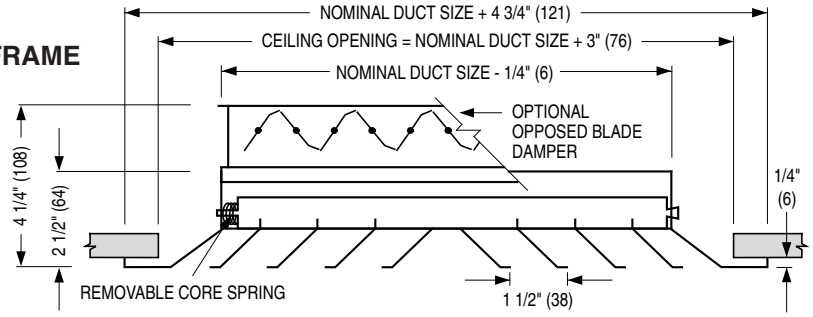
PATTERN CEILING DIFFUSERS
ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK
MODELS: 6200 AND 6200-O TYPES S & B

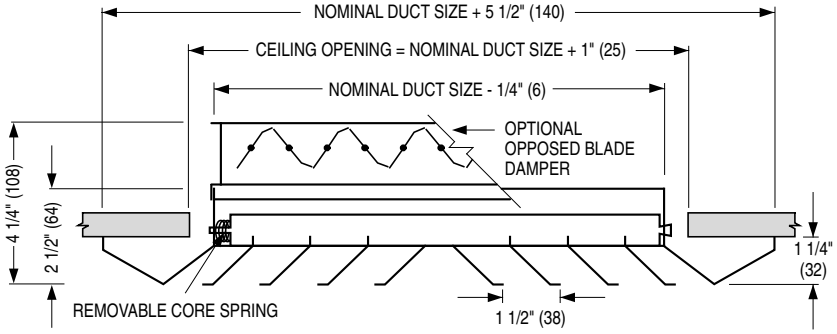
❑ TYPE S • SURFACE MOUNT • FLAT FRAME

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.

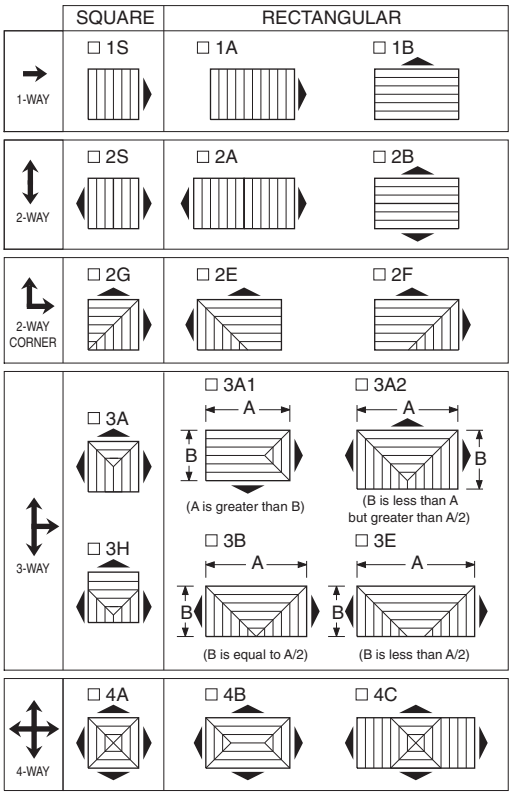


❑ TYPE B • BEVELED DROP FACE • SURFACE MOUNT

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



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-R-4.2.

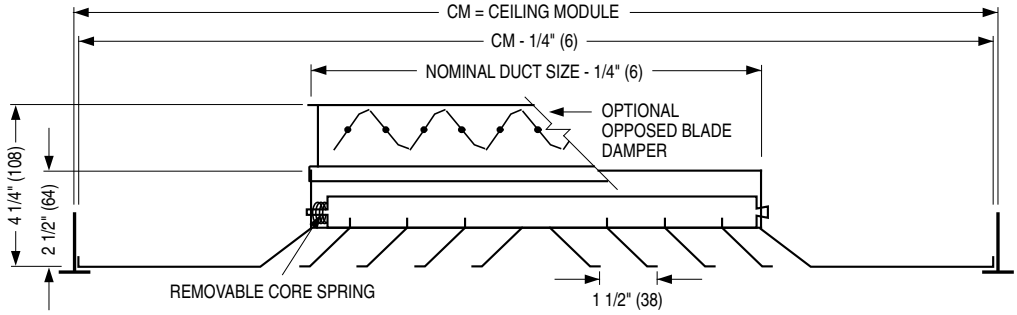
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6200**	**5 - 11 - 15**	**6200-1**

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

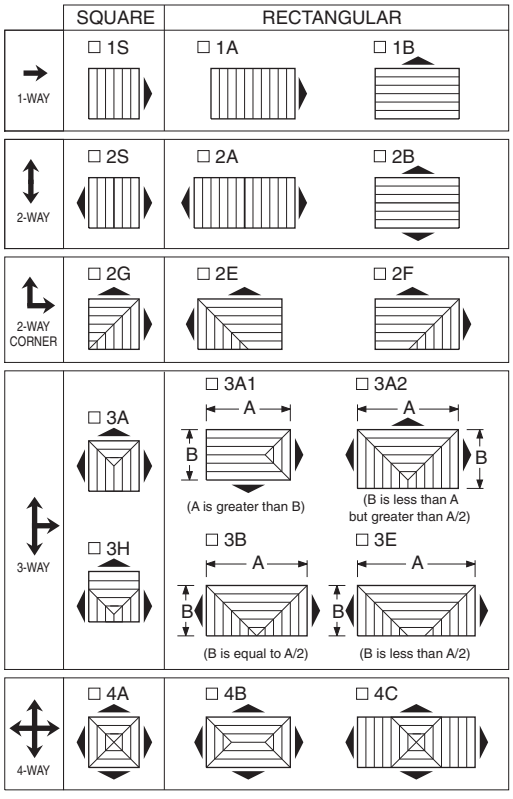
❑ TYPE L LAY-IN T-BAR



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-R-4.2.
❑ 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).

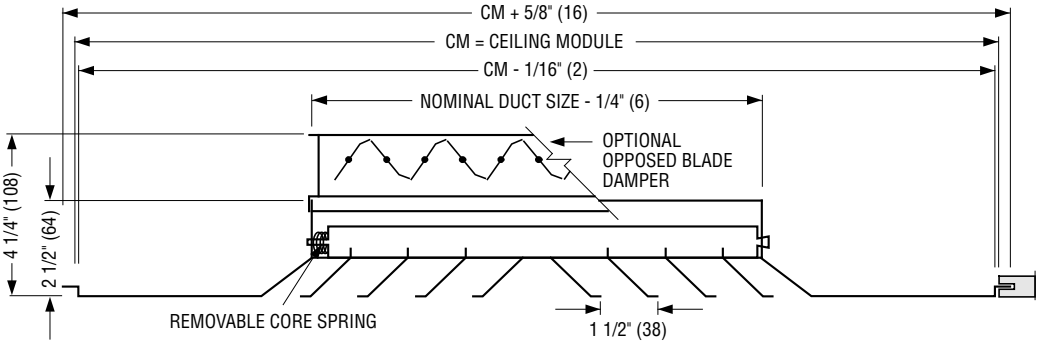
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**1 - 16 - 17**	**6200-2**

PATTERN CEILING DIFFUSERS
ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK
MODELS: 6200 AND 6200-O TYPE SP

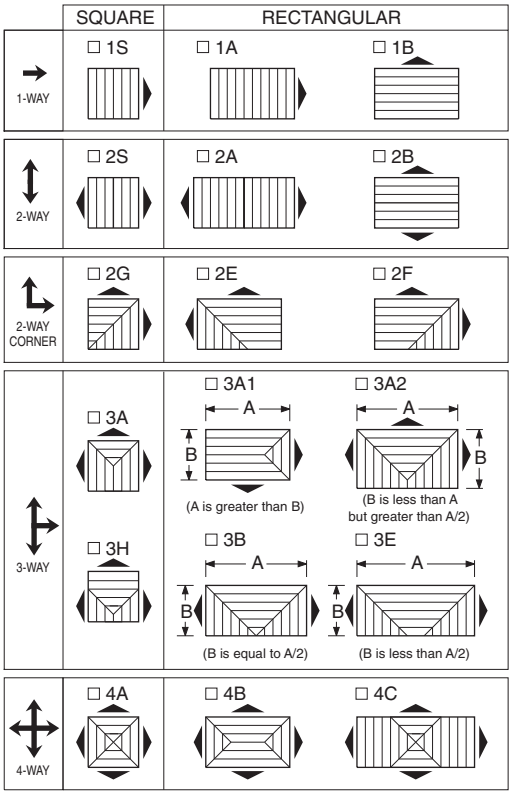
❑ TYPE SP SPLINE



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:

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-R-4.2.

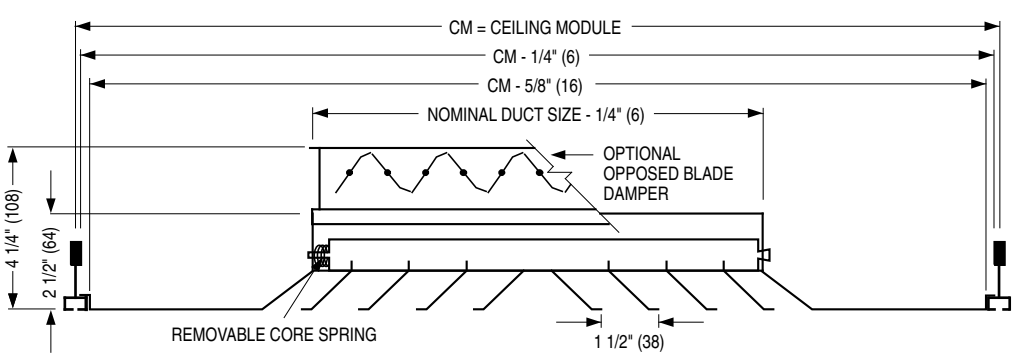
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

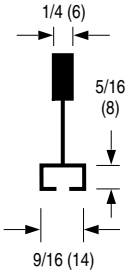
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**11 - 24 - 16**	**6200-3**

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**



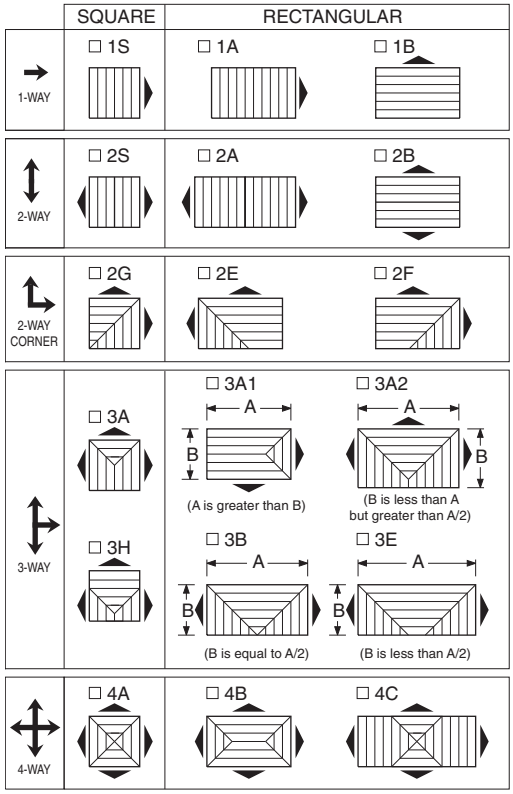
DETAIL



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

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 - R - 4.2.
❑ 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:

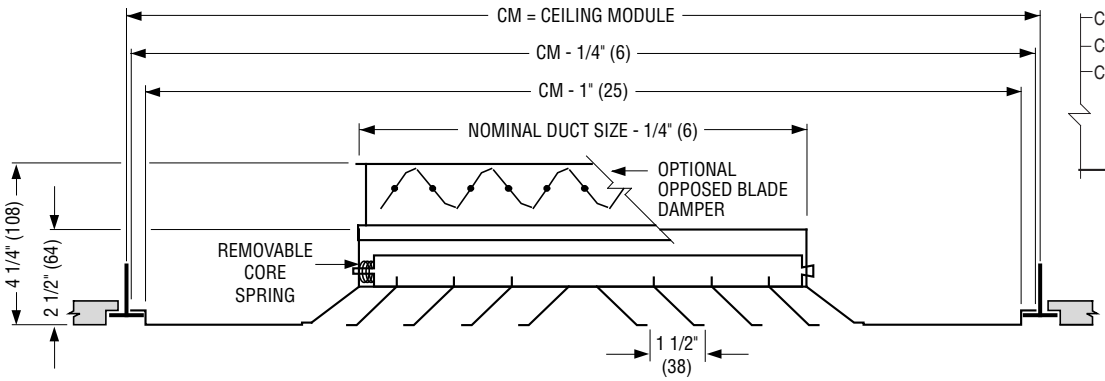
❑ SP Special. Specify _____ .

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

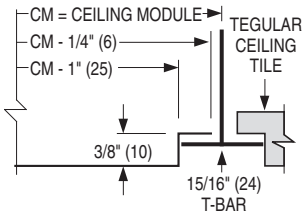
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6200**	**5 - 11 - 15**	**6200-4**

PATTERN CEILING DIFFUSERS
ALUMINUM • SQUARE, RECTANGULAR OR ROUND NECK
MODELS: 6200 AND 6200-O TYPE TL

❑ TYPE TL TEGULAR LAY-IN



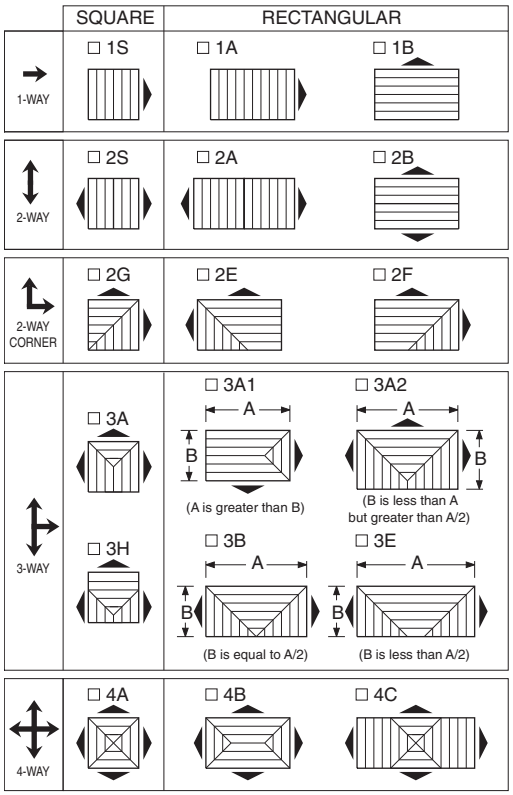
DETAIL



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:

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.

   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 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-R-4.2.
❑ 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).

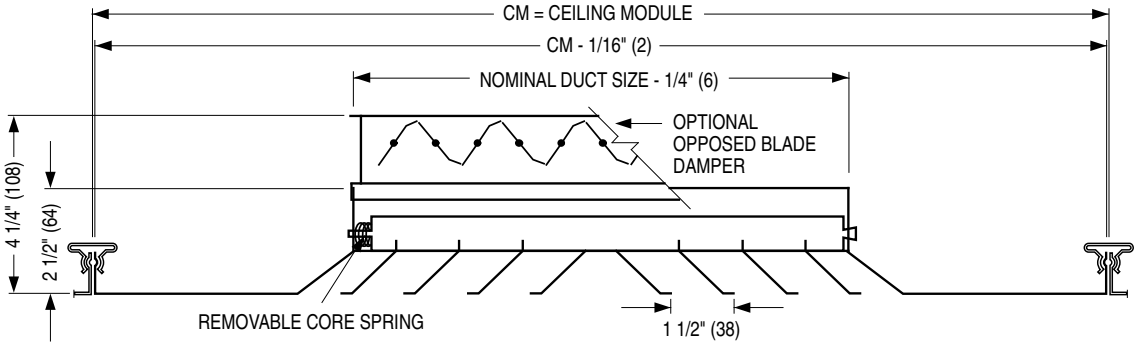
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6200**	**5 - 11 - 15**	**6200-5**

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

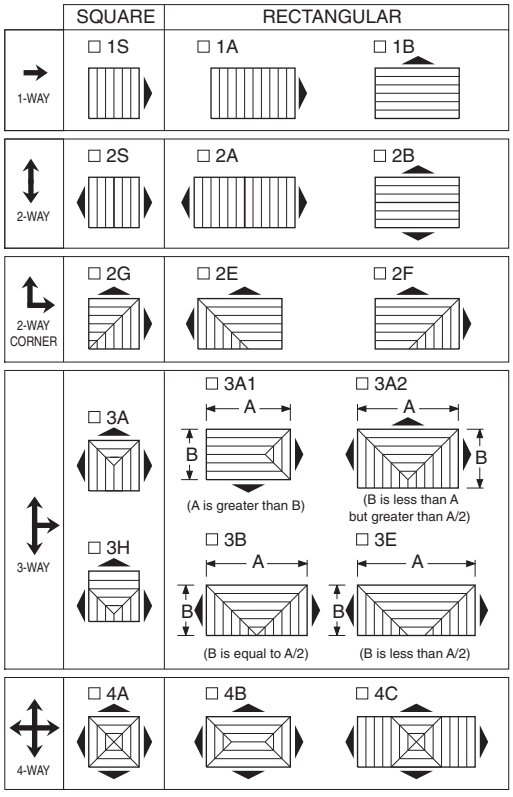
❑ **TYPE M METAL PAN (SNAP-IN)**



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.

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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**11 - 24 - 16**	**6200-6**

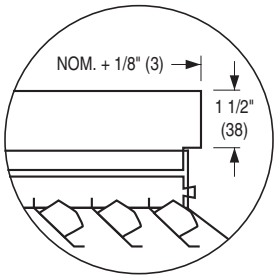
Nailor® Industries Inc.

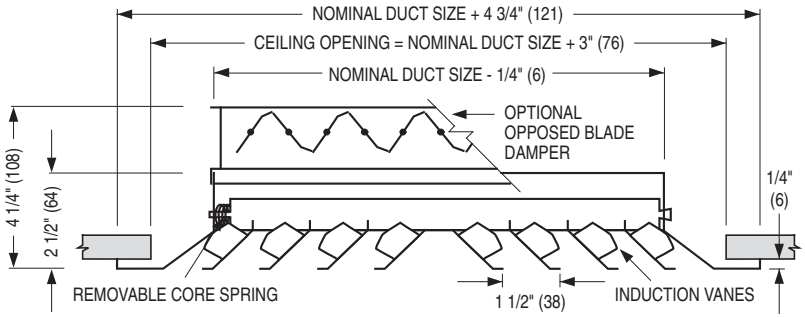
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6200IV AND 6200IV-O TYPES S & B

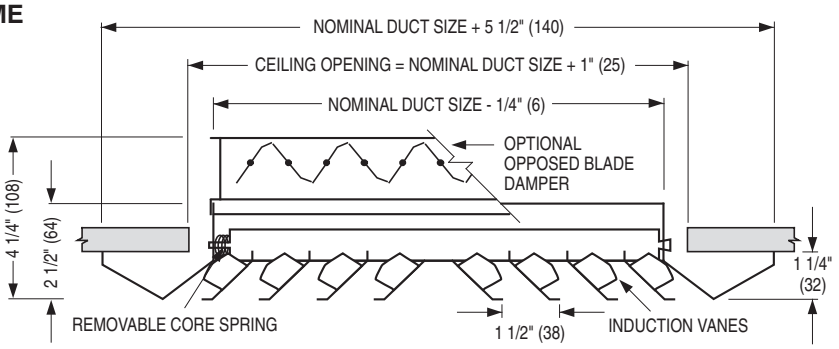
OFFSET NECK OPTION





❑ TYPE S • SURFACE MOUNT • FLAT FRAME

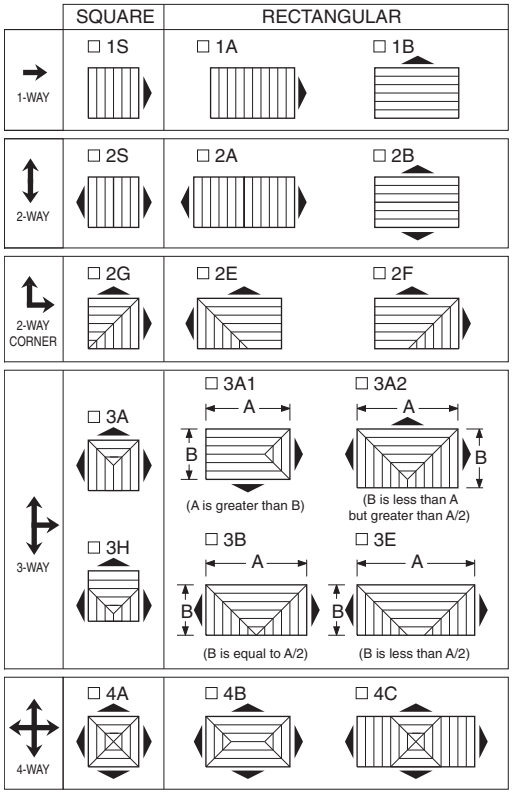
Minimum duct size: 6 x 6 (152 x 152)
Maximum duct size: 36 x 36 (914 x 914) or
36 x 24 (914 x 610) with O.B.D.
Available in 3" (76) increments only.



❑ 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



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-R-4.2.

OPTIONAL FINISH:

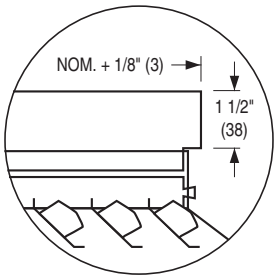
- ❑ SP Special. Specify _____ .

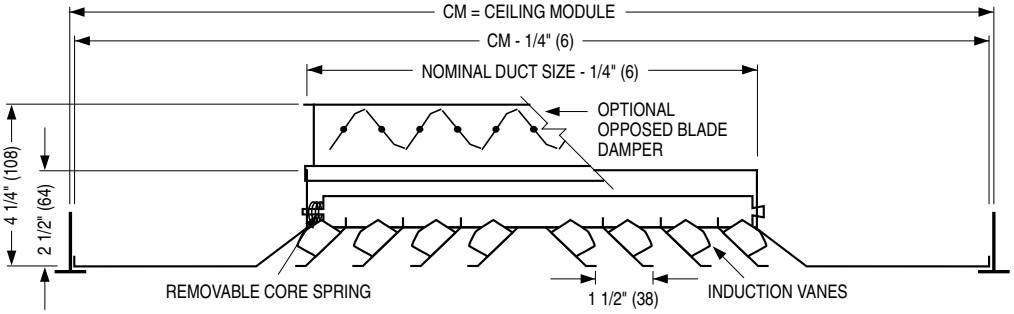
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6200**	**2 - 12 - 16**	**6200IV-1**

Nailor® Industries Inc.

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

OFFSET NECK OPTION

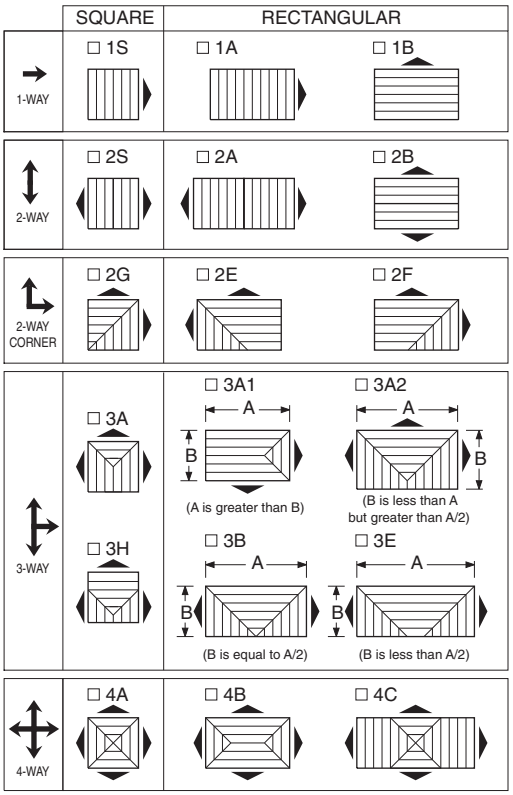




❑ TYPE L • LAY-IN T-BAR
If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

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

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.
❑ 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:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**1 - 16 - 17**	**6200IV-2**

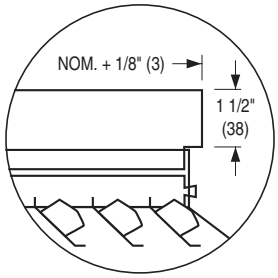
Nailor Industries Inc.

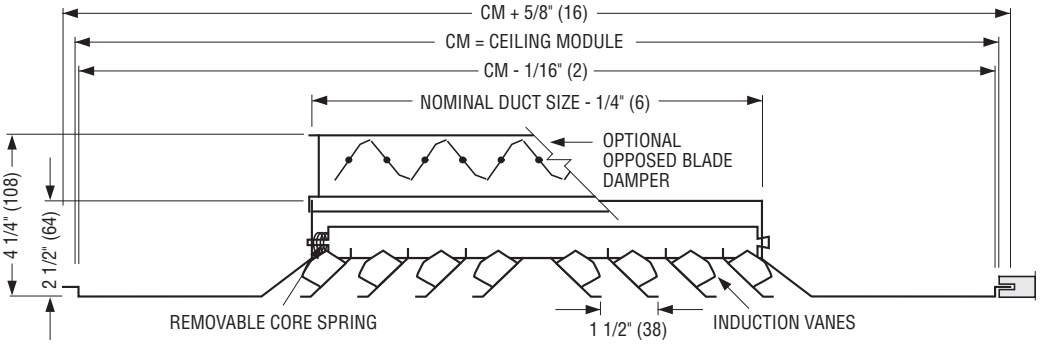
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6200IV AND 6200IV-O TYPE SP

OFFSET NECK OPTION





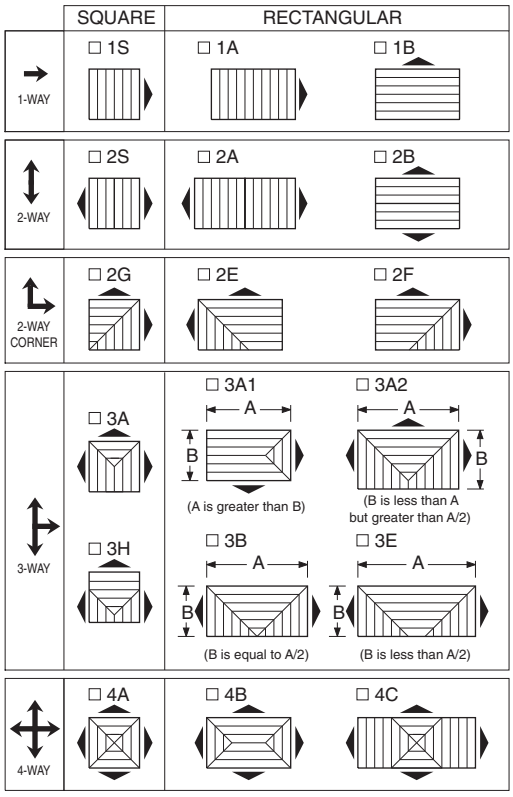
❑ TYPE SP • SPLINE

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 _____ .

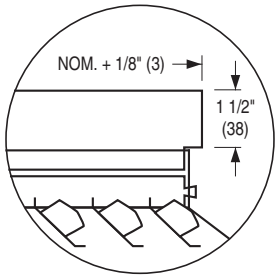
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**11 - 24 - 16**	**6200IV-3**

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

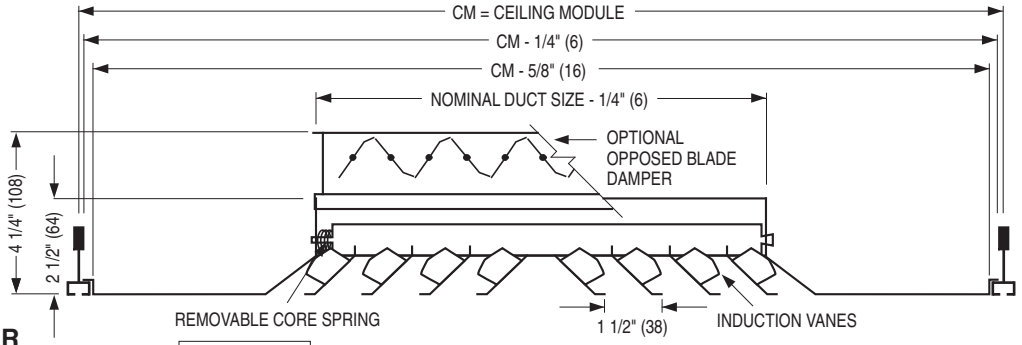
ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6200IV AND 6200IV-O TYPE F

OFFSET NECK OPTION



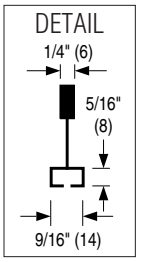
FOR FINELINE® TYPE CEILING SYSTEMS



❑ 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.

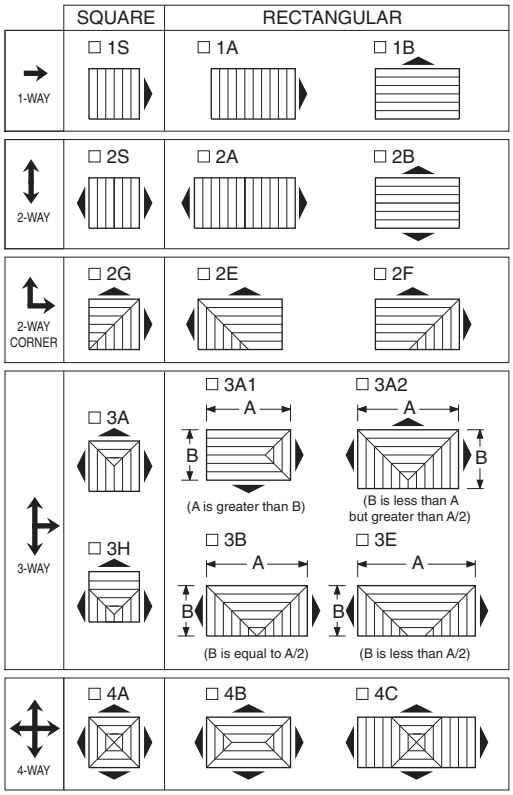
Minimum duct size: 6 x 6 (152 x 152)
Maximum duct size: see table.
Available in 3" (76) increments only.



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: 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.
❑ 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:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**1 - 16 - 17**	**6200IV-4**

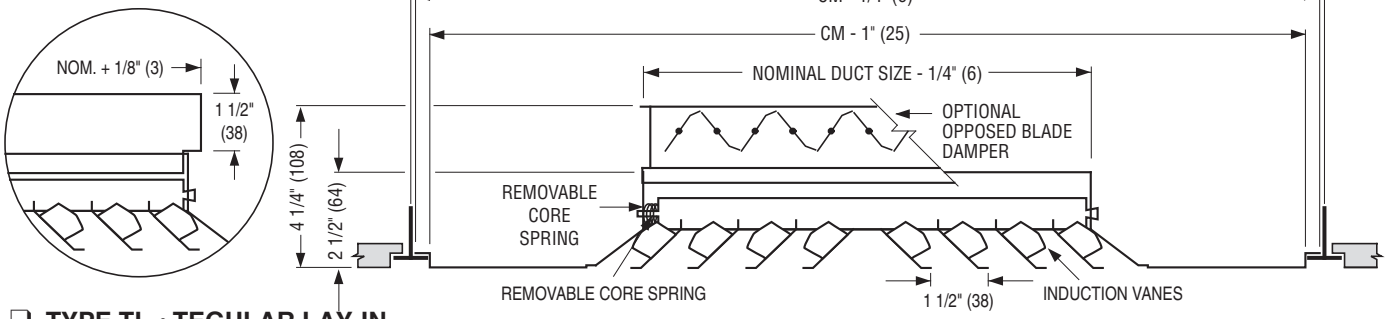
Nailor® Industries Inc.

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6200IV AND 6200IV-O TYPE TL

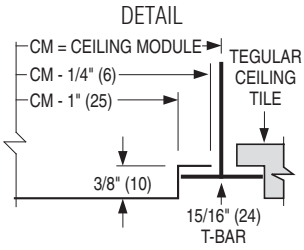
OFFSET NECK OPTION



❑ TYPE TL • TEGULAR LAY-IN

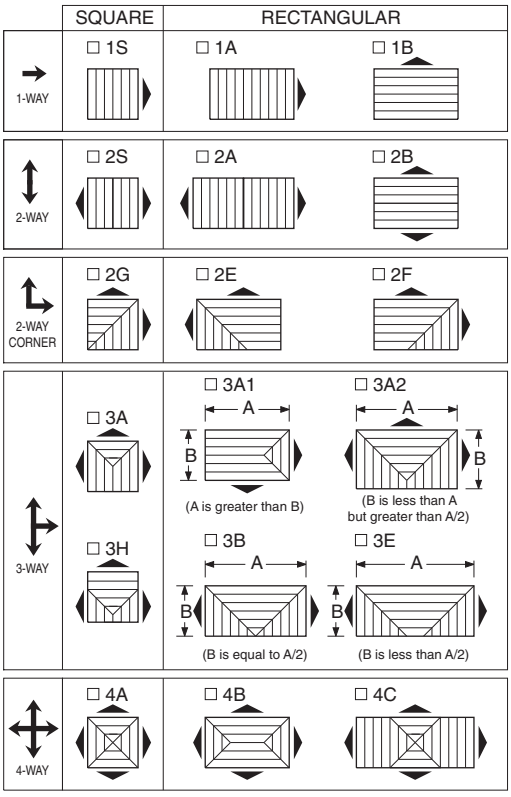
The diffuser is supplied in a steel module sized extended panel which drops the diffuser face below the T-bar so that it is flush with the tegular ceiling panels.

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.

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.
❑ 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 _____ .

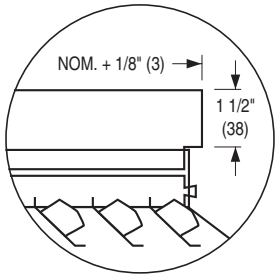
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6200**	**2 - 12 - 16**	**6200IV-5**

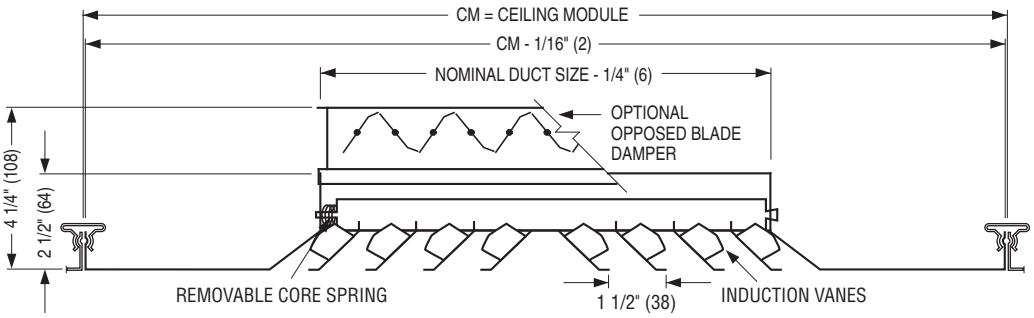
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6200IV AND 6200IV-O TYPE M

OFFSET NECK OPTION





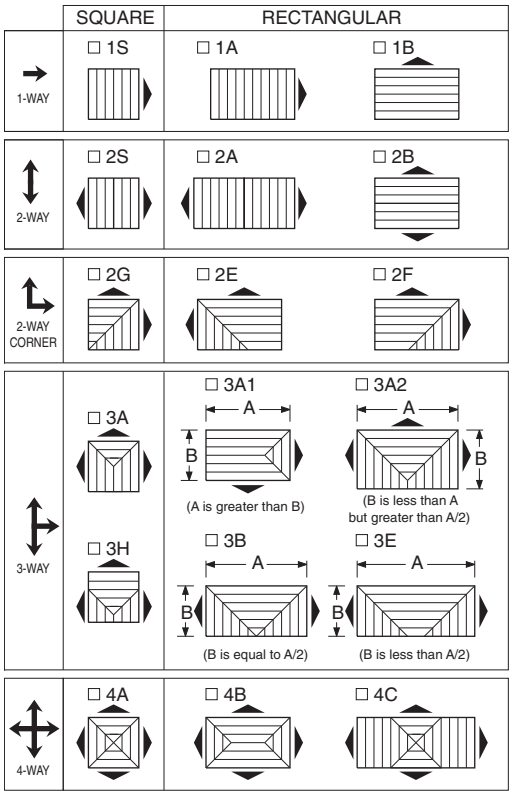
❑ TYPE M • METAL PAN (SNAP-IN)

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 - R - 4.2.

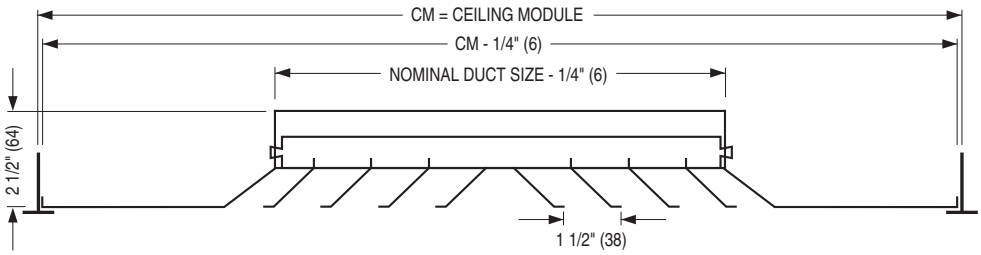
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**11 - 24 - 16**	**6200IV-6**

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

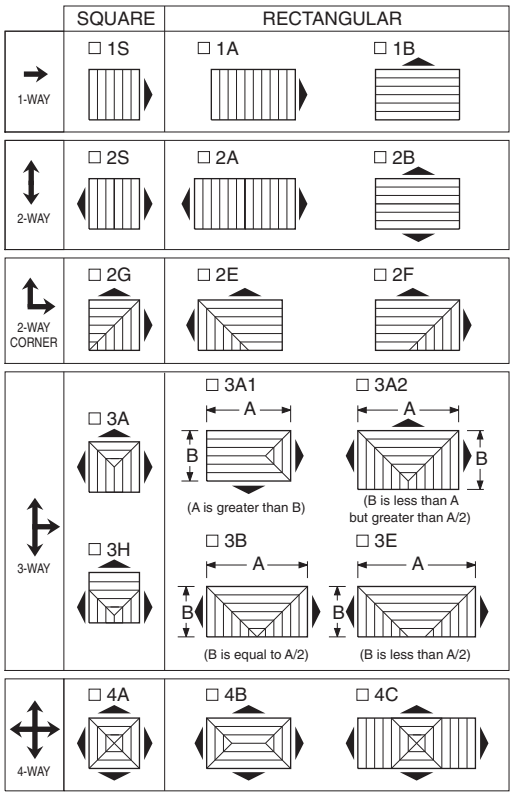
❑ **TYPE L LAY-IN T-BAR**



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 - R - 4.2.

OPTIONAL FINISH:

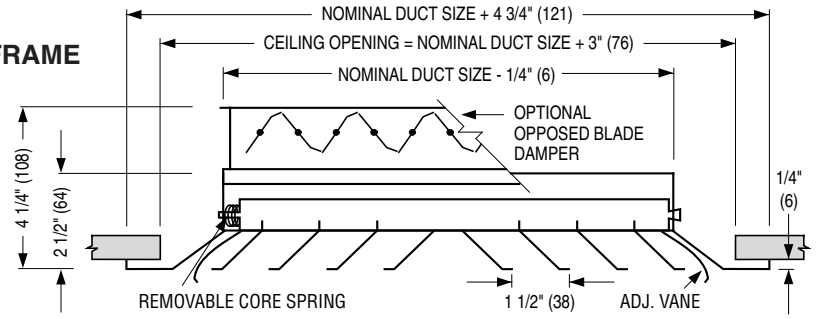
❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6200**	**5 - 11 - 15**	**6200-MRI**

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

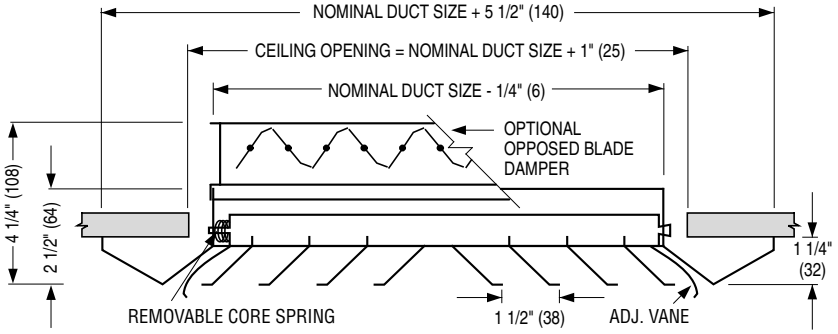
❑ TYPE S • SURFACE MOUNT • FLAT FRAME

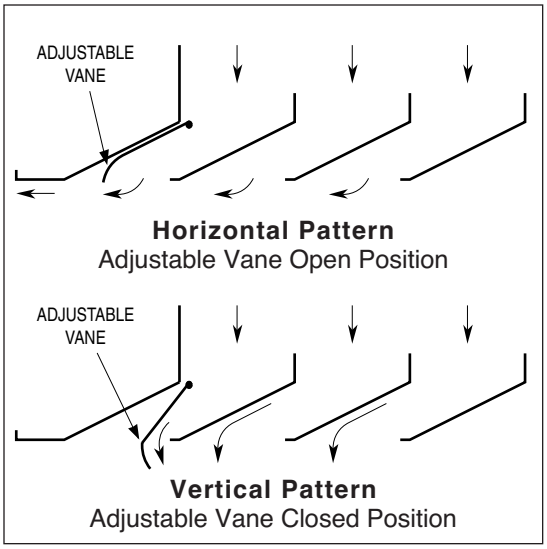
Minimum duct size: 6 x 6 (152 x 152)
Maximum duct size: 24 x 24 (610 x 610)
Available in 3" (76) increments only.



❑ 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 - R - 4.2.

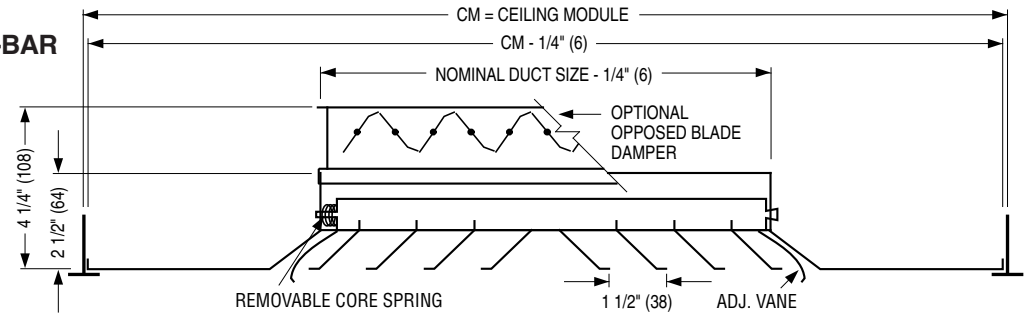
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6250**	**5 - 11 - 15**	**6250-1**

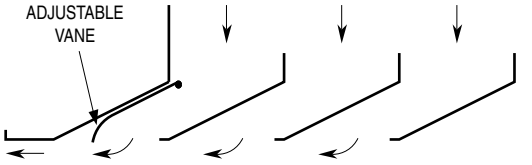
PATTERN CEILING DIFFUSERS
ADJUSTABLE VANES • ALUMINUM
• SQUARE OR ROUND NECK
MODELS: 6250 AND 6250-O TYPE L

❑ **TYPE L**
LAY-IN T-BAR

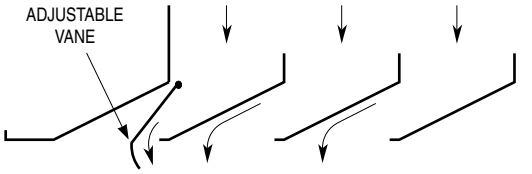


If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

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



Horizontal Pattern
Adjustable Vane Open Position



Vertical Pattern
Adjustable Vane Closed Position

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-R-4.2.
❑ 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:

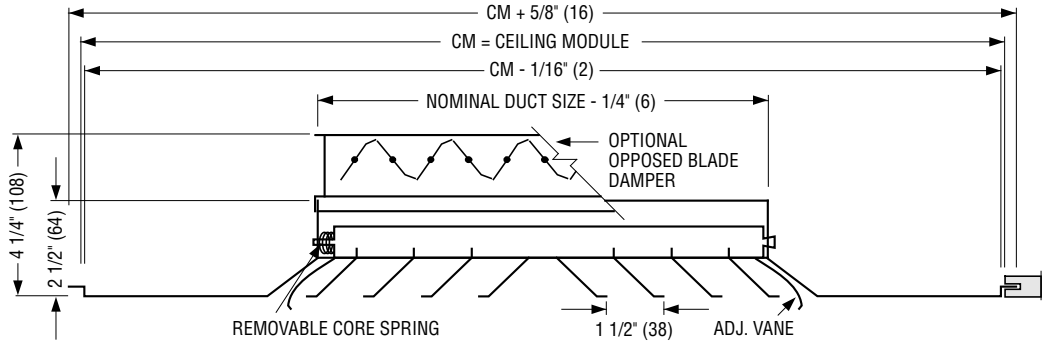
❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6250**	**1 - 16 - 17**	**6250-2**

Nailor® Industries Inc.

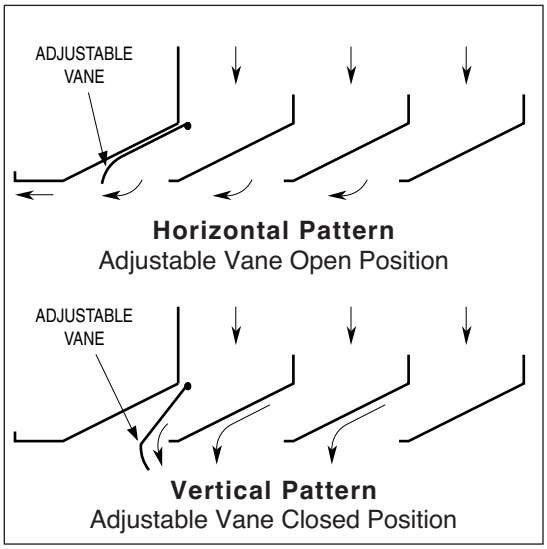
PATTERN CEILING DIFFUSERS
ADJUSTABLE VANES • ALUMINUM
• SQUARE OR ROUND NECK
MODELS: 6250 AND 6250-O TYPE SP

❑ 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 - R - 4.2.

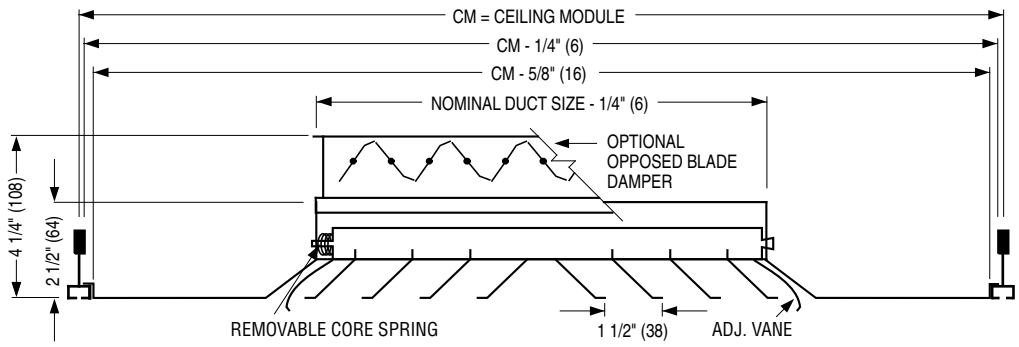
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

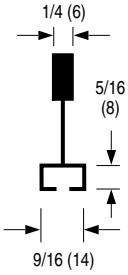
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 24 - 16	6250	5 - 11 - 15	6250-3

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**

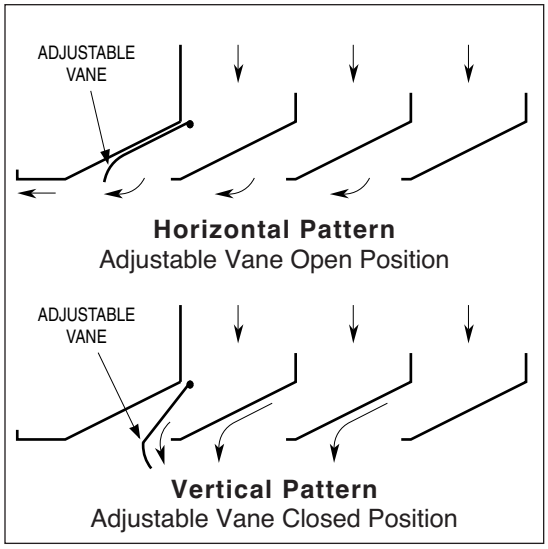


DETAIL



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-R-4.2.
❑ 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 _____ .

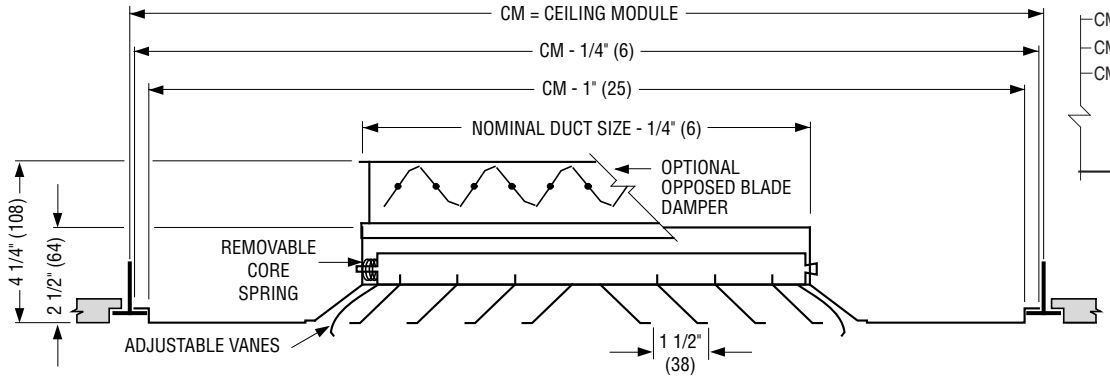
OTHER CORE STYLE:

❑ Specify _____ .

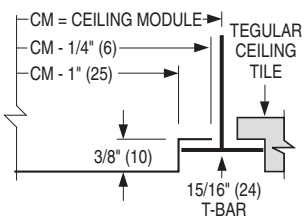
SCHEDULE TYPE:	Fineline® is a registered trademark of USG Interiors Inc. Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6250**	**5 - 11 - 15**	**6250-4**

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

❑ **TYPE TL TEGULAR LAY-IN**

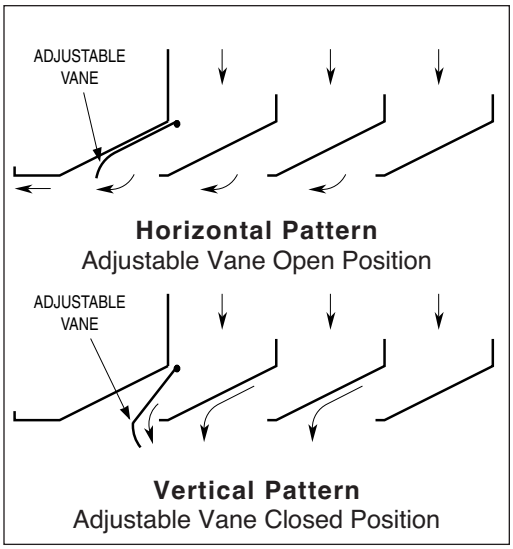


DETAIL



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-R-4.2.
❑ 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).

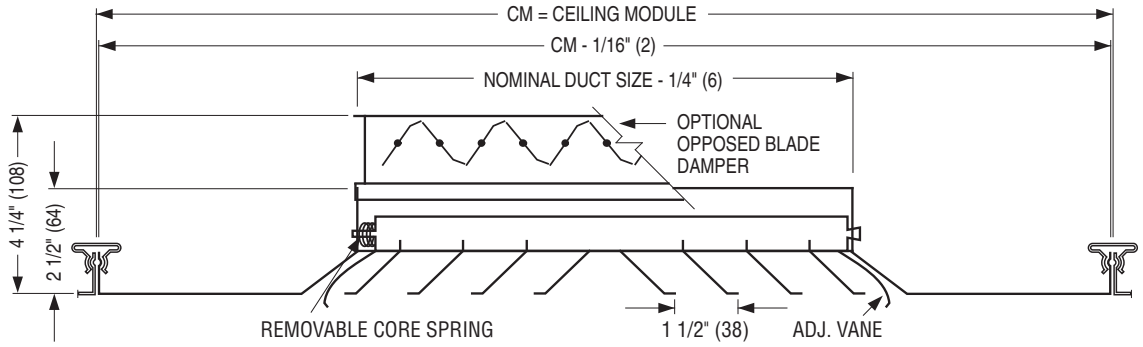
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6250**	**5 - 11 - 15**	**6250-5**

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

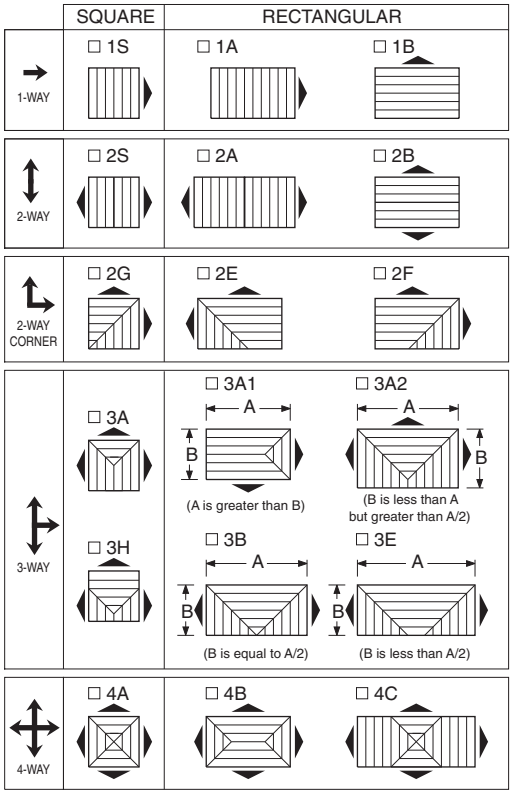
❑ TYPE M METAL PAN (SNAP-IN)



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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

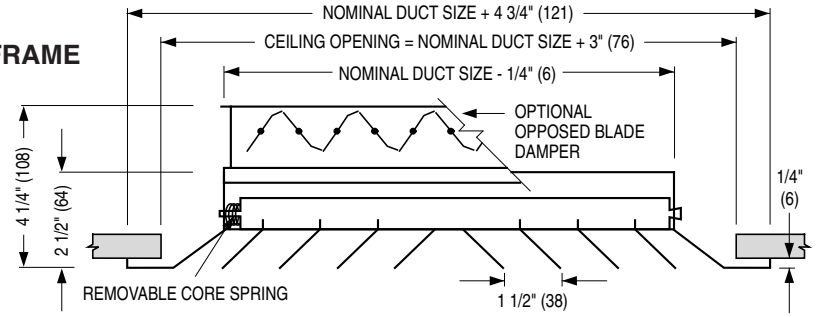
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6250**	**11 - 24 - 16**	**6250-6**

Nailor® Industries Inc.

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

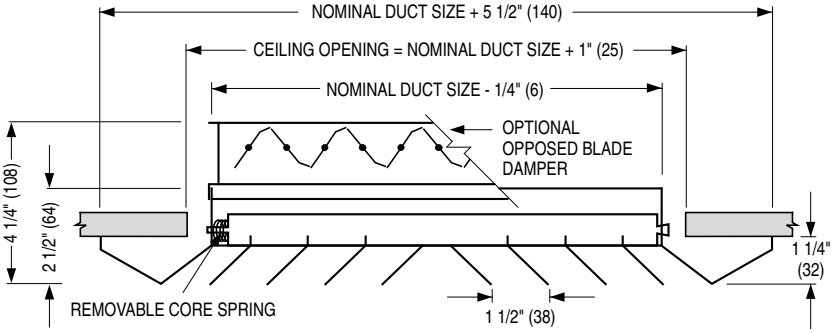
❑ TYPE S • SURFACE MOUNT • FLAT FRAME

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.

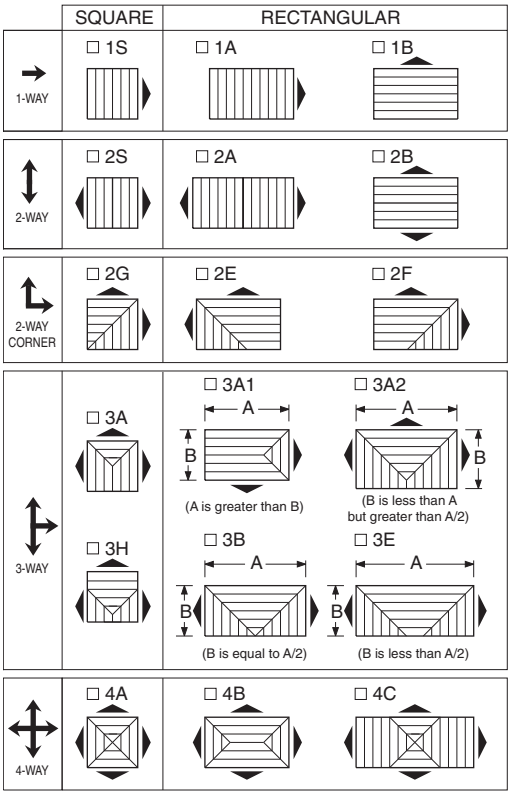


❑ TYPE B • BEVELED DROP FACE • SURFACE MOUNT

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



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-R-4.2.

OPTIONAL FINISH:

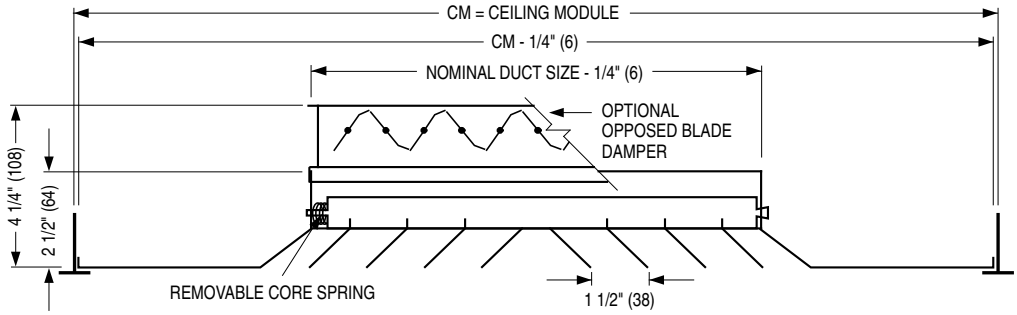
- ❑ SP Special. Specify _____ .

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 24 - 16	6400	5 - 11 - 15	6400-1

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

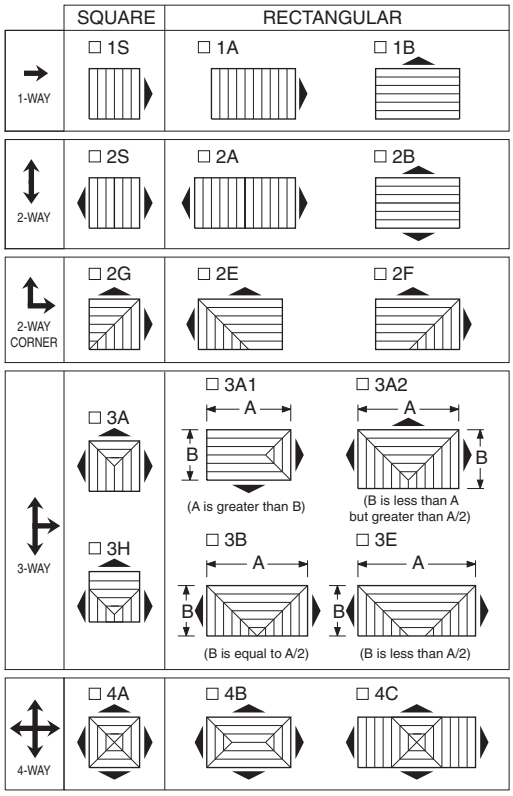
❑ TYPE L LAY-IN T-BAR



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.

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 - R - 4.2.
❑ 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:

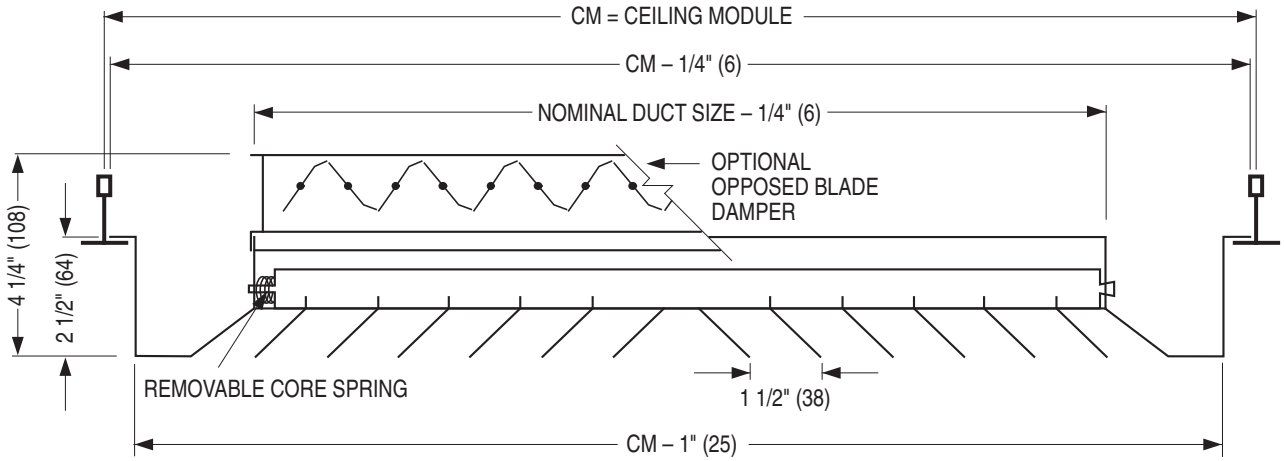
❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**1 - 16 - 17**	**6400-2**

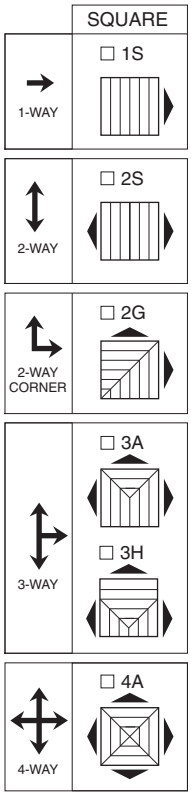
Nailor® Industries Inc.

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-R-4.2.

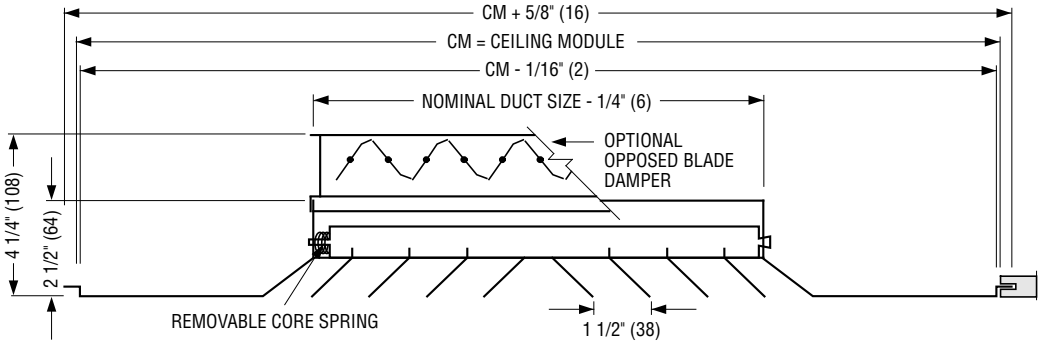
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6400**	**5 - 11 - 15**	**6400-2A**

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

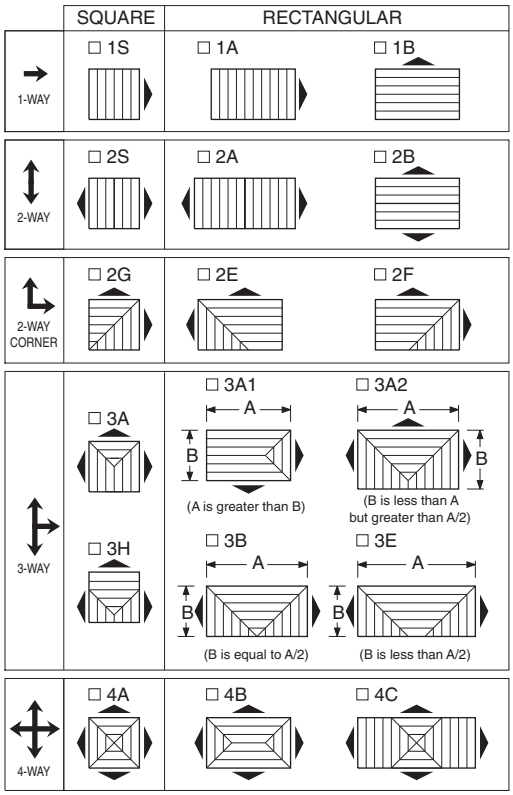
❑ **TYPE SP SPLINE**



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 - R - 4.2.

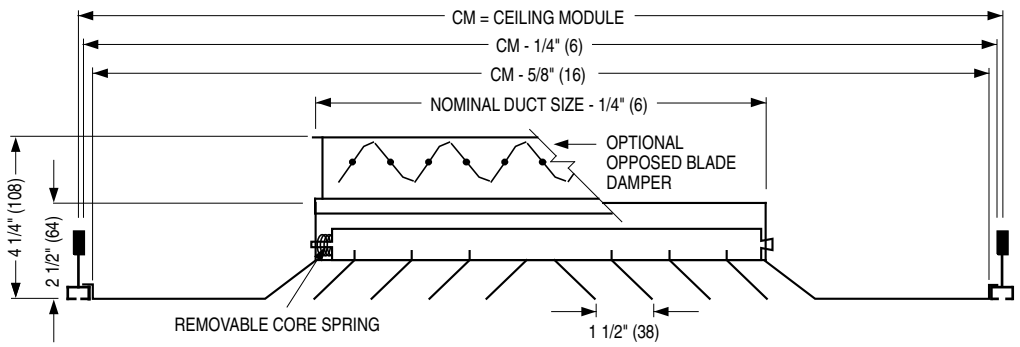
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

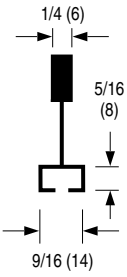
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**11 - 24 - 16**	**6400-3**

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**



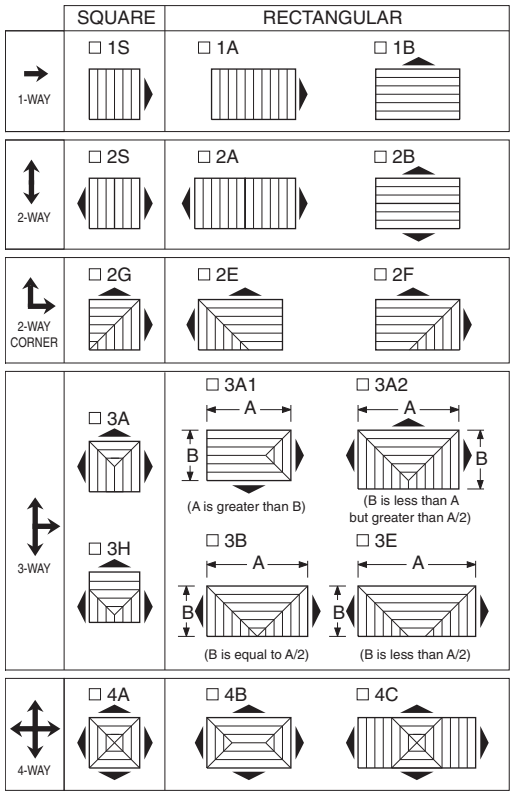
DETAIL



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

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.

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 -R-4.2.
❑ 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).

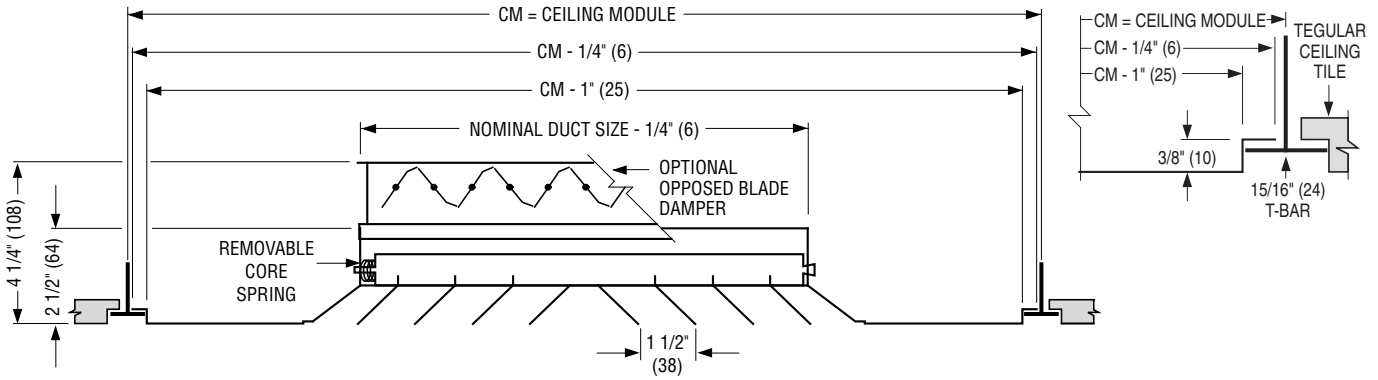
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6400**	**8 - 17 - 16**	**6400-4**

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

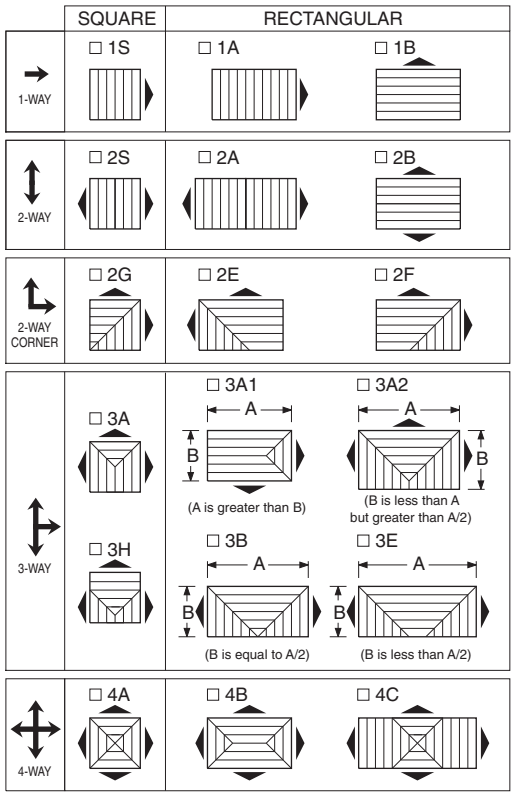
❑ **TYPE TL TEGULAR LAY-IN**



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 - R - 4.2.
❑ 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).

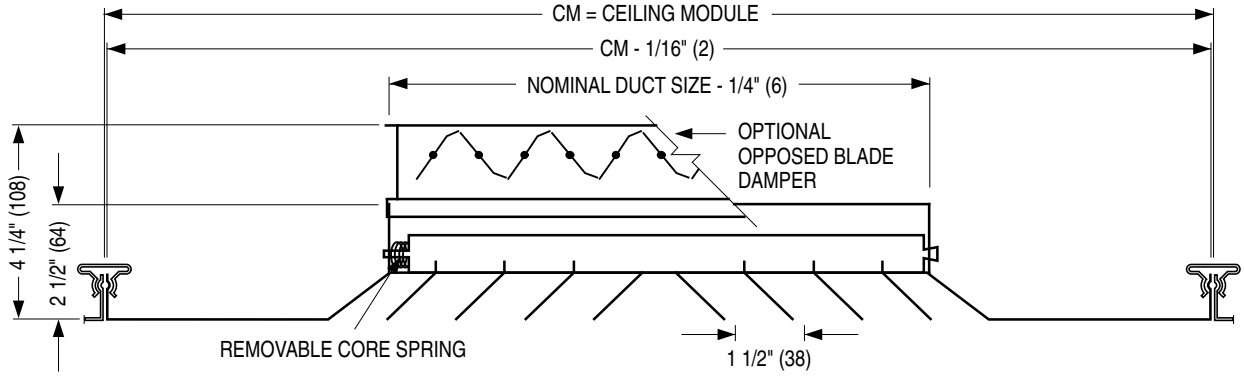
OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6400**	**8 - 17 - 16**	**6400-5**

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

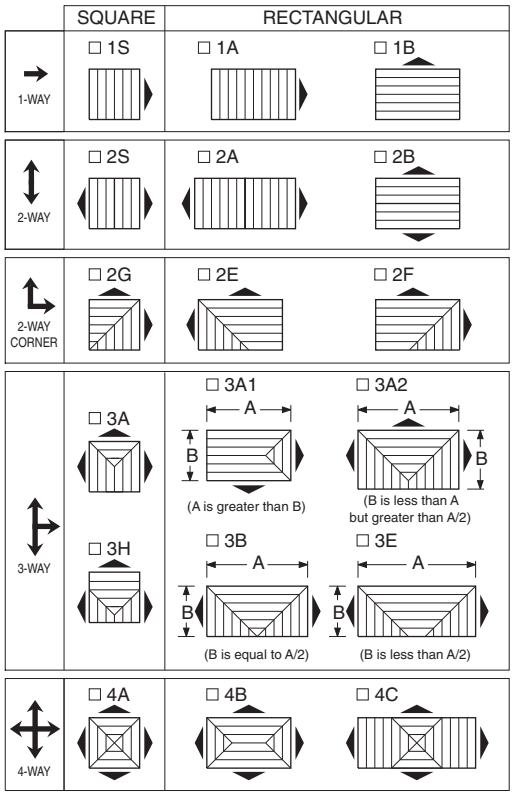
❑ **TYPE M METAL PAN (SNAP-IN)**



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



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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**11 - 24 - 16**	**6400-6**

Nailor® Industries Inc.

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

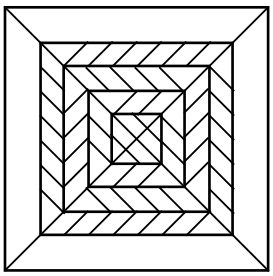
ALUMINUM • SQUARE, RECT. OR ROUND NECK

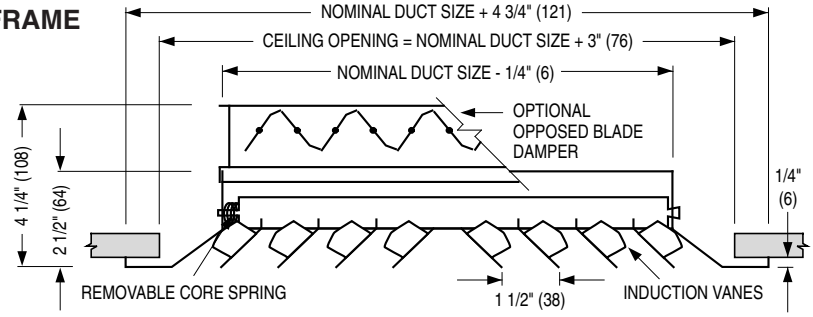
MODELS: 6400IV AND 6400IV-O TYPES S & B

❑ 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.

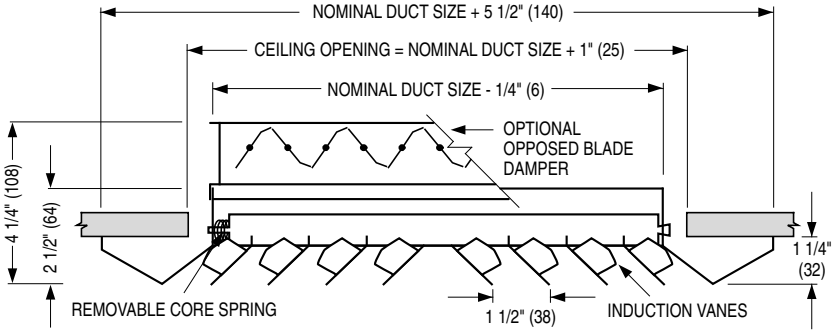
NECK VIEW



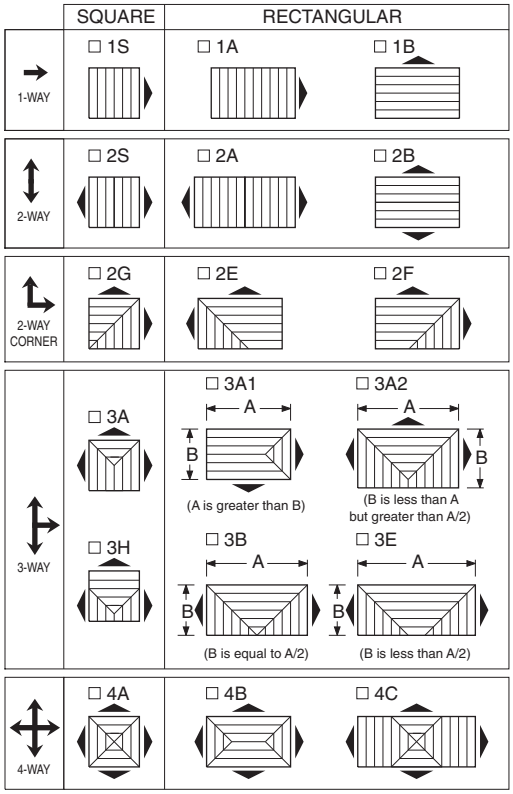


❑ TYPE B • BEVELED DROP FACE • SURFACE MOUNT

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



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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6400**	**5 - 11 - 15**	**6400IV-1**

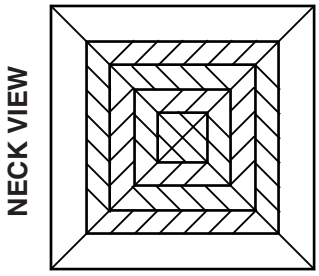
Nailor® Industries Inc.

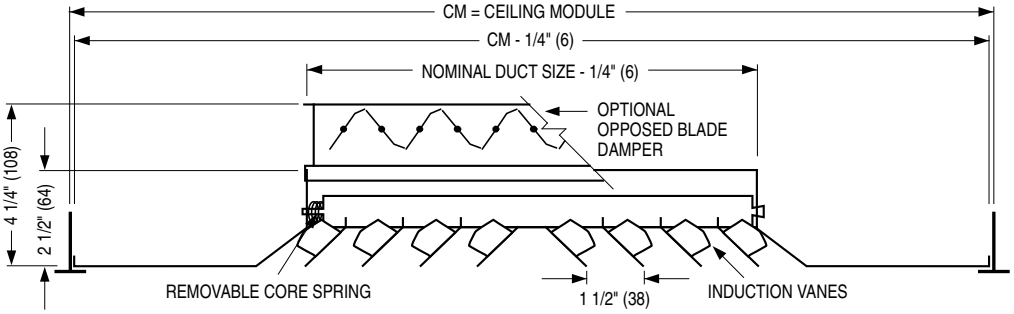
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6400IV AND 6400IV-O TYPE L

❑ TYPE L LAY-IN T-BAR

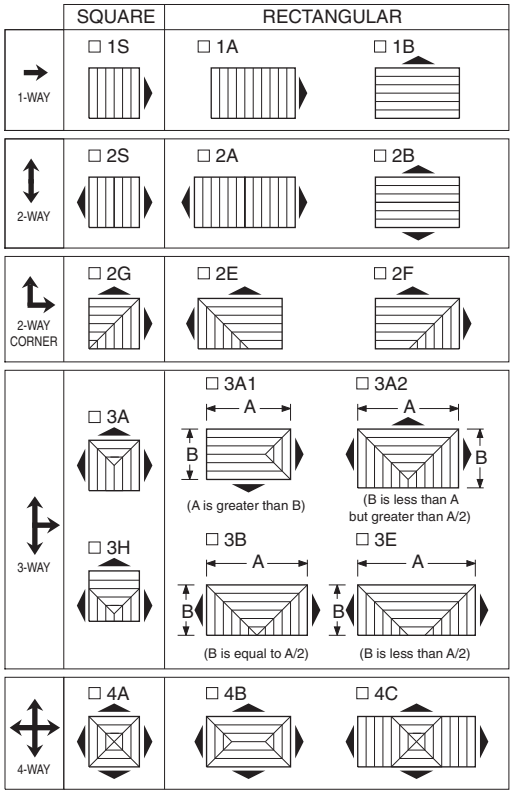




If the ceiling module is not 3" (76) or 6" (152) larger than the neck size of the diffuser in both dimensions, a steel, module sized extended panel will be added.
Minimum duct size: 6 x 6 (152 x 152).
Maximum duct size: see table.
Available in 3" (76) increments only.

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 - R - 4.2.
❑ 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 _____ .

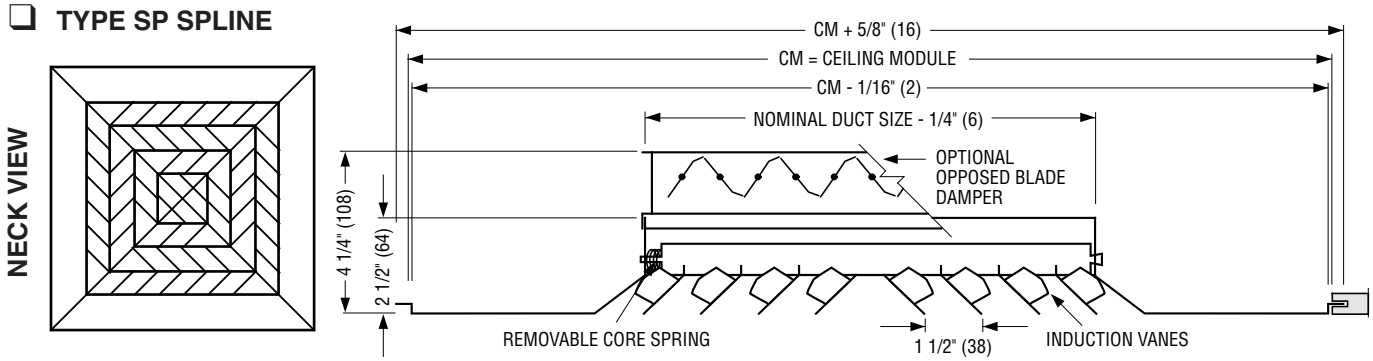
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**1 - 16 - 17**	**6400IV-2**

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6400IV AND 6400IV-O TYPE SP

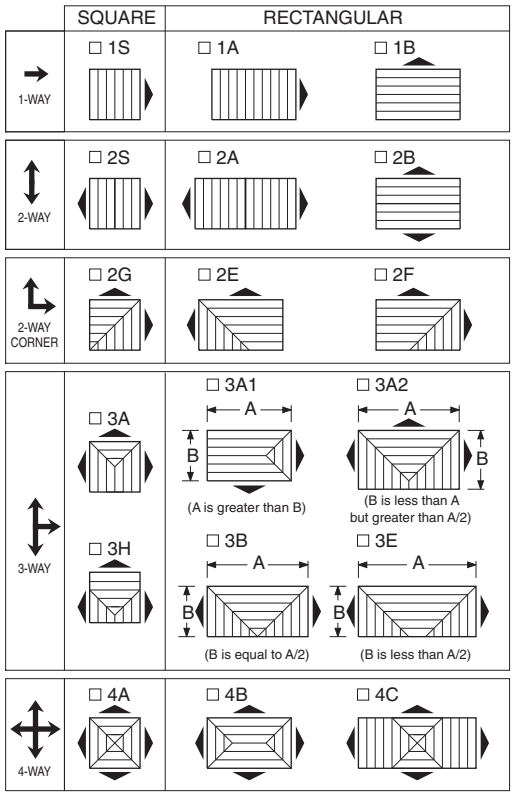
❑ **TYPE SP SPLINE**



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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**11 - 24 - 16**	**6400IV-3**

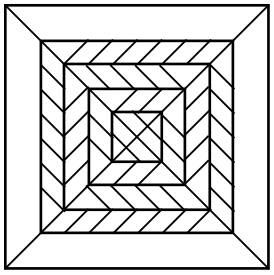
Nailor Industries Inc.

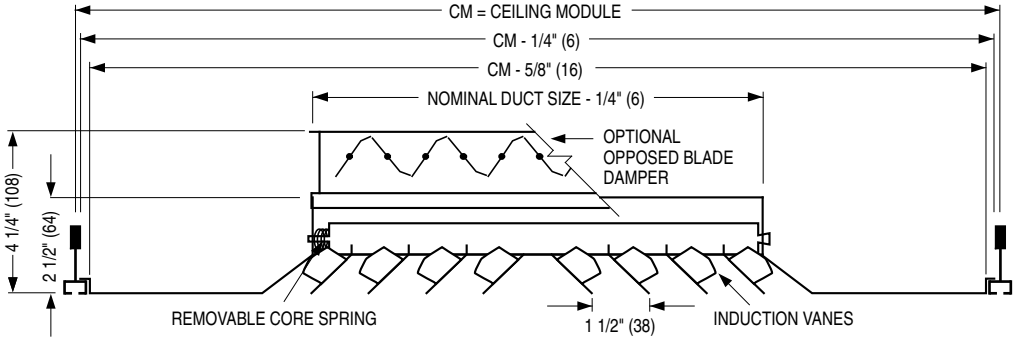
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES
ALUMINUM • SQUARE, RECT. OR ROUND NECK
MODELS: 6400IV AND 6400IV-O TYPE F

❑ **TYPE F FINELINE® T-BAR**

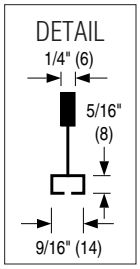
FOR FINELINE® TYPE CEILING SYSTEMS

NECK VIEW





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)

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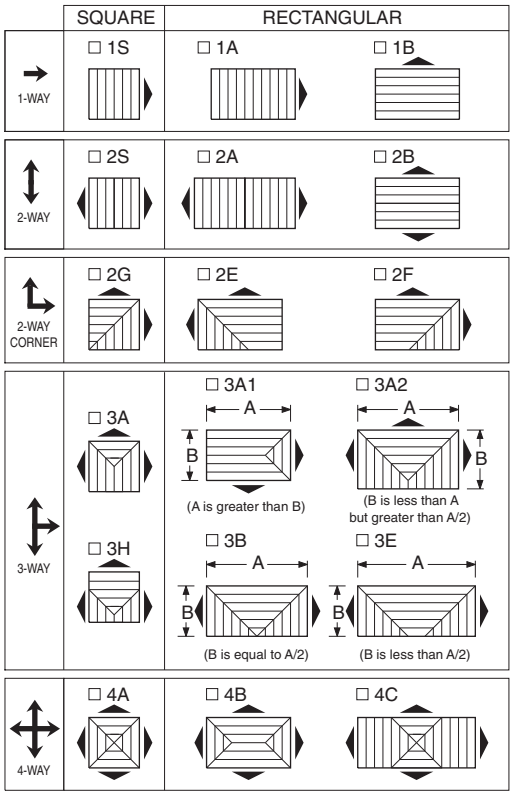
CORE STYLE SELECTION



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 - R - 4.2.
❑ 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 _____ .

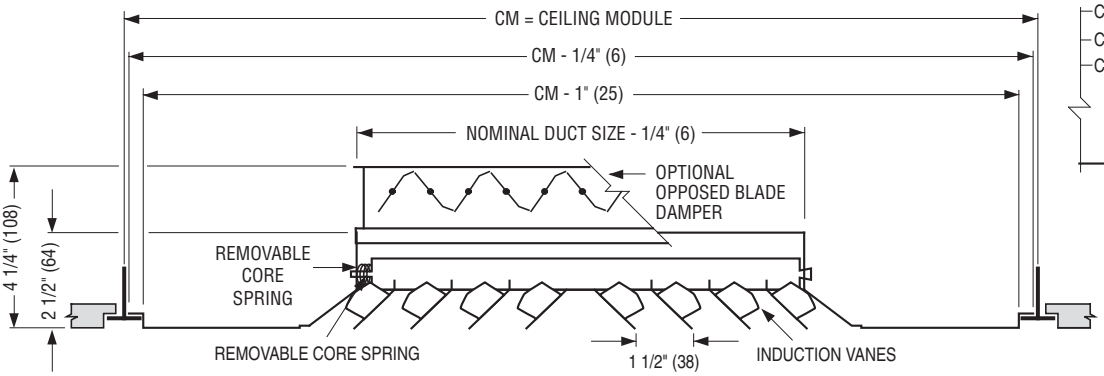
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**1 - 16 - 17**	**6400IV-4**

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

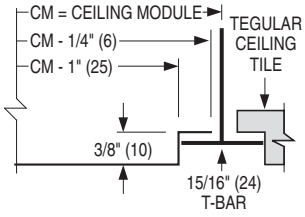
ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6400IV AND 6400IV-O TYPE TL

❑ TYPE TL TEGULAR LAY-IN



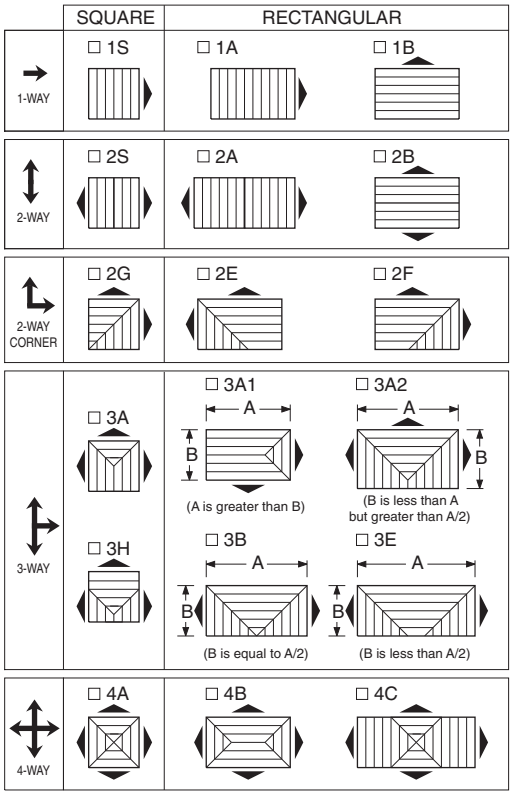
DETAIL



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 -R-4.2.
❑ 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 _____ .

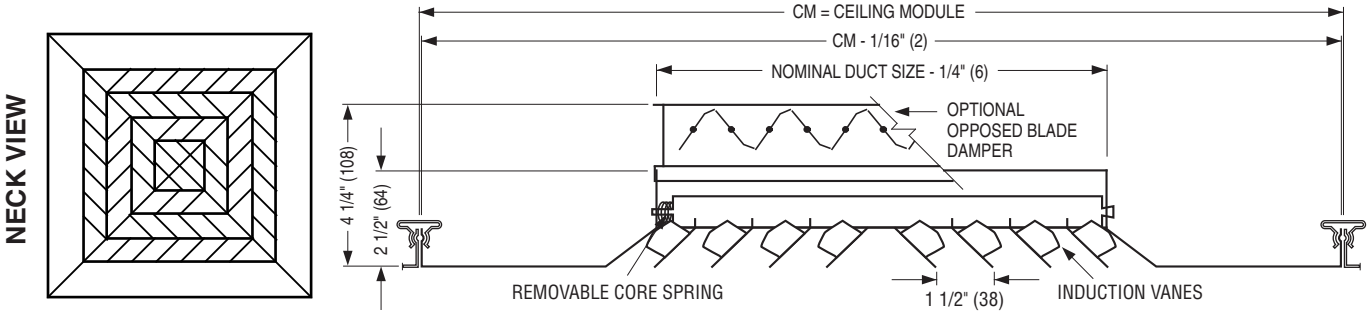
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 16 - 17**	**6400**	**5 - 11 - 15**	**6400IV-5**

PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6400IV AND 6400IV-O TYPE M

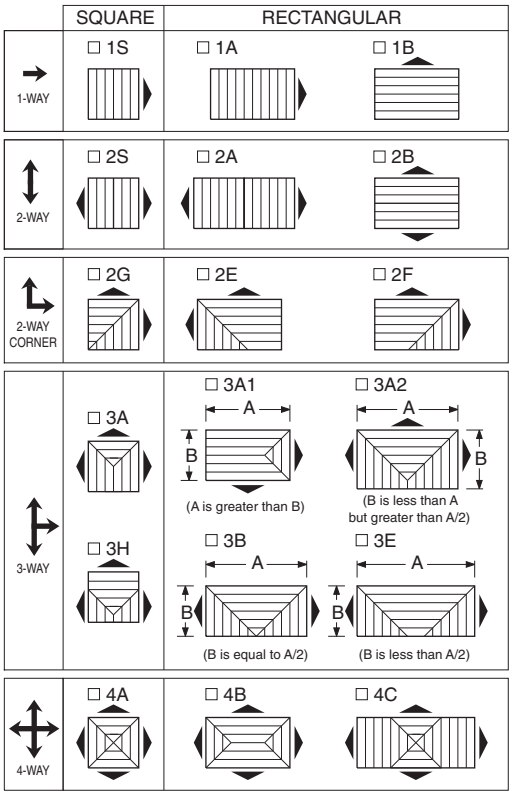
❑ TYPE METAL PAN (SNAP-IN)



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 - R - 4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 8 - 18**	**6400**	**1 - 16 - 17**	**6400IV-6**

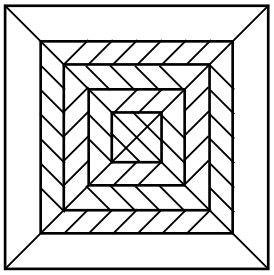
PATTERN CEILING DIFFUSERS WITH IV INDUCTION VANES

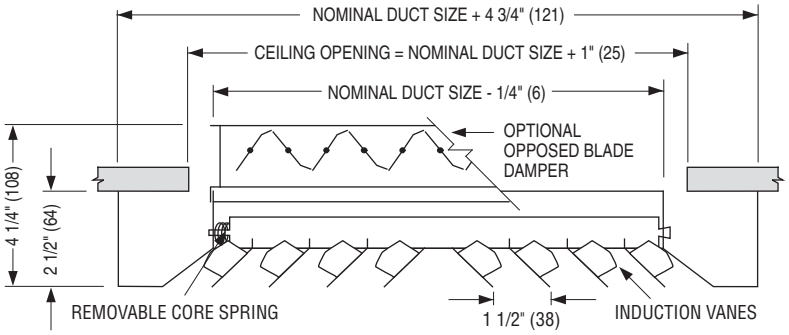
ALUMINUM • SQUARE, RECT. OR ROUND NECK

MODELS: 6400IV AND 6400IV-O TYPE D

❑ TYPE D DEEP DROP FACE

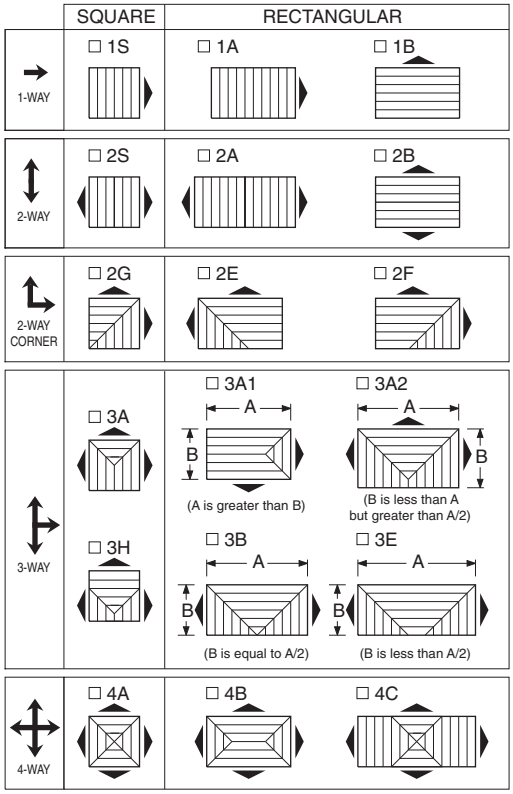
NECK VIEW





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



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-R-4.2.

OPTIONAL FINISH:

❑ SP Special. Specify _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 24 - 16**	**6400**	**5 - 11 - 15**	**6400IV-7**

Nailor Industries Inc.

PATTERN CEILING DIFFUSERS
ACCESSORIES
MODEL SERIES: 6200

OPPOSED BLADE DAMPER

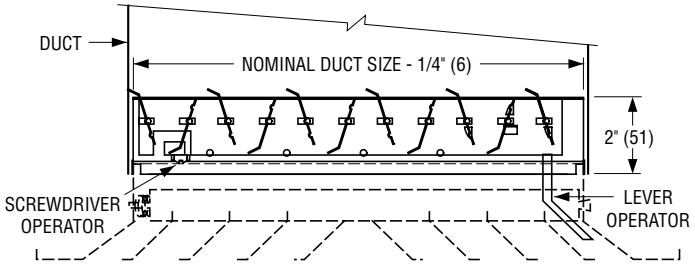
Corrosion-resistant steel. 22 ga. roll-formed frame and blade.

- ❑ 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.

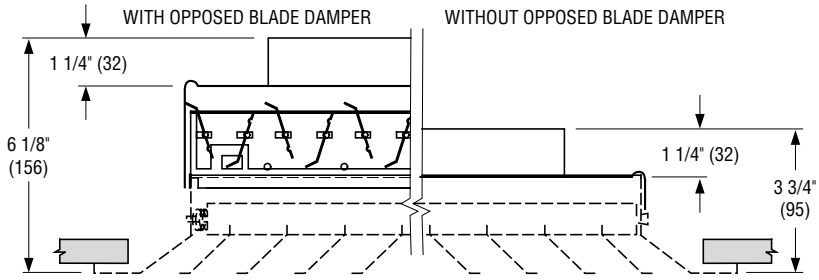


SQUARE-TO-ROUND TRANSITION COLLAR

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

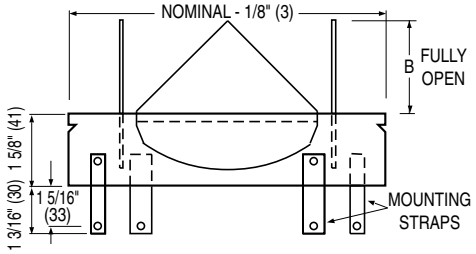
CONSTRUCTION:
22 ga. corrosion-resistant steel.

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



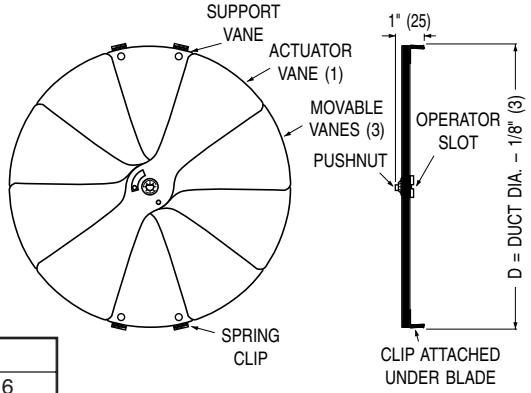
ROUND NECK DAMPERS

- ❑ 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..

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 13 - 06**	**6200**	**10 - 4 - 00R**	**6200-7**

Nailor® Industries Inc.

PATTERN CEILING DIFFUSERS
ACCESSORIES
MODEL SERIES: 6400

OPPOSED BLADE DAMPER

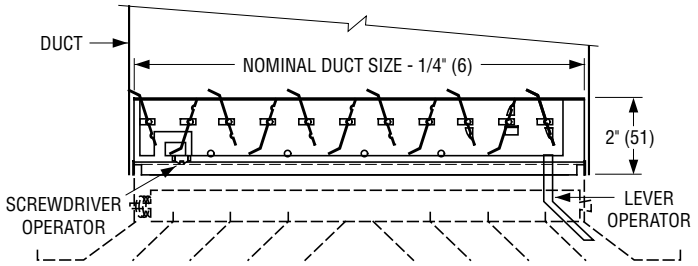
Corrosion-resistant steel. 22 ga. roll-formed frame and blade.

- ❑ 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.

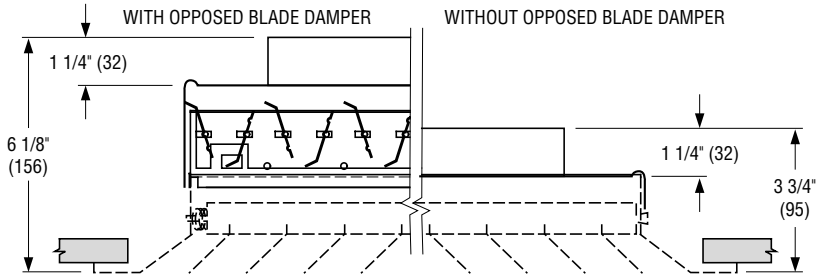


SQUARE-TO-ROUND TRANSITION COLLAR

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

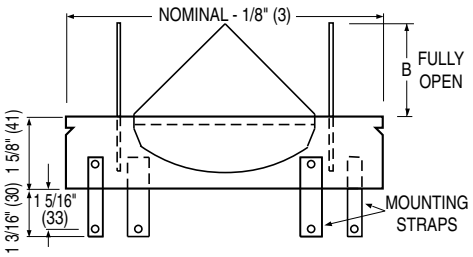
CONSTRUCTION:
22 ga. corrosion-resistant steel.

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

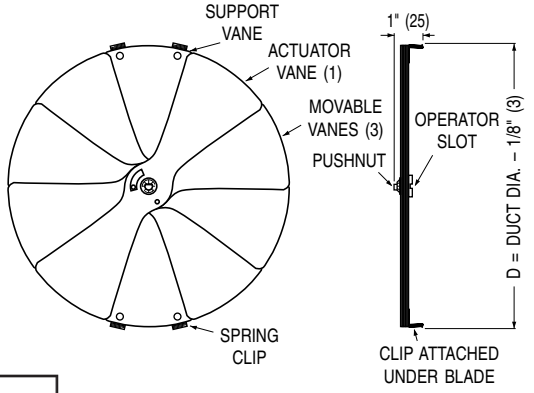


ROUND NECK DAMPERS

- ❑ 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..

Dimensions are in inches (mm).

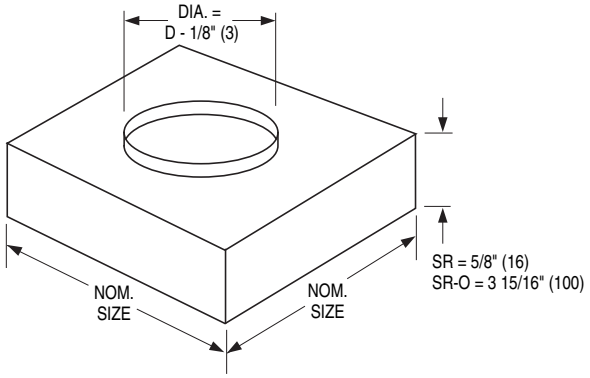
SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**5 - 11 - 15**	**6400**	**2 - 13 - 06R**	**6400-7**

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

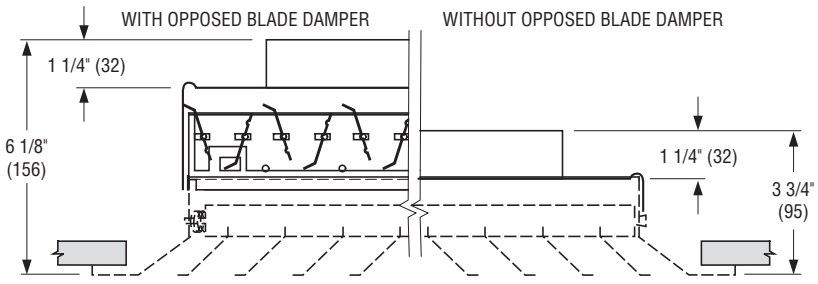
DESCRIPTION:
Transition collars are for use with any Nailor square neck diffuser where a round duct connection is desired. Round necks are sized for flexible or hard duct connection. SR's ship loose for field installation and are supplied with barbed S-clips.

- ❑ 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.



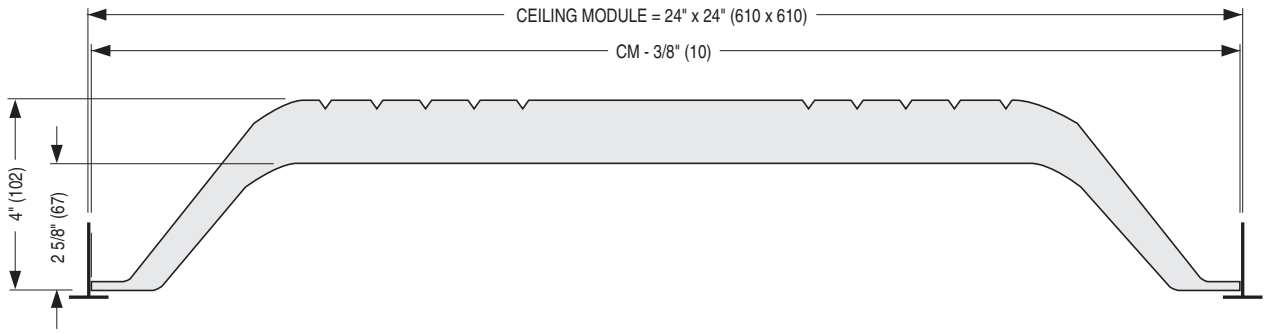
Square Neck Size (inches)	Round Neck Size D (inches)
6 x 6	4, 5, 6
8 x 8	4, 5, 6, 7, 8
9 x 9	6, 7, 8, 9
10 x 10	6, 7, 8, 9, 10
12 x 12	6, 8, 9, 10, 12
14 x 14	6, 8, 9, 10, 12, 14
15 x 15	6, 8, 10, 12, 14, 15
16 x 16	6, 8, 10, 12, 14, 15, 16
18 x 18	6, 8, 10, 12, 14, 15, 16, 18
20 x 20	6, 8, 10, 12, 14,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

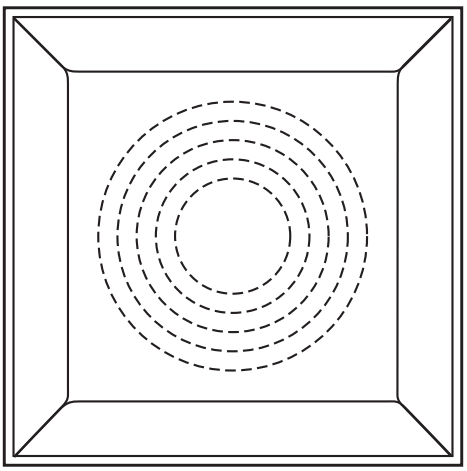


Example illustrated is Model 6500 Pattern Diffuser.

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**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:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**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.

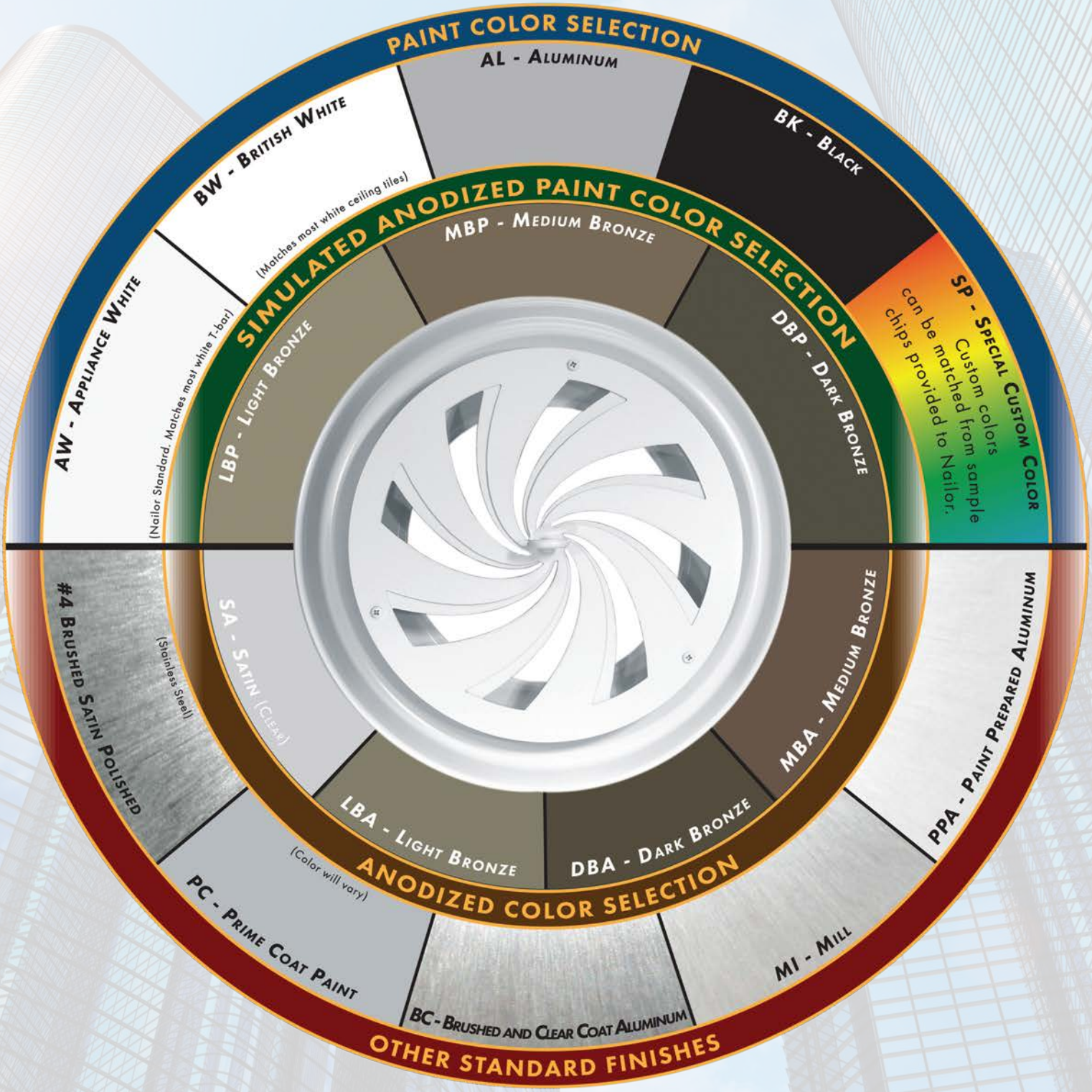
MILL FINISH

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.

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
	RETURN FACTORS —SP=0.7 TP NC + 0	CFM NC	78 —	118 11	157 19	176 21	196 25	235 30	274 35
			A B	A B	A B	A B	A B	A B	A B
18 x 18 6" ROUND	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
	RETURN FACTORS —SP=0.8 TP NC + 0	CFM NC	140 —	209 13	279 21	314 23	349 27	419 32	489 37
			A B	A B	A B	A B	A B	A B	A B
18 x 18 8" ROUND	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 11-14-0 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
	RETURN FACTORS —SP=0.9 TP NC + 2	CFM NC	218 —	327 16	436 24	491 26	545 30	654 35	763 40
			A B	A B	A B	A B	A B	A B	A B
18 x 18 10" ROUND	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
	RETURN FACTORS —SP=1.0 TP NC + 3	CFM NC	314 —	471 18	628 26	707 28	785 32	942 37	1099 42
			A B	A B	A B	A B	A B	A B	A B
18 x 18 12" ROUND	4A	CFM/SIDE THROW, FT.	79 6-9-15	118 8-11-18	157 10-15-23	1771 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
	RETURN FACTORS —SP=1.1 TP NC + 4	CFM NC	427 —	641 20	854 28	961 30	1068 34	1282 39	1495 44
			A B	A B	A B	A B	A B	A B	A B
18 x 18 14" ROUND	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
	RETURN FACTORS —SP=1.3 TP NC + 6	CFM NC	558 —	837 22	1116 30	1256 32	1395 36	1674 41	1953 46
			A B	A B	A B	A B	A B	A B	A B
18 x 18 16" ROUND	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.

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=3.3 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	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
		THROW, FT.	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	450	450	600	600	750	750	900	900	1050	1050	1200	1200	1350	1350
		THROW, FT.	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	750	300	1000	400	1250	500	1500	600	1750	700	2000	800	2250	900
		THROW, FT.	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	676	562	900	750	1125	937	1350	1125	1575	1312	1800	1500	2025	1687
		THROW, FT.	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 2B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	32-41-56		37-48-65		42-54-73		48-58-78		51-61-85		54-66-90		58-70-97	
	2C 2D 2E 2F	CFM/SIDE	1200	600	1600	800	2000	1000	2400	1200	2800	1400	3200	1600	3600	1800
		THROW, FT.	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 1B	CFM/SIDE	1800		2400		3000		3600		4200		4800		5400	
		THROW, FT.	41-51-70		48-58-80		54-66-90		58-70-99		61-75-105		66-80-114		70-85-122	
	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
36 x 30 7.5 SQ. FT.	4B 4C	CFM/SIDE	657	468	875	625	1093	782	1313	937	1532	1093	1750	1250	1969	1406
		THROW, FT.	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	890	468	1187	625	1484	782	1781	937	2078	1093	2375	1250	2672	1406
		THROW, FT.	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	787	675	1050	900	1312	1125	1575	1350	1837	1575	2100	1800	2362	2025
		THROW, FT.	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 2B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	34-42-59		39-49-68		44-56-76		49-59-83		53-65-88		56-68-97		59-73-102	
	2C 2D 2E 2F	CFM/SIDE	1312	938	1750	1250	2188	1562	2625	1875	3063	2187	3500	2500	3938	2812
		THROW, FT.	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 1B	CFM/SIDE	2250		3000		3750		4500		5250		6000		6750	
		THROW, FT.	48-60-82		56-68-94		64-78-106		68-82-116		72-88-124		78-94-134		82-100-144	

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.

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:

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 6500**. Apply the following corrections for aluminum construction – **Model 6200**.
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 adjustable models - see next page.
5. Correction factors for round inlets - see next page.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

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

For performance notes, see D44.

PERFORMANCE DATA:

MODELS 6500IV AND 6200IV • SQUARE NECK • INDUCTION VANES

NOMINAL NECK SIZE	BLOW PATTERNS	NECK VELOCITY TP	300 .035		400 .062		500 .097		600 .140		700 .191		800 .249		900 .316	
	RETURN FACTORS —SP=2.6 TP NC + 8	CFM NC	915 18		1225 26		1530 32		1835 36		2140 41		2450 44		2750 47	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 21 3.06 SQ. FT.	4A	CFM/SIDE 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 12-15-21	345 16-20-27	306 14-18-23	460 18-22-31	382 15-20-27	573 21-25-36	460 16-21-29	688 22-27-40	535 18-22-31	802 23-29-42	612 18-23-32	918 27-31-45	688 20-27-36	1030 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	
	RETURN FACTORS —SP=2.7 TP NC + 8	CFM NC	1200 19		1600 27		2000 33		2400 37		2800 41		3200 45		3600 48	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 24 4.0 SQ. FT.	4A	CFM/SIDE 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 16-19-26	450 18-22-31	400 19-22-32	600 19-25-37	500 22-25-35	750 23-29-42	600 23-26-38	900 25-30-45	700 25-28-41	1050 29-33-47	800 26-32-44	1200 29-34-51	900 28-32-46	1350 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	
	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1875 20		2500 28		3125 34		3750 39		4375 43		5000 46		5625 50	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 30 6.25 SQ. FT.	4A	CFM/SIDE 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 20-25-34	703 22-27-39	625 23-29-38	938 26-31-46	782 27-32-44	1172 28-35-51	937 29-35-49	1405 31-39-55	1093 30-37-52	1640 33-39-59	1250 32-40-55	1875 35-46-62	1406 37-42-58	2110 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	
	RETURN FACTORS —SP=3.6 TP NC + 9	CFM NC	2700 22		3600 29		4500 35		5400 40		6300 44		7200 48		8100 52	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 36 9.0 SQ. FT.	4A	CFM/SIDE 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 24-30-41	1010 27-35-46	900 27-33-46	1350 32-38-54	1125 31-37-54	1687 37-45-62	1350 33-41-59	2025 38-48-66	1575 35-42-62	2362 42-51-70	1800 41-46-66	2700 46-56-75	2025 41-51-70	3038 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 – 2006.

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	
	RETURN FACTORS —SP=1.2 TP NC + 0	CFM NC	110 —		150 14		185 20		225 25		260 29		300 33		335 37	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
9 x 6 .375 SQ. FT.	4B	CFM/SIDE	37	18	50	25	62	31	75	37	87	44	100	50	112	56
		THROW, FT.	7-11-13	5-6-10	10-12-16	6-7-11	11-13-18	7-10-12	12-14-19	7-10-13	12-16-20	10-11-14	13-17-22	10-12-15	14-18-23	11-12-16
	3A1	CFM/SIDE	47	18	62	25	78	31	94	37	109	44	125	50	140	56
		THROW, FT.	10-11-14	5-6-10	11-12-17	6-7-11	12-13-19	7-10-12	13-14-20	7-10-13	14-16-22	10-11-14	14-17-23	10-12-15	16-18-26	11-12-16
	3A2	CFM/SIDE	42	35	55	47	70	58	84	70	98	82	112	94	126	105
		THROW, FT.	8-12-14	6-8-13	10-13-17	8-10-14	12-14-19	10-12-16	13-16-21	10-13-17	13-17-22	12-13-18	14-18-23	12-14-19	16-19-25	13-16-21
	2A 2B	CFM/SIDE	56		75		93		112		131		150		168	
		THROW, FT.	11-12-16		12-14-19		13-16-22		14-18-23		16-19-24		17-20-26		18-22-29	
	2C 2E 2D 2F	CFM/SIDE	75	37	100	50	125	62	150	75	175	87	200	100	225	112
		THROW, FT.	12-14-19	8-12-14	13-16-22	10-13-17	14-18-25	12-14-19	16-19-29	13-16-21	17-21-29	13-17-25	18-22-31	14-18-23	20-23-33	16-20-25
	1A 1B	CFM/SIDE	112		150		187		225		262		300		337	
		THROW, FT.	14-17-23		17-19-29		19-22-31		21-23-34		22-25-36		23-29-39		25-29-42	
	RETURN FACTORS —SP=1.6 TP NC + 1	CFM NC	150 —		200 14		250 20		300 26		350 31		400 35		450 39	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
12 x 6 .50 SQ. FT.	4B 4C	CFM/SIDE	56	18	75	25	94	31	113	37	131	44	150	50	169	56
		THROW, FT.	11-13-17	5-6-10	12-14-19	6-7-11	13-17-22	7-10-12	14-18-23	7-10-13	16-19-26	10-11-14	17-20-26	10-11-14	18-22-29	11-12-16
	3A1	CFM/SIDE	66	18	87	25	109	31	131	37	153	44	175	50	197	56
		THROW, FT.	11-13-18	5-6-10	12-14-20	6-7-11	13-17-23	7-10-12	14-18-26	7-10-13	16-19-26	10-11-14	17-20-29	10-11-14	18-22-30	11-12-16
	3B	CFM/SIDE	75	37	100	50	126	62	150	75	176	87	200	100	226	112
		THROW, FT.	11-16-20	8-12-14	14-18-23	10-13-17	16-20-27	12-14-19	18-22-29	13-16-21	18-23-31	13-17-25	20-25-32	14-18-23	22-27-34	16-20-25
	2A 2B	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	11-13-18		12-14-20		13-17-23		14-18-26		16-19-26		17-20-29		18-22-30	
	2C 2E 2D 2F	CFM/SIDE	112	37	150	50	188	62	225	75	263	87	300	100	338	112
		THROW, FT.	14-17-23	8-12-14	17-19-29	10-13-17	19-22-31	12-14-19	21-23-34	13-16-21	22-25-36	13-17-25	23-29-39	14-18-23	25-29-42	16-20-25
	1A 1B	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	14-17-23		17-19-29		19-22-31		21-23-34		22-25-36		23-29-39		25-29-42	
	RETURN FACTORS —SP=1.9 TP NC + 1	CFM NC	190 —		250 15		310 21		375 27		440 32		500 36		565 40	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 6 .625 SQ. FT.	4B 4C	CFM/SIDE	75	18	100	25	125	31	150	37	175	44	200	50	225	56
		THROW, FT.	11-13-18	5-6-10	12-14-20	6-7-11	13-17-23	7-10-12	14-18-26	7-10-13	16-19-26	10-11-14	17-20-29	10-11-14	18-22-30	11-12-16
	4E	CFM/SIDE	56	37	75	50	94	62	113	75	131	87	150	100	169	112
		THROW, FT.	11-12-16	10-11-14	12-14-19	11-12-17	12-17-22	12-13-19	14-18-23	13-14-20	16-19-26	14-16-22	16-20-26	14-17-23	18-22-29	16-18-26
	3A1	CFM/SIDE	84	18	112	25	140	31	169	37	197	44	225	50	253	56
		THROW, FT.	12-13-19	5-6-10	13-16-22	6-7-11	14-18-24	7-10-12	16-19-26	7-10-13	17-20-28	10-11-14	18-22-30	10-11-14	19-23-34	11-12-16
	2A 2B	CFM/SIDE	94		125		156		187		219		250		281	
		THROW, FT.	12-14-20		13-16-23		14-19-26		16-20-28		17-22-30		18-23-31		19-26-35	
	2C 2E 2D 2F	CFM/SIDE	150	37	200	50	250	62	300	75	350	87	400	100	450	112
		THROW, FT.	14-17-23	8-12-14	17-19-29	10-13-17	19-22-31	12-14-19	21-23-34	13-16-21	22-25-36	13-17-22	23-29-39	14-18-23	25-29-42	16-20-25
	1A 1B	CFM/SIDE	188		250		312		375		438		500		563	
		THROW, FT.	16-19-26		18-22-30		21-25-34		22-29-38		23-29-40		25-31-43		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	
	RETURN FACTORS —SP=2.6 TP NC + 2	CFM NC	225 —		300 16		375 22		450 28		525 33		600 37		675 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 6 .75 SQ. FT.	4B 4C	CFM/SIDE	94	18	125	25	156	31	188	37	218	44	250	50	281	56
		THROW, FT.	12-14-20	5-6-10	13-17-23	6-7-11	14-19-25	7-10-12	16-20-28	7-10-13	17-22-30	10-11-14	18-23-31	10-11-14	19-26-35	11-12-16
	4E	CFM/SIDE	56	56	75	75	94	94	113	113	131	131	150	150	169	169
		THROW, FT.	11-13-17	11-13-17	12-14-19	12-14-19	13-17-22	13-17-22	14-18-23	14-18-23	16-19-26	16-19-26	17-20-26	17-20-26	18-22-29	18-22-29
	3A1	CFM/SIDE	103	18	137	25	172	31	206	37	240	44	275	50	309	56
		THROW, FT.	12-14-20	5-6-10	13-17-23	6-7-11	14-19-25	7-10-12	16-20-28	7-10-13	17-22-30	10-11-14	18-23-31	10-11-14	19-26-35	11-12-16
	2A 2B	CFM/SIDE	112		150		187		225		262		300		337	
		THROW, FT.	13-16-22		16-18-26		18-20-29		19-22-31		20-23-34		22-26-36		23-26-38	
	2C 2D 2E 2F	CFM/SIDE	187	37	250	50	313	62	375	75	438	87	500	100	563	112
		THROW, FT.	16-19-26	8-12-14	18-22-30	10-13-17	21-25-34	12-14-19	22-29-38	13-16-21	23-29-40	13-17-22	25-31-43	14-18-23	29-32-45	16-19-25
	1A 1B	CFM/SIDE	225		300		375		450		525		600		675	
		THROW, FT.	17-21-29		19-23-32		22-26-38		23-29-42		25-30-44		29-32-47		29-36-52	
	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	260 —		350 16		435 22		525 29		610 33		700 38		785 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 6 .875 SQ. FT.	4B 4C	CFM/SIDE	112	18	150	25	187	31	225	37	262	44	300	50	337	56
		THROW, FT.	13-16-22	5-6-10	16-18-26	6-7-11	18-20-29	7-10-12	19-22-31	7-10-13	20-23-34	10-11-14	22-26-36	10-11-14	23-26-38	11-12-16
	4E	CFM/SIDE	75	56	100	75	125	94	150	113	175	131	200	150	225	169
		THROW, FT.	11-13-18	11-13-17	12-14-20	12-14-19	13-17-23	13-17-22	14-18-26	14-18-23	16-19-26	16-19-26	17-20-29	17-20-26	18-22-30	18-22-29
	3A1	CFM/SIDE	122	18	162	25	203	31	244	37	284	44	325	50	365	56
		THROW, FT.	13-16-22	5-6-10	16-18-26	6-7-11	18-20-29	7-10-12	19-22-31	7-10-13	20-23-34	10-11-14	22-26-36	10-11-14	23-26-38	11-12-16
	2A 2B	CFM/SIDE	131		175		218		262		306		350		393	
		THROW, FT.	13-16-22		16-18-26		18-20-29		19-22-31		20-23-34		22-26-36		23-26-38	
	2C 2D 2E 2F	CFM/SIDE	225	37	300	50	375	62	450	75	525	87	600	100	675	112
		THROW, FT.	17-21-29	8-12-14	19-23-32	10-13-17	22-26-38	12-14-19	23-29-42	13-16-21	25-30-44	13-17-22	29-32-47	14-18-23	29-36-49	16-19-25
	1A 1B	CFM/SIDE	262		350		437		525		612		700		787	
		THROW, FT.	17-21-29		19-23-32		22-26-38		23-29-42		25-30-44		29-32-47		29-36-49	
	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	300 —		400 16		500 23		600 30		700 34		800 39		900 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 6 1.0 SQ. FT.	4B 4C	CFM/SIDE	131	18	175	25	219	31	263	37	306	44	350	50	394	56
		THROW, FT.	13-16-22	5-6-10	16-18-26	6-7-11	18-20-29	7-10-12	19-22-31	7-10-13	20-23-34	10-11-14	22-26-36	10-11-14	23-26-38	11-12-16
	4E	CFM/SIDE	75	75	100	100	125	125	150	150	175	175	200	200	225	225
		THROW, FT.	11-13-18	11-13-18	12-14-20	12-14-20	13-17-23	13-17-23	14-18-26	14-18-26	16-19-26	16-19-26	17-20-29	17-20-29	18-22-30	18-22-30
	3A1	CFM/SIDE	141	18	187	25	234	31	281	37	328	44	375	50	422	56
		THROW, FT.	13-16-22	5-6-10	16-18-26	6-7-11	18-20-29	7-10-12	19-22-31	7-10-13	20-23-34	10-11-14	22-26-36	10-11-14	23-26-38	11-12-16
	2A 2B	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	13-16-22		16-18-26		18-20-29		19-22-31		20-23-34		22-26-36		23-26-38	
	2C 2D 2E 2F	CFM/SIDE	260	37	350	50	438	62	525	75	613	87	700	100	788	112
		THROW, FT.	17-21-29	8-12-14	19-23-32	10-13-17	22-26-38	12-14-19	23-29-42	13-16-21	25-30-44	13-17-22	29-32-47	14-18-23	29-36-49	16-19-25
	1A 1B	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	18-22-31		21-25-36		23-29-42		25-30-44		29-32-47		29-34-51		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.

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

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

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	
	RETURN FACTORS —SP=3.9 TP NC + 5	CFM NC	560 —		750 20		935 26		1125 32		1310 37		1500 39		1685 44	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 9 1.875 SQ. FT.	4B 4C	CFM/SIDE	238	42	319	56	398	70	478	84	557	98	638	112	716	126
		THROW, FT.	18-22-31	7-8-14	21-25-35	8-11-15	24-28-41	11-13-17	25-31-45	11-14-18	27-32-48	13-14-20	29-35-50	13-15-21	31-39-53	14-17-22
	4E	CFM/SIDE	155	126	206	169	258	211	310	253	361	295	413	337	465	379
		THROW, FT.	17-21-28	15-18-25	20-24-32	18-21-31	22-27-36	21-24-34	24-31-41	22-25-36	25-31-42	24-27-39	27-34-46	25-29-42	31-35-49	27-31-45
	3A1	CFM/SIDE	259	42	347	56	433	70	520	84	606	98	694	112	779	126
		THROW, FT.	18-22-31	7-8-14	21-25-35	8-11-15	24-28-41	11-13-17	25-31-45	11-14-18	27-32-48	13-14-20	29-35-50	13-15-21	31-39-53	14-17-22
	2A 2B	CFM/SIDE	281		375		468		562		655		750		842	
		THROW, FT.	20-24-34		22-27-39		25-31-45		27-32-48		29-35-50		31-36-55		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	476	84	638	112	796	141	956	169	1113	197	1275	225	1432	253
		THROW, FT.	22-27-39	13-15-20	25-31-45	14-17-22	28-35-50	15-20-25	31-39-55	17-21-27	32-42-59	18-22-31	35-45-62	20-24-31	39-48-66	21-25-34
	1A 1B	CFM/SIDE	562		750		937		1125		1310		1500		1685	
		THROW, FT.	22-27-39		25-31-45		28-35-50		31-39-55		32-42-59		35-45-62		39-48-66	
	RETURN FACTORS —SP=5.0 TP NC + 6	CFM NC	675 —		900 21		1125 27		1350 33		1575 38		1800 40		2025 44	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 9 2.25 SQ. FT.	4B 4C	CFM/SIDE	295	42	394	56	492	70	591	84	689	98	788	112	886	126
		THROW, FT.	20-24-34	7-8-14	22-27-39	8-11-15	25-31-45	11-13-17	27-32-48	11-14-18	29-35-50	13-14-20	31-36-55	13-15-21	34-41-57	14-17-22
	4E	CFM/SIDE	183	155	244	206	305	258	366	310	427	361	488	413	549	465
		THROW, FT.	17-21-28	17-21-28	20-24-32	20-24-32	22-27-36	22-27-36	24-31-41	24-31-41	25-31-42	25-31-42	27-34-46	27-34-46	31-35-49	31-35-49
	3A1	CFM/SIDE	316	42	422	56	527	70	633	84	738	98	844	112	949	126
		THROW, FT.	20-24-34	7-8-14	22-27-39	8-11-15	25-31-45	11-13-17	27-32-48	11-14-18	29-35-50	13-14-20	31-36-55	13-15-21	34-41-57	14-17-22
	2A 2B	CFM/SIDE	337		450		562		675		787		900		1012	
		THROW, FT.	20-24-34		22-27-39		25-31-45		27-32-48		29-35-50		31-36-55		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	590	84	788	112	984	141	1181	169	1378	197	1575	225	1772	253
		THROW, FT.	24-31-42	13-15-20	28-34-48	14-17-22	32-39-55	15-20-25	34-42-57	17-21-27	36-45-62	18-22-29	41-49-66	20-24-31	43-52-70	21-25-34
	1A 1B	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	24-31-42		28-34-48		32-39-55		34-42-57		36-45-62		41-49-66		43-52-70	
	RETURN FACTORS —SP=1.6 TP NC + 2	CFM NC	375 —		500 19		625 25		750 30		875 34		1000 38		1125 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 12 1.25 SQ. FT.	4B 4C	CFM/SIDE	112	75	150	100	187	125	225	150	262	175	300	200	337	225
		THROW, FT.	13-15-21	8-13-15	14-17-24	11-14-18	15-20-27	13-15-21	17-21-29	14-17-22	18-22-31	14-18-24	20-24-34	15-20-25	21-25-35	17-21-27
	3A1	CFM/SIDE	150	75	200	100	250	125	300	150	350	175	400	200	450	225
		THROW, FT.	15-18-25	8-13-15	18-21-31	11-14-18	21-24-34	13-15-21	22-25-36	14-17-22	24-27-39	14-18-24	25-29-42	15-20-25	27-31-45	17-21-27
	3A2	CFM/SIDE	117	129	156	172	195	215	234	258	273	301	312	344	351	387
		THROW, FT.	11-14-18	14-15-22	13-15-21	15-18-25	14-17-24	17-21-28	15-18-25	18-22-31	17-20-27	20-24-32	17-21-29	21-25-35	18-22-31	22-27-39
	2A 2B	CFM/SIDE	187		250		312		375		437		500		567	
		THROW, FT.	17-21-28		20-24-32		22-27-36		24-29-41		25-31-43		27-34-46		31-35-49	
	2C 2D 2E 2F	CFM/SIDE	225	150	300	200	375	250	450	300	525	350	600	400	675	450
		THROW, FT.	18-22-31	14-17-24	21-25-35	15-20-27	24-28-41	17-22-31	25-31-45	18-24-32	27-32-48	20-25-35	31-35-50	21-27-36	31-39-53	22-31-41
	1A 1B	CFM/SIDE	375		500		625		750		875		1000		1125	
		THROW, FT.	21-25-35		24-31-42		27-34-48		29-36-50		31-39-55		34-42-59		35-45-62	

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	
	RETURN FACTORS —SP=1.9 TP NC + 3	CFM NC	450 —		600 20		750 26		900 31		1050 35		1200 39		1350 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 12 1.5 SQ. FT.	4B 4C	CFM/SIDE	150	75	200	100	250	125	300	150	350	175	400	200	450	225
		THROW, FT.	15-18-25	8-13-15	18-21-31	11-14-18	21-24-34	13-15-21	22-25-36	14-17-22	24-27-39	14-18-24	25-31-42	15-20-25	27-31-45	17-21-27
	3A1	CFM/SIDE	187	75	250	100	312	125	375	150	437	175	500	200	562	225
		THROW, FT.	17-21-28	8-13-15	20-24-32	11-14-18	22-27-36	13-15-21	24-31-41	14-17-22	25-31-43	14-18-24	27-34-46	15-20-25	31-35-49	17-21-27
	3A2	CFM/SIDE	168	141	225	187	281	234	337	281	394	328	450	375	506	422
		THROW, FT.	14-17-24	13-15-21	15-20-27	14-17-24	17-22-31	15-20-27	18-24-32	17-21-31	20-25-35	18-22-31	21-27-36	20-24-34	22-31-41	21-25-35
	2A 2B	CFM/SIDE	225		300		375		450		525		600		675	
		THROW, FT.	18-22-31		21-25-35		24-28-41		25-31-45		27-32-48		29-35-50		31-39-53	
	2C 2D 2E 2F	CFM/SIDE	300	150	400	200	500	250	600	300	700	350	800	400	900	450
		THROW, FT.	20-24-34	14-17-24	22-27-39	15-20-27	25-31-45	17-22-31	27-32-48	18-24-32	29-35-50	20-25-35	31-36-55	21-27-36	34-41-57	22-31-41
	1A 1B	CFM/SIDE	450		600		750		900		1050		1200		1350	
		THROW, FT.	21-25-35		24-31-42		27-34-48		29-36-50		31-39-55		34-42-59		35-45-62	
	RETURN FACTORS —SP=2.2 TP NC + 5	CFM NC	525 —		700 20		875 26		1050 31		1225 35		1400 39		1575 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 12 1.75 SQ. FT.	4B 4C	CFM/SIDE	187	75	250	100	312	125	375	150	437	175	500	200	562	225
		THROW, FT.	17-21-28	8-13-15	20-24-32	11-14-18	22-27-36	13-15-21	24-31-41	14-17-22	25-32-43	14-18-24	27-34-46	15-20-25	31-35-49	17-21-27
	4E	CFM/SIDE	150	112	200	150	250	187	300	225	350	262	400	300	450	337
		THROW, FT.	15-18-25		18-21-31	15-18-25	21-24-34		22-25-36		24-27-39		25-31-42	22-25-36	27-31-45	
	3A1	CFM/SIDE	225	75	300	100	375	125	450	150	525	175	600	200	675	225
		THROW, FT.	18-22-31	8-13-15	21-25-35	11-14-18	24-28-41	13-15-21	25-31-45	14-17-22	27-32-48	14-18-24	29-35-50	15-20-25	31-39-53	17-21-27
	3A2	CFM/SIDE	230	148	306	197	382	246	460	295	535	345	612	394	688	443
		THROW, FT.	14-17-24	13-15-21	15-20-27	14-17-24	17-22-31	15-20-27	18-24-32	17-21-31	20-25-35	18-22-31	21-27-36	20-24-34	22-31-41	21-25-35
	2A 2B	CFM/SIDE	262		350		437		525		612		700		787	
		THROW, FT.	18-22-31		21-25-35		24-28-41		25-31-45		27-32-48		29-35-50		31-39-53	
	2C 2D 2E 2F	CFM/SIDE	375	150	500	200	625	250	750	300	875	350	1000	400	1125	450
		THROW, FT.	21-25-35	14-17-24	24-31-42	15-20-27	27-34-48	17-22-31	29-36-50	18-24-32	31-39-55	20-25-35	34-42-59	21-27-36	35-45-62	22-31-41
	1A 1B	CFM/SIDE	525		700		875		1050		1225		1400		1575	
		THROW, FT.	22-27-39		25-31-45		28-35-50		31-39-55		32-42-59		35-45-62		39-48-66	
	RETURN FACTORS —SP=2.6 TP NC + 5	CFM NC	600 12		800 21		1000 27		1200 32		1400 36		1600 40		1800 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 12 2.0 SQ. FT.	4B 4C	CFM/SIDE	225	75	300	100	375	125	450	150	525	175	600	200	675	225
		THROW, FT.	18-22-31	8-13-15	21-25-35	11-14-18	24-28-41	13-15-21	25-31-45	14-17-22	27-32-48	14-18-24	31-35-50	15-20-25	31-39-53	17-21-27
	4E	CFM/SIDE	150	150	200	200	250	250	300	300	350	350	400	400	450	450
		THROW, FT.	15-18-25	15-18-25	18-21-31	18-21-31	21-24-34	21-24-34	22-25-36	22-25-36	24-27-39	24-27-39	25-31-42	25-31-42	27-31-45	27-31-45
	3A1	CFM/SIDE	262	75	350	100	437	175	525	150	612	175	700	200	787	225
		THROW, FT.	18-22-31	8-13-15	21-25-35	11-14-18	24-28-41	13-15-21	25-31-45	14-17-22	27-32-48	14-18-24	29-35-50	15-20-25	31-39-53	17-21-27
	3B	CFM/SIDE	300	150	400	200	500	250	600	300	700	350	800	400	900	450
		THROW, FT.	15-18-25	14-17-24	18-21-31	15-20-27	21-24-34	17-22-31	22-25-36	18-24-32	24-27-39	20-25-35	25-31-42	21-27-36	27-31-45	22-31-41
	2A 2B	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	20-24-34		22-27-39		25-31-45		27-32-48		29-35-50		31-36-55		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	450	150	600	200	750	250	900	300	1050	350	1200	400	1350	450
		THROW, FT.	21-25-35	14-17-24	24-31-42	15-20-27	27-34-48	17-22-31	29-36-50	18-24-32	31-39-55	20-25-35	34-42-59	21-27-36	35-45-62	22-31-41
	1A 1B	CFM/SIDE	600		800		1000		1200		1400		1600		1800	
		THROW, FT.	24-31-42		28-34-48		32-39-55		34-42-57		36-45-62		41-49-66		43-52-70	

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	
	RETURN FACTORS —SP=3.3 TP NC + 6	CFM NC	750 15		1000 23		1250 29		1500 33		1750 37		2000 41		2250 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 12 2.5 SQ. FT.	4B 4C	CFM/SIDE	300	75	400	100	500	125	600	150	700	175	800	200	900	225
		THROW, FT.	20-24-34	8-13-15	22-27-39	11-14-18	25-31-45	13-15-21	27-32-48	14-17-22	29-35-50	14-18-24	31-36-55	15-20-25	34-41-57	17-21-27
	4E	CFM/SIDE	183	183	250	250	313	313	375	375	437	437	500	500	562	562
		THROW, FT.	17-21-28	17-21-28	20-24-32	20-24-32	22-27-36	22-27-36	24-31-41	24-31-41	25-31-43	25-31-43	27-34-46	27-34-46	31-35-49	31-35-49
	3A1	CFM/SIDE	337	75	450	100	562	125	675	150	787	175	900	200	1012	225
		THROW, FT.	20-24-34	8-13-15	22-27-39	11-14-18	25-31-45	13-15-21	27-32-48	14-17-22	29-35-50	14-18-24	31-36-55	15-20-25	34-41-57	17-21-27
	2A 2B	CFM/SIDE	375		500		625		750		875		1000		1125	
		THROW, FT.	21-25-35		24-31-42		27-34-48		29-36-50		31-39-55		34-42-59		35-45-62	
	2C 2D 2E 2F	CFM/SIDE	600	150	800	200	1000	250	1200	300	1400	350	1600	400	1800	450
		THROW, FT.	24-31-41	14-17-24	28-34-48	15-20-27	32-39-55	17-22-31	34-42-57	18-24-32	36-45-62	20-25-35	41-49-66	21-27-36	43-52-70	22-31-41
	1A 1B	CFM/SIDE	750		1000		1250		1500		1750		2000		2250	
		THROW, FT.	25-31-45		31-35-50		34-41-57		36-45-62		39-48-66		42-50-70		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 12 3.0 SQ. FT.	4B 4C	CFM/SIDE	375	75	500	100	625	125	750	150	875	175	1000	200	1125	225
		THROW, FT.	21-25-35	8-13-15	24-31-42	11-14-18	27-34-48	13-15-21	29-36-50	14-17-22	31-39-55	14-18-24	34-42-59	15-20-25	35-45-62	17-21-27
	4E	CFM/SIDE	225	225	300	300	375	375	450	450	525	525	600	600	675	675
		THROW, FT.	18-22-31	18-22-31	21-25-35	21-25-35	24-28-41	24-28-41	25-31-45	25-31-45	27-32-48	27-32-48	29-35-50	29-35-50	31-39-53	31-39-53
	3A1	CFM/SIDE	412	75	550	100	687	125	825	150	962	175	1100	200	1237	225
		THROW, FT.	21-25-35	8-13-15	24-31-42	11-14-18	27-34-48	13-15-21	29-36-50	14-17-22	31-39-55	14-18-24	34-42-59	15-20-25	35-45-62	17-21-27
	2A 2B	CFM/SIDE	450		600		750		900		1050		1200		1350	
		THROW, FT.	21-25-35		24-31-42		27-34-48		29-36-50		31-39-55		34-42-59		35-45-62	
	2C 2D 2E 2F	CFM/SIDE	750	150	1000	200	1250	250	1500	300	1750	350	2000	400	2250	450
		THROW, FT.	25-31-45	14-17-24	31-35-50	15-20-27	34-41-57	17-22-31	36-45-62	18-24-32	39-48-66	20-25-35	42-50-70	21-27-36	45-53-74	22-31-41
	1A 1B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	27-34-46		31-39-53		35-45-60		39-48-64		42-50-70		45-55-74		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 15 1.875 SQ. FT.	4B 4C	CFM/SIDE	164	117	219	156	273	195	328	234	383	273	438	312	492	351
		THROW, FT.	14-17-24	11-14-18	15-20-27	13-15-21	17-22-31	14-17-24	18-24-32	15-18-25	20-25-35	17-20-27	21-27-36	17-21-31	22-31-41	18-22-31
	3A1	CFM/SIDE	222	117	297	156	371	195	445	234	519	273	594	312	668	351
		THROW, FT.	18-22-31	11-14-18	21-25-35	13-15-21	24-28-41	14-17-24	25-31-45	15-18-25	31-39-55	17-20-27	31-35-50	17-21-31	31-39-53	18-22-31
	3A2	CFM/SIDE	168	197	225	262	281	328	337	394	394	459	450	525	506	590
		THROW, FT.	13-16-22	18-22-30	15-18-25	21-25-34	16-21-28	24-28-39	18-22-33	25-33-43	19-24-33	27-33-46	21-25-36	28-36-49	22-27-37	33-37-52
	2A 2B	CFM/SIDE	281		375		468		562		656		750		843	
		THROW, FT.	20-24-34		22-27-39		25-31-45		27-32-48		29-35-50		31-36-55		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	329	234	438	312	547	390	657	468	766	546	876	624	985	702
		THROW, FT.	25-33-45	18-22-30	30-36-51	21-25-34	34-42-58	24-28-39	36-45-61	25-31-43	39-48-66	27-33-46	43-52-70	28-36-49	46-55-75	33-37-52
	1A 1B	CFM/SIDE	562		750		937		1125		1312		1500		1687	
		THROW, FT.	24-28-42		27-33-48		30-37-54		33-42-58		34-45-63		37-48-66		42-51-70	

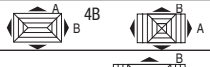
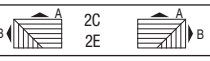
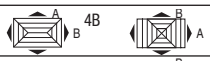
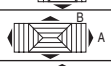
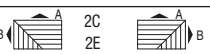
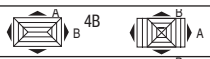
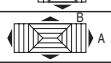
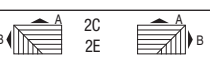
Notes:

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

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	
	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	446	117	594	156	742	195	891	234	1039	273	1188	312	1336	351
		THROW, FT.	22-27-37	12-15-19	25-33-45	13-16-22	28-36-51	15-18-25	33-39-54	16-19-27	33-45-58	18-21-28	36-45-63	18-22-30	37-48-66	19-24-33
	4E	CFM/SIDE	306	258	408	344	510	430	612	516	714	602	816	688	918	775
		THROW, FT.	21-25-36	19-24-33	24-28-42	22-27-37	27-33-48	25-30-43	28-34-51	27-33-48	33-37-54	28-34-51	33-39-58	33-37-54	36-43-61	33-42-57
	3A1	CFM/SIDE	504	117	672	156	840	195	1008	234	1176	273	1344	312	1512	351
		THROW, FT.	24-28-42	12-15-19	27-33-48	13-16-22	30-37-54	15-18-25	33-45-58	16-19-27	34-45-63	18-21-28	37-48-66	18-22-30	42-51-70	19-24-33
	2A 2B	CFM/SIDE	562		750		937		1125		1312		1500		1682	
		THROW, FT.	24-28-42		27-33-48		30-37-54		33-42-58		34-45-63		37-48-66		42-51-70	
	2C 2D 2E 2F	CFM/SIDE	890	234	1188	312	1485	390	1782	468	2079	546	2376	624	2873	702
		THROW, FT.	28-36-49	18-22-30	33-42-49	21-25-34	37-48-64	24-28-39	42-51-69	25-33-43	45-54-75	27-33-46	48-58-79	28-36-49	51-61-85	33-37-52
	1A 1B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	30-37-52		34-43-60		39-48-67		42-52-73		46-57-78		49-60-85		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	225	169	300	225	375	280	450	337	526	394	600	450	674	506
		THROW, FT.	16-19-27	13-16-22	19-22-33	15-18-25	22-25-36	16-21-28	24-27-40	18-22-30	25-28-42	19-24-33	27-33-45	21-25-36	28-33-48	22-27-37
	3A1	CFM/SIDE	309	169	412	225	514	281	619	337	723	394	825	450	927	506
		THROW, FT.	21-25-36	13-16-22	24-28-42	15-18-25	27-33-48	16-21-28	28-34-51	18-22-30	33-37-54	19-24-33	33-39-58	21-25-36	36-43-61	22-27-37
	3A2	CFM/SIDE	279	230	372	306	464	382	557	460	652	535	744	612	836	688
		THROW, FT.	21-25-36	15-18-25	24-28-42	16-21-28	27-33-48	18-24-33	28-34-51	19-25-34	33-37-54	21-27-37	33-39-58	22-28-39	36-43-61	24-33-43
	2A 2B	CFM/SIDE	393		525		655		787		920		1050		1180	
		THROW, FT.	22-27-37		25-33-42		28-36-46		30-39-54		33-42-58		36-45-63		37-48-66	
	2C 2D 2E 2F	CFM/SIDE	450	338	600	450	750	560	900	675	1060	790	1200	900	1350	1010
		THROW, FT.	22-27-37	19-24-33	25-33-42	22-27-37	28-36-46	25-30-43	30-39-54	27-33-48	33-42-58	28-34-51	36-45-63	33-37-54	37-48-66	33-42-57
	1A 1B	CFM/SIDE	787		1050		1310		1575		1840		2100		2360	
		THROW, FT.	29-35-51		35-40-58		38-46-66		42-51-70		45-54-75		48-58-80		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	281	169	375	225	469	281	563	337	656	394	750	450	844	506
		THROW, FT.	22-27-38	14-18-24	26-30-45	16-19-27	29-35-51	18-22-30	30-37-54	19-24-33	33-40-58	21-26-35	35-42-62	22-27-38	38-46-66	24-29-40
	4E	CFM/SIDE	225	225	300	300	375	375	450	450	525	525	600	600	675	675
		THROW, FT.	21-26-35	21-26-35	24-29-40	24-29-40	27-32-46	27-32-46	29-35-51	29-35-51	30-37-54	30-37-54	33-40-58	33-40-58	35-45-61	35-45-61
	3A1	CFM/SIDE	366	169	487	225	609	281	731	337	853	394	975	450	1098	506
		THROW, FT.	24-29-40	14-18-24	27-35-48	16-19-27	30-38-54	18-22-30	35-42-58	19-24-33	35-45-62	21-26-35	38-48-67	22-27-38	40-51-70	24-29-40
	3A2	CFM/SIDE	300	300	400	400	500	500	600	600	700	700	800	800	900	900
		THROW, FT.	25-31-43	20-23-32	29-34-50	23-27-40	32-40-58	27-31-43	34-41-61	29-32-47	40-45-65	31-34-50	40-47-70	32-40-54	43-52-74	34-40-58
	2A 2B	CFM/SIDE	450		600		750		900		1050		1200		1350	
		THROW, FT.	24-29-40		27-35-48		30-38-54		35-42-58		35-45-62		38-48-67		40-51-70	
	2C 2D 2E 2F	CFM/SIDE	562	338	750	450	938	562	1125	675	1313	787	1500	900	1688	1012
		THROW, FT.	26-30-45	21-26-35	29-35-51	24-29-40	32-40-58	27-32-46	35-45-62	29-35-51	37-48-67	30-37-54	40-51-70	33-40-58	45-54-75	35-45-61
	1A 1B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	30-38-53		35-45-61		40-51-69		45-54-74		48-58-80		51-62-85		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 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	
	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	1125 15		1500 23		1875 29		2250 34		2625 38		3000 42		3375 45	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 18 3.75 SQ. FT.	4B 4C	CFM/SIDE	394	169	525	225	657	281	788	337	918	394	1050	450	1181	506
		THROW, FT.	24-29-40	14-18-24	27-35-48	16-19-27	30-38-54	18-22-30	35-42-58	19-24-35	35-45-62	21-26-35	38-48-67	22-27-38	40-51-70	24-29-40
	4E	CFM/SIDE	281	281	375	375	469	469	563	563	657	657	750	750	845	845
		THROW, FT.	22-27-38	22-27-38	26-30-45	26-30-45	29-35-51	29-35-51	30-37-54	30-37-54	32-40-58	32-40-58	35-42-62	35-42-62	38-46-66	38-46-66
	3A1	CFM/SIDE	478	169	637	225	797	281	956	337	1115	394	1275	450	1434	506
		THROW, FT.	26-30-45	14-18-24	29-35-51	16-19-27	32-40-58	18-22-30	35-45-62	19-24-35	37-48-67	21-26-35	40-51-70	22-27-38	45-54-75	24-29-40
	3A2	CFM/SIDE	469	327	625	437	782	546	937	656	1093	766	1250	875	1406	984
		THROW, FT.	22-27-38	19-24-32	26-30-45	22-27-37	29-35-51	26-30-42	30-37-54	27-35-46	32-40-58	29-35-50	35-42-62	30-38-53	38-46-66	35-40-56
	2A 2B	CFM/SIDE	562		750		937		1125		1312		1500		1687	
		THROW, FT.	26-30-45		29-35-51		32-40-58		35-45-62		37-48-67		40-51-70		45-54-75	
	2C 2D 2E 2F	CFM/SIDE	787	337	1050	450	1313	562	1575	675	1838	787	2100	900	2363	1012
		THROW, FT.	29-35-51	21-26-35	35-40-58	24-29-40	38-46-66	27-32-46	42-51-70	29-35-51	45-54-75	30-37-54	48-58-80	33-40-58	51-61-85	35-45-61
	1A 1B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	32-40-56		37-46-62		42-53-72		46-56-78		50-61-83		53-64-91		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 18 4.5 SQ. FT.	4B 4C	CFM/SIDE	506	169	675	225	844	281	1013	337	1181	394	1350	450	1519	506
		THROW, FT.	26-30-45	14-18-24	29-35-51	16-19-27	33-40-58	18-22-30	35-45-62	19-24-35	37-48-67	21-26-35	40-51-70	22-27-38	45-54-75	24-29-40
	4E	CFM/SIDE	339	339	452	452	565	565	678	678	791	791	904	904	1020	1020
		THROW, FT.	22-27-38	22-27-38	26-30-45	26-30-45	29-35-51	29-35-51	30-37-54	30-37-54	33-40-58	33-40-58	35-42-62	35-42-62	38-46-66	38-46-66
	3A1	CFM/SIDE	591	169	787	225	984	281	1181	337	1378	394	1575	450	1772	506
		THROW, FT.	27-35-48	14-18-24	32-38-54	16-19-27	37-45-62	18-22-30	38-48-66	19-24-35	42-51-70	21-26-35	46-56-75	22-27-38	50-59-80	24-29-40
	3B	CFM/SIDE	675	337	900	450	1125	562	1350	675	1575	787	1800	900	2025	1012
		THROW, FT.	27-35-48	21-26-35	32-38-54	24-29-40	37-45-62	27-32-46	38-48-66	29-35-51	42-51-70	30-37-54	46-56-75	33-40-58	50-59-80	35-45-61
	2A 2B	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	27-35-48		32-38-54		37-45-62		38-48-66		42-51-70		46-56-75		50-59-80	
	2C 2D 2E 2F	CFM/SIDE	1010	337	1350	450	1688	562	2025	675	2363	787	2700	900	3038	1012
		THROW, FT.	32-40-56	21-26-35	37-46-64	24-29-40	42-53-72	27-32-46	46-56-78	29-35-51	50-61-83	30-37-54	53-64-91	33-40-58	56-69-96	35-45-61
	1A 1B	CFM/SIDE	1350		1800		2250		2700		3150		3600		4050	
		THROW, FT.	35-40-59		38-48-67		45-54-77		48-58-82		51-62-90		54-67-93		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 21 3.5 SQ. FT.	4B 4C	CFM/SIDE	295	230	394	306	493	382	590	460	690	535	788	612	887	688
		THROW, FT.	20-25-34	17-20-29	24-29-39	19-24-32	27-32-44	20-27-37	29-37-49	22-29-39	31-37-53	24-31-42	32-41-56	25-32-44	37-42-59	27-37-49
	3A1	CFM/SIDE	410	230	547	306	684	382	820	460	957	535	1094	612	1231	688
		THROW, FT.	25-31-42	17-20-29	29-37-51	19-24-32	32-41-58	20-27-37	37-44-61	22-29-39	37-48-66	24-31-42	41-51-71	25-32-44	42-54-75	27-37-49
	3A2	CFM/SIDE	375	300	500	400	625	500	750	600	875	700	1000	800	1125	900
		THROW, FT.	25-31-42	19-22-31	29-37-51	22-25-37	32-41-58	25-29-41	37-44-61	27-31-44	37-48-66	29-32-48	41-51-71	31-37-51	42-54-75	32-37-54
	2A 2B	CFM/SIDE	525		700		875		1050		1225		1400		1575	
		THROW, FT.	27-32-48		31-37-54		34-42-61		37-48-66		39-51-71		42-54-75		48-58-80	
	2C 2D 2E 2F	CFM/SIDE	591	459	788	612	986	764	1180	920	1380	1070	1576	1224	1774	1376
		THROW, FT.	29-37-51	24-29-41	34-41-58	27-32-48	39-48-66	31-37-54	41-51-70	32-39-58	44-54-75	37-42-61	49-59-80	37-44-66	53-63-85	41-49-70
	1A 1B	CFM/SIDE	1050		1400		1750		2100		2450		2800		3150	
		THROW, FT.	34-42-59		39-49-68		44-56-76		49-59-83		53-65-88		56-68-87		59-73-102	

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

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	
	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	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
		THROW, FT.	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	450	450	600	600	750	750	900	900	1050	1050	1200	1200	1350	1350
		THROW, FT.	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	750	300	1000	400	1250	500	1500	600	1750	700	2000	800	2250	900
		THROW, FT.	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	676	562	900	750	1125	937	1350	1125	1575	1312	1800	1500	2025	1687
		THROW, FT.	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 2B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	32-41-56		37-48-65		42-54-73		48-58-78		51-61-85		54-66-90		58-70-97	
	2C 2D 2E 2F	CFM/SIDE	1200	600	1600	800	2000	1000	2400	1200	2800	1400	3200	1600	3600	1800
		THROW, FT.	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 1B	CFM/SIDE	1800		2400		3000		3600		4200		4800		5400	
		THROW, FT.	41-51-70		48-58-80		54-66-90		58-70-99		61-75-105		66-80-114		70-85-122	
	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
36 x 30 7.5 SQ. FT.	4B 4C	CFM/SIDE	657	468	875	625	1093	782	1313	937	1532	1093	1750	1250	1969	1406
		THROW, FT.	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	890	468	1187	625	1484	782	1781	937	2078	1093	2375	1250	2672	1406
		THROW, FT.	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	787	675	1050	900	1312	1125	1575	1350	1837	1575	2100	1800	2362	2025
		THROW, FT.	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 2B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	34-42-59		39-49-68		44-56-76		49-59-83		53-65-88		56-68-97		59-73-102	
	2C 2D 2E 2F	CFM/SIDE	1312	938	1750	1250	2188	1562	2625	1875	3063	2187	3500	2500	3938	2812
		THROW, FT.	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 1B	CFM/SIDE	2250		3000		3750		4500		5250		6000		6750	
		THROW, FT.	48-60-82		56-68-94		64-78-106		68-82-116		72-88-124		78-94-134		82-100-144	

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.

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:

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 6500**. Apply the following corrections for aluminum construction – **Model 6200**.
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 adjustable models - see next page.
5. Correction factors for round inlets - see next page.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

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	
	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
6 x 6 .25 SQ. FT.	4A	CFM/SIDE	19		25		31		37		44		50		56	
		THROW, FT.	4-5-8		4-6-10		6-8-10		6-8-11		8-9-12		8-9-12		9-10-13	
	3A	CFM/SIDE	19	28	25	38	31	47	37	56	44	66	50	75	56	85
		THROW, FT.	4-5-8	5-8-11	4-6-10	6-9-12	6-8-10	8-10-14	6-8-11	8-11-15	8-9-12	9-12-16	8-9-12	9-12-17	9-10-13	10-13-18
	2S 2G	CFM/SIDE	37		50		62		75		88		100		113	
		THROW, FT.	8-9-12		9-10-14		10-11-16		11-12-17		12-13-18		12-13-19		12-14-20	
	1S	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	9-11-15		10-12-17		11-14-19		12-15-22		13-16-22		14-17-24		15-18-25	
	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
9 x 9 .56 SQ. FT.	4A	CFM/SIDE	42		56		70		84		98		112		126	
		THROW, FT.	6-8-12		7-10-14		10-11-15		10-12-16		11-12-17		11-14-19		12-15-20	
	3A	CFM/SIDE	42	63	56	85	70	106	84	127	98	148	112	169	126	190
		THROW, FT.	6-8-12	9-11-14	7-10-14	10-12-17	10-11-15	11-13-19	10-12-16	12-14-20	11-12-17	13-15-21	11-14-19	13-16-22	12-15-20	14-18-24
	2S 2G	CFM/SIDE	84		112		141		169		197		225		253	
		THROW, FT.	9-10-15		11-13-18		12-15-20		13-16-22		14-17-23		15-18-25		16-19-28	
	1S	CFM/SIDE	169		225		282		338		394		450		507	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		22-25-35	
	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
12 x 12 1.0 SQ. FT.	4A	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	8-13-15		11-14-18		13-15-21		14-17-22		14-18-24		15-20-25		17-21-27	
	3A	CFM/SIDE	75	112	100	150	125	187	150	225	175	262	200	300	225	338
		THROW, FT.	8-13-15	11-14-19	11-14-18	12-15-21	13-15-21	14-17-24	14-17-22	15-19-26	14-18-24	16-20-27	15-20-25	17-21-30	17-21-27	19-22-31
	2S 2G	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	12-15-20		15-17-25		17-19-27		18-20-29		19-21-31		20-25-34		21-25-36	
	1S	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	16-20-28		18-22-32		21-25-37		22-26-39		23-28-41		25-29-41		28-33-47	
	RETURN FACTORS —SP=1.8 TP NC + 4	CFM NC	465 10		625 19		780 25		935 30		1090 33		1250 39		1400 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 15 1.56 SQ. FT.	4A	CFM/SIDE	117		156		195		234		273		312		350	
		THROW, FT.	13-16-21		14-18-24		16-19-27		18-21-29		19-22-30		20-24-33		21-26-35	
	3A	CFM/SIDE	117	175	156	234	195	292	234	351	273	409	312	468	350	527
		THROW, FT.	13-16-21	14-17-23	14-18-24	17-19-29	16-19-27	19-22-31	18-21-29	21-23-34	19-22-30	22-25-36	19-24-35	22-29-39	21-26-35	25-29-42
	2S 2G	CFM/SIDE	234		312		390		468		546		625		700	
		THROW, FT.	16-20-27		19-22-31		21-25-36		22-27-40		24-29-42		27-31-45		27-35-47	
	1S	CFM/SIDE	467		625		780		935		1090		1250		1400	
		THROW, FT.	21-25-36		23-29-42		26-32-47		29-36-51		30-39-55		32-42-57		36-44-61	
	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
18 x 18 2.25 SQ. FT.	4A	CFM/SIDE	168		225		281		337		394		450		506	
		THROW, FT.	15-19-25		17-20-29		19-24-32		20-25-36		22-27-37		24-29-41		25-31-43	
	3A	CFM/SIDE	168	253	225	338	281	422	337	506	394	590	450	675	506	760
		THROW, FT.	15-19-25	17-22-29	17-20-29	20-25-33	19-24-32	23-27-38	20-25-36	25-32-42	22-27-37	26-32-45	24-29-41	27-35-48	25-31-43	32-36-51
	2S 2G	CFM/SIDE	337		450		562		675		787		900		1012	
		THROW, FT.	19-23-32		22-26-38		24-30-43		26-31-46		30-34-49		30-35-53		32-39-55	
	1S	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	25-33-45		30-36-51		34-42-58		36-45-61		39-48-66		43-52-70		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	
	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
21 x 21 3.06 SQ. FT.	4A	CFM/SIDE	230		306		382		460		535		612		688	
		THROW, FT.	18-21-30		19-25-34		21-28-39		23-30-41		25-32-44		26-34-46		28-39-51	
	3A	CFM/SIDE	230	345	306	460	382	573	460	688	535	802	612	918	688	1030
		THROW, FT.	15-19-26	20-25-34	17-22-29	23-28-39	19-25-34	26-31-45	20-26-36	28-34-50	22-28-39	29-36-53	23-29-40	34-39-56	25-34-45	34-43-59
	2S 2G	CFM/SIDE	458		612		765		917		1070		1225		1375	
		THROW, FT.	22-27-39		25-31-45		28-35-50		31-39-55		32-42-59		35-45-62		39-48-66	
	1S	CFM/SIDE	917		1225		1530		1835		2140		2450		2750	
		THROW, FT.	29-37-51		34-43-59		39-50-67		43-53-71		46-56-77		50-60-82		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
24 x 24 4.0 SQ. FT.	4A	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	20-24-33		24-27-40		27-31-44		29-33-47		31-35-51		33-40-55		35-40-58	
	3A	CFM/SIDE	300	450	400	600	500	750	600	900	700	1050	800	1200	900	1350
		THROW, FT.	20-24-33	23-28-39	24-27-40	26-31-46	27-31-44	29-36-52	29-33-47	31-38-56	31-33-51	36-41-59	33-40-55	36-43-64	35-40-58	39-47-67
	2S 2G	CFM/SIDE	600		800		1000		1200		1400		1600		1800	
		THROW, FT.	25-33-45		30-36-51		34-42-58		36-45-61		39-48-66		43-52-70		46-55-75	
	1S	CFM/SIDE	1200		1600		2000		2400		2800		3200		3600	
		THROW, FT.	35-40-59		38-48-67		45-54-77		48-58-82		51-62-90		54-67-93		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
30 x 30 6.25 SQ. FT.	4A	CFM/SIDE	469		625		782		937		1093		1250		1406	
		THROW, FT.	25-31-42		29-36-48		34-40-55		36-44-61		38-46-65		40-50-69		46-52-73	
	3A	CFM/SIDE	469	703	625	938	782	1172	937	1405	1093	1640	1250	1875	1406	2110
		THROW, FT.	25-31-42	28-34-49	29-36-48	32-39-57	34-40-55	35-44-64	36-44-61	39-49-69	38-46-65	41-49-74	40-50-69	44-57-78	46-52-73	49-60-83
	2S 2G	CFM/SIDE	937		1250		1562		1875		2187		2500		2812	
		THROW, FT.	32-40-55		37-47-63		42-53-72		47-57-77		50-60-83		53-65-88		57-68-95	
	1S	CFM/SIDE	1875		2500		3125		3750		4375		5000		5625	
		THROW, FT.	42-53-72		49-60-83		56-69-93		60-72-102		63-77-109		69-83-116		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	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	30-37-51		34-41-57		39-46-67		41-51-74		44-53-78		51-57-83		51-64-87	
	3A	CFM/SIDE	675	1010	900	1350	1125	1687	1350	2025	1575	2362	1800	2700	2025	3038
		THROW, FT.	30-37-51	34-44-60	34-41-57	40-48-68	39-46-67	46-56-78	41-51-74	48-60-82	44-53-78	52-64-88	51-57-83	58-70-94	51-64-87	62-74-100
	2S 2G	CFM/SIDE	1350		1800		2250		2700		3150		3600		4050	
		THROW, FT.	40-45-67		43-54-76		50-61-86		54-65-92		58-70-101		61-76-104		67-79-113	
	1S	CFM/SIDE	2700		3600		4500		5400		6300		7200		8100	
		THROW, FT.	49-61-85		59-70-99		66-80-114		72-85-122		76-91-131		82-97-142		87-106-150	

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	
	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	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
		THROW, FT.	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	450	450	600	600	750	750	900	900	1050	1050	1200	1200	1350	1350
		THROW, FT.	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	750	300	1000	400	1250	500	1500	600	1750	700	2000	800	2250	900
		THROW, FT.	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	676	562	900	750	1125	937	1350	1125	1575	1312	1800	1500	2025	1687
		THROW, FT.	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 2B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	32-41-56		37-48-65		42-54-73		48-58-78		51-61-85		54-66-90		58-70-97	
	2C 2D 2E 2F	CFM/SIDE	1200	600	1600	800	2000	1000	2400	1200	2800	1400	3200	1600	3600	1800
		THROW, FT.	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 1B	CFM/SIDE	1800		2400		3000		3600		4200		4800		5400	
		THROW, FT.	41-51-70		48-58-80		54-66-90		58-70-99		61-75-105		66-80-114		70-85-122	
	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
36 x 30 7.5 SQ. FT.	4B 4C	CFM/SIDE	657	468	875	625	1093	782	1313	937	1532	1093	1750	1250	1969	1406
		THROW, FT.	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	890	468	1187	625	1484	782	1781	937	2078	1093	2375	1250	2672	1406
		THROW, FT.	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	787	675	1050	900	1312	1125	1575	1350	1837	1575	2100	1800	2362	2025
		THROW, FT.	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 2B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	34-42-59		39-49-68		44-56-76		49-59-83		53-65-88		56-68-97		59-73-102	
	2C 2D 2E 2F	CFM/SIDE	1312	938	1750	1250	2188	1562	2625	1875	3063	2187	3500	2500	3938	2812
		THROW, FT.	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 1B	CFM/SIDE	2250		3000		3750		4500		5250		6000		6750	
		THROW, FT.	48-60-82		56-68-94		64-78-106		68-82-116		72-88-124		78-94-134		82-100-144	

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.

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:

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 6500**. Apply the following corrections for aluminum construction – **Model 6200**.
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 adjustable models - see next page.
5. Correction factors for round inlets - see next page.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

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 – 2006.

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

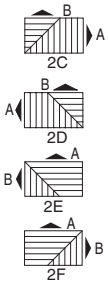
Nominal Neck Size	Neck Velocity, FPM	100	200	300	400	500	600	700
	Velocity Pressure	.001	.002	.006	.010	.016	.022	.031
	Total Pressure	.003	.012	.026	.046	.072	.103	.140
9 x 6	Airflow, CFM	38	75	113	150	188	225	263
	Throw, Side A	2-2-3 (16)	3-3-6 (31)	3-5-8 (47)	4-6-10 (62)	5-7-13 (78)	6-8-15 (93)	7-9-18 (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.

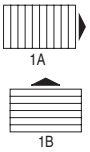
PERFORMANCE DATA:

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 – 2006.

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 – 2006.

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.

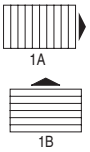
PERFORMANCE DATA:

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 – 2006.

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 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=1.2 TP NC + 0	CFM NC	110 —		150 14		185 20		225 25		260 29		300 33		335 37	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
9 x 6 .375 SQ. FT.	4B	CFM/SIDE	37	18	50	25	62	31	75	37	87	44	100	50	112	56
		THROW, FT.	6-9-11	4-5-8	8-10-13	5-6-9	9-11-15	6-8-10	10-12-16	6-8-11	10-13-17	8-9-12	11-14-18	8-9-12	12-15-19	9-10-13
	3A1	CFM/SIDE	47	18	62	25	78	31	94	37	109	44	125	50	140	56
		THROW, FT.	8-9-12	4-5-8	9-10-14	5-6-9	10-11-16	6-8-10	11-12-17	6-8-11	12-13-18	8-9-12	12-14-19	8-9-12	13-15-22	9-10-13
	3A2	CFM/SIDE	42	35	55	47	70	58	84	70	98	82	112	94	126	105
		THROW, FT.	6-9-11	5-6-10	8-10-13	6-8-11	9-11-15	8-9-12	10-12-16	8-10-13	10-13-17	9-10-14	11-14-18	9-11-15	12-15-19	10-12-16
	2A 2B	CFM/SIDE	56		75		93		112		131		150		168	
		THROW, FT.	9-11-14		10-12-16		11-14-18		12-15-19		13-16-22		14-17-22		15-18-24	
	2C 2E / 2D 2F	CFM/SIDE	75	37	100	50	125	62	150	75	175	87	200	100	225	112
		THROW, FT.	9-11-15	6-9-11	10-12-17	8-10-13	11-14-19	9-11-15	12-15-22	10-12-16	13-16-22	10-13-19	14-17-24	11-14-18	15-18-25	12-15-19
	1A 1B	CFM/SIDE	112		150		187		225		262		300		337	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	RETURN FACTORS —SP=1.6 TP NC + 1	CFM NC	150 —		200 14		250 20		300 26		350 31		400 35		450 39	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
12 x 6 .50 SQ. FT.	4B / 4C	CFM/SIDE	56	18	75	25	94	31	113	37	131	44	150	50	169	56
		THROW, FT.	9-11-14	4-5-8	10-12-16	5-6-9	11-14-18	6-8-10	12-15-19	6-8-11	13-16-22	8-9-12	14-17-22	8-9-12	15-18-24	9-10-13
	3A1	CFM/SIDE	66	18	87	25	109	31	131	37	153	44	175	50	197	56
		THROW, FT.	9-11-15	4-5-8	10-12-17	5-6-9	11-14-19	6-8-10	12-15-22	6-8-11	13-16-22	8-9-12	14-17-24	8-9-12	15-18-25	9-10-13
	3B	CFM/SIDE	75	37	100	50	126	62	150	75	176	87	200	100	226	112
		THROW, FT.	6-9-11	6-9-11	8-10-13	8-10-13	9-11-15	9-11-15	10-12-16	10-12-16	10-13-17	10-13-17	11-14-18	11-14-18	12-15-19	12-15-19
	2A 2B	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	9-11-15		10-12-17		11-14-19		12-15-22		13-16-22		14-17-24		15-18-25	
	2C 2E / 2D 2F	CFM/SIDE	112	37	150	50	188	62	225	75	263	87	300	100	338	112
		THROW, FT.	11-13-18	6-9-11	13-15-22	8-10-13	15-17-24	9-11-15	16-18-26	10-12-16	17-19-28	10-13-17	18-22-30	11-14-18	19-22-32	12-15-19
	1A 1B	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	RETURN FACTORS —SP=1.9 TP NC + 1	CFM NC	190 —		250 15		310 21		375 27		440 32		500 36		565 40	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 6 .625 SQ. FT.	4B / 4C	CFM/SIDE	75	18	100	25	125	31	150	37	175	44	200	50	225	56
		THROW, FT.	9-11-15	4-5-8	10-12-17	5-6-9	11-14-19	6-8-10	12-15-22	6-8-11	13-16-22	8-9-12	14-17-24	8-9-12	15-18-25	9-10-13
	4E	CFM/SIDE	56	37	75	50	94	62	113	75	131	87	150	100	169	112
		THROW, FT.	9-11-14	8-9-12	10-12-16	9-10-14	11-14-18	10-11-16	12-15-19	11-12-17	13-16-22	12-13-18	14-17-22	12-14-19	15-18-24	13-15-22
	3A1	CFM/SIDE	84	18	112	25	140	31	169	37	197	44	225	50	253	56
		THROW, FT.	10-11-16	4-5-8	11-13-18	5-6-9	12-15-20	6-8-10	13-16-22	6-8-11	14-17-23	8-9-12	15-18-25	8-9-12	16-19-28	9-10-13
	2A 2B	CFM/SIDE	94		125		156		187		219		250		281	
		THROW, FT.	10-12-17		11-14-19		12-16-22		13-17-23		14-18-25		15-19-26		16-22-29	
	2C 2E / 2D 2F	CFM/SIDE	150	37	200	50	250	62	300	75	350	87	400	100	450	112
		THROW, FT.	11-13-18	6-9-11	13-15-22	8-10-13	15-17-24	9-11-15	16-18-26	10-12-16	17-19-28	10-13-17	18-22-30	11-14-18	19-22-32	12-15-19
	1A 1B	CFM/SIDE	188		250		312		375		438		500		563	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		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	
	RETURN FACTORS —SP=2.6 TP NC + 2	CFM NC	225 —		300 16		375 22		450 28		525 33		600 37		675 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 6 .75 SQ. FT.	4B 4C	CFM/SIDE	94	18	125	25	156	31	188	37	218	44	250	50	281	56
		THROW, FT.	10-12-17	4-5-8	11-14-19	5-6-9	12-16-21	6-8-10	13-17-23	6-8-11	14-18-25	8-9-12	15-19-26	8-9-12	16-22-29	9-10-13
	4E	CFM/SIDE	56	56	75	75	94	94	113	113	131	131	150	150	169	169
		THROW, FT.	9-11-14	9-11-14	10-12-16	10-12-16	11-14-18	11-14-18	12-15-19	12-15-19	13-16-22	13-16-22	14-17-22	14-17-22	15-18-24	15-18-24
	3A1	CFM/SIDE	103	18	137	25	172	31	206	37	240	44	275	50	309	56
		THROW, FT.	10-12-17	4-5-8	11-14-19	5-6-9	12-16-21	6-8-10	13-17-23	6-8-11	14-18-25	8-9-12	15-19-26	8-9-12	16-22-29	9-10-1
	2A 2B	CFM/SIDE	112		150		187		225		262		300		337	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	2C 2D 2E 2F	CFM/SIDE	187	37	250	50	313	62	375	75	438	87	500	100	563	112
		THROW, FT.	12-15-20	6-9-11	14-17-23	8-10-13	16-19-26	9-11-15	17-22-29	10-12-16	18-22-31	10-13-17	19-24-33	11-14-18	22-25-35	12-15-19
	1A 1B	CFM/SIDE	225		300		375		450		525		600		675	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		20-25-36		21-27-37	
	RETURN FACTORS —SP=3.2 TP NC + 3	CFM NC	260 —		350 16		435 22		525 29		610 33		700 38		785 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 6 .875 SQ. FT.	4B 4C	CFM/SIDE	112	18	150	25	187	31	225	37	262	44	300	50	337	56
		THROW, FT.	11-13-18	4-5-8	13-15-22	5-6-9	15-17-24	6-8-10	16-18-26	6-8-11	17-19-28	8-9-12	18-22-30	8-9-12	19-22-32	9-10-13
	4E	CFM/SIDE	75	56	100	75	125	94	150	113	175	131	200	150	225	169
		THROW, FT.	9-11-15	9-11-14	10-12-17	10-12-16	11-14-19	11-14-18	12-15-22	12-15-19	13-16-22	13-16-22	14-17-24	14-17-22	15-18-25	15-18-24
	3A1	CFM/SIDE	122	18	162	25	203	31	244	37	284	44	325	50	365	56
		THROW, FT.	11-13-18	4-5-8	13-15-22	5-6-9	15-17-24	6-8-10	16-18-26	6-8-11	17-19-28	8-9-12	18-22-30	8-9-12	19-22-32	9-10-13
	2A 2B	CFM/SIDE	131		175		218		262		306		350		393	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	2C 2D 2E 2F	CFM/SIDE	225	37	300	50	375	62	450	75	525	87	600	100	675	112
		THROW, FT.	13-16-22	6-9-11	15-18-25	8-10-13	17-20-29	9-11-15	18-22-32	10-12-16	19-23-34	10-13-17	22-25-36	11-14-18	22-28-38	12-15-19
	1A 1B	CFM/SIDE	262		350		437		525		612		700		787	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		22-25-36		22-28-38	
	RETURN FACTORS —SP=3.9 TP NC + 4	CFM NC	300 —		400 16		500 23		600 30		700 34		800 39		900 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 6 1.0 SQ. FT.	4B 4C	CFM/SIDE	131	18	175	25	219	31	263	37	306	44	350	50	394	56
		THROW, FT.	11-13-18	4-5-8	13-15-22	5-6-9	15-17-24	6-8-10	16-18-26	6-8-11	17-19-28	8-9-12	18-22-30	8-9-12	19-22-32	9-10-13
	4E	CFM/SIDE	75	75	100	100	125	125	150	150	175	175	200	200	225	225
		THROW, FT.	9-11-15	9-11-15	10-12-17	10-12-17	11-14-19	11-14-19	12-15-22	12-15-22	13-16-22	13-16-22	14-17-24	14-17-24	15-18-25	15-18-25
	3A1	CFM/SIDE	141	18	187	25	234	31	281	37	328	44	375	50	422	56
		THROW, FT.	11-13-18	4-5-8	13-15-22	5-6-9	15-17-24	6-8-10	16-18-26	6-8-11	17-19-28	8-9-12	18-22-30	8-9-12	19-22-32	9-10-13
	2A 2B	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	2C 2D 2E 2F	CFM/SIDE	260	37	350	50	438	62	525	75	613	87	700	100	788	112
		THROW, FT.	13-16-22	6-9-11	15-18-25	8-10-13	17-20-29	9-11-15	18-22-32	10-12-16	19-23-34	10-13-17	22-25-36	11-14-18	22-28-38	12-15-19
	1A 1B	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		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.

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

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=2.1 TP NC + 3	CFM NC	335 —		450 19		560 25		675 30		790 35		900 38		1010 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 9 1.125 SQ. FT.	4B / 4C	CFM/SIDE	126	42	169	56	211	70	254	84	296	98	338	112	380	126
		THROW, FT.	11-13-18	5-6-10	13-15-22	6-8-11	15-17-24	8-9-12	16-18-26	8-10-13	17-19-28	9-10-14	18-22-30	9-11-15	19-22-32	10-12-16
	4E	CFM/SIDE	99	70	132	94	164	117	197	141	230	164	263	188	296	211
		THROW, FT.	10-12-17	9-11-15	11-14-19	10-12-17	12-16-22	11-14-19	13-17-23	12-15-22	14-18-25	13-16-22	15-19-26	14-17-24	16-22-29	15-18-25
	3A1	CFM/SIDE	147	42	197	56	246	70	295	84	345	98	394	112	443	126
		THROW, FT.	11-13-18	5-6-10	13-15-22	6-8-11	15-17-24	8-9-12	16-18-26	8-10-13	17-19-28	9-10-14	18-22-30	9-11-15	19-22-32	10-12-16
	3B	CFM/SIDE	168	84	225	112	281	141	337	169	394	197	450	225	506	253
		THROW, FT.	9-11-15	9-11-14	10-12-17	10-12-16	11-14-19	11-14-18	12-15-22	12-15-19	13-16-22	13-16-22	14-17-24	14-17-22	15-18-25	15-18-24
	2A 2B	CFM/SIDE	163		225		281		337		394		450		506	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		22-25-35	
	2C 2E / 2D 2F	CFM/SIDE	253	84	338	112	421	141	506	169	591	197	675	225	759	253
		THROW, FT.	13-16-22	9-11-14	15-18-25	10-12-16	17-20-29	11-14-18	18-22-32	12-15-19	19-23-34	13-16-22	22-25-36	14-17-22	22-28-38	15-18-24
	1A 1B	CFM/SIDE	337		450		562		675		788		900		1012	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	RETURN FACTORS —SP=2.5 TP NC + 4	CFM NC	395 —		525 19		655 25		785 31		915 36		1050 38		1180 42	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 9 1.125 SQ. FT.	4B / 4C	CFM/SIDE	154	42	206	56	258	70	309	84	360	98	413	112	464	126
		THROW, FT.	12-15-20	5-6-10	14-17-23	6-8-11	16-19-26	8-9-12	17-22-29	8-10-13	18-22-31	9-10-14	19-24-33	9-11-15	22-25-35	10-12-16
	4E	CFM/SIDE	98	98	131	131	163	163	196	196	229	229	261	261	294	294
		THROW, FT.	10-12-17	10-12-17	11-14-19	11-14-19	12-16-22	12-16-22	13-17-23	13-17-23	14-18-25	14-18-25	15-19-26	15-19-26	16-22-29	16-22-29
	3A1	CFM/SIDE	175	42	234	56	292	70	351	84	410	98	468	112	527	126
		THROW, FT.	12-15-20	5-6-10	14-17-23	6-8-11	16-19-26	8-9-12	17-22-29	8-10-13	18-22-31	9-10-14	19-24-33	9-11-15	22-25-35	10-12-16
	2A 2B	CFM/SIDE	196		262		327		393		458		525		590	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		22-25-35	
	2C 2E / 2D 2F	CFM/SIDE	308	84	412	112	514	141	617	169	720	197	825	225	927	253
		THROW, FT.	14-17-24	9-11-14	16-19-28	10-12-16	18-22-32	11-14-18	19-23-34	12-15-19	22-25-36	13-16-22	22-26-39	14-17-22	24-29-41	15-18-24
	1A / 1A 1B	CFM/SIDE	393		524		655		786		917		1050		1180	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	
	RETURN FACTORS —SP=2.9 TP NC + 4	CFM NC	450 —		600 19		750 25		900 31		1050 36		1200 38		1350 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 9 1.5 SQ. FT.	4B / 4C	CFM/SIDE	183	42	244	56	305	70	366	84	427	98	488	112	549	126
		THROW, FT.	12-15-20	5-6-10	14-17-23	6-8-11	16-19-26	8-9-12	17-22-29	8-10-13	18-22-31	9-10-14	19-24-33	9-11-15	22-25-35	10-12-16
	4E	CFM/SIDE	126	99	169	132	211	164	253	197	295	230	337	263	379	296
		THROW, FT.	11-13-18	10-12-17	13-15-22	11-14-19	15-17-24	12-16-22	16-18-26	13-17-23	17-19-28	14-18-25	18-22-30	15-19-26	19-22-32	16-22-29
	3A1	CFM/SIDE	204	42	272	56	340	70	408	84	476	98	544	112	612	126
		THROW, FT.	12-15-20	5-6-10	14-17-23	6-8-11	16-19-26	8-9-12	17-22-29	8-10-13	18-22-31	9-10-14	19-24-33	9-11-15	22-25-35	10-12-16
	2A 2B	CFM/SIDE	225		300		375		450		525		600		675	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		22-25-36		22-28-38	
	2C 2E / 2D 2F	CFM/SIDE	365	84	488	112	609	141	731	169	853	197	975	225	1097	253
		THROW, FT.	15-18-25	9-11-14	17-22-30	10-12-16	19-24-34	11-14-18	22-26-36	12-15-19	22-28-39	13-16-22	24-30-42	14-17-22	25-32-44	15-18-24
	1A / 1A 1B	CFM/SIDE	450		600		750		900		1050		1200		1350	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	

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	
	RETURN FACTORS —SP=3.9 TP NC + 5	CFM NC	560 —		750 20		935 26		1125 32		1310 37		1500 39		1685 44	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 9 1.875 SQ. FT.	4B 4C	CFM/SIDE	238	42	319	56	398	70	478	84	557	98	638	112	716	126
		THROW, FT.	13-16-22	5-6-10	15-18-25	6-8-11	17-20-29	8-9-12	18-22-32	8-10-13	19-23-34	9-10-14	22-25-36	9-11-15	22-28-38	10-12-16
	4E	CFM/SIDE	155	126	206	169	258	211	310	253	361	295	413	337	465	379
		THROW, FT.	12-15-20	11-13-18	14-17-23	13-15-22	16-19-26	15-17-24	17-22-29	16-18-26	18-22-30	17-19-28	19-24-33	18-22-30	22-25-35	19-22-32
	3A1	CFM/SIDE	259	42	347	56	433	70	520	84	606	98	694	112	779	126
		THROW, FT.	13-16-22	5-6-10	15-18-25	6-8-11	17-20-29	8-9-12	18-22-32	8-10-13	19-23-34	9-10-14	22-25-36	9-11-15	22-28-38	10-12-16
	2A 2B	CFM/SIDE	281		375		468		562		655		750		842	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	2C 2D 2E 2F	CFM/SIDE	476	84	638	112	796	141	956	169	1113	197	1275	225	1432	253
		THROW, FT.	16-19-28	9-11-14	18-22-32	10-12-16	20-25-36	11-14-18	22-28-39	12-15-19	23-30-42	13-16-22	25-32-44	14-17-22	28-34-47	15-18-24
	1A 1B	CFM/SIDE	562		750		937		1125		1310		1500		1685	
		THROW, FT.	16-19-28		18-22-32		20-25-36		22-28-39		23-30-42		25-32-44		28-34-47	
	RETURN FACTORS —SP=5.0 TP NC + 6	CFM NC	675 —		900 21		1125 27		1350 33		1575 38		1800 40		2025 44	
				A	B	A	B	A	B	A	B	A	B	A	B	A B
36 x 9 2.25 SQ. FT.	4B 4C	CFM/SIDE	295	42	394	56	492	70	591	84	689	98	788	112	886	126
		THROW, FT.	14-17-24	5-6-10	16-19-28	6-8-11	18-22-32	8-9-12	19-23-34	8-10-13	22-25-36	9-10-14	22-26-39	9-11-15	24-29-41	10-12-16
	4E	CFM/SIDE	183	155	244	206	305	258	366	310	427	361	488	413	549	465
		THROW, FT.	12-15-20	12-15-20	14-17-23	14-17-23	16-19-26	16-19-26	17-22-29	17-22-29	18-22-31	18-22-31	19-24-33	19-24-33	22-25-35	22-25-35
	3A1	CFM/SIDE	316	42	422	56	527	70	633	84	738	98	844	112	949	126
		THROW, FT.	14-17-24	5-6-10	16-19-28	6-8-11	18-22-32	8-9-12	19-23-34	8-10-13	22-25-36	9-10-14	22-26-39	9-11-15	24-29-41	10-12-16
	2A 2B	CFM/SIDE	337		450		562		675		787		900		1012	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	2C 2D 2E 2F	CFM/SIDE	590	84	788	112	984	141	1181	169	1378	197	1575	225	1772	253
		THROW, FT.	17-22-30	9-11-14	20-24-34	10-12-16	23-28-39	11-14-18	24-30-41	12-15-19	26-32-44	13-16-22	29-35-47	14-17-22	31-37-50	15-18-24
	1A 1B	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	17-22-30		20-24-34		23-28-39		24-30-41		26-32-44		29-35-47		31-37-50	
	RETURN FACTORS —SP=1.6 TP NC + 2	CFM NC	375 —		500 19		625 25		750 30		875 34		1000 38		1125 41	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
15 x 12 1.25 SQ. FT.	4B 4C	CFM/SIDE	112	75	150	100	187	125	225	150	262	175	300	200	337	225
		THROW, FT.	9-11-15	6-9-11	10-12-17	8-10-13	11-14-19	9-11-15	12-15-22	10-12-16	13-16-22	10-13-17	14-17-24	11-14-18	15-18-25	12-15-19
	3A1	CFM/SIDE	150	75	200	100	250	125	300	150	350	175	400	200	450	225
		THROW, FT.	11-13-18	6-9-11	13-15-22	8-10-13	15-17-24	9-11-15	16-18-26	10-12-16	17-19-28	10-13-17	18-22-30	11-14-18	19-22-32	12-15-19
	3A2	CFM/SIDE	117	129	156	172	195	215	234	258	273	301	312	344	351	387
		THROW, FT.	8-10-13	10-11-16	9-11-15	11-13-18	10-12-17	12-15-20	11-13-18	13-16-22	12-14-19	14-17-23	12-15-22	15-18-25	13-16-22	16-19-28
	2A 2B	CFM/SIDE	187		250		312		375		437		500		567	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		22-25-35	
	2C 2D 2E 2F	CFM/SIDE	225	150	300	200	375	250	450	300	525	350	600	400	675	450
		THROW, FT.	13-16-22	10-12-17	15-18-25	11-14-19	17-20-29	12-16-22	18-22-32	13-17-23	19-23-34	14-18-25	22-25-36	15-19-26	22-28-38	16-22-29
	1A 1B	CFM/SIDE	375		500		625		750		875		1000		1125	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	

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

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	
	RETURN FACTORS —SP=3.3 TP NC + 6	CFM NC	750 15		1000 23		1250 29		1500 33		1750 37		2000 41		2250 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 12 2.5 SQ. FT.	4B 4C	CFM/SIDE	300	75	400	100	500	125	600	150	700	175	800	200	900	225
		THROW, FT.	14-17-24	6-9-11	16-19-28	8-10-13	18-22-32	9-11-15	19-23-34	10-12-16	21-25-36	10-13-17	22-26-39	11-14-18	24-29-41	12-15-19
	4E	CFM/SIDE	183	183	250	250	313	313	375	375	437	437	500	500	562	562
		THROW, FT.	12-15-20	12-15-20	14-17-23	14-17-23	16-19-26	16-19-26	17-22-29	17-22-29	18-22-31	18-22-31	19-24-33	19-24-33	22-25-35	22-25-35
	3A1	CFM/SIDE	337	75	450	100	562	125	675	150	787	175	900	200	1012	225
		THROW, FT.	14-17-24	6-9-11	16-19-28	8-10-13	18-22-32	9-11-15	19-23-34	10-12-16	21-25-36	10-13-17	22-26-39	11-14-18	24-29-41	12-15-19
	2A 2B	CFM/SIDE	375		500		625		750		875		1000		1125	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	
	2C 2D 2E 2F	CFM/SIDE	600	150	800	200	1000	250	1200	300	1400	350	1600	400	1800	450
		THROW, FT.	17-22-30	10-12-17	20-24-34	11-14-19	23-28-39	12-16-22	24-30-41	13-17-23	26-32-44	14-18-25	29-35-47	15-19-26	31-37-50	16-22-29
	1A 1B	CFM/SIDE	750		1000		1250		1500		1750		2000		2250	
		THROW, FT.	18-22-32		22-25-36		24-29-41		26-32-44		28-34-47		30-36-50		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 12 3.0 SQ. FT.	4B 4C	CFM/SIDE	375	75	500	100	625	125	750	150	875	175	1000	200	1125	225
		THROW, FT.	15-18-25	6-9-11	17-22-30	8-10-13	19-24-34	9-11-15	22-26-36	10-12-16	22-28-39	10-13-17	24-30-42	11-14-18	25-32-44	12-15-19
	4E	CFM/SIDE	225	225	300	300	375	375	450	450	525	525	600	600	675	675
		THROW, FT.	13-16-22	13-16-22	15-18-25	15-18-25	17-20-29	17-20-29	18-22-32	18-22-32	19-23-34	19-23-34	22-25-36	22-25-36	22-28-38	22-28-38
	3A1	CFM/SIDE	412	75	550	100	687	125	825	150	962	175	1100	200	1237	225
		THROW, FT.	15-18-25	6-9-11	17-22-30	8-10-13	19-24-34	9-11-15	22-26-36	10-12-16	22-28-39	10-13-17	24-30-42	11-14-18	25-32-44	12-15-19
	2A 2B	CFM/SIDE	450		600		750		900		1050		1200		1350	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	
	2C 2D 2E 2F	CFM/SIDE	750	150	1000	200	1250	250	1500	300	1750	350	2000	400	2250	450
		THROW, FT.	18-22-32	10-12-17	22-25-36	11-14-19	24-29-41	12-16-22	26-32-44	13-17-23	28-34-47	14-18-25	30-36-50	15-19-26	32-38-53	16-22-29
	1A 1B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		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	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
18 x 15 1.875 SQ. FT.	4B 4C	CFM/SIDE	164	117	219	156	273	195	328	234	383	273	438	312	492	351
		THROW, FT.	10-12-17	8-10-13	11-14-19	9-11-15	12-16-22	10-12-17	13-17-23	11-13-18	14-18-25	12-14-19	15-19-26	12-15-22	16-22-29	13-16-22
	3A1	CFM/SIDE	222	117	297	156	371	195	445	234	519	273	594	312	668	351
		THROW, FT.	13-16-22	8-10-13	15-18-25	9-11-15	17-20-29	10-12-17	18-22-32	11-13-18	19-23-34	12-14-19	22-25-36	12-15-22	22-28-38	13-16-22
	3A2	CFM/SIDE	168	197	225	262	281	328	337	394	394	459	450	525	506	590
		THROW, FT.	9-11-15	12-15-20	10-12-17	14-17-23	11-14-19	16-19-26	12-15-22	17-22-29	13-16-22	18-22-31	14-17-24	19-24-33	15-18-25	22-25-35
	2A 2B	CFM/SIDE	281		375		468		562		656		750		843	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	2C 2D 2E 2F	CFM/SIDE	329	234	438	312	547	390	657	468	766	546	876	624	985	702
		THROW, FT.	17-22-30	12-15-20	20-24-34	14-17-23	23-28-39	16-19-26	24-30-41	17-22-29	26-32-44	18-22-31	29-35-47	19-24-33	31-37-50	22-25-35
	1A 1B	CFM/SIDE	562		750		937		1125		1312		1500		1687	
		THROW, FT.	16-19-28		18-22-32		20-25-36		22-28-39		23-30-42		25-32-44		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	
	RETURN FACTORS —SP=2.1 TP NC + 5	CFM NC	655 12		875 21		1090 28		1310 33		1530 36		1750 39		1970 43	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
21 x 15 2.185 SQ. FT.	4B 4C	CFM/SIDE	210	117	281	156	361	195	422	234	493	273	563	312	634	351
		THROW, FT.	13-16-22	8-10-13	15-18-25	9-11-15	17-20-29	10-12-17	18-22-32	11-13-18	19-23-34	12-14-19	22-25-36	12-15-22	22-28-38	13-16-22
	4E	CFM/SIDE	164	164	218	218	273	273	327	327	382	382	437	437	491	491
		THROW, FT.	12-15-20	12-15-20	14-17-24	14-17-24	16-19-26	16-19-26	17-22-29	17-22-29	18-22-31	18-22-31	19-24-33	19-24-33	22-25-35	22-25-35
	3A1	CFM/SIDE	269	117	359	156	448	195	539	234	629	273	719	312	809	351
		THROW, FT.	13-16-22	8-10-13	15-18-25	9-11-15	17-20-29	10-12-17	18-22-32	11-13-18	19-23-34	12-14-19	22-25-36	12-15-22	22-28-38	13-16-22
	3A2	CFM/SIDE	230	213	306	284	382	355	460	426	535	498	612	569	688	641
		THROW, FT.	11-13-18	10-12-17	13-15-22	11-14-19	15-17-24	12-16-22	16-18-26	13-17-23	17-19-28	14-18-25	18-22-30	15-19-26	19-22-32	16-22-29
	2A 2B	CFM/SIDE	327		437		596		656		766		875		985	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	2C 2D 2E 2F	CFM/SIDE	422	234	563	312	702	390	844	468	966	546	1126	624	1268	702
		THROW, FT.	15-18-25	12-15-20	17-22-30	14-17-23	19-24-34	16-19-26	22-26-36	17-22-29	22-28-39	18-22-31	24-30-42	19-24-33	25-32-44	22-25-35
	1A 1B	CFM/SIDE	655		875		1092		1312		1532		1750		1970	
		THROW, FT.	17-22-30		20-24-34		23-28-39		24-30-41		26-32-44		29-35-47		31-37-50	
	RETURN FACTORS —SP=2.6 TP NC + 6	CFM NC	750 14		1000 22		1250 29		1500 34		1750 37		2000 39		2250 44	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
24 x 15 2.5 SQ. FT.	4B 4C	CFM/SIDE	258	117	344	156	430	195	516	234	602	273	688	312	774	351
		THROW, FT.	13-16-22	8-10-13	15-18-25	9-11-15	17-20-29	10-12-17	18-22-32	11-13-18	19-23-34	12-14-19	22-25-36	12-15-22	22-28-38	13-16-22
	4E	CFM/SIDE	211	164	281	218	352	273	422	327	492	382	563	437	633	491
		THROW, FT.	13-16-22	12-15-20	15-18-25	14-17-24	17-20-29	16-19-26	18-22-32	17-22-29	19-23-34	18-22-31	22-25-36	19-24-33	22-28-38	22-25-35
	3A1	CFM/SIDE	316	117	422	156	527	195	633	234	738	273	844	312	949	351
		THROW, FT.	14-17-24	8-10-13	16-19-28	9-11-15	18-22-32	10-12-17	19-23-34	11-13-18	22-25-36	12-14-19	22-26-39	12-15-22	24-29-41	13-16-22
	3A2	CFM/SIDE	300	225	400	300	500	375	600	450	700	525	800	600	900	675
		THROW, FT.	13-16-22	11-13-18	15-18-25	13-15-22	17-20-29	15-17-24	18-22-32	16-18-26	19-23-34	17-19-28	22-25-36	18-22-30	22-28-38	19-22-32
	2A 2B	CFM/SIDE	375		500		625		750		875		1000		1125	
		THROW, FT.	15-18-25		17-22-30		19-24-34		22-26-36		22-28-39		24-30-42		25-32-44	
	2C 2D 2E 2F	CFM/SIDE	516	234	688	312	860	390	1032	468	1204	546	1376	624	1548	702
		THROW, FT.	16-19-28	12-15-20	18-22-32	14-17-23	20-25-36	16-19-26	22-28-39	17-22-29	23-30-42	18-22-31	25-32-44	19-24-33	28-34-47	22-25-35
	1A 1B	CFM/SIDE	750		1000		1250		1500		1750		2000		2250	
		THROW, FT.	18-22-32		22-25-36		24-29-41		26-32-44		28-34-47		30-36-50		32-38-53	
	RETURN FACTORS —SP=3.1 TP NC + 7	CFM NC	935 14		1250 23		1565 30		1875 36		2190 39		2500 40		2810 45	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 15 3.125 SQ. FT.	4B 4C	CFM/SIDE	351	117	469	156	587	195	703	234	822	273	938	312	1054	351
		THROW, FT.	14-17-24	8-10-13	16-19-28	9-11-15	18-22-32	10-12-17	19-23-34	11-13-18	22-25-36	12-14-19	22-26-39	12-15-22	24-29-41	13-16-22
	4E	CFM/SIDE	258	211	344	281	430	352	516	422	602	492	688	583	775	633
		THROW, FT.	13-16-22	13-16-22	15-18-25	15-18-25	17-20-29	17-20-29	18-22-32	18-22-32	19-23-34	19-23-34	22-25-36	22-25-36	22-28-38	22-28-38
	3A1	CFM/SIDE	410	117	547	156	685	195	820	234	958	273	1094	312	1224	351
		THROW, FT.	15-18-25	8-10-13	17-22-30	9-11-15	19-24-34	10-12-17	22-26-36	11-13-18	22-28-39	12-14-19	24-30-42	12-15-22	25-32-44	13-16-22
	3B	CFM/SIDE	468	234	625	312	782	391	937	469	1095	547	1250	625	1406	702
		THROW, FT.	12-15-20	12-15-20	14-17-23	14-17-23	16-19-26	16-19-26	17-22-29	17-22-29	18-22-31	18-22-31	19-24-33	19-24-33	22-25-35	22-25-35
	2A 2B	CFM/SIDE	468		625		782		937		1095		1250		1405	
		THROW, FT.	16-19-28		18-22-32		20-25-36		22-28-39		23-30-42		25-32-44		28-34-47	
	2C 2D 2E 2F	CFM/SIDE	702	234	938	312	1175	390	1407	468	1644	546	1876	624	2108	702
		THROW, FT.	17-22-30	12-15-20	20-24-34	14-17-23	23-28-39	16-19-26	24-30-41	17-22-29	26-32-44	18-22-31	29-35-47	19-24-33	34-37-50	22-25-35
	1A 1B	CFM/SIDE	937		1250		1565		1875		2190		2500		2810	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		34-41-57	

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

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

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	
	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1310 16		1750 23		2185 29		2625 34		3060 38		3500 41		3935 44	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 21 4.375 SQ. FT.	4B 4C	CFM/SIDE	425	230	569	306	710	382	852	460	995	535	1138	612	1279	688
		THROW, FT.	15-18-25	10-12-17	17-22-30	11-14-19	19-24-34	12-16-22	22-26-36	13-17-23	22-28-39	14-18-25	24-30-42	15-19-26	25-32-44	16-22-29
	4E	CFM/SIDE	360	295	480	394	600	492	720	591	840	690	960	788	1080	887
		THROW, FT.	14-17-24	14-17-24	16-19-28	16-19-28	18-22-32	18-22-32	19-23-34	19-23-34	22-25-36	22-25-36	22-26-39	22-26-39	24-29-41	24-29-41
	3A1	CFM/SIDE	540	230	722	306	901	382	1082	460	1262	535	1444	612	1623	688
		THROW, FT.	16-19-28	10-12-17	18-22-32	11-14-19	20-25-36	12-16-22	22-28-39	13-17-23	23-30-42	14-18-25	25-32-44	15-19-26	28-34-47	16-22-29
	3A2	CFM/SIDE	468	422	625	562	782	701	937	844	1093	983	1250	1125	1406	1264
		THROW, FT.	15-18-25	12-15-20	17-22-30	14-17-23	19-24-34	16-19-26	22-26-36	17-22-29	22-28-39	18-22-31	24-30-42	19-24-33	25-32-44	22-25-36
	2A 2B	CFM/SIDE	655		875		1092		1312		1530		1750		1968	
		THROW, FT.	17-22-30		20-24-34		23-28-39		24-30-41		26-32-44		29-35-47		31-37-50	
	2C 2D 2E 2F	CFM/SIDE	853	457	1138	612	1421	764	1705	920	1990	1070	2276	1224	2559	1376
		THROW, FT.	18-22-32	14-17-24	22-25-36	16-19-28	24-29-41	18-22-32	26-32-44	19-23-34	28-34-47	22-25-36	30-36-50	22-26-39	32-38-53	24-29-41
	1A 1B	CFM/SIDE	1310		1750		2185		2625		3060		3500		3935	
		THROW, FT.	22-25-37		24-30-42		28-34-48		30-36-51		32-39-56		34-42-58		37-44-63	
	RETURN FACTORS —SP=3.4 TP NC + 8	CFM NC	1575 16		2100 24		2625 30		3150 34		3675 38		4200 42		4725 45	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
36 x 21 5.25 SQ. FT.	4B 4C	CFM/SIDE	558	230	744	306	930	382	1115	460	1306	535	1488	612	1674	688
		THROW, FT.	16-19-28	10-12-17	18-22-32	11-14-19	20-25-36	12-16-22	22-28-39	13-17-23	23-30-42	14-18-25	25-32-44	15-19-26	28-34-47	16-22-29
	4E	CFM/SIDE	427	360	568	480	710	600	852	720	945	840	1135	960	1280	1080
		THROW, FT.	15-18-25	15-18-25	17-22-30	17-22-30	19-24-34	19-24-34	22-26-36	22-26-36	22-28-39	22-28-39	24-30-42	24-30-42	25-32-44	25-32-44
	3A1	CFM/SIDE	672	230	897	306	1121	382	1345	460	1570	535	1794	612	2018	688
		THROW, FT.	17-22-30	10-12-17	20-24-34	11-14-19	23-28-39	12-16-22	24-30-41	13-17-23	26-32-44	14-18-25	29-35-47	15-19-26	31-37-50	16-22-29
	3A2	CFM/SIDE	675	450	900	600	1125	750	1350	900	1575	1050	1800	1200	2025	1350
		THROW, FT.	15-18-25	13-16-22	17-22-30	15-18-25	19-24-34	17-20-29	22-26-36	18-22-32	22-28-39	19-23-34	24-30-42	22-25-36	25-32-44	22-28-38
	2A 2B	CFM/SIDE	787		1050		1312		1575		1837		2100		2362	
		THROW, FT.	18-22-32		22-25-36		24-29-41		26-32-44		28-34-47		30-36-50		32-38-53	
	2C 2D 2E 2F	CFM/SIDE	1115	460	1488	612	1861	764	2230	920	2605	1070	2976	1224	3349	1376
		THROW, FT.	20-25-35	14-17-24	23-29-40	16-19-28	26-33-45	18-22-32	29-35-49	19-23-34	31-38-52	22-25-36	33-40-57	22-26-39	35-43-60	24-29-41
	1A 1B	CFM/SIDE	1575		2100		2625		3150		3675		4200		4725	
		THROW, FT.	24-30-41		23-34-47		32-39-53		34-41-58		36-44-62		39-47-67		41-50-72	
	RETURN FACTORS —SP=3.1 TP NC + 8	CFM NC	1500 17		2000 25		2500 30		3000 35		3500 39		4000 43		4500 46	
			A	B	A	B	A	B	A	B	A	B	A	B	A	B
30 x 24 5.0 SQ. FT.	4B 4C	CFM/SIDE	450	300	600	400	750	500	900	600	1050	700	1200	800	1350	900
		THROW, FT.	15-18-25	11-13-18	17-22-30	13-15-22	19-24-34	15-17-24	22-26-36	16-18-26	22-28-39	17-19-28	24-30-42	18-22-30	25-32-44	19-22-32
	4E	CFM/SIDE	375	375	500	500	625	625	750	750	875	875	1000	1000	1125	1125
		THROW, FT.	15-18-25	15-18-25	17-22-30	17-22-30	19-24-34	19-24-34	22-26-36	22-26-36	22-28-39	22-28-39	24-30-42	24-30-42	25-32-44	25-32-44
	3A1	CFM/SIDE	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
		THROW, FT.	17-22-30	11-13-18	20-24-34	13-15-22	23-28-39	15-17-24	24-30-41	16-18-26	26-32-44	17-19-28	29-35-47	18-22-30	31-37-50	19-22-32
	3A2	CFM/SIDE	515	470	687	625	859	782	1031	937	1203	1093	1375	1250	1548	1406
		THROW, FT.	18-22-32	15-18-25	22-25-36	17-22-30	24-29-41	19-24-34	26-32-44	22-26-36	28-34-47	22-28-39	30-36-50	24-30-42	32-38-53	25-32-44
	2A 2B	CFM/SIDE	750		1000		1250		1500		1750		2000		2250	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	900	600	1200	800	1500	1000	1800	1200	2100	1400	2400	1600	2700	1800
		THROW, FT.	22-25-37		24-30-42		28-34-48		30-36-51		32-39-56		34-42-58		37-44-63	
	1A 1B	CFM/SIDE	1500		2000		2500		3000		3500		4000		4500	
		THROW, FT.	35-43-61		41-49-69		44-55-77		49-59-86		53-65-90		56-69-96		60-72-103	

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

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.

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 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	
	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
6 x 6 .25 SQ. FT.	4A	CFM/SIDE	19		25		31		37		44		50		56	
		THROW, FT.	4-5-8		5-6-9		6-8-10		6-8-11		8-9-12		8-9-12		9-10-13	
	3A	CFM/SIDE	19	28	25	38	31	47	37	56	44	66	50	75	56	85
		THROW, FT.	4-5-8	5-8-11	5-6-9	6-9-12	6-8-10	8-10-14	6-8-11	8-11-15	8-9-12	9-12-16	8-9-12	9-12-17	9-10-13	10-13-18
	2S 2G	CFM/SIDE	37		50		62		75		88		100		113	
		THROW, FT.	8-9-12		9-10-14		10-11-16		11-12-17		12-13-18		12-14-19		13-15-22	
	1S	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	9-11-15		10-12-17		11-14-19		12-15-22		13-16-22		14-17-24		15-18-25	
	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
9 x 9 .56 SQ. FT.	4A	CFM/SIDE	42		56		70		84		98		112		126	
		THROW, FT.	5-6-10		6-8-11		8-9-12		8-10-13		9-10-14		9-11-15		10-12-16	
	3A	CFM/SIDE	42	63	56	85	70	106	84	127	98	148	112	169	126	190
		THROW, FT.	5-6-10	8-10-13	6-8-11	9-11-15	8-9-12	10-12-17	8-10-13	11-13-18	9-10-14	12-14-19	9-11-15	12-15-22	10-12-16	13-16-22
	2S 2G	CFM/SIDE	84		112		141		169		197		225		253	
		THROW, FT.	9-10-15		11-13-18		12-15-20		13-16-22		14-17-23		15-18-25		16-19-28	
	1S	CFM/SIDE	169		225		282		338		394		450		507	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-22-29		18-22-31		19-24-33		22-25-35	
	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
12 x 12 1.0 SQ. FT.	4A	CFM/SIDE	75		100		125		150		175		200		225	
		THROW, FT.	6-9-11		8-10-13		9-11-15		10-12-16		10-13-17		11-14-18		12-15-19	
	3A	CFM/SIDE	75	112	100	150	125	187	150	225	175	262	200	300	225	338
		THROW, FT.	6-9-11	9-11-15	8-10-13	10-12-17	9-11-15	11-14-19	10-12-16	12-15-22	10-13-17	13-16-22	11-14-18	14-17-24	12-15-19	15-18-25
	2S 2G	CFM/SIDE	150		200		250		300		350		400		450	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	1S	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		23-27-38		24-29-41	
	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
15 x 15 1.56 SQ. FT.	4A	CFM/SIDE	117		156		195		234		273		312		350	
		THROW, FT.	8-10-13		9-11-15		10-12-17		11-13-18		12-14-19		12-15-22		13-16-24	
	3A	CFM/SIDE	117	175	156	234	195	292	234	351	273	409	312	468	350	527
		THROW, FT.	8-10-13	11-13-18	9-11-15	13-15-22	10-12-17	15-17-24	11-13-18	16-18-26	12-14-19	17-19-28	12-15-22	18-22-30	13-16-24	19-22-32
	2S 2G	CFM/SIDE	234		312		390		468		546		625		700	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		22-25-36		22-28-38	
	1S	CFM/SIDE	467		625		780		935		1090		1250		1400	
		THROW, FT.	16-19-28		18-22-32		20-25-36		22-28-39		23-30-42		25-32-44		28-34-47	
	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
18 x 18 2.25 SQ. FT.	4A	CFM/SIDE	168		225		281		337		394		450		506	
		THROW, FT.	9-11-15		10-12-17		11-14-19		12-15-21		13-16-22		14-17-24		15-18-25	
	3A	CFM/SIDE	168	253	225	338	281	422	337	506	394	590	450	675	506	760
		THROW, FT.	9-11-15	12-15-20	10-12-17	14-17-23	11-14-19	16-19-26	12-15-21	17-22-29	13-16-22	18-22-31	14-17-24	19-24-33	15-18-25	22-25-35
	2S 2G	CFM/SIDE	337		450		562		675		787		900		1012	
		THROW, FT.	14-17-24		16-19-28		18-22-32		19-23-34		22-25-36		22-26-39		24-29-41	
	1S	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	17-22-30		20-24-34		23-28-39		24-30-41		26-32-44		29-35-47		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	
	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
21 x 21	4A	CFM/SIDE	230		306		382		460		535		612		688	
		THROW, FT.	10-12-17		11-14-19		12-16-22		13-17-23		14-18-25		15-19-26		16-22-29	
	3A	CFM/SIDE	230	345	306	460	382	573	460	688	535	802	612	918	688	1030
		THROW, FT.	10-12-17	13-16-22	11-14-19	15-18-25	12-16-22	17-20-29	13-17-23	18-22-32	14-18-25	19-23-34	15-19-26	22-25-36	16-22-29	22-28-38
3.06 SQ. FT.	2S 2G	CFM/SIDE	458		612		765		917		1070		1225		1375	
		THROW, FT.	16-19-28		18-22-32		20-25-36		22-28-39		23-30-42		25-32-44		28-34-47	
	1S	CFM/SIDE	917		1225		1530		1835		2140		2450		2750	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		34-41-57	
	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
24 x 24	4A	CFM/SIDE	300		400		500		600		700		800		900	
		THROW, FT.	11-13-18		13-15-22		15-17-24		16-18-26		17-19-28		18-22-30		19-22-32	
	3A	CFM/SIDE	300	450	400	600	500	750	600	900	700	1050	800	1200	900	1350
		THROW, FT.	11-13-18	14-17-24	13-15-22	16-19-28	15-17-24	18-22-32	16-18-26	19-23-34	17-19-28	22-25-36	18-22-30	22-26-39	19-22-32	24-29-41
4.0 SQ. FT.	2S 2G	CFM/SIDE	600		800		1000		1200		1400		1600		1800	
		THROW, FT.	17-22-30		20-24-34		23-28-39		24-30-41		26-32-44		29-35-47		31-37-50	
	1S	CFM/SIDE	1200		1600		2000		2400		2800		3200		3600	
		THROW, FT.	22-25-37		24-30-42		28-34-48		30-36-51		32-39-56		34-42-58		37-44-63	
	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
30 x 30	4A	CFM/SIDE	469		625		782		937		1093		1250		1406	
		THROW, FT.	12-15-20		14-17-23		16-19-26		17-21-29		18-22-31		19-24-33		22-25-35	
	3A	CFM/SIDE	469	703	625	938	782	1172	937	1405	1093	1640	1250	1875	1406	2110
		THROW, FT.	12-15-20	16-19-28	14-17-23	18-22-32	16-19-26	20-25-36	17-21-29	22-28-39	18-22-31	23-28-42	19-24-33	25-32-44	22-25-35	28-34-47
6.25 SQ. FT.	2S 2G	CFM/SIDE	937		1250		1562		1875		2187		2500		2812	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		34-41-57	
	1S	CFM/SIDE	1875		2500		3125		3750		4375		5000		5625	
		THROW, FT.	24-30-41		28-34-47		32-39-53		34-41-58		36-44-62		39-47-66		41-50-70	
	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	4A	CFM/SIDE	675		900		1125		1350		1575		1800		2025	
		THROW, FT.	13-16-22		15-18-25		17-20-29		18-22-32		19-23-34		22-25-36		22-28-38	
	3A	CFM/SIDE	675	1010	900	1350	1125	1687	1350	2025	1575	2362	1800	2700	2025	3038
		THROW, FT.	13-16-22	17-22-30	15-18-25	20-24-34	17-20-29	23-28-39	18-22-32	24-30-41	19-23-34	26-32-44	22-25-36	29-35-47	22-28-38	31-37-50
9.0 SQ. FT.	2S 2G	CFM/SIDE	1350		1800		2250		2700		3150		3600		4050	
		THROW, FT.	22-25-37		24-30-42		28-34-48		30-36-51		32-39-56		34-42-58		37-44-63	
	1S	CFM/SIDE	2700		3600		4500		5400		6300		7200		8100	
		THROW, FT.	26-32-45		31-37-52		35-42-60		38-45-64		40-48-69		43-51-75		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	600	300	800	400	1000	500	1200	600	1400	700	1600	800	1800	900
		THROW, FT.	17-22-30	11-13-18	20-24-34	13-15-22	23-28-39	15-17-24	24-30-41	16-18-26	26-32-44	17-19-28	29-35-47	18-22-30	31-37-50	19-22-32
	4E	CFM/SIDE	450	450	600	600	750	750	900	900	1050	1050	1200	1200	1350	1350
		THROW, FT.	15-18-25	15-18-25	17-22-30	17-22-30	19-24-34	19-24-34	22-26-36	22-26-36	22-28-39	22-28-39	24-30-42	24-30-42	25-32-41	25-32-44
	3A1	CFM/SIDE	750	300	1000	400	1250	500	1500	600	1750	700	2000	800	2250	900
		THROW, FT.	18-22-32	11-13-18	22-25-36	13-15-22	24-29-41	15-17-24	26-32-44	16-18-26	28-34-47	17-19-28	30-36-50	18-22-30	32-38-53	19-22-32
	3A2	CFM/SIDE	676	562	900	750	1125	937	1350	1125	1575	1312	1800	1500	2025	1687
		THROW, FT.	16-19-28	14-17-24	18-22-32	16-19-28	20-25-36	18-22-32	22-28-39	19-23-34	23-30-42	22-25-36	25-32-44	22-26-39	28-34-47	24-29-41
	2A 2B	CFM/SIDE	900		1200		1500		1800		2100		2400		2700	
		THROW, FT.	19-24-33		22-28-38		25-32-43		28-34-46		30-36-50		32-39-53		34-41-57	
	2C 2D 2E 2F	CFM/SIDE	1200	600	1600	800	2000	1000	2400	1200	2800	1400	3200	1600	3600	1800
		THROW, FT.	22-25-37	15-18-25	24-30-42	17-22-30	28-34-48	19-24-34	30-36-51	22-26-36	32-39-56	22-28-39	34-42-58	24-30-42	37-44-63	25-32-44
	1A 1B	CFM/SIDE	1800		2400		3000		3600		4200		4800		5400	
		THROW, FT.	24-30-41		28-34-47		32-39-53		34-41-58		36-44-62		39-47-67		41-50-72	
	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
36 x 30 7.5 SQ. FT.	4B 4C	CFM/SIDE	657	468	875	625	1093	782	1313	937	1532	1093	1750	1250	1969	1406
		THROW, FT.	17-22-30	12-15-20	20-24-34	14-17-23	23-28-39	16-19-26	24-30-41	17-22-29	26-32-44	18-22-31	29-35-47	19-24-33	31-37-50	22-25-35
	3A1	CFM/SIDE	890	468	1187	625	1484	782	1781	937	2078	1093	2375	1250	2672	1406
		THROW, FT.	19-24-33	12-15-20	22-28-38	14-17-23	25-32-43	16-19-26	28-34-46	17-22-29	30-36-50	18-22-31	32-39-53	19-24-33	34-41-57	22-25-35
	3A2	CFM/SIDE	787	675	1050	900	1312	1125	1575	1350	1837	1575	2100	1800	2362	2025
		THROW, FT.	18-22-32	13-16-22	22-25-36	15-18-25	24-29-41	17-20-29	26-32-44	18-22-32	28-34-47	19-23-34	30-36-50	22-25-36	32-38-53	22-28-38
	2A 2B	CFM/SIDE	1125		1500		1875		2250		2625		3000		3375	
		THROW, FT.	20-25-35		23-29-40		26-33-45		29-35-49		31-38-52		33-40-57		35-43-60	
	2C 2D 2E 2F	CFM/SIDE	1312	938	1750	1250	2188	1562	2625	1875	3063	2187	3500	2500	3938	2812
		THROW, FT.	22-25-37	17-22-30	24-30-42	20-24-34	28-34-48	23-28-39	30-36-51	24-30-41	32-39-56	26-32-44	34-42-58	29-35-47	37-44-63	31-37-50
	1A 1B	CFM/SIDE	2250		3000		3750		4500		5250		6000		6750	
		THROW, FT.	24-30-41		28-34-47		32-39-53		34-41-58		36-44-62		39-47-67		41-50-72	

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.

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 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