 12-15-19 10-12-16
	 	2A 2B	CFM/SIDE THROW, FT.	56 9-11-14	75 10-12-16	93 11-14-18	112 12-15-19	131 13-16-22	150 14-17-22	168 15-18-24
	 	2C 2E	CFM/SIDE THROW, FT.	75 37 9-11-15 6-9-11	100 50 10-12-17 8-10-13	125 62 11-14-19 9-11-15	150 75 12-15-22 10-12-16	175 87 13-16-22 10-13-19	200 100 14-17-24 11-14-18	225 112 15-18-25 12-15-19
	 	1A 1B	CFM/SIDE THROW, FT.	112 11-13-18	150 13-15-22	187 15-17-24	225 16-18-26	262 17-19-28	300 18-22-30	337 19-22-32
12 x 6 .50 SQ. FT.	RETURN FACTORS	—SP=1.6 TP NC + 1	CFM NC	150 —	200 14	250 20	300 26	350 31	400 35	450 39
		4B	CFM/SIDE THROW, FT.	56 18 9-11-14 4-5-8	75 25 10-12-16 5-6-9	94 31 11-14-18 6-8-10	113 37 12-15-19 6-8-11	131 44 13-16-22 8-9-12	150 50 14-17-22 8-9-12	169 56 15-18-24 9-10-13
		4C	CFM/SIDE THROW, FT.	66 18 9-11-15 4-5-8	87 25 10-12-17 5-6-9	109 31 11-14-19 6-8-10	131 37 12-15-22 6-8-11	153 44 13-16-22 8-9-12	175 50 14-17-24 8-9-12	197 56 15-18-25 9-10-13
		3A1	CFM/SIDE THROW, FT.	75 37 6-9-11 6-9-11	100 50 8-10-13 8-10-13	126 62 9-11-15 9-11-15	150 75 10-12-16 10-12-16	176 87 10-13-17 10-13-17	200 100 11-14-18 11-14-18	226 112 12-15-19 12-15-19
		3B	CFM/SIDE THROW, FT.	75 9-11-15	100 10-12-17	125 11-14-19	150 12-15-22	175 13-16-22	200 14-17-24	225 15-18-25
	 	2A 2B	CFM/SIDE THROW, FT.	112 37 11-13-18 6-9-11	150 50 13-15-22 8-10-13	188 62 15-17-24 9-11-15	225 75 16-18-26 10-12-16	263 87 17-19-28 10-13-17	300 100 18-22-30 11-14-18	338 112 19-22-32 12-15-19
	 	2C 2E	CFM/SIDE THROW, FT.	150 11-13-18	200 13-15-22	250 15-17-24	300 16-18-26	350 17-19-28	400 18-22-30	450 19-22-32
15 x 6 .625 SQ. FT.	RETURN FACTORS	—SP=1.9 TP NC + 1	CFM NC	190 —	250 15	310 21	375 27	440 32	500 36	565 40
		4B	CFM/SIDE THROW, FT.	75 18 9-11-15 4-5-8	100 25 10-12-17 5-6-9	125 31 11-14-19 6-8-10	150 37 12-15-22 6-8-11	175 44 13-16-22 8-9-12	200 50 14-17-24 8-9-12	225 56 15-18-25 9-10-13
		4C	CFM/SIDE THROW, FT.	56 37 9-11-14 8-9-12	75 50 10-12-16 9-10-14	94 62 11-14-18 10-11-16	113 75 12-15-19 11-12-17	131 87 13-16-22 12-13-18	150 100 14-17-22 12-14-19	169 112 15-18-24 13-15-22
		4E	CFM/SIDE THROW, FT.	84 18 10-11-16 4-5-8	112 25 11-13-18 5-6-9	140 31 12-15-20 6-8-10	169 37 13-16-22 6-8-11	197 44 14-17-23 8-9-12	225 50 15-18-25 8-9-12	253 56 16-19-28 9-10-13
		3A1	CFM/SIDE THROW, FT.	94 10-12-17	125 11-14-19	156 12-16-22	187 13-17-23	219 14-18-25	250 15-19-26	281 16-22-29
	 	2A 2B	CFM/SIDE THROW, FT.	150 37 11-13-18 6-9-11	200 50 13-15-22 8-10-13	250 62 15-17-24 9-11-15	300 75 16-18-26 10-12-16	350 87 17-19-28 10-13-17	400 100 18-22-30 11-14-18	450 112 19-22-32 12-15-19
	 	2C 2E	CFM/SIDE THROW, FT.	188 12-15-20	250 14-17-23	312 16-19-26	375 17-22-29	438 18-22-31	500 19-24-33	563 22-25-35

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
18 x 6 .75 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 2	CFM NC	225 —	300 16	375 22	450 28	525 33	600 37	675 41
	4B 4C	CFM/SIDE THROW, FT.	94 18 10-12-17 4-5-8	125 25 11-14-19 5-6-9	156 31 12-16-21 6-8-10	188 37 13-17-23 6-8-11	218 44 14-18-25 8-9-12	250 50 15-19-26 8-9-12	281 56 16-22-29 9-10-13
	4E	CFM/SIDE THROW, FT.	56 56 9-11-14 9-11-14	75 75 10-12-16 10-12-16	94 94 11-14-18 11-14-18	113 113 12-15-19 12-15-19	131 131 13-16-22 13-16-22	150 150 14-17-22 14-17-22	169 169 15-18-24 15-18-24
	3A1	CFM/SIDE THROW, FT.	103 18 10-12-17 4-5-8	137 25 11-14-19 5-6-9	172 31 12-16-21 6-8-10	206 37 13-17-23 6-8-11	240 44 14-18-25 8-9-12	275 50 15-19-26 8-9-12	309 56 16-22-29 9-10-1
	2A 2B	CFM/SIDE THROW, FT.	112 11-13-18	150 13-15-22	187 15-17-24	225 16-18-26	262 17-19-28	300 18-22-30	337 19-22-32
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	187 37 12-15-20 6-9-11	250 50 14-17-23 8-10-13	313 62 16-19-26 9-11-15	375 75 17-22-29 10-12-16	438 87 18-22-31 10-13-17	500 100 19-24-33 11-14-18	563 112 22-25-35 12-15-19
	1A 1B	CFM/SIDE THROW, FT.	225 13-16-22	300 15-18-25	375 17-20-29	450 18-22-32	525 19-23-34	600 20-25-36	675 21-27-37
21 x 6 .875 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	260 —	350 16	435 22	525 29	610 33	700 38	785 41
	4B 4C	CFM/SIDE THROW, FT.	112 18 11-13-18 4-5-8	150 25 13-15-22 5-6-9	187 31 15-17-24 6-8-10	225 37 16-18-26 6-8-11	262 44 17-19-28 8-9-12	300 50 18-22-30 8-9-12	337 56 19-22-32 9-10-13
	4E	CFM/SIDE THROW, FT.	75 56 9-11-15 9-11-14	100 75 10-12-17 10-12-16	125 94 11-14-19 11-14-18	150 113 12-15-22 12-15-19	175 131 13-16-22 13-16-22	200 150 14-17-24 14-17-22	225 169 15-18-25 15-18-24
	3A1	CFM/SIDE THROW, FT.	122 18 11-13-18 4-5-8	162 25 13-15-22 5-6-9	203 31 15-17-24 6-8-10	244 37 16-18-26 6-8-11	284 44 17-19-28 8-9-12	325 50 18-22-30 8-9-12	365 56 19-22-32 9-10-13
	2A 2B	CFM/SIDE THROW, FT.	131 11-13-18	175 13-15-22	218 15-17-24	262 16-18-26	306 17-19-28	350 18-22-30	393 19-22-32
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	225 37 13-16-22 6-9-11	300 50 15-18-25 8-10-13	375 62 17-20-29 9-11-15	450 75 18-22-32 10-12-16	525 87 19-23-34 10-13-17	600 100 22-25-36 11-14-18	675 112 22-28-38 12-15-19
	1A 1B	CFM/SIDE THROW, FT.	262 13-16-22	350 15-18-25	437 17-20-29	525 18-22-32	612 19-23-34	700 22-25-36	787 22-28-38
24 x 6 1.0 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	300 —	400 16	500 23	600 30	700 34	800 39	900 42
	4B 4C	CFM/SIDE THROW, FT.	131 18 11-13-18 4-5-8	175 25 13-15-22 5-6-9	219 31 15-17-24 6-8-10	263 37 16-18-26 6-8-11	306 44 17-19-28 8-9-12	350 50 18-22-30 8-9-12	394 56 19-22-32 9-10-13
	4E	CFM/SIDE THROW, FT.	75 75 9-11-15 9-11-15	100 100 10-12-17 10-12-17	125 125 11-14-19 11-14-19	150 150 12-15-22 12-15-22	175 175 13-16-22 13-16-22	200 200 14-17-24 14-17-24	225 225 15-18-25 15-18-25
	3A1	CFM/SIDE THROW, FT.	141 18 11-13-18 4-5-8	187 25 13-15-22 5-6-9	234 31 15-17-24 6-8-10	281 37 16-18-26 6-8-11	328 44 17-19-28 8-9-12	375 50 18-22-30 8-9-12	422 56 19-22-32 9-10-13
	2A 2B	CFM/SIDE THROW, FT.	150 11-13-18	200 13-15-22	250 15-17-24	300 16-18-26	350 17-19-28	400 18-22-30	450 19-22-32
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	260 37 13-16-22 6-9-11	350 50 15-18-25 8-10-13	438 62 17-20-29 9-11-15	525 75 18-22-32 10-12-16	613 87 19-23-34 10-13-17	700 100 22-25-36 11-14-18	788 112 22-28-38 12-15-19
	1A 1B	CFM/SIDE THROW, FT.	300 14-17-24	400 16-19-28	500 18-22-32	600 19-23-34	700 22-25-36	800 22-26-39	900 24-29-41

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D63.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
30 x 6 1.25 SQ. FT.	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	375 —	500 17	625 24	750 30	875 35	1000 40	1125 43
	4B 4C	CFM/SIDE THROW, FT.	A B 169 18 12-15-20 4-5-8	A B 225 25 14-17-23 5-6-9	A B 281 31 16-19-26 6-8-10	A B 338 37 17-22-29 6-8-11	A B 393 44 18-22-31 8-9-12	A B 450 50 19-24-33 8-9-12	A B 506 56 21-25-35 9-10-13
	4E	CFM/SIDE THROW, FT.	94 94 10-12-17 10-12-17	125 125 11-14-19 11-14-19	156 156 12-16-22 12-16-22	188 188 13-17-23 13-17-23	219 219 14-18-25 14-18-25	250 250 15-19-26 15-19-26	282 282 16-22-29 16-22-29
	3A1	CFM/SIDE THROW, FT.	178 18 12-15-20 4-5-8	237 25 14-17-23 5-6-9	297 31 16-19-26 6-8-10	356 37 17-22-29 6-8-11	415 44 18-22-31 8-9-12	475 50 19-24-33 8-9-12	534 56 21-25-35 9-10-13
	2A 2B	CFM/SIDE THROW, FT.	187 12-15-20	250 14-17-23	312 16-19-26	375 17-22-29	437 18-22-31	500 19-24-33	562 21-25-35
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	337 37 14-17-24 6-9-11	450 50 16-19-28 8-10-13	563 62 18-22-32 9-11-15	675 75 19-23-34 10-12-16	788 87 22-25-36 10-13-17	900 100 22-26-39 11-14-18	1013 112 24-29-41 12-15-19
	1A 1B	CFM/SIDE THROW, FT.	375 15-18-25	500 17-22-30	625 19-24-34	750 22-26-36	875 22-28-39	1000 24-30-42	1125 25-32-44
12 x 9 .75 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	225 —	300 17	375 23	450 28	525 33	600 36	675 40
	4B 4C	CFM/SIDE THROW, FT.	A B 70 42 8-10-13 5-6-10	A B 94 56 9-11-15 6-8-11	A B 117 70 10-12-17 8-9-12	A B 141 84 11-13-18 8-10-13	A B 164 98 12-14-19 9-10-14	A B 188 112 12-15-22 9-11-15	A B 211 126 13-16-22 10-12-16
	3A1	CFM/SIDE THROW, FT.	91 42 10-12-17 5-6-10	121 56 11-14-19 6-8-11	152 70 12-16-22 8-9-12	183 84 13-17-23 8-10-13	213 98 14-18-25 9-10-14	244 112 15-19-26 9-11-15	274 126 16-22-29 10-12-16
	3A2	CFM/SIDE THROW, FT.	75 75 9-11-14 9-11-14	100 100 10-12-16 10-12-16	125 125 11-14-18 11-14-18	150 150 12-15-19 12-15-19	175 175 13-16-22 13-16-22	200 200 14-17-22 14-17-22	225 225 15-18-24 15-18-24
	2A 2B	CFM/SIDE THROW, FT.	112 11-13-18	150 13-15-22	187 15-17-24	225 16-18-26	262 17-19-28	300 18-22-30	337 19-22-32
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	141 84 11-13-18 9-11-14	188 112 13-15-22 10-12-16	234 141 15-17-24 11-14-18	281 169 16-18-26 12-15-19	328 197 17-19-28 13-16-22	375 225 18-22-30 14-17-22	422 253 19-22-32 15-18-24
	1A 1B	CFM/SIDE THROW, FT.	225 13-16-22	300 15-18-25	375 17-20-29	450 18-22-32	525 19-23-34	600 22-25-36	675 22-28-38
15 x 9 .93 SQ. FT.	RETURN FACTORS —SP=1.7 TP NC + 3	CFM NC	280 —	375 18	470 24	565 29	655 34	750 37	845 41
	4B 4C	CFM/SIDE THROW, FT.	A B 98 42 10-12-17 5-6-10	A B 131 56 11-14-19 6-8-11	A B 165 70 12-16-22 8-9-12	A B 198 84 13-17-23 8-10-13	A B 230 98 14-18-25 9-10-14	A B 263 112 15-19-26 9-11-15	A B 296 126 16-22-29 10-12-16
	4E	CFM/SIDE THROW, FT.	70 70 9-11-15 9-11-15	94 94 10-12-17 10-12-17	117 117 11-14-19 11-14-19	141 141 12-15-22 12-15-22	164 164 13-16-22 13-16-22	188 188 14-17-24 14-17-24	211 211 15-18-25 15-18-25
	3A1	CFM/SIDE THROW, FT.	120 42 11-13-18 5-6-10	159 56 13-15-22 6-8-11	200 70 15-17-24 8-9-12	240 84 16-18-26 8-10-13	279 98 17-19-28 9-10-14	319 112 18-22-30 9-11-15	359 126 19-22-32 10-12-16
	3A2	CFM/SIDE THROW, FT.	117 82 10-11-16 8-10-13	155 110 11-13-18 9-11-15	196 137 12-15-20 10-12-17	233 165 13-16-22 11-13-18	272 192 14-17-23 12-14-19	312 219 15-18-25 12-15-22	351 247 16-19-28 13-16-22
	2A 2B	CFM/SIDE THROW, FT.	140 11-13-18	187 13-15-22	235 15-17-24	281 16-18-26	328 17-19-28	375 18-22-30	422 19-22-32
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	197 84 12-15-20 9-11-14	263 112 14-17-23 10-12-16	329 141 16-19-26 11-14-18	394 169 17-22-29 12-15-19	459 197 18-22-31 13-16-22	525 225 19-24-33 14-17-22	592 253 22-25-35 15-18-24
	1A 1B	CFM/SIDE THROW, FT.	281 14-17-24	375 16-19-28	470 18-22-32	563 19-23-34	656 22-25-36	750 22-26-39	845 24-29-41

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
18 x 9 1.125 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 3	CFM NC	335 —	450 19	560 25	675 30	790 35	900 38	1010 42
	4B 4C	CFM/SIDE THROW, FT.	A B 126 42 11-13-18 5-6-10	A B 169 56 13-15-22 6-8-11	A B 211 70 15-17-24 8-9-12	A B 254 84 16-18-26 8-10-13	A B 296 98 17-19-28 9-10-14	A B 338 112 18-22-30 9-11-15	A B 380 126 19-22-32 10-12-16
	4E	CFM/SIDE THROW, FT.	A 99 70 10-12-17 9-11-15	A 132 94 11-14-19 10-12-17	A 164 117 12-16-22 11-14-19	A 197 141 13-17-23 12-15-22	A 230 164 14-18-25 13-16-22	A 263 188 15-19-26 14-17-24	A 296 211 16-22-29 15-18-25
	3A1	CFM/SIDE THROW, FT.	A 147 42 11-13-18 5-6-10	A 197 56 13-15-22 6-8-11	A 246 70 15-17-24 8-9-12	A 295 84 16-18-26 8-10-13	A 345 98 17-19-28 9-10-14	A 394 112 18-22-30 9-11-15	A 443 126 19-22-32 10-12-16
	3B	CFM/SIDE THROW, FT.	B 168 84 9-11-15 9-11-14	B 225 112 10-12-17 10-12-16	B 281 141 11-14-19 11-14-18	B 337 169 12-15-22 12-15-19	B 394 197 13-16-22 13-16-22	B 450 225 14-17-24 14-17-22	B 506 253 15-18-25 15-18-24
	2A 2B	CFM/SIDE THROW, FT.	A 163 12-15-20	A 225 14-17-23	A 281 16-19-26	A 337 17-22-29	A 394 18-22-31	A 450 19-24-33	A 506 22-25-35
	2C 2E 2D 1A 1B	CFM/SIDE THROW, FT.	B 253 84 13-16-22 9-11-14	B 338 112 15-18-25 10-12-16	B 421 141 17-20-29 11-14-18	B 506 169 18-22-32 12-15-19	B 591 197 19-23-34 13-16-22	B 675 225 22-25-36 14-17-22	B 759 253 22-28-38 15-18-24
21 x 9 1.125 SQ. FT.	RETURN FACTORS —SP=2.5 TP NC + 4	CFM NC	395 —	525 19	655 25	785 31	915 36	1050 38	1180 42
	4B 4C	CFM/SIDE THROW, FT.	A B 154 42 12-15-20 5-6-10	A B 206 56 14-17-23 6-8-11	A B 258 70 16-19-26 8-9-12	A B 309 84 17-22-29 8-10-13	A B 360 98 18-22-31 9-10-14	A B 413 112 19-24-33 9-11-15	A B 464 126 22-25-35 10-12-16
	4E	CFM/SIDE THROW, FT.	A 98 98 10-12-17 10-12-17	A 131 131 11-14-19 11-14-19	A 163 163 12-16-22 12-16-22	A 196 196 13-17-23 13-17-23	A 229 229 14-18-25 14-18-25	A 261 261 15-19-26 15-19-26	A 294 294 16-22-29 16-22-29
	3A1	CFM/SIDE THROW, FT.	A 175 42 12-15-20 5-6-10	A 234 56 14-17-23 6-8-11	A 292 70 16-19-26 8-9-12	A 351 84 17-22-29 8-10-13	A 410 98 18-22-31 9-10-14	A 468 112 19-24-33 9-11-15	A 527 126 22-25-35 10-12-16
	2A 2B	CFM/SIDE THROW, FT.	A 196 12-15-20	A 262 14-17-23	A 327 16-19-26	A 393 17-22-29	A 458 18-22-31	A 525 19-24-33	A 590 22-25-35
	2C 2E 2D	CFM/SIDE THROW, FT.	B 308 84 14-17-24 9-11-14	B 412 112 16-19-28 10-12-16	B 514 141 18-22-32 11-14-18	B 617 169 19-23-34 12-15-19	B 720 197 22-25-36 13-16-22	B 825 225 22-26-39 14-17-22	B 927 253 24-29-41 15-18-24
	1A 1B	CFM/SIDE THROW, FT.	A 393 15-18-25	A 524 17-22-30	A 655 19-24-34	A 786 22-26-36	A 917 22-28-39	A 1050 24-30-42	A 1180 25-32-44
24 x 9 1.5 SQ. FT.	RETURN FACTORS —SP=2.9 TP NC + 4	CFM NC	450 —	600 19	750 25	900 31	1050 36	1200 38	1350 43
	4B 4C	CFM/SIDE THROW, FT.	A B 183 42 12-15-20 5-6-10	A B 244 56 14-17-23 6-8-11	A B 305 70 16-19-26 8-9-12	A B 366 84 17-22-29 8-10-13	A B 427 98 18-22-31 9-10-14	A B 488 112 19-24-33 9-11-15	A B 549 126 22-25-35 10-12-16
	4E	CFM/SIDE THROW, FT.	A 126 99 11-13-18 10-12-17	A 169 132 13-15-22 11-14-19	A 211 164 15-17-24 12-16-22	A 253 197 16-18-26 13-17-23	A 295 230 17-19-28 14-18-25	A 337 263 18-22-30 15-19-26	A 379 296 19-22-32 16-22-29
	3A1	CFM/SIDE THROW, FT.	A 204 42 12-15-20 5-6-10	A 272 56 14-17-23 6-8-11	A 340 70 16-19-26 8-9-12	A 408 84 17-22-29 8-10-13	A 476 98 18-22-31 9-10-14	A 544 112 19-24-33 9-11-15	A 612 126 22-25-35 10-12-16
	2A 2B	CFM/SIDE THROW, FT.	A 225 13-16-22	A 300 15-18-25	A 375 17-20-29	A 450 18-22-32	A 525 19-23-34	A 600 22-25-36	A 675 22-28-38
	2C 2E 2D	CFM/SIDE THROW, FT.	B 365 84 15-18-25 9-11-14	B 488 112 17-22-30 10-12-16	B 609 141 19-24-34 11-14-18	B 731 169 22-26-36 12-15-19	B 853 197 22-28-39 13-16-22	B 975 225 24-30-42 14-17-22	B 1097 253 25-32-44 15-18-24
	1A 1B	CFM/SIDE THROW, FT.	A 450 15-18-25	A 600 17-22-30	A 750 19-24-34	A 900 22-26-36	A 1050 22-28-39	A 1200 24-30-42	A 1350 25-32-44

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
30 x 9 1.875 SQ. FT.	RETURN FACTORS —SP=3.9 TP NC + 5	CFM NC	560 —	750 20	935 26	1125 32	1310 37	1500 39	1685 44
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	238 42 13-16-22 5-6-10	319 56 15-18-25 6-8-11	398 70 17-20-29 8-9-12	478 84 18-22-32 8-10-13	557 98 19-23-34 9-10-14	638 112 22-25-36 9-11-15	716 126 22-28-38 10-12-16
	3A1	CFM/SIDE THROW, FT.	155 126 12-15-20 11-13-18	206 169 14-17-23 13-15-22	258 211 16-19-26 15-17-24	310 253 17-22-29 16-18-26	361 295 18-22-30 17-19-28	413 337 19-24-33 18-22-30	465 379 22-25-35 19-22-32
	2A 2B	CFM/SIDE THROW, FT.	259 42 13-16-22 5-6-10	347 56 15-18-25 6-8-11	433 70 17-20-29 8-9-12	520 84 18-22-32 8-10-13	606 98 19-23-34 9-10-14	694 112 22-25-36 9-11-15	779 126 22-28-38 10-12-16
	2C 2D 2E	CFM/SIDE THROW, FT.	281 14-17-24	375 16-19-28	468 18-22-32	562 19-23-34	655 22-25-36	750 22-26-39	842 24-29-41
	1A 1B	CFM/SIDE THROW, FT.	476 84 16-19-28 9-11-14	638 112 18-22-32 10-12-16	796 141 20-25-36 11-14-18	956 169 22-28-39 12-15-19	1113 197 23-30-42 13-16-22	1275 225 25-32-44 14-17-22	1432 253 28-34-47 15-18-24
36 x 9 2.25 SQ. FT.	RETURN FACTORS —SP=5.0 TP NC + 6	CFM NC	675 —	900 21	1125 27	1350 33	1575 38	1800 40	2025 44
	4B 4C	CFM/SIDE THROW, FT.	A B	B A	B A	B A	B A	B A	B A B
	4E	CFM/SIDE THROW, FT.	295 42 14-17-24 5-6-10	394 56 16-19-28 6-8-11	492 70 18-22-32 8-9-12	591 84 19-23-34 8-10-13	689 98 22-25-36 9-10-14	788 112 22-26-39 9-11-15	886 126 24-29-41 10-12-16
	3A1	CFM/SIDE THROW, FT.	183 155 12-15-20 12-15-20	244 206 14-17-23 14-17-23	305 258 16-19-26 16-19-26	366 310 17-22-29 17-22-29	427 361 18-22-31 18-22-31	488 413 19-24-33 19-24-33	549 465 22-25-35 22-25-35
	2A 2B	CFM/SIDE THROW, FT.	316 42 14-17-24 5-6-10	422 56 16-19-28 6-8-11	527 70 18-22-32 8-9-12	633 84 19-23-34 8-10-13	738 98 22-25-36 9-10-14	844 112 22-26-39 9-11-15	949 126 24-29-41 10-12-16
	2C 2D 2E	CFM/SIDE THROW, FT.	337 14-17-24	450 16-19-28	562 18-22-32	675 19-23-34	787 22-25-36	900 22-26-39	1012 24-29-41
	1A 1B	CFM/SIDE THROW, FT.	590 84 17-22-30 9-11-14	788 112 20-24-34 10-12-16	984 141 23-28-39 11-14-18	1181 169 24-30-41 12-15-19	1378 197 26-32-44 13-16-22	1575 225 29-35-47 14-17-22	1772 253 31-37-50 15-18-24
15 x 12 1.25 SQ. FT.	RETURN FACTORS —SP=1.6 TP NC + 2	CFM NC	375 —	500 19	625 25	750 30	875 34	1000 38	1125 41
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	3A1	CFM/SIDE THROW, FT.	112 75 9-11-15 6-9-11	150 100 10-12-17 8-10-13	187 125 11-14-19 9-11-15	225 150 12-15-22 10-12-16	262 175 13-16-22 10-13-17	300 200 14-17-24 11-14-18	337 225 15-18-25 12-15-19
	3A2	CFM/SIDE THROW, FT.	150 75 11-13-18 6-9-11	200 100 13-15-22 8-10-13	250 125 15-17-24 9-11-15	300 150 16-18-26 10-12-16	350 175 17-19-28 10-13-17	400 200 18-22-30 11-14-18	450 225 19-22-32 12-15-19
	2A 2B	CFM/SIDE THROW, FT.	117 129 8-10-13 10-11-16	156 172 9-11-15 11-13-18	195 215 10-12-17 12-15-20	234 258 11-13-18 13-16-22	273 301 12-14-19 14-17-23	312 344 12-15-22 15-18-25	351 387 13-16-22 16-19-28
	2C 2D 2E	CFM/SIDE THROW, FT.	187 12-15-20	250 14-17-23	312 16-19-26	375 17-22-29	437 18-22-31	500 19-24-33	567 22-25-35
	1A 1B	CFM/SIDE THROW, FT.	225 150 13-16-22 10-12-17	300 200 15-18-25 11-14-19	375 250 17-20-29 12-16-22	450 300 18-22-32 13-17-23	525 350 19-23-34 14-18-25	600 400 22-25-36 15-19-26	675 450 22-28-38 16-22-29

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
18 x 12 1.5 SQ. FT.	RETURN FACTORS —SP=1.9 TP NC + 3	CFM NC	450 —	600 20	750 26	900 31	1050 35	1200 39	1350 42
	4B 4C	CFM/SIDE THROW, FT.	A 150 75 11-13-18 6-9-11	A 200 100 13-15-22 8-10-13	A 250 125 15-17-24 9-11-15	A 300 150 16-18-26 10-12-16	A 350 175 17-19-28 10-13-17	A 400 200 18-22-30 11-14-18	A 450 225 19-22-32 12-15-19
	3A1	CFM/SIDE THROW, FT.	B 187 75 12-15-20 6-9-11	B 250 100 14-17-23 8-10-13	B 312 125 16-19-26 9-11-15	B 375 150 17-22-29 10-12-16	B 437 175 18-22-31 10-13-17	B 500 200 19-24-33 11-14-18	B 562 225 22-25-35 12-15-1
	3A2	CFM/SIDE THROW, FT.	A 168 141 10-12-17 9-11-15	A 225 187 11-14-19 10-12-17	A 281 234 12-16-22 11-14-19	A 337 281 13-17-23 12-15-22	A 394 328 14-18-25 13-16-22	A 450 375 15-19-26 14-17-24	A 506 422 16-22-29 15-18-25
	2A 2B	CFM/SIDE THROW, FT.	A 225 13-16-22	A 300 15-18-25	A 375 17-20-29	A 450 18-22-32	A 525 19-23-34	A 600 22-25-36	A 675 22-28-38
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	B 300 150 14-17-24 10-12-17	B 400 200 16-19-28 11-14-19	B 500 250 18-22-32 12-16-22	B 600 300 19-23-34 13-17-23	B 700 350 22-25-36 14-18-25	B 800 400 22-26-39 15-19-26	B 900 450 24-29-41 16-22-29
	1A 1B	CFM/SIDE THROW, FT.	A 450 15-18-25	A 600 17-22-30	A 750 19-24-34	A 900 22-26-36	A 1050 22-28-39	A 1200 24-30-42	A 1350 25-32-44
21 x 12 1.75 SQ. FT.	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	525 —	700 20	875 26	1050 31	1225 35	1400 39	1575 42
	4B 4C	CFM/SIDE THROW, FT.	A 187 75 12-15-20 6-9-11	A 250 100 14-17-23 8-10-13	A 312 125 16-19-26 9-11-15	A 375 150 17-22-29 10-12-16	A 437 175 18-22-31 10-13-17	A 500 200 19-24-33 11-14-18	A 562 225 22-25-35 12-15-19
	4E	CFM/SIDE THROW, FT.	B 150 112 11-13-18 11-13-18	B 200 150 13-15-22 13-15-22	B 250 187 15-17-24 15-17-24	B 300 225 16-18-26 16-18-26	B 350 262 17-19-28 17-19-28	B 400 300 18-22-30 18-22-30	B 450 337 19-22-32 19-22-32
	3A1	CFM/SIDE THROW, FT.	A 225 75 13-16-22 6-9-11	A 300 100 15-18-25 8-10-13	A 375 125 17-20-29 9-11-15	A 450 150 18-22-32 10-12-16	A 525 175 19-23-34 10-13-17	A 600 200 22-25-36 11-14-18	A 675 225 22-28-38 12-15-19
	3A2	CFM/SIDE THROW, FT.	B 148 230 10-12-17 10-12-17	B 197 306 11-14-19 11-14-19	B 246 382 12-16-22 12-16-22	B 295 460 13-17-23 13-17-23	B 345 535 14-18-25 14-18-25	B 394 612 15-19-26 15-19-26	B 443 688 16-22-29 16-22-29
	2A 2B	CFM/SIDE THROW, FT.	A 262 13-16-22	A 350 15-18-25	A 437 17-20-29	A 525 18-22-32	A 612 19-23-34	A 700 22-25-36	A 787 22-28-38
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	B 375 150 15-18-25 10-12-17	B 500 200 17-22-30 11-14-19	B 625 250 19-24-34 12-16-22	B 750 300 22-26-36 13-17-23	B 875 350 22-28-39 14-18-25	B 1000 400 24-30-42 15-19-26	B 1125 450 25-32-44 16-22-29
	1A 1B	CFM/SIDE THROW, FT.	A 525 16-19-28	A 700 18-22-32	A 875 20-25-36	A 1050 22-28-39	A 1225 23-30-42	A 1400 25-32-44	A 1575 28-34-47
24 x 12 2.0 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 5	CFM NC	600 12	800 21	1000 27	1200 32	1400 36	1600 40	1800 43
	4B 4C	CFM/SIDE THROW, FT.	A 225 75 13-16-22 6-9-11	A 300 100 15-18-25 8-10-13	A 375 125 17-20-29 9-11-15	A 450 150 18-22-32 10-12-16	A 525 175 19-23-34 10-13-17	A 600 200 22-25-36 11-14-18	A 675 225 22-28-38 12-15-19
	4E	CFM/SIDE THROW, FT.	B 150 150 11-13-18 11-13-18	B 200 200 13-15-22 13-15-22	B 250 250 15-17-24 15-17-24	B 300 300 16-18-26 16-18-26	B 350 350 17-19-28 17-19-28	B 400 400 18-22-30 18-22-30	B 450 450 19-22-32 19-22-32
	3A1	CFM/SIDE THROW, FT.	A 262 75 13-16-22 6-9-11	A 350 100 15-18-25 8-10-13	A 437 175 17-20-29 9-11-15	A 525 150 18-22-32 10-12-16	A 612 175 19-23-34 10-13-17	A 700 200 22-25-36 11-14-18	A 787 225 22-28-38 12-15-19
	3B	CFM/SIDE THROW, FT.	B 300 150 11-13-18 10-12-17	B 400 200 13-15-22 11-14-19	B 500 250 15-17-24 12-16-22	B 600 300 16-18-26 13-17-23	B 700 350 17-19-28 14-18-25	B 800 400 18-22-30 15-19-26	B 900 450 19-22-32 16-22-29
	2A 2B	CFM/SIDE THROW, FT.	A 300 14-17-24	A 400 16-19-28	A 500 18-22-32	A 600 19-23-34	A 700 22-25-36	A 800 22-26-39	A 900 24-29-41
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	B 450 150 15-18-25 10-12-17	B 600 200 17-22-30 11-14-19	B 750 250 19-24-34 12-16-22	B 900 300 22-26-36 13-17-23	B 1050 350 22-28-39 14-18-25	B 1200 400 24-30-42 15-19-26	B 1350 450 25-32-44 16-22-29
	1A 1B	CFM/SIDE THROW, FT.	A 600 17-22-30	A 800 20-24-34	A 1000 23-28-39	A 1200 24-30-41	A 1400 26-32-44	A 1600 29-35-47	A 1800 31-37-50

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D63.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
30 x 12 2.5 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 6	CFM NC	750 15	1000 23	1250 29	1500 33	1750 37	2000 41	2250 43
	4B 4C	CFM/SIDE THROW, FT.	300 75 14-17-24 6-9-11	400 100 16-19-28 8-10-13	500 125 18-22-32 9-11-15	600 150 19-23-34 10-12-16	700 175 21-25-36 10-13-17	800 200 22-26-39 11-14-18	900 225 24-29-41 12-15-19
	4E	CFM/SIDE THROW, FT.	183 183 12-15-20 12-15-20	250 250 14-17-23 14-17-23	313 313 16-19-26 16-19-26	375 375 17-22-29 17-22-29	437 437 18-22-31 18-22-31	500 500 19-24-33 19-24-33	562 562 22-25-35 22-25-35
	3A1	CFM/SIDE THROW, FT.	337 75 14-17-24 6-9-11	450 100 16-19-28 8-10-13	562 125 18-22-32 9-11-15	675 150 19-23-34 10-12-16	787 175 21-25-36 10-13-17	900 200 22-26-39 11-14-18	1012 225 24-29-41 12-15-19
	2A 2B	CFM/SIDE THROW, FT.	375 15-18-25	500 17-22-30	625 19-24-34	750 22-26-36	875 22-28-39	1000 24-30-42	1125 25-32-44
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	600 150 17-22-30 10-12-17	800 200 20-24-34 11-14-19	1000 250 23-28-39 12-16-22	1200 300 24-30-41 13-17-23	1400 350 26-32-44 14-18-25	1600 400 29-35-47 15-19-26	1800 450 31-37-50 16-22-29
	1A 1B	CFM/SIDE THROW, FT.	750 18-22-32	1000 22-25-36	1250 24-29-41	1500 26-32-44	1750 28-34-47	2000 30-36-50	2250 32-38-53
	RETURN FACTORS —SP=4.0 TP NC + 7	CFM NC	900 16	1200 25	1500 30	1800 34	2100 38	2400 42	2700 44
	4B 4C	CFM/SIDE THROW, FT.	375 75 15-18-25 6-9-11	500 100 17-22-30 8-10-13	625 125 19-24-34 9-11-15	750 150 22-26-36 10-12-16	875 175 22-28-39 10-13-17	1000 200 24-30-42 11-14-18	1125 225 25-32-44 12-15-19
	4E	CFM/SIDE THROW, FT.	225 225 13-16-22 13-16-22	300 300 15-18-25 15-18-25	375 375 17-20-29 17-20-29	450 450 18-22-32 18-22-32	525 525 19-23-34 19-23-34	600 600 22-25-36 22-25-36	675 675 22-28-38 22-28-38
36 x 12 3.0 SQ. FT.	3A1	CFM/SIDE THROW, FT.	412 75 15-18-25 6-9-11	550 100 17-22-30 8-10-13	687 125 19-24-34 9-11-15	825 150 22-26-36 10-12-16	962 175 22-28-39 10-13-17	1100 200 24-30-42 11-14-18	1237 225 25-32-44 12-15-19
	2A 2B	CFM/SIDE THROW, FT.	450 15-18-25	600 17-22-30	750 19-24-34	900 22-26-36	1050 22-28-39	1200 24-30-42	1350 25-32-44
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	750 150 18-22-32 10-12-17	1000 200 22-25-36 11-14-19	1250 250 24-29-41 12-16-22	1500 300 26-32-44 13-17-23	1750 350 28-34-47 14-18-25	2000 400 30-36-50 15-19-26	2250 450 32-38-53 16-22-29
	1A 1B	CFM/SIDE THROW, FT.	900 19-24-33	1200 22-28-38	1500 25-32-43	1800 28-34-46	2100 30-36-50	2400 32-39-53	2700 34-41-57
	RETURN FACTORS —SP=2.0 TP NC + 4	CFM NC	560 14	750 21	935 28	1125 32	1310 36	1500 39	1685 43
	4B 4C	CFM/SIDE THROW, FT.	164 117 10-12-17 8-10-13	219 156 11-14-19 9-11-15	273 195 12-16-22 10-12-17	328 234 13-17-23 11-13-18	383 273 14-18-25 12-14-19	438 312 15-19-26 12-15-22	492 351 16-22-29 13-16-22
	3A1	CFM/SIDE THROW, FT.	222 117 13-16-22 8-10-13	297 156 15-18-25 9-11-15	371 195 17-20-29 10-12-17	445 234 18-22-32 11-13-18	519 273 19-23-34 12-14-19	594 312 22-25-36 12-15-22	668 351 22-28-38 13-16-22
	3A2	CFM/SIDE THROW, FT.	168 197 9-11-15 12-15-20	225 262 10-12-17 14-17-23	281 328 11-14-19 16-19-26	337 394 12-15-22 17-22-29	394 459 13-16-22 18-22-31	450 525 14-17-24 19-24-33	506 590 15-18-25 22-25-35
	2A 2B	CFM/SIDE THROW, FT.	281 14-17-24	375 16-19-28	468 18-22-32	562 19-23-34	656 22-25-36	750 22-26-39	843 24-29-41
	2C 2E 2D 2F	CFM/SIDE THROW, FT.	329 234 17-22-30 12-15-20	438 312 20-24-34 14-17-23	547 390 23-28-39 16-19-26	657 468 24-30-41 17-22-29	766 546 26-32-44 18-22-31	876 624 29-35-47 19-24-33	985 702 31-37-50 22-25-35
	1A 1B	CFM/SIDE THROW, FT.	562 16-19-28	750 18-22-32	937 20-25-36	1125 22-28-39	1312 23-30-42	1500 25-32-44	1687 28-34-47

Notes:

1. Core style 4E is sized to give equal flow as near as possible in directions A and B.
2. For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
21 x 15 2.185 SQ. FT.	RETURN FACTORS —SP=2.1 TP NC + 5	CFM NC	655 12	875 21	1090 28	1310 33	1530 36	1750 39	1970 43
	 4B  4C	CFM/SIDE THROW, FT.	210 117 13-16-22 8-10-13	281 156 15-18-25 9-11-15	361 195 17-20-29 10-12-17	422 234 18-22-32 11-13-18	493 273 19-23-34 12-14-19	563 312 22-25-36 12-15-22	634 351 22-28-38 13-16-22
	 4E	CFM/SIDE THROW, FT.	164 164 12-15-20 12-15-20	218 218 14-17-24 14-17-24	273 273 16-19-26 16-19-26	327 327 17-22-29 17-22-29	382 382 18-22-31 18-22-31	437 437 19-24-33 19-24-33	491 491 22-25-35 22-25-35
	 3A1	CFM/SIDE THROW, FT.	269 117 13-16-22 8-10-13	359 156 15-18-25 9-11-15	448 195 17-20-29 10-12-17	539 234 18-22-32 11-13-18	629 273 19-23-34 12-14-19	719 312 22-25-36 12-15-22	809 351 22-28-38 13-16-22
	 3A2	CFM/SIDE THROW, FT.	230 213 11-13-18 10-12-17	306 284 13-15-22 11-14-19	382 355 15-17-24 12-16-22	460 426 16-18-26 13-17-23	535 498 17-19-28 14-18-25	612 569 18-22-30 15-19-26	688 641 19-22-32 16-22-29
	 2A	CFM/SIDE THROW, FT.	327 14-17-24	437 16-19-28	596 18-22-32	656 19-23-34	766 22-25-36	875 22-26-39	985 24-29-41
	 2B	CFM/SIDE THROW, FT.	422 234 15-18-25 12-15-20	563 312 17-22-30 14-17-23	702 390 19-24-34 16-19-26	844 468 22-26-36 17-22-29	966 546 22-28-39 18-22-31	1126 624 24-30-42 19-24-33	1268 702 25-32-44 22-25-35
	 2C  2E	CFM/SIDE THROW, FT.	422 234 15-18-25 12-15-20	563 312 17-22-30 14-17-23	702 390 19-24-34 16-19-26	844 468 22-26-36 17-22-29	966 546 22-28-39 18-22-31	1126 624 24-30-42 19-24-33	1268 702 25-32-44 22-25-35
	 1A	CFM/SIDE THROW, FT.	655 17-22-30	875 20-24-34	1092 23-28-39	1312 24-30-41	1532 26-32-44	1750 29-35-47	1970 31-37-50
	 1B	CFM/SIDE THROW, FT.	655 17-22-30	875 20-24-34	1092 23-28-39	1312 24-30-41	1532 26-32-44	1750 29-35-47	1970 31-37-50
24 x 15 2.5 SQ. FT.	RETURN FACTORS —SP=2.6 TP NC + 6	CFM NC	750 14	1000 22	1250 29	1500 34	1750 37	2000 39	2250 44
	 4B  4C	CFM/SIDE THROW, FT.	258 117 13-16-22 8-10-13	344 156 15-18-25 9-11-15	430 195 17-20-29 10-12-17	516 234 18-22-32 11-13-18	602 273 19-23-34 12-14-19	688 312 22-25-36 12-15-22	774 351 22-28-38 13-16-22
	 4E	CFM/SIDE THROW, FT.	211 164 13-16-22 12-15-20	281 218 15-18-25 14-17-24	352 273 17-20-29 16-19-26	422 327 18-22-32 17-22-29	492 382 19-23-34 18-22-31	563 437 22-25-36 19-24-33	633 491 22-28-38 22-25-35
	 3A1	CFM/SIDE THROW, FT.	316 117 14-17-24 8-10-13	422 156 16-19-28 9-11-15	527 195 18-22-32 10-12-17	633 234 19-23-34 11-13-18	738 273 22-25-36 12-14-19	844 312 22-26-39 12-15-22	949 351 24-29-41 13-16-22
	 3A2	CFM/SIDE THROW, FT.	300 225 13-16-22 11-13-18	400 300 15-18-25 13-15-22	500 375 17-20-29 15-17-24	600 450 18-22-32 16-18-26	700 525 19-23-34 17-19-28	800 600 22-25-36 18-22-30	900 675 22-28-38 19-22-32
	 2A	CFM/SIDE THROW, FT.	375 15-18-25	500 17-22-30	625 19-24-34	750 22-26-36	875 22-28-39	1000 24-30-42	1125 25-32-44
	 2B	CFM/SIDE THROW, FT.	375 15-18-25	500 17-22-30	625 19-24-34	750 22-26-36	875 22-28-39	1000 24-30-42	1125 25-32-44
	 2C  2E	CFM/SIDE THROW, FT.	516 234 16-19-28 12-15-20	688 312 18-22-32 14-17-23	860 390 20-25-36 16-19-26	1032 468 22-28-39 17-22-29	1204 546 23-30-42 18-22-31	1376 624 25-32-44 19-24-33	1548 702 28-34-47 22-25-35
	 1A	CFM/SIDE THROW, FT.	750 18-22-32	1000 22-25-36	1250 24-29-41	1500 26-32-44	1750 28-34-47	2000 30-36-50	2250 32-38-53
	 1B	CFM/SIDE THROW, FT.	750 18-22-32	1000 22-25-36	1250 24-29-41	1500 26-32-44	1750 28-34-47	2000 30-36-50	2250 32-38-53
	 1B	CFM/SIDE THROW, FT.	750 18-22-32	1000 22-25-36	1250 24-29-41	1500 26-32-44	1750 28-34-47	2000 30-36-50	2250 32-38-53
30 x 15 3.125 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	935 14	1250 23	1565 30	1875 36	2190 39	2500 40	2810 45
	 4B  4C	CFM/SIDE THROW, FT.	351 117 14-17-24 8-10-13	469 156 16-19-28 9-11-15	587 195 18-22-32 10-12-17	703 234 19-23-34 11-13-18	822 273 22-25-36 12-14-19	938 312 22-26-39 12-15-22	1054 351 24-29-41 13-16-22
	 4E	CFM/SIDE THROW, FT.	258 211 13-16-22 13-16-22	344 281 15-18-25 15-18-25	430 352 17-20-29 17-20-29	516 422 18-22-32 18-22-32	602 492 19-23-34 19-23-34	688 583 22-25-36 22-25-36	775 633 22-28-38 22-28-38
	 3A1	CFM/SIDE THROW, FT.	410 117 15-18-25 8-10-13	547 156 17-22-30 9-11-15	685 195 19-24-34 10-12-17	820 234 22-26-36 11-13-18	958 273 22-28-39 12-14-19	1094 312 24-30-42 12-15-22	1224 351 25-32-44 13-16-22
	 3B	CFM/SIDE THROW, FT.	468 234 12-15-20 12-15-20	625 312 14-17-23 14-17-23	782 391 16-19-26 16-19-26	937 469 17-22-29 17-22-29	1095 547 18-22-31 18-22-31	1250 625 19-24-33 19-24-33	1406 702 22-25-35 22-25-35
	 2A	CFM/SIDE THROW, FT.	468 16-19-28	625 18-22-32	782 20-25-36	937 22-28-39	1095 23-30-42	1250 25-32-44	1405 28-34-47
	 2B	CFM/SIDE THROW, FT.	468 16-19-28	625 18-22-32	782 20-25-36	937 22-28-39	1095 23-30-42	1250 25-32-44	1405 28-34-47
	 2C  2E	CFM/SIDE THROW, FT.	702 234 17-22-30 12-15-20	938 312 20-24-34 14-17-23	1175 390 23-28-39 16-19-26	1407 468 24-30-41 17-22-29	1644 546 26-32-44 18-22-31	1876 624 29-35-47 19-24-33	2108 702 34-37-50 22-25-35
	 1A	CFM/SIDE THROW, FT.	937 19-24-33	1250 22-28-38	1565 25-32-43	1875 28-34-46	2190 30-36-50	2500 32-39-53	2810 34-41-57
	 1B	CFM/SIDE THROW, FT.	937 19-24-33	1250 22-28-38	1565 25-32-43	1875 28-34-46	2190 30-36-50	2500 32-39-53	2810 34-41-57

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
36 x 15 3.75 SQ. FT.	RETURN FACTORS —SP=3.8 TP NC + 7	CFM NC	1125 13	1500 23	1875 31	2250 37	2625 40	3000 41	3375 46
	4B 4C	CFM/SIDE THROW, FT.	446 117 15-18-25 8-10-13	594 156 17-22-30 9-11-15	742 195 19-24-34 10-12-17	891 234 22-26-36 11-13-18	1039 273 22-30-39 12-14-19	1188 312 24-30-42 12-15-22	1336 351 25-32-44 13-16-22
	4E	CFM/SIDE THROW, FT.	306 258 14-17-24 13-16-22	408 344 16-19-28 15-18-25	510 430 18-22-32 17-20-29	612 516 19-23-34 18-22-32	714 602 22-25-36 19-23-34	816 688 22-26-39 22-25-36	918 775 24-29-41 22-28-38
	3A1	CFM/SIDE THROW, FT.	504 117 16-19-28 8-10-13	672 156 18-22-32 9-11-15	840 195 20-25-36 10-12-17	1008 234 22-30-39 11-13-18	1176 273 23-30-42 12-14-19	1344 312 25-32-44 12-15-22	1512 351 28-34-47 13-16-22
	2A 2B	CFM/SIDE THROW, FT.	562 16-19-28	750 18-22-32	937 20-25-36	1125 22-28-39	1312 23-30-42	1500 25-32-44	1682 28-34-47
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	890 234 19-24-33 12-15-20	1188 312 22-28-33 14-17-23	1485 390 25-32-43 16-19-26	1782 468 28-34-46 17-22-29	2079 546 30-36-50 18-22-31	2376 624 32-39-53 19-24-33	2873 702 34-41-57 22-25-35
	1A 1B	CFM/SIDE THROW, FT.	1125 20-25-35	1500 23-29-40	1875 26-32-45	2250 28-35-49	2625 31-38-52	3000 33-40-57	3375 35-43-60
	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	785 14	1050 21	1310 27	1575 32	1840 36	2100 40	2360 43
	4B 4C	CFM/SIDE THROW, FT.	225 169 11-13-18 9-11-15	300 225 13-15-22 10-12-17	375 280 15-17-24 11-14-19	450 337 16-18-27 12-15-22	526 394 17-19-28 13-16-22	600 450 18-22-30 14-17-24	674 506 19-22-32 15-18-25
	3A1	CFM/SIDE THROW, FT.	309 169 14-17-24 9-11-15	412 225 16-19-28 10-12-17	514 281 18-22-32 11-14-19	619 337 19-23-34 12-15-22	723 394 22-25-36 13-16-22	825 450 22-26-39 14-17-24	927 506 24-29-41 15-18-25
21 x 18 2.625 SQ. FT.	3A2	CFM/SIDE THROW, FT.	279 230 14-17-24 10-12-17	372 306 16-19-28 11-14-19	464 382 18-22-32 12-16-22	557 460 19-23-34 13-17-23	652 535 22-25-36 14-18-25	744 612 22-26-39 15-19-26	836 688 24-29-41 16-22-29
	2A 2B	CFM/SIDE THROW, FT.	393 15-18-25	525 17-22-30	655 19-24-31	787 22-26-36	920 22-28-39	1050 24-30-42	1180 25-32-44
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	450 338 15-18-25 13-16-22	600 450 17-22-30 15-18-25	750 560 19-24-31 17-20-29	900 675 22-26-36 18-22-32	1060 790 22-28-39 19-23-34	1200 900 24-30-42 22-25-36	1350 1010 25-32-44 22-28-38
	1A 1B	CFM/SIDE THROW, FT.	787 18-22-32	1050 22-25-36	1310 24-29-41	1575 26-32-44	1840 28-34-47	2100 30-36-50	2360 32-38-53
	RETURN FACTORS —SP=2.5 TP NC + 6	CFM NC	900 15	1200 22	1500 28	1800 33	2100 37	2400 40	2700 43
	4B 4C	CFM/SIDE THROW, FT.	281 169 14-17-24 9-11-15	375 225 16-19-28 10-12-17	469 281 18-22-32 11-14-19	563 337 19-23-34 12-15-22	656 394 22-25-36 13-16-22	750 450 22-26-39 14-17-24	844 506 24-29-41 15-18-25
	4E	CFM/SIDE THROW, FT.	225 225 13-16-22 13-16-22	300 300 15-18-25 15-18-25	375 375 17-20-29 17-20-29	450 450 18-22-32 18-22-32	525 525 19-23-34 19-23-34	600 600 22-25-36 22-25-36	675 675 22-28-38 22-28-38
	3A1	CFM/SIDE THROW, FT.	366 169 15-18-25 9-11-15	487 225 17-22-30 10-12-17	609 281 19-24-34 11-14-19	731 337 22-26-36 12-15-22	853 394 22-28-39 13-16-22	975 450 24-30-42 14-17-24	1098 506 25-32-44 15-18-25
	3A2	CFM/SIDE THROW, FT.	300 300 14-17-24 11-13-18	400 400 16-19-28 13-15-22	500 500 18-22-32 15-17-24	600 600 19-23-34 16-18-26	700 700 22-25-36 17-19-28	800 800 22-26-39 18-22-30	900 900 24-29-41 19-22-32
	2A 2B	CFM/SIDE THROW, FT.	450 15-18-25	600 17-22-30	750 19-24-34	900 22-26-36	1050 22-28-39	1200 24-30-42	1350 25-32-44
24 x 18 3.0 SQ. FT.	2C 2D 2E 2F	CFM/SIDE THROW, FT.	562 338 16-19-28 13-16-22	750 450 18-22-32 15-18-25	938 562 20-25-36 17-20-29	1125 675 22-28-39 18-22-32	1313 787 23-30-42 19-23-34	1500 900 25-32-44 22-25-36	1688 1012 28-34-47 22-28-38
	1A 1B	CFM/SIDE THROW, FT.	900 19-24-33	1200 22-28-38	1500 25-32-43	1800 28-34-46	2100 30-36-50	2400 32-39-53	2700 34-41-57

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
30 x 18 3.75 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	1125 15	1500 23	1875 29	2250 34	2625 38	3000 42	3375 45
	4B 4C	CFM/SIDE THROW, FT.	394 169 15-18-25 9-11-15	525 225 17-22-30 10-12-17	657 281 19-24-34 11-14-19	788 337 22-26-36 12-15-22	918 394 22-28-39 13-16-22	1050 450 24-30-42 14-17-24	1181 506 25-32-44 15-18-25
	4E	CFM/SIDE THROW, FT.	281 281 14-17-24 14-17-24	375 375 16-19-28 16-19-28	469 469 18-22-32 18-22-32	563 563 19-23-34 19-23-34	657 657 22-25-36 22-25-36	750 750 22-26-39 22-26-39	845 845 24-29-41 24-29-41
	3A1	CFM/SIDE THROW, FT.	478 169 16-19-28 9-11-15	637 225 18-22-32 10-12-17	797 281 20-25-36 11-14-19	956 337 22-28-39 12-15-22	1115 394 23-30-42 13-16-22	1275 450 25-32-44 14-17-24	1434 506 28-34-47 15-18-25
	3A2	CFM/SIDE THROW, FT.	469 327 14-17-24 12-15-20	625 437 16-19-28 14-17-23	782 546 18-22-32 16-19-26	937 656 19-23-34 17-22-29	1093 766 22-25-36 18-22-31	1250 875 22-26-39 19-24-33	1406 984 24-29-41 22-25-35
	2A 2B	CFM/SIDE THROW, FT.	562 16-19-28	750 18-22-32	937 20-25-36	1125 22-28-39	1312 23-30-42	1500 25-32-44	1687 28-34-47
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	787 337 18-22-32 13-16-22	1050 450 22-25-36 15-18-25	1313 562 24-29-41 17-20-29	1575 675 26-32-44 18-22-32	1838 787 28-34-47 19-23-34	2100 900 30-36-50 22-25-36	2363 1012 32-38-53 22-28-38
	1A 1B	CFM/SIDE THROW, FT.	1125 20-25-35	1500 23-29-39	1875 26-33-45	2250 29-35-49	2625 31-38-52	3000 33-40-57	3375 35-43-60
	RETURN FACTORS —SP=3.6 TP NC + 8	CFM NC	1350 16	1800 24	2250 30	2700 35	3150 39	3600 42	4050 45
	4B 4C	CFM/SIDE THROW, FT.	506 169 16-19-28 9-11-15	675 225 18-22-32 10-12-17	844 281 22-25-36 11-14-19	1013 337 22-28-39 12-15-22	1181 394 23-30-42 13-16-22	1350 450 25-32-44 14-17-24	1519 506 28-34-47 15-18-25
36 x 18 4.5 SQ. FT.	4E	CFM/SIDE THROW, FT.	339 339 14-17-24 14-17-24	452 452 16-19-28 16-19-28	565 565 18-22-32 18-22-32	678 678 19-23-34 19-23-34	791 791 22-25-36 22-25-36	904 904 22-26-39 22-26-39	1020 1020 24-29-41 24-29-41
	3A1	CFM/SIDE THROW, FT.	591 169 17-22-30 9-11-15	787 225 20-24-34 10-12-17	984 281 23-28-39 11-14-19	1181 337 24-30-41 12-15-22	1378 394 26-32-44 13-16-22	1575 450 29-35-47 14-17-24	1772 506 31-37-50 15-18-25
	3B	CFM/SIDE THROW, FT.	675 337 13-16-22 13-16-22	900 450 15-18-25 15-18-25	1125 562 17-20-29 17-20-29	1350 675 18-22-32 18-22-32	1575 787 19-23-34 19-23-34	1800 900 22-25-36 22-25-36	2025 1012 22-28-38 22-28-38
	2A 2B	CFM/SIDE THROW, FT.	675 17-22-30	900 20-24-34	1125 23-28-39	1350 24-30-41	1575 26-32-44	1800 29-35-47	2025 31-37-50
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	1010 337 20-25-35 13-16-22	1350 450 23-29-40 15-18-25	1688 562 26-33-45 17-20-29	2025 675 29-35-49 18-22-32	2363 787 31-38-52 19-23-34	2700 900 33-40-57 22-25-36	3038 1012 35-43-60 22-28-38
	1A 1B	CFM/SIDE THROW, FT.	1350 22-25-37	1800 24-30-42	2250 28-34-48	2700 30-36-51	3150 32-39-56	3600 34-42-58	4050 37-44-63
	RETURN FACTORS —SP=2.1 TP NC + 7	CFM NC	1050 15	1400 22	1750 28	2100 33	2450 37	2800 41	3150 44
	4B 4C	CFM/SIDE THROW, FT.	295 230 12-15-20 10-12-17	394 306 14-17-23 11-14-19	493 382 16-19-26 12-16-22	590 460 17-22-29 13-17-23	690 535 18-22-31 14-18-25	788 612 19-24-33 15-19-26	887 688 22-25-35 16-22-29
	3A1	CFM/SIDE THROW, FT.	410 230 15-18-25 10-12-17	547 306 17-22-30 11-14-19	684 382 19-24-34 12-16-22	820 460 22-26-36 13-17-23	957 535 22-28-39 14-18-25	1094 612 24-30-42 15-19-26	1231 688 25-32-44 16-22-29
	3A2	CFM/SIDE THROW, FT.	375 300 15-18-25 11-13-18	500 400 17-22-30 13-15-22	625 500 19-24-34 15-17-24	750 600 22-26-36 16-18-26	875 700 22-28-39 17-19-28	1000 800 24-30-42 18-22-30	1125 900 25-32-44 19-22-32
24 x 21 3.5 SQ. FT.	2A 2B	CFM/SIDE THROW, FT.	525 16-19-28	700 18-22-32	875 20-25-36	1050 22-28-39	1225 23-30-42	1400 25-32-44	1575 28-34-47
	2C 2D 2E 2F	CFM/SIDE THROW, FT.	591 459 17-22-30 14-17-24	788 612 20-24-34 16-19-28	986 764 23-28-39 18-22-32	1180 920 24-30-41 19-23-34	1380 1070 26-32-44 22-25-36	1576 1224 29-35-47 22-26-39	1774 1376 31-37-50 24-29-41
	1A 1B	CFM/SIDE THROW, FT.	1050 20-25-35	1400 23-29-40	1750 26-33-45	2100 29-35-49	2450 31-38-52	2800 33-40-51	3150 35-43-60
	RETURN FACTORS —SP=2.1 TP NC + 7	CFM NC	1050 15	1400 22	1750 28	2100 33	2450 37	2800 41	3150 44

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: A x .82 = B.

For performance notes, see page D63.

D

CEILING DIFFUSERS

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
30 x 21 4.375 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1310 16	1750 23	2185 29	2625 34	3060 38	3500 41	3935 44
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	425 230 15-18-25 10-12-17	569 306 17-22-30 11-14-19	710 382 19-24-34 12-16-22	852 460 22-26-36 13-17-23	995 535 22-28-39 14-18-25	1138 612 24-30-42 15-19-26	1279 688 25-32-44 16-22-29
	3A1	CFM/SIDE THROW, FT.	360 295 14-17-24 14-17-24	480 394 16-19-28 16-19-28	600 492 18-22-32 18-22-32	720 591 19-23-34 19-23-34	840 690 22-25-36 22-25-36	960 788 22-26-39 22-26-39	1080 887 24-29-41 24-29-41
	3A2	CFM/SIDE THROW, FT.	540 230 16-19-28 10-12-17	722 306 18-22-32 11-14-19	901 382 20-25-36 12-16-22	1082 460 22-28-39 13-17-23	1262 535 23-30-42 14-18-25	1444 612 25-32-44 15-19-26	1623 688 28-34-47 16-22-29
	2A 2B	CFM/SIDE THROW, FT.	468 422 15-18-25 12-15-20	625 562 17-22-30 14-17-23	782 701 19-24-34 16-19-26	937 844 22-26-36 17-22-29	1093 983 22-28-39 18-22-31	1250 1125 24-30-42 19-24-33	1406 1264 25-32-44 22-25-36
	2C 2D 2E	CFM/SIDE THROW, FT.	655 17-22-30	875 20-24-34	1092 23-28-39	1312 24-30-41	1530 26-32-44	1750 29-35-47	1968 31-37-50
	1A 1B	CFM/SIDE THROW, FT.	853 457 18-22-32 14-17-24	1138 612 22-25-36 16-19-28	1421 764 24-29-41 18-22-32	1705 920 26-32-44 19-23-34	1990 1070 28-34-47 22-25-36	2276 1224 30-36-50 22-26-39	2559 1376 32-38-53 24-29-41
36 x 21 5.25 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	1575 16	2100 24	2625 30	3150 34	3675 38	4200 42	4725 45
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	558 230 16-19-28 10-12-17	744 306 18-22-32 11-14-19	930 382 20-25-36 12-16-22	1115 460 22-28-39 13-17-23	1306 535 23-30-42 14-18-25	1488 612 25-32-44 15-19-26	1674 688 28-34-47 16-22-29
	3A1	CFM/SIDE THROW, FT.	427 360 15-18-25 15-18-25	568 480 17-22-30 17-22-30	710 600 19-24-34 19-24-34	852 720 22-26-36 22-26-36	945 840 22-28-39 22-28-39	1135 960 24-30-42 24-30-42	1280 1080 25-32-44 25-32-44
	3A2	CFM/SIDE THROW, FT.	672 230 17-22-30 10-12-17	897 306 20-24-34 11-14-19	1121 382 23-28-39 12-16-22	1345 460 24-30-41 13-17-23	1570 535 26-32-44 14-18-25	1794 612 29-35-47 15-19-26	2018 688 31-37-50 16-22-29
	2A 2B	CFM/SIDE THROW, FT.	675 450 15-18-25 13-16-22	900 600 17-22-30 15-18-25	1125 750 19-24-34 17-20-29	1350 900 22-26-36 18-22-32	1575 1050 22-28-39 19-23-34	1800 1200 24-30-42 22-25-36	2025 1350 25-32-44 22-28-38
	2C 2D 2E	CFM/SIDE THROW, FT.	787 18-22-32	1050 22-25-36	1312 24-29-41	1575 26-32-44	1837 28-34-47	2100 30-36-50	2362 32-38-53
	1A 1B	CFM/SIDE THROW, FT.	1115 460 20-25-35 14-17-24	1488 612 23-29-40 16-19-28	1861 764 26-33-45 18-22-32	2230 920 29-35-49 19-23-34	2605 1070 31-38-52 22-25-36	2976 1224 33-40-57 22-26-39	3349 1376 35-43-60 24-29-41
30 x 24 5.0 SQ. FT.	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1500 17	2000 25	2500 30	3000 35	3500 39	4000 43	4500 46
	4B 4C	CFM/SIDE THROW, FT.	A B	A B	A B	A B	A B	A B	A B
	4E	CFM/SIDE THROW, FT.	450 300 15-18-25 11-13-18	600 400 17-22-30 13-15-22	750 500 19-24-34 15-17-24	900 600 22-26-36 16-18-26	1050 700 22-28-39 17-19-28	1200 800 24-30-42 18-22-30	1350 900 25-32-44 19-22-32
	3A1	CFM/SIDE THROW, FT.	375 375 15-18-25 15-18-25	500 500 17-22-30 17-22-30	625 625 19-24-34 19-24-34	750 750 22-26-36 22-26-36	875 875 22-28-39 22-28-39	1000 1000 24-30-42 24-30-42	1125 1125 25-32-44 25-32-44
	3A2	CFM/SIDE THROW, FT.	600 300 17-22-30 11-13-18	800 400 20-24-34 13-15-22	1000 500 23-28-39 15-17-24	1200 600 24-30-41 16-18-26	1400 700 26-32-44 17-19-28	1600 800 29-35-47 18-22-30	1800 900 31-37-50 19-22-32
	2A 2B	CFM/SIDE THROW, FT.	515 470 18-22-32 15-18-25	687 625 22-25-36 17-22-30	859 782 24-29-41 19-24-34	1031 937 26-32-44 22-26-36	1203 1093 28-34-47 22-28-39	1375 1250 30-36-50 24-30-42	1548 1406 32-38-53 25-32-44
	2C 2D 2E	CFM/SIDE THROW, FT.	750 19-24-33	1000 22-28-38	1250 25-32-43	1500 28-34-46	1750 30-36-50	2000 32-39-53	2250 34-41-57
	1A 1B	CFM/SIDE THROW, FT.	900 600 22-25-37	1200 800 24-30-42	1500 1000 28-34-48	1800 1200 30-36-51	2100 1400 32-39-56	2400 1600 34-42-58	2700 1800 37-44-63

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
36 x 24 6.0 SQ. FT.	RETURN FACTORS —SP=3.3 TP NC + 8	CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46
	4B 4C	CFM/SIDE THROW, FT.	600 300 17-22-30 11-13-18	800 400 20-24-34 13-15-22	1000 500 23-28-39 15-17-24	1200 600 24-30-41 16-18-26	1400 700 26-32-44 17-19-28	1600 800 29-35-47 18-22-30	1800 900 31-37-50 19-22-32
	4E	CFM/SIDE THROW, FT.	450 450 15-18-25 15-18-25	600 600 17-22-30 17-22-30	750 750 19-24-34 19-24-34	900 900 22-26-36 22-26-36	1050 1050 22-28-39 22-28-39	1200 1200 24-30-42 24-30-42	1350 1350 25-32-41 25-32-44
	3A1	CFM/SIDE THROW, FT.	750 300 18-22-32 11-13-18	1000 400 22-25-36 13-15-22	1250 500 24-29-41 15-17-24	1500 600 26-32-44 16-18-26	1750 700 28-34-47 17-19-28	2000 800 30-36-50 18-22-30	2250 900 32-38-53 19-22-32
	3A2	CFM/SIDE THROW, FT.	676 562 16-19-28 14-17-24	900 750 18-22-32 16-19-28	1125 937 20-25-36 18-22-32	1350 1125 22-28-39 19-23-34	1575 1312 23-30-42 22-25-36	1800 1500 25-32-44 22-26-39	2025 1687 28-34-47 24-29-41
	2A	CFM/SIDE THROW, FT.	900 19-24-33	1200 22-28-38	1500 25-32-43	1800 28-34-46	2100 30-36-50	2400 32-39-53	2700 34-41-57
	2B	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
	2C 2D	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
	2E	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
	1A 1B	CFM/SIDE THROW, FT.	1800 24-30-41	2400 28-34-47	3000 32-39-53	3600 34-41-58	4200 36-44-62	4800 39-47-67	5400 41-50-72
36 x 30 7.5 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	2250 19	3000 26	3750 32	4500 37	5250 41	6000 44	6750 47
	4B 4C	CFM/SIDE THROW, FT.	657 468 17-22-30 12-15-20	875 625 20-24-34 14-17-23	1093 782 23-28-39 16-19-26	1313 937 24-30-41 17-22-29	1532 1093 26-32-44 18-22-31	1750 1250 29-35-47 19-24-33	1969 1406 31-37-50 22-25-35
	3A1	CFM/SIDE THROW, FT.	890 468 19-24-33 12-15-20	1187 625 22-28-38 14-17-23	1484 782 25-32-43 16-19-26	1781 937 28-34-46 17-22-29	2078 1093 30-36-50 18-22-31	2375 1250 32-39-53 19-24-33	2672 1406 34-41-57 22-25-35
	3A2	CFM/SIDE THROW, FT.	787 675 18-22-32 13-16-22	1050 900 22-25-36 15-18-25	1312 1125 24-29-41 17-20-29	1575 1350 26-32-44 18-22-32	1837 1575 28-34-47 19-23-34	2100 1800 30-36-50 22-25-36	2362 2025 32-38-53 22-28-38
	2A	CFM/SIDE THROW, FT.	1125 20-25-35	1500 23-29-40	1875 26-33-45	2250 29-35-49	2625 31-38-52	3000 33-40-57	3375 35-43-60
	2B	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
	2C 2D	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
	2E	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
	1A 1B	CFM/SIDE THROW, FT.	2250 24-30-41	3000 28-34-47	3750 32-39-53	4500 34-41-58	5250 36-44-62	6000 39-47-67	6750 41-50-72

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

CFM - cubic feet per minute
VP - velocity pressure - inches w.g.
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Neck Velocity - feet per minute

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 30% with a downward projection of approximately 30 degrees.

2. Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
 3. Correction factors for round inlets - see next page.
 4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

PERFORMANCE DATA CORRECTIONS:

MODEL 6400

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 2

- 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 D50).

- NC = 23 + 7 = 30
- Total Pressure = .08 x 1.65 = 0.132
- Throw = 15 x 1.15 = 17.25 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

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 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 D50).

- Return NC = 28 + 4 = 32.
- Return negative SP = 1.3 x (– .116) = – .151.

RECOMMENDED MAXIMUM AIRFLOW – TABLE 3

Diffuser mounting height and air temperature differential (ΔT) are both to be considered when selecting diffusers. As air travels from a diffuser, room air is entrained into the supply air stream and the delivery pattern thickens.

If the volume or throw requirement is too great, the lower part of the supply air stream can intrude into the occupied zone causing objectionable drafts. Consult Table 3 to verify selection.

TABLE 3 Maximum Recommended Airflow

CEILING HEIGHT (ft.)	MAX. AIRFLOW PER DIFFUSER (CFM)				MAX. REC. COOLING TEMP. DIFFERENTIAL ΔT
	4-way	3-way	2-way (2A, 2B)	1-way & 2S	
7	400	300	200	100	15°F
8	600	450	300	150	20°F
9	1200	900	600	300	25°F
10	1800	1350	900	450	25°F
12	3200	2400	1600	800	30°F
14	4800	3600	2400	1200	30°F
16	6000	4500	3000	1500	30°F

PERFORMANCE DATA:

MODEL 6400 • SQUARE NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
6 x 6 .25 SQ. FT.	RETURN FACTORS	—SP=1.1 TP NC + 1	CFM NC	75 —	100 10	125 17	150 22	175 26	200 31	225 35
				A B	A B	A B	A B	A B	A B	A B
	4A		CFM/SIDE THROW, FT.	19 4-5-8	25 5-6-9	31 6-8-10	37 6-8-11	44 8-9-12	50 8-9-12	56 9-10-13
	3A		CFM/SIDE THROW, FT.	19 28 4-5-8 5-8-11	25 38 5-6-9 6-9-12	31 47 6-8-10 8-10-14	37 56 6-8-11 8-11-15	44 66 8-9-12 9-12-16	50 75 8-9-12 9-12-17	56 85 9-10-13 10-13-18
	2S 2G		CFM/SIDE THROW, FT.	37 8-9-12	50 9-10-14	62 10-11-16	75 11-12-17	88 12-13-18	100 12-14-19	113 13-15-22
	1S		CFM/SIDE THROW, FT.	75 9-11-15	100 10-12-17	125 11-14-19	150 12-15-22	175 13-16-22	200 14-17-24	225 15-18-25
9 x 9 .56 SQ. FT.	RETURN FACTORS	—SP=1.2 TP NC + 2	CFM NC	170 —	225 14	280 20	340 26	395 31	450 35	505 38
				A B	A B	A B	A B	A B	A B	A B
	4A		CFM/SIDE THROW, FT.	42 5-6-10	56 6-8-11	70 8-9-12	84 8-10-13	98 9-10-14	112 9-11-15	126 10-12-16
	3A		CFM/SIDE THROW, FT.	42 63 5-6-10 8-10-13	56 85 6-8-11 9-11-15	70 106 8-9-12 10-12-17	84 127 8-10-13 11-13-18	98 148 9-10-14 12-14-19	112 169 9-11-15 12-15-22	126 190 10-12-16 13-16-22
	2S 2G		CFM/SIDE THROW, FT.	84 9-10-15	112 11-13-18	141 12-15-20	169 13-16-22	197 14-17-23	225 15-18-25	253 16-19-28
	1S		CFM/SIDE THROW, FT.	169 12-15-20	225 14-17-23	282 16-19-26	338 17-22-29	394 18-22-31	450 19-24-33	507 22-25-35
12 x 12 1.0 SQ. FT.	RETURN FACTORS	—SP=1.3 TP NC + 4	CFM NC	300 10	400 17	500 23	600 28	700 33	800 36	900 39
				A B	A B	A B	A B	A B	A B	A B
	4A		CFM/SIDE THROW, FT.	75 6-9-11	100 8-10-13	125 9-11-15	150 10-12-16	175 10-13-17	200 11-14-18	225 12-15-19
	3A		CFM/SIDE THROW, FT.	75 112 6-9-11 9-11-15	100 150 8-10-13 10-12-17	125 187 9-11-15 11-14-19	150 225 10-12-16 12-15-22	175 262 10-13-17 13-16-22	200 300 11-14-18 14-17-24	225 338 12-15-19 15-18-25
	2S 2G		CFM/SIDE THROW, FT.	150 11-13-18	200 13-15-22	250 15-17-24	300 16-18-26	350 17-19-28	400 18-22-30	450 19-22-32
	1S		CFM/SIDE THROW, FT.	300 14-17-24	400 16-19-28	500 18-22-32	600 19-23-34	700 22-25-36	800 23-27-38	900 24-29-41
15 x 15 1.56 SQ. FT.	RETURN FACTORS	—SP=1.8 TP NC + 4	CFM NC	465 10	625 19	780 25	935 30	1090 33	1250 38	1400 41
				A B	A B	A B	A B	A B	A B	A B
	4A		CFM/SIDE THROW, FT.	117 8-10-13	156 9-11-15	195 10-12-17	234 11-13-18	273 12-14-19	312 12-15-22	350 13-16-24
	3A		CFM/SIDE THROW, FT.	117 175 8-10-13 11-13-18	156 234 9-11-15 13-15-22	195 292 10-12-17 15-17-24	234 351 11-13-18 16-18-26	273 409 12-14-19 17-19-28	312 468 12-15-22 18-22-30	350 527 13-16-24 19-22-32
	2S 2G		CFM/SIDE THROW, FT.	234 13-16-22	312 15-18-25	390 17-20-29	468 18-22-32	546 19-23-34	625 22-25-36	700 22-28-38
	1S		CFM/SIDE THROW, FT.	467 16-19-28	625 18-22-32	780 20-25-36	935 22-28-39	1090 23-30-42	1250 25-32-44	1400 28-34-47
18 x 18 2.25 SQ. FT.	RETURN FACTORS	—SP=2.1 TP NC + 6	CFM NC	675 12	900 21	1125 27	1350 31	1575 36	1800 39	2025 42
				A B	A B	A B	A B	A B	A B	A B
	4A		CFM/SIDE THROW, FT.	168 9-11-15	225 10-12-17	281 11-14-19	337 12-15-21	394 13-16-22	450 14-17-24	506 15-18-25
	3A		CFM/SIDE THROW, FT.	168 253 9-11-15 12-15-20	225 338 10-12-17 14-17-23	281 422 11-14-19 16-19-26	337 506 12-15-21 17-22-29	394 590 13-16-22 18-22-31	450 675 14-17-24 19-24-33	506 760 15-18-25 22-25-35
	2S 2G		CFM/SIDE THROW, FT.	337 14-17-24	450 16-19-28	562 18-22-32	675 19-23-34	787 22-25-36	900 22-26-39	1012 24-29-41
	1S		CFM/SIDE THROW, FT.	675 17-22-30	900 20-24-34	1125 23-28-39	1350 24-30-41	1575 26-32-44	1800 29-35-47	2025 31-37-50

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • SQUARE NECK

NOMINAL NECK SIZE	BLOW PATTERNS		NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
21 x 21 3.06 SQ. FT.	RETURN FACTORS	—SP=2.6 TP NC + 8	CFM NC	915 14	1225 22	1530 28	1835 32	2140 37	2450 40	2750 43
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	230 10-12-17	306 11-14-19	382 12-16-22	460 13-17-23	535 14-18-25	612 15-19-26	688 16-22-29	
	 3A	CFM/SIDE THROW, FT.	230 345 10-12-17 13-16-22	306 460 11-14-19 15-18-25	382 573 12-16-22 17-20-29	460 688 13-17-23 18-22-32	535 802 14-18-25 19-23-34	612 918 15-19-26 22-25-36	688 1030 16-22-29 22-28-38	
	 2S  2G	CFM/SIDE THROW, FT.	458 16-19-28	612 18-22-32	765 20-25-36	917 22-28-39	1070 23-30-42	1225 25-32-44	1375 28-34-47	
	 1S	CFM/SIDE THROW, FT.	917 19-24-33	1225 22-28-38	1530 25-32-43	1835 28-34-46	2140 30-36-50	2450 32-39-53	2750 34-41-57	
24 x 24 4.0 SQ. FT.	RETURN FACTORS	—SP=2.7 TP NC + 8	CFM NC	1200 15	1600 23	2000 29	2400 33	2800 37	3200 41	3600 44
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	300 11-13-18	400 13-15-22	500 15-17-24	600 16-18-26	700 17-19-28	800 18-22-30	900 19-22-32	
	 3A	CFM/SIDE THROW, FT.	300 450 11-13-18 14-17-24	400 600 13-15-22 16-19-28	500 750 15-17-24 18-22-32	600 900 16-18-26 19-23-34	700 1050 17-19-28 22-25-36	800 1200 18-22-30 22-26-39	900 1350 19-22-32 24-29-41	
	 2S  2G	CFM/SIDE THROW, FT.	600 17-22-30	800 20-24-34	1000 23-28-39	1200 24-30-41	1400 26-32-44	1600 29-35-47	1800 31-37-50	
	 1S	CFM/SIDE THROW, FT.	1200 22-25-37	1600 24-30-42	2000 28-34-48	2400 30-36-51	2800 32-39-56	3200 34-42-58	3600 37-44-63	
30 x 30 6.25 SQ. FT.	RETURN FACTORS	—SP=3.1 TP NC + 8	CFM NC	1875 16	2500 24	3125 30	3750 35	4375 39	5000 42	5625 46
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	469 12-15-20	625 14-17-23	782 16-19-26	937 17-21-29	1093 18-22-31	1250 19-24-33	1406 22-25-35	
	 3A	CFM/SIDE THROW, FT.	469 703 12-15-20 16-19-28	625 938 14-17-23 18-22-32	782 1172 16-19-26 20-25-36	937 1405 17-21-29 22-28-39	1093 1640 18-22-31 23-28-42	1250 1875 19-24-33 25-32-44	1406 2110 22-25-35 28-34-47	
	 2S  2G	CFM/SIDE THROW, FT.	937 19-24-33	1250 22-28-38	1562 25-32-43	1875 28-34-46	2187 30-36-50	2500 32-39-53	2812 34-41-57	
	 1S	CFM/SIDE THROW, FT.	1875 24-30-41	2500 28-34-47	3125 32-39-53	3750 34-41-58	4375 36-44-62	5000 39-47-66	5625 41-50-70	
36 x 36 9.0 SQ. FT.	RETURN FACTORS	—SP=3.6 TP NC + 9	CFM NC	2700 18	3600 25	4500 31	5400 36	6300 40	7200 44	8100 48
				A B	A B	A B	A B	A B	A B	A B
	 4A	CFM/SIDE THROW, FT.	675 13-16-22	900 15-18-25	1125 17-20-29	1350 18-22-32	1575 19-23-34	1800 22-25-36	2025 22-28-38	
	 3A	CFM/SIDE THROW, FT.	675 1010 13-16-22 17-22-30	900 1350 15-18-25 20-24-34	1125 1687 17-20-29 23-28-39	1350 2025 18-22-32 24-30-41	1575 2362 19-23-34 26-32-44	1800 2700 22-25-36 29-35-47	2025 3038 22-28-38 31-37-50	
	 2S  2G	CFM/SIDE THROW, FT.	1350 22-25-37	1800 24-30-42	2250 28-34-48	2700 30-36-51	3150 32-39-56	3600 34-42-58	4050 37-44-63	
	 1S	CFM/SIDE THROW, FT.	2700 26-32-45	3600 31-37-52	4500 35-42-60	5400 38-45-64	6300 40-48-69	7200 43-51-75	8100 46-56-79	

For performance notes, see page D63.

PERFORMANCE DATA:

MODEL 6400 • RECTANGULAR NECK

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VEL. VP TP	300 .006 .029	400 .010 .051	500 .016 .080	600 .022 .116	700 .031 .157	800 .040 .205	900 .050 .260
	RETURN FACTORS —SP=3.3 TP NC + 8	CFM NC	1800 18	2400 25	3000 31	3600 36	4200 40	4800 43	5400 46
			A B	A B	A B	A B	A B	A B	A B
36 x 24 6.0 SQ. FT.	4B 4C	CFM/SIDE THROW, FT.	600 300 17-22-30 11-13-18	800 400 20-24-34 13-15-22	1000 500 23-28-39 15-17-24	1200 600 24-30-41 16-18-26	1400 700 26-32-44 17-19-28	1600 800 29-35-47 18-22-30	1800 900 31-37-50 19-22-32
	4E	CFM/SIDE THROW, FT.	450 450 15-18-25 15-18-25	600 600 17-22-30 17-22-30	750 750 19-24-34 19-24-34	900 900 22-26-36 22-26-36	1050 1050 22-28-39 22-28-39	1200 1200 24-30-42 24-30-42	1350 1350 25-32-41 25-32-44
	3A1	CFM/SIDE THROW, FT.	750 300 18-22-32 11-13-18	1000 400 22-25-36 13-15-22	1250 500 24-29-41 15-17-24	1500 600 26-32-44 16-18-26	1750 700 28-34-47 17-19-28	2000 800 30-36-50 18-22-30	2250 900 32-38-53 19-22-32
	3A2	CFM/SIDE THROW, FT.	676 562 16-19-28 14-17-24	900 750 18-22-32 16-19-28	1125 937 20-25-36 18-22-32	1350 1125 22-28-39 19-23-34	1575 1312 23-30-42 22-25-36	1800 1500 25-32-44 22-26-39	2025 1687 28-34-47 24-29-41
	2A	CFM/SIDE THROW, FT.	900 19-24-33	1200 22-28-38	1500 25-32-43	1800 28-34-46	2100 30-36-50	2400 32-39-53	2700 34-41-57
	2B	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
	2C 2D	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
	2E	CFM/SIDE THROW, FT.	1200 600 22-25-37 15-18-25	1600 800 24-30-42 17-22-30	2000 1000 28-34-48 19-24-34	2400 1200 30-36-51 22-26-36	2800 1400 32-39-56 22-28-39	3200 1600 34-42-58 24-30-42	3600 1800 37-44-63 25-32-44
36 x 30 7.5 SQ. FT.	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	2250 19	3000 26	3750 32	4500 37	5250 41	6000 44	6750 47
			A B	A B	A B	A B	A B	A B	A B
	4B 4C	CFM/SIDE THROW, FT.	657 468 17-22-30 12-15-20	875 625 20-24-34 14-17-23	1093 782 23-28-39 16-19-26	1313 937 24-30-41 17-22-29	1532 1093 26-32-44 18-22-31	1750 1250 29-35-47 19-24-33	1969 1406 31-37-50 22-25-35
	3A1	CFM/SIDE THROW, FT.	890 468 19-24-33 12-15-20	1187 625 22-28-38 14-17-23	1484 782 25-32-43 16-19-26	1781 937 28-34-46 17-22-29	2078 1093 30-36-50 18-22-31	2375 1250 32-39-53 19-24-33	2672 1406 34-41-57 22-25-35
	3A2	CFM/SIDE THROW, FT.	787 675 18-22-32 13-16-22	1050 900 22-25-36 15-18-25	1312 1125 24-29-41 17-20-29	1575 1350 26-32-44 18-22-32	1837 1575 28-34-47 19-23-34	2100 1800 30-36-50 22-25-36	2362 2025 32-38-53 22-28-38
	2A	CFM/SIDE THROW, FT.	1125 20-25-35	1500 23-29-40	1875 26-33-45	2250 29-35-49	2625 31-38-52	3000 33-40-57	3375 35-43-60
	2B	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
	2C 2D	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
	2E	CFM/SIDE THROW, FT.	1312 938 22-25-37 17-22-30	1750 1250 24-30-42 20-24-34	2188 1562 28-34-48 23-28-39	2625 1875 30-36-51 24-30-41	3063 2187 32-39-56 26-32-44	3500 2500 34-42-58 29-35-47	3938 2812 37-44-63 31-37-50
36 x 30 7.5 SQ. FT.	1A	CFM/SIDE THROW, FT.	2250 24-30-41	3000 28-34-47	3750 32-39-53	4500 34-41-58	5250 36-44-62	6000 39-47-67	6750 41-50-72
	1B	CFM/SIDE THROW, FT.	2250 24-30-41	3000 28-34-47	3750 32-39-53	4500 34-41-58	5250 36-44-62	6000 39-47-67	6750 41-50-72

Notes:

- Core style 4E is sized to give equal flow as near as possible in directions A and B.
- For core styles 1A, 1B, 2A and 2B, the "A" direction is shown. Throw correction factor for "B" direction is: $A \times .82 = B$.

CFM - cubic feet per minute
VP - velocity pressure - inches w.g.
TP - total pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Neck Velocity - feet per minute

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 30% with a downward projection of approximately 30 degrees.

2. Performance data as tabulated is for supply air conditions. Correction factors for return air application - see next page.
 3. Correction factors for round inlets - see next page.
 4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

PERFORMANCE DATA CORRECTIONS:

MODEL 6400

CORRECTION FACTORS WITH SQUARE TO ROUND INLET ADAPTOR – TABLE 2

- 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 D50).

- $NC = 23 + 7 = 30$
- Total Pressure = $.08 \times 1.65 = 0.132$
- Throw = $15 \times 1.15 = 17.25$ 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

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 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 D50).

- Return NC = $28 + 4 = 32$.
- Return negative SP = $1.3 \times (-.116) = -.151$.

RECOMMENDED MAXIMUM AIRFLOW – TABLE 3

Diffuser mounting height and air temperature differential (ΔT) are both to be considered when selecting diffusers. As air travels from a diffuser, room air is entrained into the supply air stream and the delivery pattern thickens.

If the volume or throw requirement is too great, the lower part of the supply air stream can intrude into the occupied zone causing objectionable drafts. Consult Table 3 to verify selection.

TABLE 3 Maximum Recommended Airflow

CEILING HEIGHT (ft.)	MAX. AIRFLOW PER DIFFUSER (CFM)				MAX. REC. COOLING TEMP. DIFFERENTIAL ΔT
	4-way	3-way	2-way (2A, 2B)	1-way & 2S	
7	400	300	200	100	15°F
8	600	450	300	150	20°F
9	1200	900	600	300	25°F
10	1800	1350	900	450	25°F
12	3200	2400	1600	800	30°F
14	4800	3600	2400	1200	30°F
16	6000	4500	3000	1500	30°F