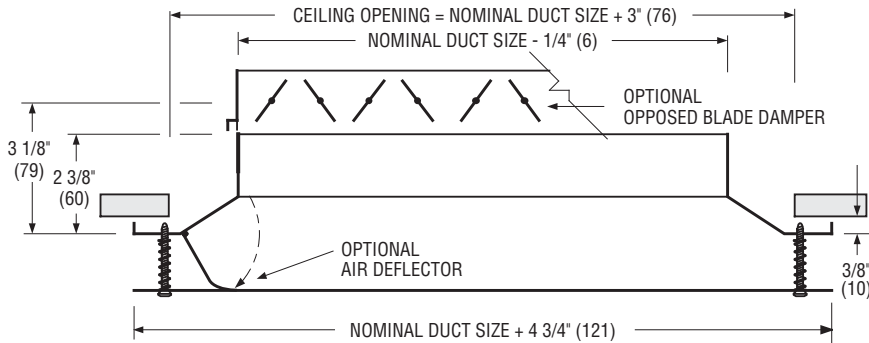


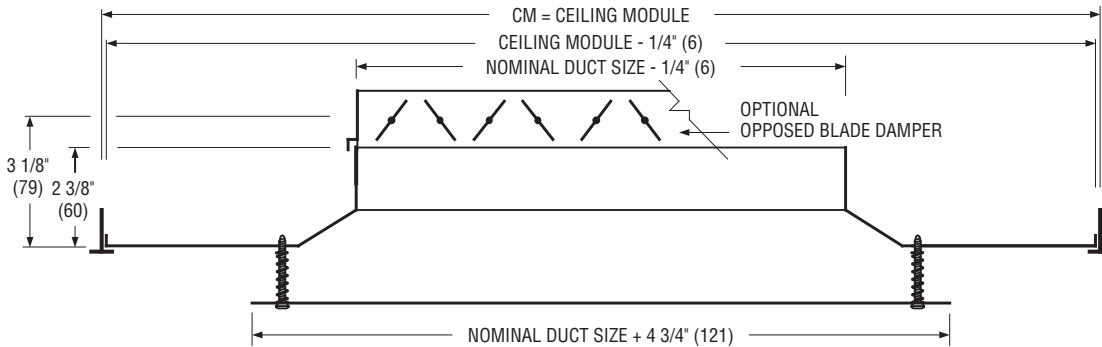


**PLAQUE CEILING DIFFUSERS**  
**SQUARE NECK • ADJUSTABLE FACE**  
**MODEL: 6600 AND 6600-O**



**TYPE S FRAME SURFACE MOUNT**

Min. duct size  
 6" x 6"  
 (152 x 152)  
 Max. duct size  
 18" x 18"  
 (457 x 457)  
 Duct sizes are  
 available in 3" (76)  
 increments only.



**TYPE PL PANEL MOUNTED LAY-IN T-BAR**  
 (Extended panel)

Ceiling Module Size		Maximum Duct Size Type L
Imperial (inches)	Metric (mm)	
20 x 20	500 x 500	12 x 12 (305 x 305)
24 x 24	600 x 600	18 x 18 (457 x 457)

**NOTES:**

1. Material: Corrosion-resistant steel.
2. The 6600 is designed to satisfy architectural as well as engineering criteria. The edges of the face panel are hemmed to provide a clean appearance and provide strength.
3. The face panel is adjustable by means of four sprung countersunk screws and can be positioned to provide a 1/2" (13) to 1 1/4" (32) variable opening and therefore an adjustable length of throw.
4. The 6600 provides a tight horizontal 360° uniform air pattern and is ideally suited for use in variable air volume systems.
5. Standard finish is AW Appliance White.

**OPTIONS:**

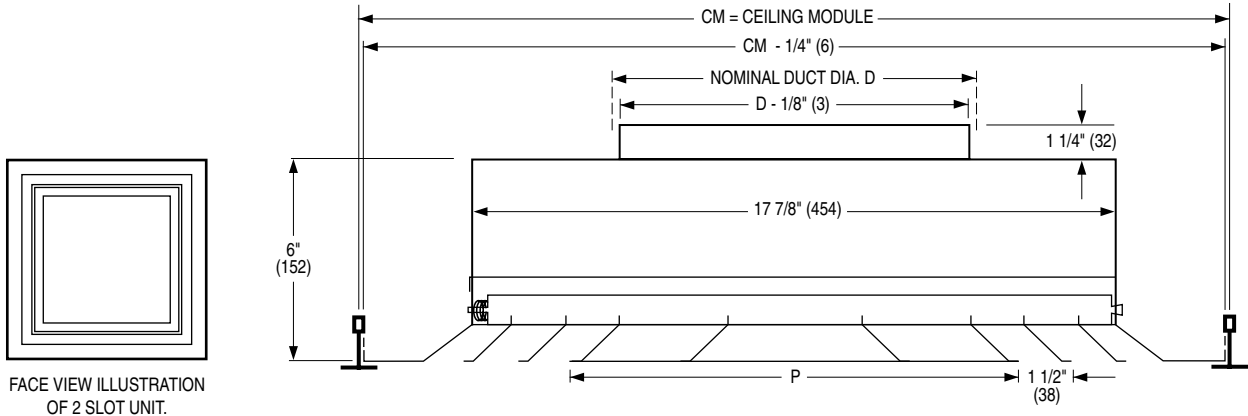
6. Hinged air deflector(s) for 1, 2 or 3-way blow pattern.
  - 3-way blow
  - 2-way corner blow
  - 2-way opposite blow
  - 1-way blow
7.  Square neck opposed blade damper. Model 6600-O.
8. Square to round transition collars
  - SQR (for round neck dampers)
  - SQR-O (for use over OBD)
9.  Round neck radial damper. Model 4275.
10. Optional finish:
  - SP Special. Specify \_\_\_\_\_ .

<b>SCHEDULE TYPE:</b>		Dimensions are in inches (mm).			
<b>PROJECT:</b>					
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR:</b>	3 - 1 - 16	6600	19 - 7 - 99RR	6600-1	

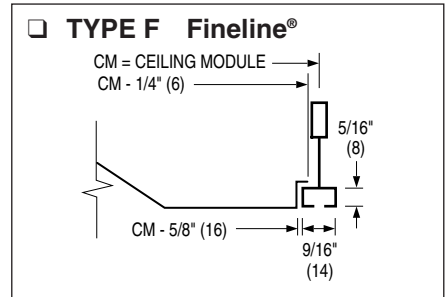


**ARCHITECTURAL CEILING DIFFUSER**  
**STEEL • ROUND NECK • PLAQUE FACE**  
**MODEL: 66UNI 24"x 24" CEILING MODULE**

**TYPE L Lay-in T-Bar**



Ceiling Module Size CM	No. of Slots	Nominal Round Duct Size D	Plaque Face P
24 x 24 (610 x 610)	1	6,8,10 (152, 203, 254)	18 5/16 (465)
	2	6,8,10,12 (152, 203, 254, 305)	15 5/16 (389)
	3	8,10,12,14 (203, 254, 305, 356)	12 5/16 (313)



**DESCRIPTION:**

1. Material: Corrosion resistant steel
2. Model 66UNI is a flush face architecturally appealing plaque diffuser available with 1, 2 or 3 perimeter slots. The 66UNI provides a tight horizontal air pattern from maximum to minimum airflow and is ideal for VAV applications.
3. The 66UNI has been designed specifically to integrate with 24" x 24" (610 x 610) module ceiling suspension systems. Available in two frame/border styles. Type L Lay-in for standard 15/16" (24) or 9/16" (14) flat face T-bar systems. Type F Fineline® for Narrow Regressed T-Bar ceiling suspension systems, commonly referred to as Bolt Slot or Fineline type T-Bar.
4. The 66UNI is provided with a deep plenum back pan to provide optimum performance by minimizing pressure drop and noise. The diffuser has a round neck collar for easy flexible duct connection.
5. Spring loaded removable core.
6. Standard finish is AW Appliance White.

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

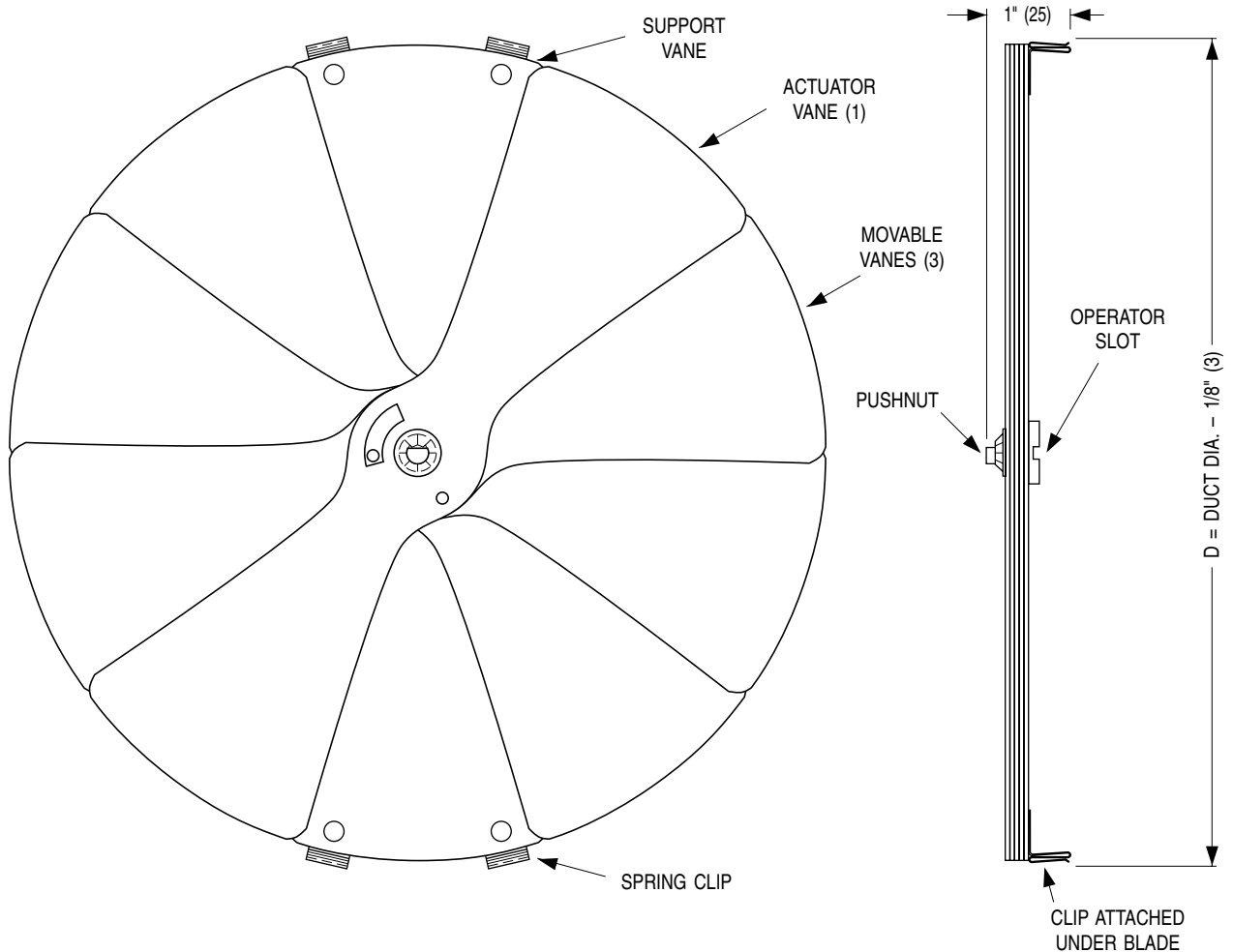
**OPTIONS:**

- Special Finish. Specify: \_\_\_\_\_.
- EQT. Earthquake Tabs.

**ACCESSORIES:**

- 4250 Radial sliding blade damper.
- 4275 Radial Opposed blade damper.

<b>SCHEDULE TYPE</b>		Dimensions are in inches (mm).			
<b>PROJECT</b>					
<b>ENGINEER</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR</b>	2 - 26 - 02	6600	NEW	66UNI-1	


**DESCRIPTION:**

1. Material: Heavy gauge corrosion-resistant steel.
2. The Nailor Model 4250 is a neck mounted, radial sliding blade damper used in round neck diffuser applications to provide fine volume control.
3. Dampers have gang operated radial blades. Blades slide at right angles to the duct with protrusion above the diffuser neck, allowing the damper to work effectively in flexible duct applications.
4. The 4250 is neck mounted with steel barb clips providing secure attachment.
5. Adjustments are made at the screwdriver operator slot.
6. Available Sizes: 6", 8", 10", 12" and 14" (152, 203, 254, 305 and 356) dia..

**SCHEDULE TYPE:**
**PROJECT:**
**ENGINEER:**
**CONTRACTOR:**

Dimensions are in inches (mm).

**DATE**
**B SERIES**
**SUPERSEDES**
**DRAWING NO.**

10 - 24 - 01

ACC.DIF.

25 - 8 - 99R

ABD-4250



# AIR BALANCING DEVICE RADIAL OPPOSED BLADE DAMPER STEEL • FOR ROUND NECK DIFFUSERS MODEL: 4275 (5" - 16" DIA.)

## DESCRIPTION:

A unique method of controlling volume through a diffuser providing premium design quality and performance. The multi-blade perimeter design offers true radial flow at any setting.

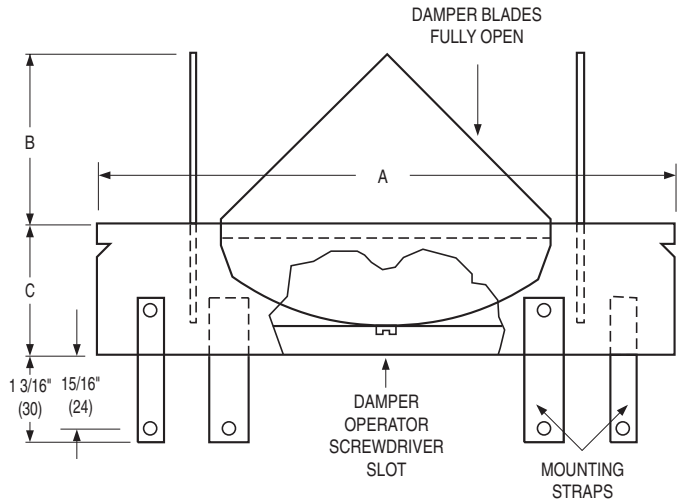
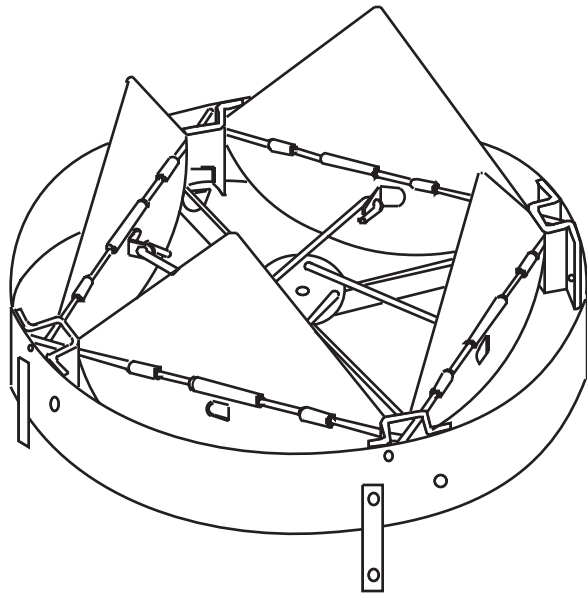
A screwdriver slot, accessible through the diffuser, requires only a half turn to adjust from fully closed to fully open. The damper is designed to fit directly on the neck of the diffuser. Simple convenient and accurate installation and operation.

## OPERATION:

Size 5 through 8 are friction type. Use screwdriver and turn operator to adjust damper setting.

Size 10 through 16 use a detent mechanism to positively hold damper setting. Using screwdriver, lift up and turn operator to desired damper setting.

1. Material: Corrosion-resistant steel construction.
2. Damper mounts directly to diffuser collar.
3. Standard Finish: Mill.



	Nominal Size (inches)								Nominal Size (mm)							
	5	6	8	10	12	14	15	16	127	152	203	254	305	356	381	406
A	4 7/8	5 7/8	7 7/8	9 7/8	11 7/8	13 7/8	14 7/8	15 7/8	124	149	200	251	302	352	378	403
B	1 1/8	1 5/8	2 1/2	2 1/4	2 7/8	3 3/8	3 3/4	4 3/8	29	41	64	57	73	86	95	111
C	1 5/8				2 1/2				41				64			

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

8 - 29 - 05

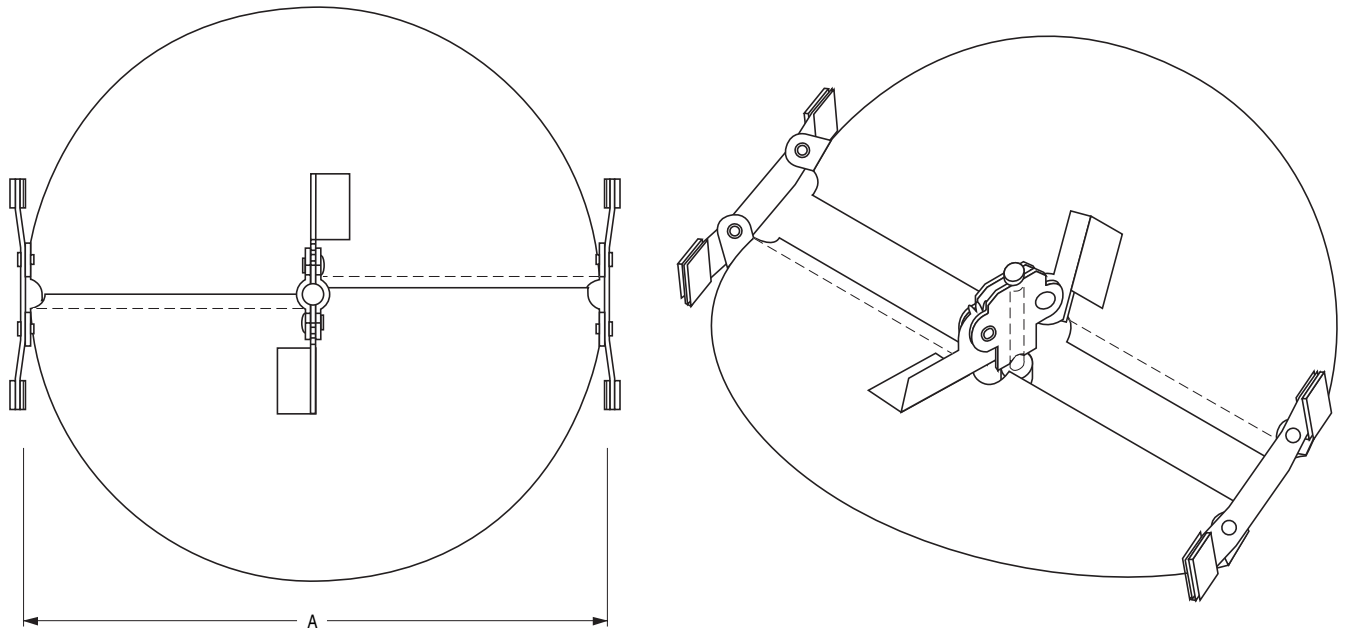
ABD

3 - 1 - 02

ABD-4275-1



**AIR BALANCING DEVICE  
BUTTERFLY DAMPER  
STEEL • FOR ROUND NECK DIFFUSERS  
MODEL: 4675**

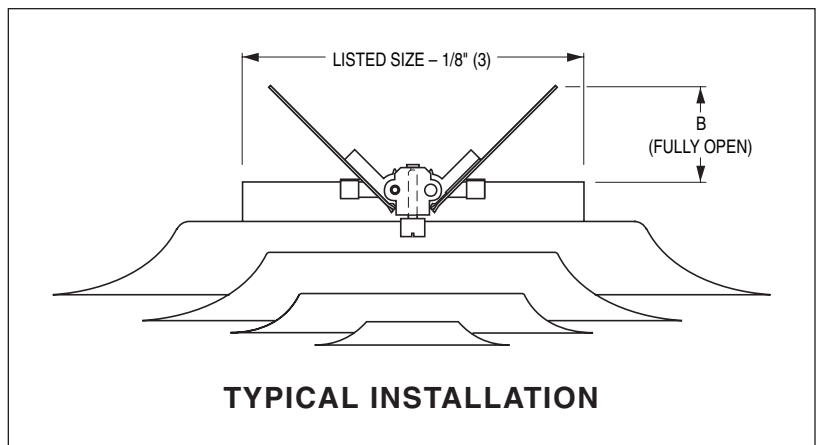


**DESCRIPTION:**

The Model 4675 Butterfly Damper is an economical damper for volume balancing in round neck diffusers. Adjustable friction pivots hold the blades at the required setting.

1. Material: Corrosion-resistant steel. Mill finish.
2. The 4675 damper mounts directly to diffuser collar. Not compatible with Model Series RNSA, RNR, RNRA1, 6300 or 6300R diffusers.
3. Screwdriver slot operator is adjustable from the face of the diffuser.

	Nominal Size (inches)					Nominal Size (mm)				
	6	8	10	12	14	152	203	254	305	356
A	5 7/8	7 7/8	9 7/8	11 7/8	13 7/8	149	200	251	302	352
B	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	64	89	114	140	165



**TYPICAL INSTALLATION**

<b>SCHEDULE TYPE:</b>					Dimensions are in inches (mm).				
<b>PROJECT:</b>									
<b>ENGINEER:</b>					<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR:</b>					11 - 14 - 08	ACC.DIF.	5 - 28 - 08	ABD-4675	



# SQUARE TO ROUND TRANSITION COLLARS

## STEEL • DIFFUSER ACCESSORY

### MODELS: SR, SR-O

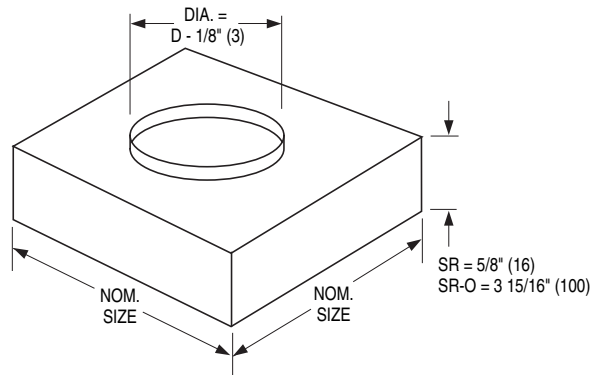
#### DESCRIPTION:

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.

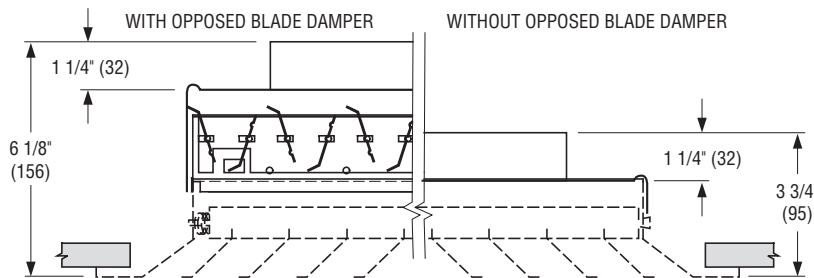
- Model SR  
For direct attachment to diffuser neck. Round dampers may be added to neck.
- Model SR-O  
For use over a square neck opposed blade damper.

#### 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.

<b>SCHEDULE TYPE:</b>		Dimensions are in inches (mm).			
<b>PROJECT:</b>					
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR:</b>	3 - 4 - 16	ACC	10 - 27 - 05	ACC-SR	

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**

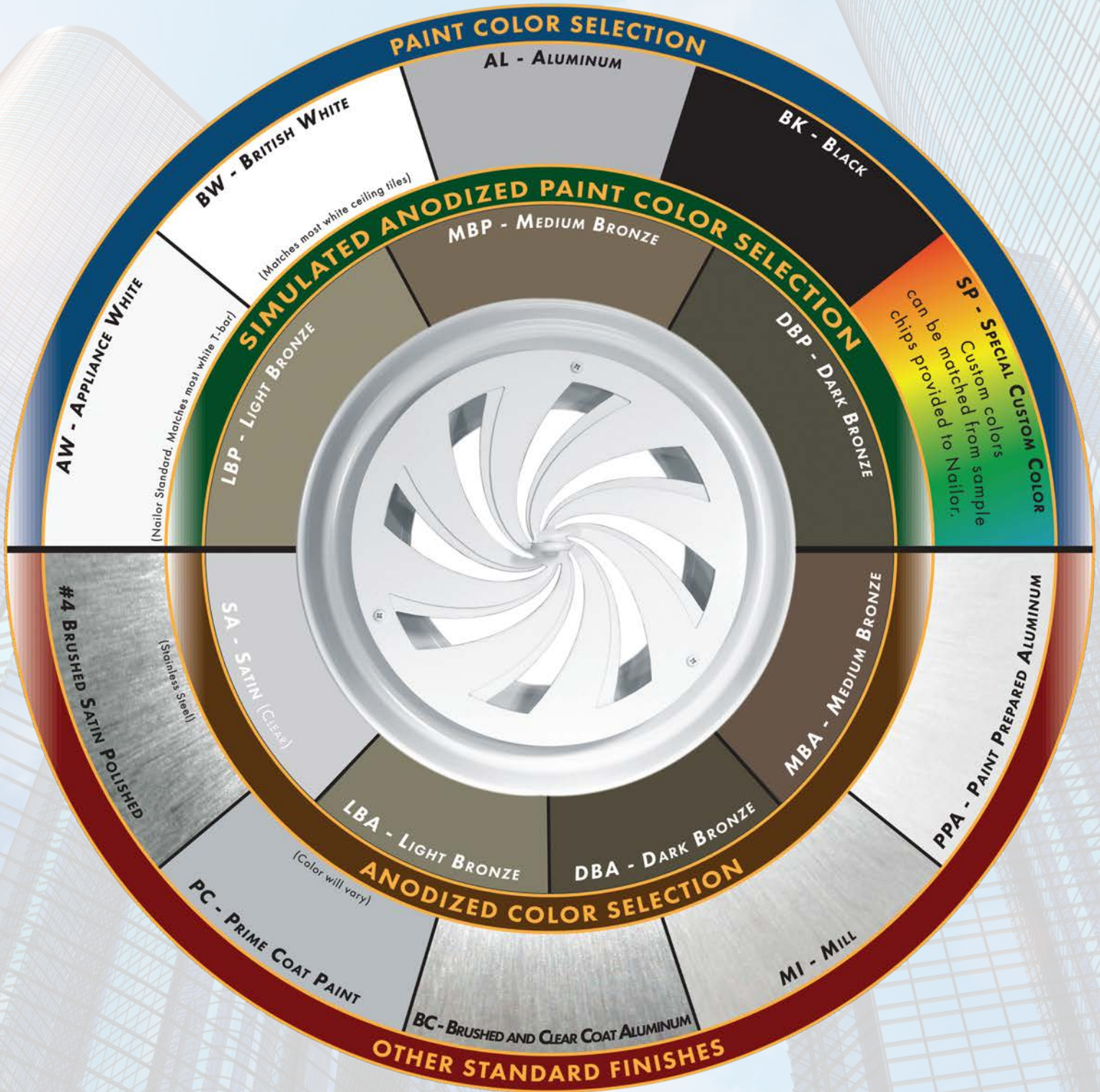
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



**Nailor**<sup>®</sup>  
Industries Inc.

## STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

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



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

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

"Complete Air Control and Distribution Solutions."

WGDSOF2015

[www.nailor.com](http://www.nailor.com)



## PERFORMANCE DATA:

### MODEL 6600 • SQUARE NECK

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	160	240	320	400	600	800	1000	1200	1400
			.002 40	.004 60	.006 80	.010 100	.023 150	.040 200	.063 250	.090 300	.122 350
<b>6 x 6</b>	1 1/4"	Total Pressure				.03	.06	.10	.16	.23	.31
		Throw				1	3	5	6	7	9
		Noise Criteria				13	18	21	25	30	36
	1"	Total Pressure			.02	.03	.07	.11	.17	.26	.34
		Throw			2	2	4	6	7	8	10
		Noise Criteria			—	13	18	21	25	31	37
	3/4"	Total Pressure	.01	.01	.02	.03	.08	.13	.21	.30	.41
		Throw	2	2	3	3	5	7	8	9	10
		Noise Criteria	—	—	—	14	19	22	26	32	38
	1/2"	Total Pressure	.01	.02	.03	.05	.10	.18	.28	.41	.56
		Throw	3	3	4	4	6	8	9	10	11
		Noise Criteria	—	—	—	15	20	23	26	35	40

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	89	133	178	267	356	444	533	711	800
			.001 50	.001 75	.002 100	.004 150	.008 200	.012 250	.018 300	.031 400	.040 450
<b>9 x 9</b>	1 1/4"	Total Pressure				.01	.02	.04	.06	.10	.12
		Throw				2	3	5	6	8	9
		Noise Criteria				12	17	20	23	32	37
	1"	Total Pressure			.01	.02	.03	.05	.07	.12	.15
		Throw			2	4	5	6	7	10	11
		Noise Criteria			—	13	18	21	24	33	39
	3/4"	Total Pressure		.01	.01	.03	.04	.07	.10	.17	.21
		Throw		2	3	5	6	7	9	11	13
		Noise Criteria		—	—	14	19	22	25	35	40
	1/2"	Total Pressure	.01	.01	.02	.04	.07	.12	.17	.29	.37
		Throw	2	3	4	6	7	9	10	13	14
		Noise Criteria	—	—	—	15	20	23	26	37	42

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	50	100	150	200	250	300	400	500	600
			.001 50	.001 100	.002 150	.003 200	.004 250	.006 300	.010 400	.016 500	.023 550
<b>12 x 12</b>	1 1/4"	Total Pressure			.01	.01	.02	.03	.04	.07	.09
		Throw			3	4	6	7	9	12	13
		Noise Criteria			—	13	17	21	26	33	38
	1"	Total Pressure		.01	.01	.02	.03	.04	.06	.09	.12
		Throw		2	4	5	7	8	10	13	14
		Noise Criteria		—	—	13	17	21	26	34	38
	3/4"	Total Pressure		.01	.01	.03	.04	.06	.09	.15	.18
		Throw		3	5	6	7	9	11	14	15
		Noise Criteria		—	—	14	18	22	27	35	40
	1/2"	Total Pressure	.01	.01	.03	.05	.07	.10	.18	.28	.34
		Throw	2	4	6	7	8	10	12	15	17
		Noise Criteria	—	—	—	15	20	23	30	39	45

For performance notes, see D137.

**D**

**CEILING DIFFUSERS**

## PERFORMANCE DATA:

### MODEL 6600 • SQUARE NECK

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	32	64	96	128	192	256	320	384	448
			.001 50	.001 100	.001 150	.001 200	.002 300	.004 400	.006 500	.009 600	.013 700
15 X 15	1 1/4"	Total Pressure				.01	.01	.03	.05	.06	.09
		Throw				3	5	6	9	10	12
		Noise Criteria				—	18	22	27	33	39
	1"	Total Pressure			.01	.01	.02	.04	.06	.09	.12
		Throw			2	4	6	8	11	13	14
		Noise Criteria			—	13	19	23	28	35	42
	3/4"	Total Pressure		.01	.01	.02	.03	.07	.10	.14	.19
		Throw		2	4	5	8	10	13	15	17
		Noise Criteria		—	—	—	15	21	26	32	40
	1/2"	Total Pressure	.01	.01	.02	.03	.07	.13	.20	.28	.38
		Throw	2	3	5	6	9	12	15	18	21
		Noise Criteria	—	—	—	15	21	26	32	40	49

Neck Size	Face Opening	Neck Velocity, FPM Velocity Pressure Airflow, CFM	22	44	89	133	178	222	267	311	356
			.001 50	.001 100	.001 200	.001 300	.002 400	.003 500	.005 600	.006 700	.008 800
18 X 18	1 1/4"	Total Pressure			.01	.01	.02	.03	.05	.07	.08
		Throw			2	4	6	6	9	11	13
		Noise Criteria			—	14	20	23	28	33	40
	1"	Total Pressure			.01	.02	.03	.05	.07	.10	.13
		Throw			3	5	8	8	10	14	15
		Noise Criteria			—	14	20	24	29	35	43
	3/4"	Total Pressure	.01	.01	.01	.03	.05	.07	.12	.15	.20
		Throw	2	3	5	7	9	10	14	16	18
		Noise Criteria	—	—	—	15	21	25	31	37	46
	1/2"	Total Pressure	.01	.01	.02	.05	.10	.14	.22	.29	.38
		Throw	2	4	6	9	12	14	17	19	21
		Noise Criteria	—	—	10	16	22	27	33	40	50

#### Performance Notes:

- All pressures are in inches w.g..
- Throw values are given for a terminal velocity of 50 fpm under isothermal conditions.
- The addition of direction blow blank-offs reduces the effective area and for a given air volume, increases the discharge velocity with a resultant increase in throw, pressure drop and sound level. To determine throw, select the diffuser as if it were supplying a larger volume of air. The table shows the percentage increase required to determine diffuser airflow selection to determine throw.
- Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates an Noise Criteria of less than 10.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Corrections to pressure drop and Noise Criteria level may be approximated by using correction factors as shown and applying them to the 4-way blow value listed in the performance tables.

Blow Pattern	% Increase in Air Volume for Throw Determination	TP Increase Correction Factor	NC Sound Level Add
3-way	35	x 1.5	+ 10
2-way	100	x 4.0	+ 15
1-way	400	x 8.0	+30

## PERFORMANCE DATA:

### MODEL 66UNI • 24 x 24 (610 x 610) CEILING MODULE • IMPERIAL UNITS

#### 1 Slot

<b>6" Dia. Neck</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>175</b>	<b>195</b>	<b>235</b>	<b>275</b>
	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400
	Total Pressure	.021	.033	.048	.066	.086	.108	.133	.192	.261
	Static Pressure	.011	.017	.026	.035	.046	.058	.071	.102	.139
	Throw, ft.	2-3-5	2-3-7	3-4-7	3-5-8	4-5-10	4-6-12	4-7-13	5-8-14	6-8-14
	Noise Criteria	—	—	17	21	25	28	31	35	40
<b>8" Dia. Neck</b>	Airflow, CFM	<b>140</b>	<b>165</b>	<b>190</b>	<b>220</b>	<b>245</b>	<b>270</b>	<b>295</b>	<b>325</b>	<b>350</b>
	Neck Velocity, FPM	400	475	550	625	700	775	850	925	1000
	Total Pressure	.026	.036	.048	.063	.079	.097	.117	.139	.162
	Static Pressure	.016	.022	.029	.039	.048	.060	.072	.086	.100
	Throw, ft.	3-5-8	4-5-10	4-6-12	5-6-13	5-7-13	5-8-14	6-9-14	6-10-15	7-11-15
	Noise Criteria	—	18	22	25	28	31	33	36	38
<b>10" Dia. Neck</b>	Airflow, CFM	<b>110</b>	<b>150</b>	<b>190</b>	<b>230</b>	<b>275</b>	<b>315</b>	<b>355</b>	<b>395</b>	<b>455</b>
	Neck Velocity, FPM	200	275	350	425	500	575	650	725	800
	Total Pressure	.008	.014	.023	.034	.047	.062	.080	.099	.121
	Static Pressure	.006	.009	.015	.023	.031	.041	.054	.066	.081
	Throw, ft.	2-4-6	3-5-9	4-5-12	5-7-13	5-8-14	6-10-14	7-11-15	8-12-16	9-13-17
	Noise Criteria	—	—	16	21	25	29	32	35	37

#### 2 Slot

<b>6" Dia. Neck</b>	Airflow, CFM	<b>60</b>	<b>95</b>	<b>130</b>	<b>165</b>	<b>195</b>	<b>230</b>	<b>265</b>	<b>300</b>	<b>335</b>
	Neck Velocity, FPM	300	475	650	825	1000	1175	1350	1525	1700
	Total Pressure	.010	.024	.045	.072	.105	.146	.193	.246	.305
	Static Pressure	.004	.010	.019	.030	.043	.060	.079	.101	.125
	Throw, ft.	0-1-3	1-2-4	2-3-5	2-4-7	3-5-8	4-5-10	4-5-12	5-6-13	5-7-14
	Noise Criteria	—	—	—	17	22	26	30	33	36
<b>8" Dia. Neck</b>	Airflow, CFM	<b>140</b>	<b>190</b>	<b>245</b>	<b>295</b>	<b>350</b>	<b>400</b>	<b>455</b>	<b>505</b>	<b>560</b>
	Neck Velocity, FPM	400	550	700	850	1000	1150	1300	1450	1600
	Total Pressure	.021	.039	.063	.092	.128	.169	.217	.269	.328
	Static Pressure	.011	.020	.032	.047	.066	.087	.112	.138	.168
	Throw, ft.	2-3-6	3-5-8	4-5-11	5-6-13	5-7-15	5-9-16	6-10-18	7-11-19	8-12-20
	Noise Criteria	—	—	20	25	29	33	36	39	42
<b>10" Dia. Neck</b>	Airflow, CFM	<b>220</b>	<b>275</b>	<b>325</b>	<b>380</b>	<b>435</b>	<b>490</b>	<b>545</b>	<b>600</b>	<b>655</b>
	Neck Velocity, FPM	400	500	600	700	800	900	1000	1100	1200
	Total Pressure	.024	.037	.053	.073	.095	.121	.149	.180	.214
	Static Pressure	.014	.021	.031	.042	.055	.071	.087	.105	.124
	Throw, ft.	3-5-9	4-6-12	5-7-14	5-8-16	6-9-17	7-11-18	8-12-19	9-13-21	9-14-22
	Noise Criteria	—	16	21	25	29	32	35	37	40
<b>12" Dia. Neck</b>	Airflow, CFM	<b>235</b>	<b>315</b>	<b>395</b>	<b>470</b>	<b>550</b>	<b>630</b>	<b>705</b>	<b>785</b>	<b>865</b>
	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1100
	Total Pressure	.015	.027	.042	.061	.083	.107	.136	.168	.203
	Static Pressure	.009	.017	.026	.039	.052	.067	.086	.106	.128
	Throw, ft.	4-5-10	5-7-14	5-8-16	7-10-18	8-12-20	9-14-21	10-15-22	12-16-23	13-17-24
	Noise Criteria	—	15	21	26	30	33	36	39	42

#### Performance Notes:

- All pressures are in inches w.g..
- Throws are given at 150, 100 and 50 fpm terminal velocities, under isothermal conditions.
- Noise Criteria (NC) values are based on 10 dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in spaces indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

#### Balancing:

It is recommended that a commercially available 'Flow Hood' is used for field balancing. The airflow meter directly reads average flow rate with great accuracy at all volumes. It is a much faster and more accurate alternative to time consuming multiple velocity readings, eliminating the use of Ak factors and the calculations required to convert the average velocity into airflow.

## PERFORMANCE DATA:

### MODEL 66UNI • 24 x 24 (610 x 610) CEILING MODULE • IMPERIAL UNITS

#### 3 Slot

<b>8" Dia. Neck</b>	Airflow, CFM	<b>105</b>	<b>165</b>	<b>225</b>	<b>290</b>	<b>350</b>	<b>410</b>	<b>470</b>	<b>530</b>	<b>595</b>
	Neck Velocity, FPM	300	475	650	825	1000	1175	1350	1525	1700
	Total Pressure	.010	.024	.045	.072	.106	.146	.192	.245	.304
	Static Pressure	.004	.010	.018	.030	.043	.060	.078	.100	.124
	Throw, ft.	2-3-4	3-4-6	3-6-9	4-8-11	5-9-13	6-11-16	7-13-18	8-14-20	9-16-23
	Noise Criteria	—	—	18	22	25	28	32	35	38
<b>10" Dia. Neck</b>	Airflow, CFM	<b>165</b>	<b>230</b>	<b>300</b>	<b>370</b>	<b>435</b>	<b>505</b>	<b>575</b>	<b>640</b>	<b>710</b>
	Neck Velocity, FPM	300	425	550	675	800	925	1050	1175	1300
	Total Pressure	.010	.021	.035	.052	.074	.099	.127	.159	.195
	Static Pressure	.005	.010	.016	.024	.034	.045	.058	.073	.090
	Throw, ft.	3-5-7	4-7-10	5-8-12	6-10-14	6-11-16	7-13-18	8-14-20	9-15-22	9-16-24
	Noise Criteria	—	—	18	24	27	30	33	36	39
<b>12" Dia. Neck</b>	Airflow, CFM	<b>235</b>	<b>315</b>	<b>395</b>	<b>470</b>	<b>550</b>	<b>630</b>	<b>705</b>	<b>785</b>	<b>865</b>
	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1100
	Total Pressure	.012	.021	.034	.048	.066	.086	.110	.136	.164
	Static Pressure	.006	.011	.018	.026	.036	.047	.059	.073	.089
	Throw, ft.	4-7-10	5-9-12	6-10-15	7-12-17	8-13-19	8-15-21	9-16-23	10-17-25	11-19-27
	Noise Criteria	—	16	20	25	28	30	33	35	37
<b>14" Dia. Neck</b>	Airflow, CFM	<b>320</b>	<b>430</b>	<b>535</b>	<b>640</b>	<b>750</b>	<b>855</b>	<b>960</b>	<b>1070</b>	<b>1175</b>
	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1100
	Total Pressure	.013	.023	.037	.053	.072	.094	.119	.148	.179
	Static Pressure	.007	.013	.021	.030	.041	.054	.069	.085	.104
	Throw, ft.	5-8-12	6-10-15	7-12-17	8-14-20	9-16-23	10-17-25	11-19-27	12-21-30	13-22-32
	Noise Criteria	—	—	20	28	31	33	36	39	41

#### Performance Notes:

1. All pressures are in inches w.g..
2. Throws are given at 150, 100 and 50 fpm terminal velocities, under isothermal conditions.
3. Noise Criteria (NC) values are based on 10 dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in spaces indicates an Noise Criteria level of less than 15.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

#### Balancing:

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