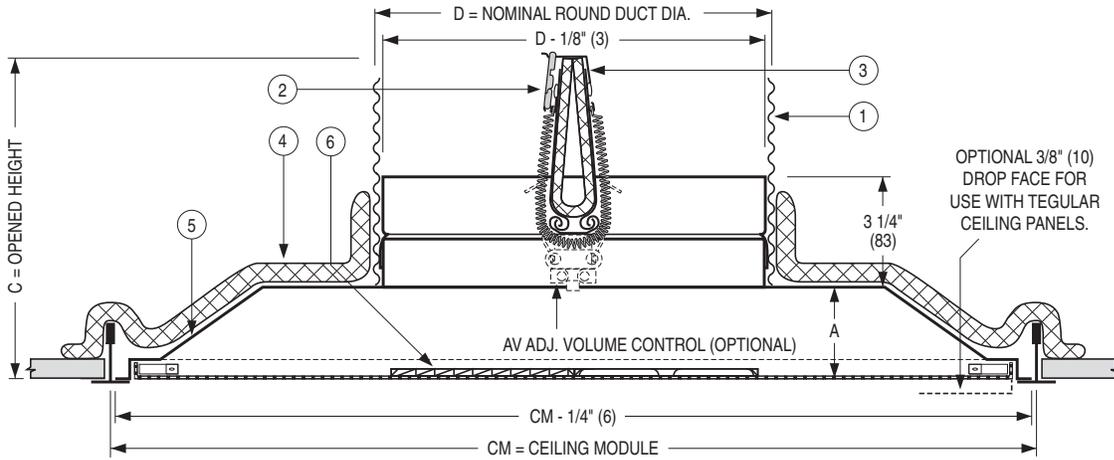




FIRE RATED CEILING DIFFUSER
 1, 2, 3, OR 4-WAY ADJUSTABLE PATTERN •
 PERFORATED FACE • STEEL • ROUND NECK
MODELS: 4070, 4075, 4080 AND 4085



CATEGORY BZZU



CATEGORY BZGUC



	Imperial Modules						Metric Modules		
	Imperial Units (inches)			SI Units (mm)			SI Units (mm)		
Listed Neck Size	CM = 12 x 12			CM = 305 x 305			CM = 300 x 300		
	D	A	C	D	A	C	D	A	C
6	6		6 3/8	152		162	152		162
8	8	1 7/8	7 3/8	203	48	187	203	48	187
Listed Neck Size	CM = 24 x 24			CM = 610 x 610			CM = 600 x 600		
	D	A	C	D	A	C	D	A	C
6	6		6 7/8	152		175	152		175
8	8		7 7/8	203		200	203		200
10	10	2 3/8	8 7/8	254	60	225	254	60	225
12	12		9 7/8	305		251	305		251
14	14		10 7/8	356		276	356		276

- MODEL 4070 FLUSH FACE**
- MODEL 4075 DROP FACE**
12 x 12 (300 x 300) module
Type L Lay-in Frame
- MODEL 4080 FLUSH FACE**
- MODEL 4085 DROP FACE**
24 x 24 (600 x 600) module
Type L Lay-in Frame

ITEMS:

- Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
- U.L. Listed fusible link. 212°F (100°C) standard.
- Ceiling radiation damper/fire stop flap.
- Ceramic fibre thermal blanket.
- Corrosion resistant steel diffuser.
- Adjustable pattern controllers.

DESCRIPTION:

- All models are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL or ULC Fire Resistance Directory.
- The discharge pattern is 1, 2, 3, or 4-way horizontal and is adjusted by dropping the perforated face and rotating the pattern deflectors. Removable face has concealed latches for easy access to the damper.
- Excellent for VAV systems.

- The perforated face has 3/16" (5) dia. holes on 1/4" (6) staggered centres.
- Standard finish is AW Appliance White.

OPTIONS:

- AV Fusible link adjustable volume control (Model 0722A damper).
- Non-standard temperature U.L. Listed fusible link.
 - 165°F (74°C)
- Finish:
 - SP Special
 - BA Black back pan and deflectors with an appliance white face.
 - BW Black back pan and deflectors with an off-white face.

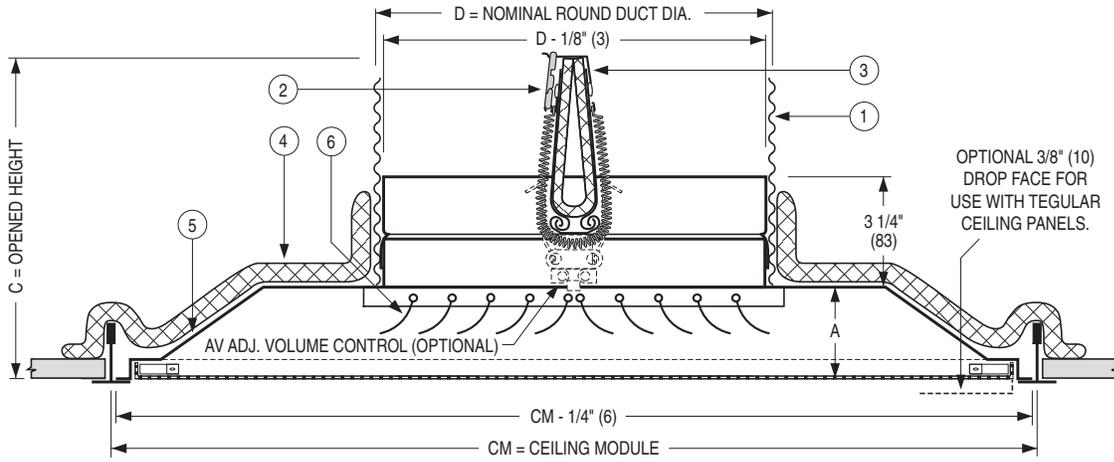
For installation instructions, see IOM-FRDSINST or IOM-FRDFINST.

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 24 - 16	4000	5 - 11 - 15	4000-6A



FIRE RATED CEILING DIFFUSER
4-WAY ADJUSTABLE PATTERN •
CURVED BLADES • PERFORATED FACE •
STEEL • ROUND NECK
MODELS: 4070CB, 4075CB, 4080CB & 4085CB



CLASSIFIED
 CATEGORY
 BZZU



CLASSIFIED
 CATEGORY
 BZGUC



	Imperial Modules						Metric Modules		
	Imperial Units (inches)			SI Units (mm)			SI Units (mm)		
Listed Neck Size	CM = 12 x 12			CM = 305 x 305			CM = 300 x 300		
	D	A	C	D	A	C	D	A	C
	6		6 3/8	152	48	162	152	48	162
	8	1 7/8	7 3/8	203		187	203		187
Listed Neck Size	CM = 24 x 24			CM = 610 x 610			CM = 600 x 600		
	D	A	C	D	A	C	D	A	C
	6		6 7/8	152		175	152		175
	8		7 7/8	203		200	203		200
	10	2 3/8	8 7/8	254	60	225	254	60	225
	12		9 7/8	305		251	305		251
	14		10 7/8	356		276	356		276

- MODEL 4070CB FLUSH FACE**
- MODEL 4075CB DROP FACE**
 12 x 12 (300 x 300) module
 Adjustable Curved Blades
 Type L Lay-in Frame
- MODEL 4080CB FLUSH FACE**
- MODEL 4085CB DROP FACE**
 24 x 24 (600 x 600) module
 Adjustable Curved Blades
 Type L Lay-in Frame

ITEMS:

- Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
- U.L. Listed fusible link. 212°F (100°C) standard.
- Ceiling radiation damper/fire stop flap.
- Ceramic fibre thermal blanket.
- Corrosion resistant steel diffuser.
- Individually adjustable curved blade deflectors.

DESCRIPTION:

- All models are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL or ULC Fire Resistance Directory.
- The pattern deflectors can vary the discharge pattern from full horizontal to vertical, and can be used to damper the air volume or close off one or more discharge directions. They may be adjusted by dropping the perforated face and moving the deflectors before or after installation. Removable face has concealed latches for easy access.

- Excellent for VAV systems.
- The perforated face has 3/16" (5) dia. holes on 1/4" (6) staggered centres.
- Standard finish is AW Appliance White.

OPTIONS:

- AV Fusible link adjustable volume control (Model 0722A damper).
- Non-standard temperature U.L. Listed fusible link.
 - 165°F (74°C)
- Finish:
 - SP Special
 - BA Black back pan and deflectors with an appliance white face.
 - BW Black back pan and deflectors with an off-white face.

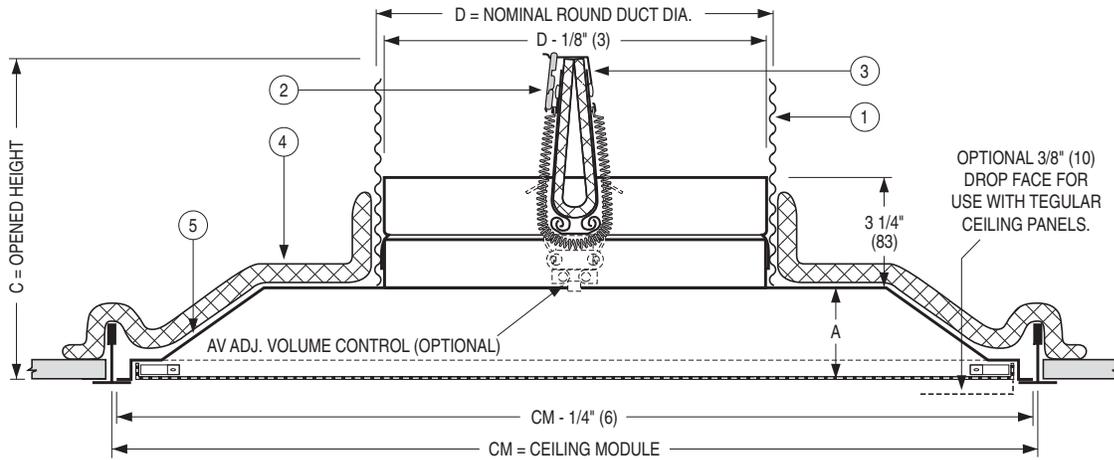
For installation instructions, see IOM-FRDSINST or IOM-FRDFINST.

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 24 - 16	4000	5 - 11 - 15	4000-6B



FIRE RATED CEILING DIFFUSER
RETURN • PERFORATED FACE •
STEEL • ROUND NECK
MODELS: 4070R, 4075R, 4080R AND 4085R



CLASSIFIED
CATEGORY BZZU



CLASSIFIED
CATEGORY BZGUC



Listed Neck Size	Imperial Modules						Metric Modules		
	Imperial Units (inches)			SI Units (mm)			SI Units (mm)		
	CM = 12 x 12			CM = 305 x 305			CM = 300 x 300		
	D	A	C	D	A	C	D	A	C
6	6	1 7/8	6 3/8	152	48	162	152	48	162
8	8		7 3/8	203		187	203		187
	CM = 24 x 24			CM = 610 x 610			CM = 600 x 600		
	D	A	C	D	A	C	D	A	C
6	6		6 7/8	152		175	152		175
8	8		7 7/8	203		200	203		200
10	10	2 3/8	8 7/8	254	60	225	254	60	225
12	12		9 7/8	305		251	305		251
14	14		10 7/8	356		276	356		276

- MODEL 4070R FLUSH FACE
- MODEL 4075R DROP FACE
12 x 12 (300 x 300) module
Type L Lay-in Frame
- MODEL 4080R FLUSH FACE
- MODEL 4085R DROP FACE
24 x 24 (600 x 600) module
Type L Lay-in Frame

ITEMS:

- Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
- U.L. Listed fusible link. 212°F (100°C) standard.
- Ceiling radiation damper/fire stop flap.
- Ceramic fibre thermal blanket.
- Corrosion resistant steel diffuser.

DESCRIPTION:

- All models are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL or ULC Fire Resistance Directory.
- The diffuser has concealed latches for easy access to the damper through the removable face.
- Designed as a matching return to compliment supply units. Perforated face has 3/16" (5) dia. holes on 1/4" (6) staggered centers.

- The perforated face has 3/16" (5) dia. holes on 1/4" (6) staggered centres.
- Standard finish is AW Appliance White.

OPTIONS:

- AV Fusible link adjustable volume control (Model 0722A damper).
- Non-standard temperature U.L. Listed fusible link.
 165°F (74°C)
- Finish:
 - SP Special
 - BA Black back pan with an appliance white face.
 - BW Black back pan with an off-white face.

For installation instructions, see IOM-FRDSINST or IOM-FRDFINST.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

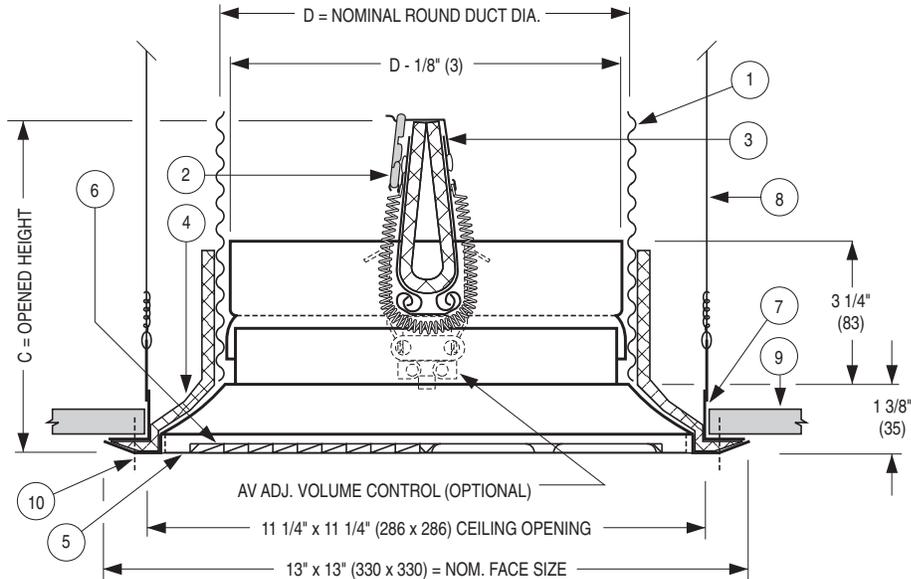
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
11 - 24 - 16	4000	5 - 11 - 15	4000-6C



FIRE RATED CEILING DIFFUSER
PERFORATED FACE • SURFACE MOUNT •
STEEL • ROUND NECK
MODELS: 4070 AND 4070R TYPE S

12 x 12 (300 x 300) SURFACE MOUNT MODULE FOR HARD CEILINGS.



Listed Neck Size	Imperial Modules		SI Units (mm)		Metric Modules		
	Imperial Units (inches)		SI Units (mm)		SI Units (mm)		
	CM = 12 x 12	CM = 305 x 305	CM = 300 x 300	D	C	D	C
6	6	5 7/8	152	149	152	149	
8	8	6 7/8	203	175	203	175	

MODEL 4070 (SUPPLY)

12 x 12 (300 x 300) module
 Type S Surface Mount Frame

MODEL 4070R (RETURN)

12 x 12 (300 x 300) module
 Type S Surface Mount Frame

ITEMS:

1. Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
2. U.L. Listed fusible link. 212°F (100°C) standard.
3. Ceiling radiation damper/fire stop flap.
4. Ceramic fibre thermal blanket.
5. Corrosion resistant steel diffuser.
6. Adjustable pattern controllers (supply models only).
7. Mounting support frame.
8. Hanger wires (by others).
9. Ceiling membrane.
10. Mounting screws.

2. The discharge pattern on the supply model is 1, 2, 3, or 4-way horizontal and is adjusted by dropping the perforated face and rotating the pattern deflectors. The return model is furnished without pattern controllers. Removable face has spring clips for easy access to the damper.
3. Excellent for VAV systems.
4. The perforated face has 3/16" (5) dia. holes on 1/4" (6) staggered centers.
5. Standard finish is AW Appliance White.

DESCRIPTION:

1. Classified by Underwriters' Laboratories of Canada (ULC) for use in ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate air ducts and a hard (gypsum board) ceiling membrane with up to a 3 hour rating. For details of fire rated assemblies, see the current ULC Fire Resistance Directory. The use of this product in fire-rated ceilings with ceiling membrane protection and/or ULC Classified assemblies in the U.S.A. requires local approval by the authority having jurisdiction.

OPTIONS:

1. AV Fusible link adjustable volume control (Model 0722A damper).
2. Non-standard temperature U.L. Listed fusible link. 165°F (74°C)
3. Finish: SP Special

For installation instructions, see IOM-FRDSMINST.

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
11 - 11 - 15	4000	5 - 11 - 15	4000-9

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

NAILOR POWDER COAT PROPERTIES

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

ELECTROCOATING PROPERTIES

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


POWDER COAT

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

ELECTROCOATING

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

CLEAR ANODIZING (Aluminum products only)

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

COLOR ANODIZING (Aluminum products only)

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

BRUSHED AND CLEAR COAT

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

#4 BRUSHED SATIN POLISHED (Stainless Steel products only)

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

PRIME COAT

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

PAINT PREPARED ALUMINUM (Aluminum products only)

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

MILL FINISH

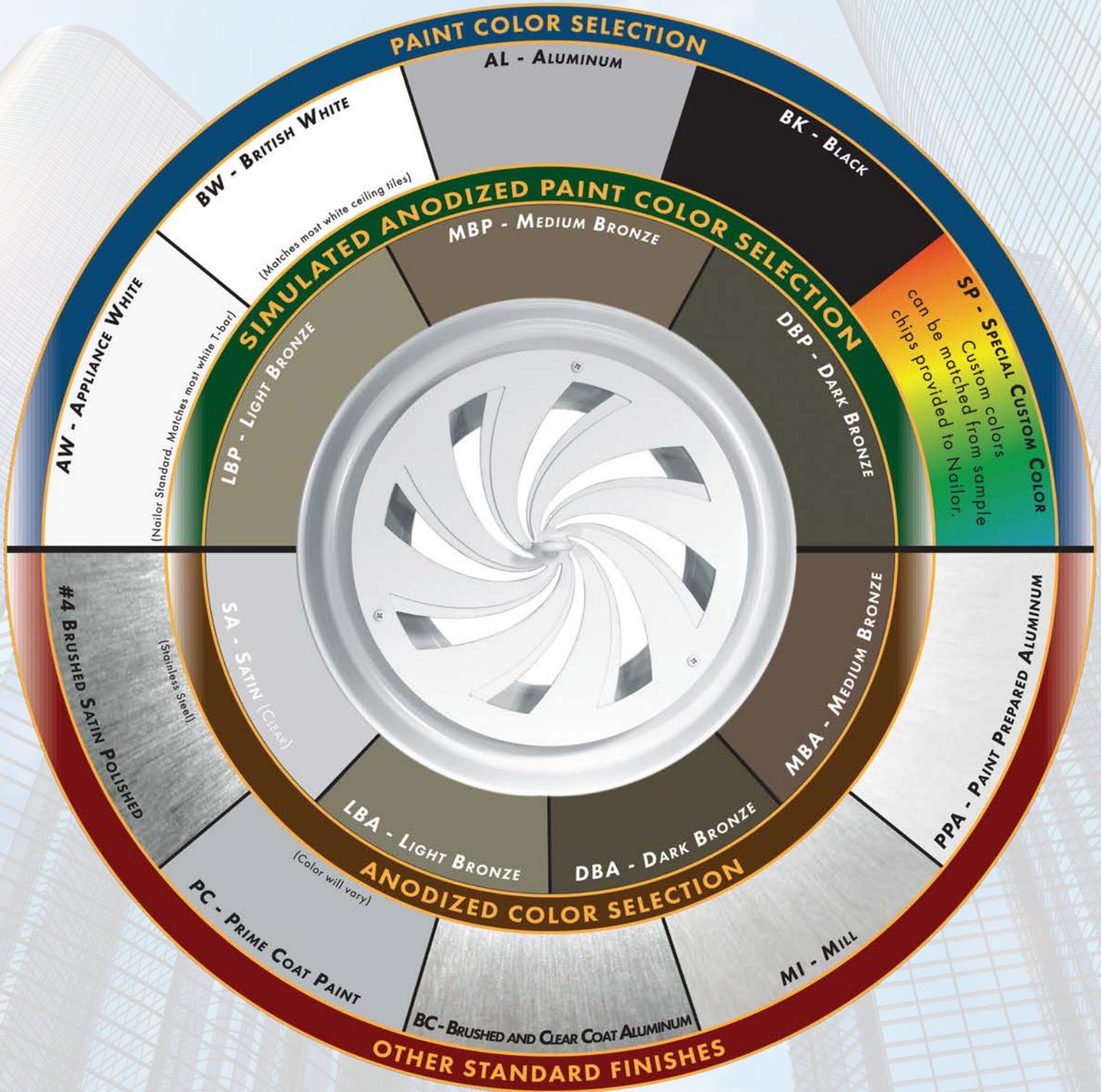
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



Nailor[®]
Industries Inc.

STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

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



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

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

"Complete Air Control and Distribution Solutions."

WGDSOF2015

www.nailor.com

PERFORMANCE DATA:

Models 4360, 4360A, 4360AA • Flush Face • Return Module
 4365, 4365A, 4365AA • Drop Face • Return Module

Ceiling Module	Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	1400	
		Negative Static Pressure	.024	.042	.067	.096	.130	.170	.266	.383	.522	
		Velocity Pressure	.006	.010	.016	.022	.031	.040	.062	.090	.122	
12 x 12	6" Dia.	Airflow, CFM	59	78	98	118	137	157	196	236	275	
		Noise Criteria	—	—	—	10	14	18	27	32	38	
	8 x 8	Airflow, CFM	75	100	125	150	175	200	250	300	350	
		Noise Criteria	—	—	—	12	17	21	30	35	41	
	8" Dia.	Airflow, CFM	105	140	175	209	244	279	349	419	489	
		Noise Criteria	—	—	10	16	21	25	32	39	44	
	8 x 8	Airflow, CFM	133	178	222	267	311	356	444	533	622	
		Noise Criteria	—	—	11	17	22	26	33	40	45	
	10 x 10	Airflow, CFM	208	278	347	416	486	556	694	833	972	
		Noise Criteria	—	—	18	24	29	33	40	47	52	
	20 x 20	18 x 18	Airflow, CFM	675	900	1125	1350	1575	1800	2250	2700	3150
			Noise Criteria	—	17	24	30	35	39	46	53	58
24 x 12	6" Dia.	Airflow, CFM	75	100	125	150	175	200	250	300	350	
		Noise Criteria	—	—	—	13	18	22	29	36	41	
	8" Dia.	Airflow, CFM	105	140	175	209	244	279	349	419	489	
		Noise Criteria	—	—	—	15	20	24	31	38	43	
	8 x 8	Airflow, CFM	133	178	222	267	311	356	444	533	622	
		Noise Criteria	—	—	10	16	21	25	32	39	44	
	18 x 6	Airflow, CFM	225	300	375	450	525	600	750	900	1050	
		Noise Criteria	—	—	14	20	25	28	35	42	47	
	22 x 10	Airflow, CFM	458	611	764	917	1069	1222	1528	1833	2139	
		Noise Criteria	—	15	21	27	34	37	44	51	56	
	24 x 24	6" Dia.	Airflow, CFM	59	79	98	118	137	157	196	236	275
			Noise Criteria	—	—	—	10	15	19	26	33	38
6 x 6		Airflow, CFM	75	100	125	150	175	200	250	300	350	
		Noise Criteria	—	—	—	12	17	21	28	35	41	
8" Dia.		Airflow, CFM	105	140	175	209	244	279	349	419	489	
		Noise Criteria	—	—	—	14	19	23	30	37	42	
8 x 8		Airflow, CFM	133	178	222	267	311	356	444	533	622	
		Noise Criteria	—	—	—	15	20	24	31	38	43	
10" Dia.		Airflow, CFM	164	218	273	327	382	436	545	655	764	
		Noise Criteria	—	—	10	16	21	25	32	39	44	
10 x 10		Airflow, CFM	208	278	347	417	486	556	694	833	972	
		Noise Criteria	—	—	11	17	22	26	33	40	45	
12" Dia.		Airflow, CFM	236	314	393	471	550	628	785	942	1100	
		Noise Criteria	—	—	13	19	24	28	35	42	47	
12 x 12		Airflow, CFM	300	400	500	600	700	800	1000	1200	1400	
		Noise Criteria	—	—	14	20	25	29	36	43	48	
14" Dia.		Airflow, CFM	321	428	535	641	748	855	1069	1283	1497	
		Noise Criteria	—	—	15	21	26	30	37	44	49	
14 x 14		Airflow, CFM	408	544	681	817	953	1089	1361	1633	1906	
		Noise Criteria	—	10	17	23	28	32	39	46	51	
15 x 15		Airflow, CFM	469	625	781	938	1094	1250	1563	1875	2188	
		Noise Criteria	—	12	19	25	30	34	41	48	53	
16" Dia.		Airflow, CFM	419	559	698	838	977	1117	1396	1676	1955	
		Noise Criteria	—	10	17	23	28	32	39	46	51	
18" Dia.	Airflow, CFM	530	707	884	1060	1237	1414	1767	2121	2474		
	Noise Criteria	—	12	19	25	30	32	39	46	51		
18 x 18	Airflow, CFM	675	900	1125	1350	1575	1800	2250	2700	3150		
	Noise Criteria	—	16	23	29	34	38	45	52	57		
22 x 22	Airflow, CFM	1008	1344	1681	2017	2353	2689	3361	4033	4706		
	Noise Criteria	—	18	25	31	36	40	47	51	59		
48 x 24	46 x 22	Airflow, CFM	2108	2811	3514	4217	4919	5622	7028	8433	9839	
		Noise Criteria	11	20	27	34	38	43	50	57	62	

Performance Notes:

- All pressures are in inches w.g..
- Noise Criteria (NC) values are based

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

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

PERFORMANCE DATA:

Models 4320, 4320A, 4320AA • Flush Face • 12 x 12 (300 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.012	.020	.032	.046	.063	.082	.128	.185	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
		1-Way	1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19
Noise Criteria	—	—	—	19	24	28	35	41		
8" Dia.	Total Pressure	.014	.022	.035	.049	.065	.086	.132	.194	
	Flow Rate, CFM	105	140	175	210	245	280	350	420	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
		1-Way	1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19
Noise Criteria	—	—	16	22	27	31	38	44		
6 x 6	Total Pressure	.013	.022	.036	.052	.074	.092	.143	.206	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
		1-Way	1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22
Noise Criteria	—	—	16	22	27	31	38	44		
8 x 8	Total Pressure	.015	.026	.041	.059	.080	.104	.162	.234	
	Flow Rate, CFM	135	175	220	265	310	355	440	530	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
		1-Way	1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22
Noise Criteria	—	12	19	25	30	34	41	47		

Models 4320, 4320A, 4320AA • Flush Face • 24 x 12 (600 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.012	.020	.032	.046	.063	.082	.128	.185	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
		1-Way	1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19
Noise Criteria	—	—	—	19	24	28	35	41		
8" Dia.	Total Pressure	.014	.022	.035	.049	.065	.086	.132	.194	
	Flow Rate, CFM	105	140	175	210	245	280	350	420	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
		1-Way	1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19
Noise Criteria	—	—	16	22	27	31	38	44		
6 x 6	Total Pressure	.013	.022	.036	.052	.074	.092	.143	.206	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
		1-Way	1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22
Noise Criteria	—	—	16	22	27	31	38	44		
8 x 8	Total Pressure	.015	.026	.041	.059	.080	.104	.162	.234	
	Flow Rate, CFM	135	175	220	265	310	355	440	530	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
		1-Way	1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22
Noise Criteria	—	12	19	25	30	34	41	47		

For performance notes, see page D160.

PERFORMANCE DATA:

Models 4320, 4320A, 4320AA • Flush Face • 24 x 24 (600 x 600) and 48 x 24 (1200 x 600)
Module Size • Round Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.012	.020	.032	.046	.062	.082	.128	.185	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
1-Way		1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19	
Noise Criteria	—	—	10	18	21	25	32	38		
8" Dia.	Total Pressure	.015	.026	.042	.060	.082	.107	.167	.241	
	Flow Rate, CFM	104	139	174	209	244	279	349	418	
	Throw	4-Way	1-1-2	1-1-3	1-1-5	1-2-6	1-2-7	1-3-8	2-5-10	3-6-12
		3-Way	1-1-4	1-2-6	1-3-8	2-4-10	2-5-11	3-6-13	5-8-17	6-10-20
		2-Way	1-1-6	1-3-9	2-4-11	3-6-13	4-8-16	5-9-18	7-11-22	9-13-24
1-Way		1-2-8	1-4-11	2-6-14	4-8-16	5-9-19	7-11-22	9-14-26	11-16-29	
Noise Criteria	—	11	16	22	27	31	38	44		
10" Dia.	Total Pressure	.019	.033	.053	.075	.102	.135	.210	.302	
	Flow Rate, CFM	163	218	272	327	381	436	545	654	
	Throw	4-Way	1-1-3	1-1-5	1-2-7	1-3-8	2-4-10	2-5-11	4-7-14	5-8-17
		3-Way	1-1-7	1-3-9	2-5-11	3-7-14	4-8-16	5-9-18	7-11-23	9-14-27
		2-Way	1-2-9	2-5-12	3-7-15	5-9-19	7-11-22	8-12-26	10-15-32	12-19-34
1-Way		1-3-11	3-7-15	4-9-19	7-11-23	9-13-28	10-15-31	12-19-36	15-23-39	
Noise Criteria	—	16	21	27	32	36	43	49		
12" Dia.	Total Pressure	.022	.040	.063	.091	.124	.162	.253	.364	
	Flow Rate, CFM	235	314	392	471	549	628	785	942	
	Throw	4-Way	1-1-5	1-2-7	1-3-9	2-5-11	3-6-13	4-7-14	6-9-18	7-11-22
		3-Way	1-2-9	2-5-12	3-7-15	5-9-18	6-10-21	8-12-24	10-15-31	12-18-36
		2-Way	1-4-12	3-7-16	5-10-20	7-12-24	9-14-29	10-16-33	13-20-41	16-24-44
1-Way		2-6-14	4-9-19	7-12-24	9-14-30	11-17-35	13-19-40	16-24-46	19-30-50	
Noise Criteria	—	19	25	31	36	40	47	53		
14" Dia.	Total Pressure	.026	.047	.073	.105	.143	.187	.292	.420	
	Flow Rate, CFM	318	424	530	636	742	848	1060	1272	
	Throw	4-Way	1-1-6	1-3-9	2-5-11	3-6-13	4-8-16	5-9-18	7-11-23	9-13-28
		3-Way	1-4-11	3-7-14	4-9-18	7-11-22	8-13-27	9-14-30	12-18-38	14-22-44
		2-Way	2-6-15	4-10-20	7-12-26	10-15-31	11-17-36	13-20-41	16-26-50	20-31-54
1-Way		3-8-18	6-12-24	10-15-31	12-18-38	14-21-44	16-24-50	20-30-57	24-38-62	
Noise Criteria	13	23	29	35	40	44	51	57		
15" Dia.	Total Pressure	.029	.052	.081	.117	.159	.208	.324	.467	
	Flow Rate, CFM	370	490	615	740	860	985	1225	1475	
	Throw	4-Way	1-1-6	1-3-9	2-5-11	3-6-13	4-8-16	5-9-18	7-11-23	9-13-28
		3-Way	1-4-11	3-7-14	4-9-18	7-11-22	8-13-27	9-14-30	12-18-38	14-22-44
		2-Way	2-6-15	4-10-20	7-12-26	10-15-31	11-17-36	13-20-41	16-26-50	20-31-54
1-Way		3-8-18	6-12-24	10-15-31	12-18-38	14-21-44	16-24-50	20-30-57	24-38-62	
Noise Criteria	15	25	31	37	42	46	53	59		
16" Dia.	Total Pressure	.032	.058	.090	.129	.175	.229	.359	.517	
	Flow Rate, CFM	418	558	698	837	977	1116	1396	1675	
	Throw	4-Way	1-3-10	2-5-13	3-8-15	5-10-16	7-12-22	9-13-19	12-15-21	13-16-23
		3-Way	3-5-9	5-7-10	6-8-11	7-9-12	8-9-13	8-10-14	9-11-16	10-12-18
		2-Way	2-5-11	4-8-13	6-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22
1-Way		7-12-21	11-17-24	14-29-28	17-21-31	18-23-33	20-24-36	22-28-40	24-31-43	
Noise Criteria	16	26	32	38	43	47	54	60		

For performance notes, see page D160.

PERFORMANCE DATA:

Models 4320, 4320A, 4320AA • Flush Face • 24 x 24 (600 x 600) and 48 x 24 (1200 x 600)
Module Size • Square Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6 x 6	Total Pressure	.013	.022	.036	.052	.070	.092	.143	.206	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
1-Way		1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22	
Noise Criteria	—	—	12	20	23	27	34	40		
8 x 8	Total Pressure	.018	.030	.048	.069	.094	.123	.191	.276	
	Flow Rate, CFM	133	177	222	266	310	355	444	532	
	Throw	4-Way	1-1-2	1-1-4	1-1-6	1-2-7	1-3-8	2-4-9	3-6-12	4-7-14
		3-Way	1-1-5	1-2-8	1-4-10	2-5-12	3-7-14	4-8-16	6-10-20	8-12-24
		2-Way	1-2-8	1-4-10	2-6-13	4-8-16	5-9-19	7-10-21	9-13-27	10-16-30
1-Way		1-3-9	2-5-13	3-8-16	5-9-19	7-11-23	8-13-27	11-16-31	13-19-34	
Noise Criteria	—	14	19	25	30	34	41	47		
10 x 10	Total Pressure	.021	.038	.059	.086	.116	.152	.237	.341	
	Flow Rate, CFM	208	277	347	416	485	555	694	832	
	Throw	4-Way	1-1-4	1-2-6	1-3-8	2-4-10	2-5-11	3-6-13	5-8-16	6-10-20
		3-Way	1-2-8	1-4-11	3-6-13	4-8-16	5-9-19	7-11-22	9-13-28	11-16-33
		2-Way	1-3-11	3-6-14	4-9-18	6-11-22	8-13-27	9-14-30	12-18-37	14-22-40
1-Way		2-5-13	4-9-18	6-11-22	9-13-28	10-16-33	12-18-37	15-22-42	18-28-46	
Noise Criteria	—	17	24	30	35	39	45	52		
12 x 12	Total Pressure	.025	.046	.071	.103	.140	.183	.286	.411	
	Flow Rate, CFM	300	400	500	600	700	800	1000	1200	
	Throw	4-Way	1-1-6	1-3-8	2-4-11	3-6-13	4-7-15	5-8-17	7-11-22	8-13-27
		3-Way	1-3-10	2-6-14	4-9-18	6-10-21	8-12-26	9-14-29	11-18-37	14-21-42
		2-Way	2-5-14	4-9-19	7-12-24	9-14-30	11-17-35	13-19-40	16-24-47	19-30-52
1-Way		3-8-17	6-11-23	9-14-30	11-17-36	13-20-42	15-23-48	19-30-54	23-36-59	
Noise Criteria	12	21	28	34	39	43	49	56		
14 x 14	Total Pressure	.031	.055	.086	.124	.169	.221	.345	.497	
	Flow Rate, CFM	410	545	680	815	955	1090	1360	1635	
	Throw	4-Way	1-1-6	1-3-8	2-4-11	3-6-13	4-7-15	5-8-17	7-11-22	8-13-27
		3-Way	1-3-10	2-6-14	4-9-18	6-10-21	8-12-26	9-14-29	11-18-37	14-21-42
		2-Way	2-5-14	4-9-19	7-12-24	9-14-30	11-17-35	13-19-40	16-24-47	19-30-52
1-Way		3-8-17	6-11-23	9-14-30	11-17-36	13-20-42	15-23-48	19-30-54	23-36-59	
Noise Criteria	15	24	31	37	42	46	52	59		

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 10⁻¹² watts. Dash (—) in spaces indicates an Noise Criteria level of less than 10.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

Neck Size Square in Inches	Nominal Overall Face Size	Ak Factor
6 x 6	12 x 12	.2345
8 x 8	12 x 12	.3461
6 x 6	24 x 24	.6932
8 x 8	24 x 24	.7620
10 x 10	24 x 24	.7995
12 x 12	24 x 24	.8465
14 x 14	24 x 24	.8993

Neck Size Diameter in Inches	Nominal Overall Face Size	Ak Factor
6	12 x 12	.2289
8	12 x 12	.3461
6	24 x 24	.6010
8	24 x 24	.6854
10	24 x 24	.7283
12	24 x 24	.7651
14	24 x 24	.8102
15	24 x 24	.8389

PERFORMANCE DATA:

Models 4325, 4325A, 4325AA • Drop Face • 12 x 12 (300 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.009	.016	.025	.036	.049	.063	.099	.143	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-3	1-2-4	1-2-4	2-3-6	2-3-6
		3-Way	1-1-2	1-1-3	1-2-4	1-2-5	1-3-6	2-3-7	3-4-9	3-5-9
		2-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-3-7	2-4-8	3-5-11	4-6-12
1-Way		1-1-4	1-2-6	1-3-7	2-4-9	3-5-10	4-6-12	5-7-15	6-9-16	
Noise Criteria	—	—	—	16	21	25	32	38		
8" Dia.	Total Pressure	.010	.017	.026	.037	.051	.067	.104	.150	
	Flow Rate, CFM	105	140	175	210	245	280	350	420	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
1-Way		1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19	
Noise Criteria	—	—	14	20	25	29	36	42		
6 x 6	Total Pressure	.010	.019	.028	.041	.056	.072	.113	.163	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-2	1-1-3	1-1-3	1-2-4	1-2-5	2-3-6	2-3-7	3-4-7
		3-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-4-8	3-4-9	3-5-10	4-6-11
		2-Way	1-1-4	1-2-5	1-3-7	2-4-8	3-4-9	3-5-11	4-7-13	5-8-14
1-Way		1-1-5	1-3-7	2-4-9	3-5-11	4-6-13	5-7-15	6-9-17	7-11-19	
Noise Criteria	—	—	13	19	24	28	35	41		
8 x 8	Total Pressure	.012	.021	.032	.046	.063	.082	.128	.185	
	Flow Rate, CFM	135	175	220	265	310	355	440	530	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
1-Way		1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22	
Noise Criteria	—	10	17	23	28	32	39	45		

Models 4325, 4325A, 4325AA • Drop Face • 24 x 12 (600 x 300) Module Size

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.009	.016	.025	.036	.049	.063	.099	.143	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-3	1-2-4	1-2-4	2-3-6	2-3-6
		3-Way	1-1-2	1-1-3	1-2-4	1-2-5	1-3-6	2-3-7	3-4-9	3-5-9
		2-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-3-7	2-4-8	3-5-11	4-6-12
1-Way		1-1-4	1-2-6	1-3-7	2-4-9	3-5-10	4-6-12	5-7-15	6-9-16	
Noise Criteria	—	—	—	16	21	25	32	38		
8" Dia.	Total Pressure	.010	.017	.026	.037	.051	.067	.104	.150	
	Flow Rate, CFM	105	140	175	210	245	280	350	420	
	Throw	4-Way	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-3-6	1-4-8
		3-Way	1-1-2	1-1-4	1-1-5	1-2-6	1-3-7	1-4-8	2-5-11	4-6-13
		2-Way	1-1-3	1-1-6	1-2-7	1-3-9	2-4-10	2-6-12	4-7-15	6-9-16
1-Way		1-1-4	1-2-7	1-3-9	2-4-11	2-6-13	3-7-14	6-9-17	7-11-19	
Noise Criteria	—	—	14	20	25	29	36	42		
6 x 6	Total Pressure	.013	.022	.036	.052	.074	.092	.143	.206	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
1-Way		1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22	
Noise Criteria	—	—	13	19	24	28	35	41		
8 x 8	Total Pressure	.012	.021	.032	.046	.063	.082	.128	.185	
	Flow Rate, CFM	135	175	220	265	310	355	440	530	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-4	1-1-5	1-2-6	1-3-8	2-4-9
		3-Way	1-1-3	1-1-5	1-2-6	1-3-8	1-4-9	2-5-10	3-6-13	5-8-16
		2-Way	1-1-4	1-2-7	1-3-9	2-4-10	2-6-12	3-7-14	5-9-18	7-10-19
1-Way		1-1-6	1-2-8	2-4-11	2-6-13	3-7-15	5-8-17	7-11-20	8-13-22	
Noise Criteria	—	10	17	23	28	32	39	45		

For performance notes, see page D163.

PERFORMANCE DATA:

Models 4325, 4325A, 4325AA • Drop Face • 24 x 24 (600 x 600) Module Size • Round Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6" Dia.	Total Pressure	.009	.016	.025	.036	.049	.063	.099	.143	
	Flow Rate, CFM	58	78	98	117	137	156	196	235	
	Throw	4-Way	1-1-1	1-1-2	1-1-3	1-1-3	1-2-4	1-2-4	2-3-6	2-3-6
		3-Way	1-1-2	1-1-3	1-2-4	1-2-5	1-3-6	2-3-7	3-4-9	3-5-9
		2-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-3-7	2-4-8	3-5-11	4-6-12
1-Way		1-1-4	1-2-6	1-3-7	2-4-9	3-5-10	4-6-12	5-7-15	6-9-16	
Noise Criteria	—	—	—	15	18	22	29	35		
8" Dia.	Total Pressure	.013	.021	.034	.049	.066	.087	.136	.195	
	Flow Rate, CFM	104	139	174	209	244	279	349	418	
	Throw	4-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-3-7	2-4-8	3-5-8	4-6-9
		3-Way	1-1-4	1-2-6	2-3-7	2-4-9	3-5-11	4-6-12	5-7-13	6-9-14
		2-Way	1-2-5	1-3-7	2-4-9	3-5-11	4-6-13	5-7-15	6-9-16	7-11-18
1-Way		1-2-7	2-4-10	3-6-12	4-7-15	6-9-18	6-10-19	8-12-21	10-15-23	
Noise Criteria	—	—	13	18	24	28	35	41		
10" Dia.	Total Pressure	.016	.027	.043	.061	.084	.109	.171	.245	
	Flow Rate, CFM	163	218	272	327	381	436	545	654	
	Throw	4-Way	1-1-4	1-3-6	2-3-7	3-4-9	3-5-10	4-6-10	5-7-12	6-9-13
		3-Way	1-2-7	2-4-9	3-6-12	4-7-14	5-8-15	6-9-16	8-12-18	9-14-20
		2-Way	1-3-8	2-5-11	4-7-14	5-8-17	6-10-19	7-11-20	9-14-22	11-17-26
1-Way		2-4-11	3-7-15	6-9-19	7-11-23	9-13-26	10-15-28	13-19-31	15-23-34	
Noise Criteria	—	13	18	24	29	33	40	46		
12" Dia.	Total Pressure	.019	.033	.052	.074	.101	.132	.207	.297	
	Flow Rate, CFM	235	314	392	471	549	628	785	942	
	Throw	4-Way	1-3-6	2-4-9	3-5-11	4-6-12	5-7-13	6-9-14	7-11-15	9-12-17
		3-Way	2-4-10	3-6-13	5-8-16	6-10-18	7-11-19	9-13-20	11-16-23	13-18-26
		2-Way	2-5-12	4-8-16	6-10-20	8-12-22	9-14-24	11-16-22	13-20-30	16-22-33
1-Way		3-7-16	6-11-22	9-14-28	11-16-30	13-19-33	14-22-35	18-28-39	22-30-43	
Noise Criteria	—	17	23	29	34	38	45	51		
14" Dia.	Total Pressure	.021	.038	.059	.086	.117	.153	.239	.344	
	Flow Rate, CFM	318	424	530	636	742	848	1060	1272	
	Throw	4-Way	2-4-8	3-5-11	4-7-13	5-8-14	6-10-16	7-11-17	9-13-19	11-14-21
		3-Way	3-6-13	5-9-18	7-11-20	9-13-22	10-15-24	12-18-26	15-20-29	18-23-32
		2-Way	3-8-16	6-11-22	9-13-26	11-16-28	12-19-31	14-22-33	18-27-36	22-28-40
1-Way		5-11-22	9-14-30	12-18-35	14-22-38	17-27-41	19-30-44	24-35-49	30-38-51	
Noise Criteria	10	20	28	32	37	41	48	54		
15" Dia.	Total Pressure	.022	.040	.062	.091	.127	.171	.265	.366	
	Flow Rate, CFM	370	490	615	740	860	985	1225	1475	
	Throw	4-Way	2-4-7	3-5-10	4-7-12	5-8-14	6-9-15	7-10-17	9-12-19	10-13-21
		3-Way	3-6-13	5-9-19	7-10-19	9-12-22	10-15-23	12-18-26	14-19-29	18-22-32
		2-Way	3-8-15	6-11-21	8-12-26	11-15-28	11-19-30	13-21-32	18-27-35	21-27-40
1-Way		5-10-21	8-14-29	11-17-34	13-21-36	17-26-40	18-29-42	24-34-47	28-36-50	
Noise Criteria	12	22	28	34	39	43	50	56		
16" Dia.	Total Pressure	.025	.045	.070	.100	.137	.179	.280	.403	
	Flow Rate, CFM	418	558	698	837	977	1116	1396	1675	
	Throw	4-Way	3-5-11	5-7-15	6-9-17	7-11-18	8-13-20	10-15-21	12-17-24	15-18-27
		3-Way	2-6-13	4-9-17	7-11-19	9-13-21	10-16-22	12-17-24	15-19-28	17-21-30
		2-Way	2-6-13	4-9-17	7-11-19	9-13-21	10-16-22	12-17-24	15-19-28	17-21-30
1-Way		7-12-23	12-17-27	15-21-31	18-23-34	20-26-36	22-27-39	24-31-43	26-34-47	
Noise Criteria	13	23	29	35	40	44	51	57		

For performance notes, see page D163.

PERFORMANCE DATA:

Models 4325, 4325A, 4325AA • Drop Face • 24 x 24 (600 x 600) Module Size • Square Neck

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	1000	1200	
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.063	.090	
6 x 6	Total Pressure	.010	.019	.028	.041	.056	.072	.113	.163	
	Flow Rate, CFM	75	100	125	150	175	200	250	300	
	Throw	4-Way	1-1-2	1-1-3	1-1-3	1-2-4	1-2-5	2-3-6	2-3-7	3-4-7
		3-Way	1-1-3	1-1-4	1-2-5	1-3-6	2-4-8	3-4-9	3-5-10	4-6-11
		2-Way	1-1-4	1-2-5	1-3-7	2-4-8	3-4-9	3-5-11	4-7-13	5-8-14
1-Way		1-1-5	1-3-7	2-4-9	3-5-11	4-6-13	5-7-15	6-9-17	7-11-19	
Noise Criteria	—	—	—	17	20	24	31	37		
8 x 8	Total Pressure	.014	.024	.038	.056	.075	.098	.153	.220	
	Flow Rate, CFM	133	177	222	266	310	355	444	532	
	Throw	4-Way	1-1-3	1-2-5	1-3-6	2-3-7	3-4-8	3-5-9	4-6-10	5-7-11
		3-Way	1-2-5	1-3-7	2-4-9	3-5-11	4-6-13	5-7-14	6-9-15	7-11-17
		2-Way	1-2-7	2-4-9	3-6-12	4-7-14	5-8-16	6-9-17	8-12-19	9-14-21
1-Way		1-3-9	3-6-13	4-8-16	6-9-19	7-11-21	8-13-23	10-16-27	13-19-29	
Noise Criteria	—	11	16	22	27	31	38	44		
10 x 10	Total Pressure	.018	.031	.049	.069	.095	.124	.193	.278	
	Flow Rate, CFM	208	277	347	416	485	555	694	832	
	Throw	4-Way	1-2-5	2-3-7	3-4-9	3-5-11	4-6-12	5-7-12	6-9-14	7-11-15
		3-Way	1-4-8	3-5-11	4-7-14	5-8-16	6-10-18	7-11-19	9-14-21	11-16-23
		2-Way	2-5-11	4-7-14	6-9-18	7-11-20	8-13-22	9-14-24	12-18-28	14-20-30
1-Way		3-6-14	5-9-19	8-12-24	9-14-28	11-17-30	13-19-32	16-24-36	19-28-39	
Noise Criteria	—	14	21	27	32	36	42	49		
12 x 12	Total Pressure	.02	.037	.058	.084	.114	.149	.233	.335	
	Flow Rate, CFM	300	400	500	600	700	800	1000	1200	
	Throw	4-Way	1-4-8	3-5-11	4-7-13	5-8-14	6-9-15	7-11-16	9-13-18	11-14-20
		3-Way	2-6-12	5-8-17	7-10-19	8-12-21	10-15-23	11-17-24	14-19-28	17-21-31
		2-Way	3-7-15	6-10-21	8-13-24	10-15-27	12-18-29	14-21-32	17-24-35	21-27-38
1-Way		4-10-21	8-14-29	11-17-33	14-21-36	16-24-39	18-29-42	23-33-46	28-36-51	
Noise Criteria	—	18	25	31	36	40	46	53		
14 x 14	Total Pressure	.025	.046	.071	.103	.140	.183	.286	.411	
	Flow Rate, CFM	408	544	681	817	953	1089	1361	1633	
	Throw	4-Way	1-1-6	1-3-8	2-4-11	3-6-13	4-7-15	5-8-17	7-11-22	8-13-27
		3-Way	1-3-10	2-6-14	4-9-18	6-10-21	8-12-26	9-14-29	11-18-37	14-21-42
		2-Way	2-5-14	4-9-19	7-12-24	9-14-30	11-17-35	13-19-40	16-24-47	19-30-52
1-Way		3-8-17	6-11-23	9-14-30	11-17-36	13-20-42	15-23-48	19-30-54	23-36-59	
Noise Criteria	12	21	28	34	39	43	49	56		

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

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

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.