

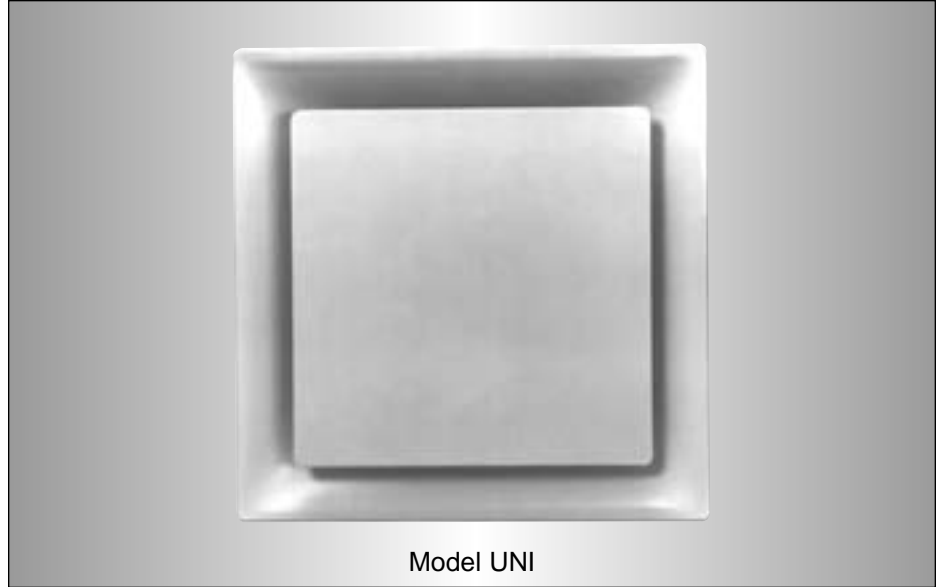
## ARCHITECTURAL CEILING DIFFUSERS

- HIGH PERFORMANCE
- SQUARE FACE
- ROUND NECK

### Models:

**UNI Steel**

**AUNI Aluminum**



The **Nailor Model Series 'UNI' Square Ceiling Air Diffuser** has been specially designed to provide both the unobtrusive appearance required for architectural excellence and the 360° diffusion pattern at minimum NC levels required for high engineering performance. The stamped one-piece outer cone eliminates mitered corners and the die-formed curves provide consistent quality and performance.

The **UNI** diffuser compliments any decor, blending beautifully with virtually any architectural style or requirement. The **UNI** diffuser provides stable diffusion and mixing patterns under constant and changing load conditions and is particularly suitable for variable air volume systems.

The **UNI** diffusers are available to suit many situations including surface mount, T-Bar lay-in and panel applications. Standard finish is a high quality baked enamel for long life and easy cleaning. A variety of neck sizes are available to suit your system design. The collar is a full 1 1/4" (32) in height for easy, secure connection.

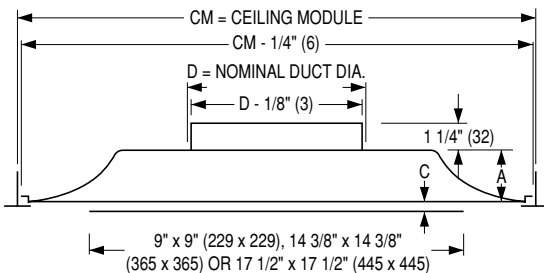
### FEATURES:

- Engineered air diffusion pattern.
- Steel stamped shapes for uniformity.
- High neck collars for solid connection.
- Removable inner core.
- Face panel is virtually flush with the ceiling line.
- Face panel is double-skinned for rigidity and strength and features a hemmed edge for a professional finish.
- Unique neck bracketry is virtually invisible from most angles.
- An optional radial opposed blade damper with an operating arm to adjust the damper without removing the core is available.

**Material:** Heavy gauge, corrosion-resistant steel or aluminum with miscellaneous steel components.

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

### Type L Lay-in, T-Bar Frame



### Dimensional Data

CM		Imperial Units (inches)				Metric Units (mm)					
Imperial Modules	Metric Modules	Duct Size D	A	B	C	F	Duct Size D	A	B	C	F
24 x 24	600 x 600	6, 8, 10, 12, 14, 15	2 5/16	22	3/8	24 3/4	152, 203, 254, 305, 356, 381	59	519	10	629
20 x 20	500 x 500	6, 8, 10,	2 1/4	18 1/2	7/16	N/A	152, 203, 254	57	470	11	N/A
12 x 12	300 x 300	4 * 5, 6, 7, 8	1	11	5/8	13	102 * 127, 152, 178, 203	25	279	16	330

\* Supplied with a reducer.

The 20 x 20 (500 x 500) module is only available with the Type L frame.

## Dimensional Data and Frame Types Models UNI and AUNI

**Type PL Panel Mounted Lay-in T-Bar**

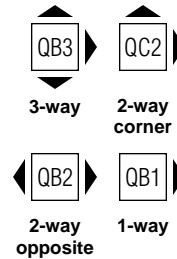
CM		Imperial Units (inches)					Metric Units (mm)				
Imperial Modules	Metric Modules	Face Size	Duct Size D	N	A	C	Face Size	Duct Size D	N	A	C
24 x 24	600 x 600	12	4 ★	3 1/4	1	5/8	300 x 300	102 ★	83	25	16
			5, 6, 7, 8	1 1/4				127, 152, 178, 203	32		
24 x 12	600 x 300	12	4 ★	3 1/4	1	5/8	300 x 300	102 ★	83	25	16
			5, 6, 7, 8	1 1/4				127, 152, 178, 203	32		
20 x 20	500 x 500	12	4 ★	3 1/4	1	5/8	300 x 300	102 ★	83	25	16
			5, 6, 7, 8	1 1/4				127, 152, 178, 203	32		
48 x 24	1200 x 600	24	6, 8, 10, 12, 14, 15	1 1/4	2 5/16	3/8	600 x 600	152, 203, 254, 305, 356, 381	32	59	10

★ Supplied with a reducer.

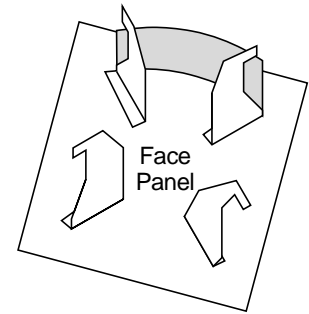
### Directional Blow Option • QB Quadrant Blanks

- Converts **UNI** from standard 4-way (360°) blow pattern to 1, 2 or 3-way.
- Supplied factory installed when specified or available loose for simple field installation.
- Installs between outer cone and face panel and locates between neck bracketry.
- Positive full depth blank-off follows neck circumference.

### Blow Patterns



### QB Illustration



**Type L Surface Mount**

Hard duct connection recommended.

**Type L Surface Mount with DFA**

Drywall/Plaster Frame. Recommended for flexible duct and ceiling access.

**Type S Surface Mount**

Aluminum model (AUNI) is only available in 12 x 12 (300 x 300) module. Hard duct connection recommended.

**Type F Fineline®**

**Type TL Tegular Lay-in**

**Type SP Spline**

Steel models only. For one directional exposed T-Bar or fully concealed grid. One spline on two opposite sides, steel lift bracket on others.

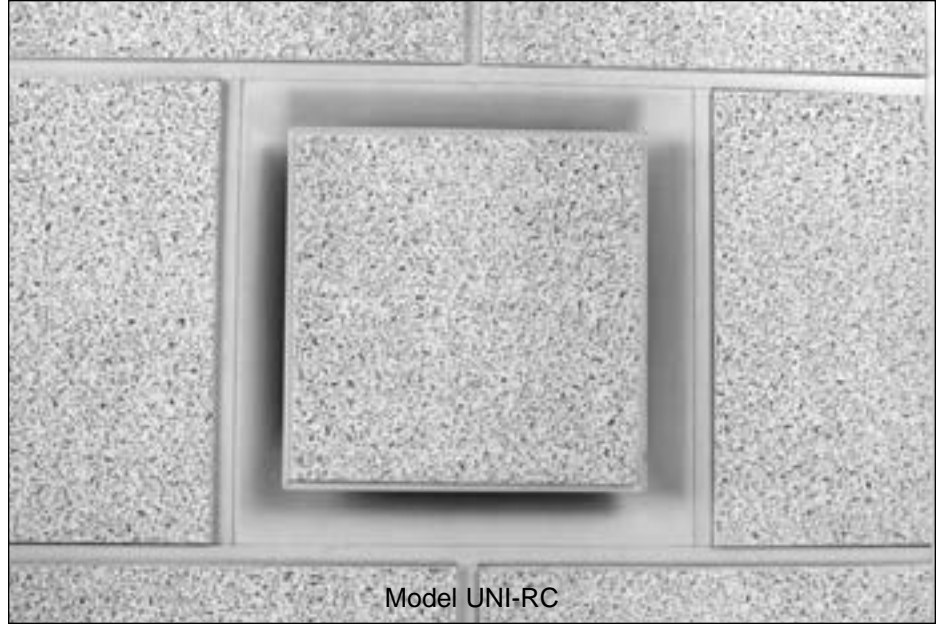
**Type M Metal Pan (Snap-in)**  
Steel models only

Fineline® is a registered trademark of USG Interiors Inc.

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CEILING DIFFUSERS

## ARCHITECTURAL OPTION

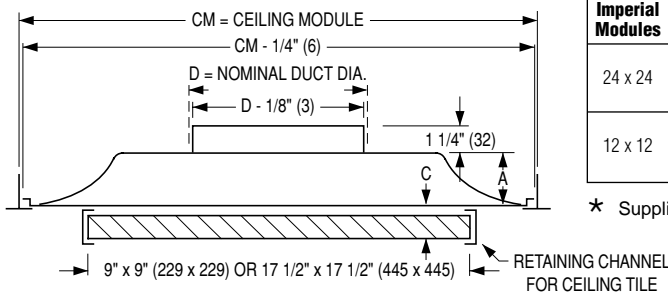
**Model:**  
**UNI with optional RC (retaining channel)**



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For a unique 'custom' appearance, specify the **UNI** diffuser with the optional RC Retaining Channel. The retaining channel is shipped separately for field installation of a ceiling tile. Simply cut the tile to size and install it directly on the face panel assembly. The RC Retaining Channel is supplied in two pieces with pop rivets for field assembly as standard. The result is a high performance diffuser that blends harmoniously with the specified architectural ceiling design. Tiles (supplied by others) can also be factory installed at additional cost.

### Type L Lay-in T-Bar Frame \*



### Dimensional Data

CM		Imperial Units (inches)				Metric Units (mm)					
Imperial Modules	Metric Modules	Duct Size D	A	B	C	F	Duct Size D	A	B	C	F
24 x 24	600 x 600	6, 8, 10, 12, 14, 15	2 5/16	22	1 1/8	24 3/4	152, 203, 254, 305, 356, 381	59	519	29	629
12 x 12	300 x 300	4 *	1	11	1 3/8	13	102 *	25	279	35	330
		5, 6, 7, 8					127, 152, 178, 203				

\* Supplied with a reducer.

\* Refer to previous page for other frame types and installations.

## HOW TO SPECIFY OR TO ORDER

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

### Square Architectural Ceiling Diffusers – Model Series UNI

UNI - 08 - 24 x 24 - L - AW - -

#### MODEL

- Steel UNI
- Aluminum AUNI

#### NECK SIZE (inches)

- 04, 05, 06, 07, 08,
- 10, 12, 14, 15

#### CEILING MODULE SIZE

Imperial (inches)	Metric (mm)
- 12 x 12	300 x 300
- 20 x 20	500 x 500
- 24 x 12 (PL only)	600 x 300 (PL only)
- 24 x 24	600 x 600
- 30 x 30 (PL only)	750 x 750 (PL only)
- 48 x 24 (PL only)	1200 x 600 (PL only)

#### FRAME STYLE

- T-Bar Lay-in L
- Surface Mount S
- Panel T-Bar Lay-in PL
- Spline SP
- Metal Pan Snap-In M
- Finline® F
- Tegular TL

#### ACCESSORIES

- None (default) —
- External Foil Back Insulation EX
- Earthquake Tabs EQT
- Quadrant Blanks
  - 3-Way Blow QB3
  - 2-Way Opposite Blow QB2
  - 2-Way Corner Blow QC2
  - 1-Way Blow QB1
- Retaining Channel RC
- Tile cut and fit CF

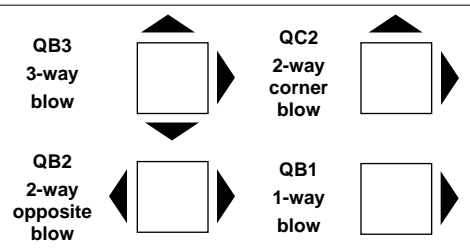
#### AIR BALANCING DEVICES

- Radial Sliding Blade Damper 4250
- Radial Opposed Blade Damper 4275
- Radial OBD with Operating Arm 4275-OA
- Butterfly Damper 4675
- Equalizing Grid EGR
- Damper/Equalizing Grid DEGR

#### FINISH

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

#### BLOW PATTERNS WITH OPTIONAL FACTORY INSTALLED QUADRANT BLANKS.



#### Notes:

- Face sizes 12" x 12" (300 x 300) and 24" x 12" (600 x 300) are available in a 4" (102) through 8" (203) neck, 20" x 20" (500 x 500) face size is available in a 6", 8" or 10" (152, 203 or 254) neck and 24" x 24" (600 x 600) face size is available in a 6" (152) through 15" (381) neck.
- Face size 20" x 20" (500 x 500) is available only in frame style L.
- Consult text as to limitations of material, module size and frame style combinations.

#### SUGGESTED SPECIFICATION:

##### UNI – Steel Construction

Furnish and install **Nailor Model UNI Square Architectural Ceiling Diffusers** of the sizes and capacities as shown on the plans and air distribution schedules. The diffuser shall have a corrosion-resistant steel, stamped outer cone. The inner core shall have a plaque style face. The face shall be double skinned with a hemmed edge. The inner core assembly is to be removable using a spring clip arrangement that permits quick, easy installation and removal. The finish shall be AW Appliance White baked enamel (optional finishes are available).

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

##### AUNI – Aluminum Construction

Furnish and install **Nailor Model AUNI Square Architectural Ceiling Diffusers** of the sizes and capacities as shown on the plans and air distribution schedules. The diffuser shall have a heavy gauge aluminum, stamped outer cone. The inner core shall have a plaque style face. The face shall be double skinned with a hemmed edge. The inner core assembly is to be removable using a spring clip arrangement that permits quick, easy installation and removal. The finish shall be AW Appliance White baked enamel (optional finishes are available).

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

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CEILING DIFFUSERS

## Performance Data

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 4-way Blow (360° Pattern)

Nominal Neck Size	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
		VP	.010	.016	.023	.031	.040	.051	.063	.090	.122
4" Dia.	TP	.023	.036	.051	.070	.091	.115	.142	.205	.279	.364
	Airflow, CFM	35	45	50	60	70	80	85	105	120	140
	T	1-2-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-4-7	3-5-7	4-6-7	5-7-8
	NC	—	—	—	13	17	21	24	30	35	40
5" Dia.	TP	.027	.043	.061	.083	.109	.138	.170	.245	.334	.436
	Airflow, CFM	55	70	80	95	110	125	135	165	190	220
	T	2-2-4	2-3-5	2-3-6	3-4-7	3-5-8	4-6-9	4-7-9	4-8-10	5-8-10	6-9-11
	NC	—	—	—	14	18	22	25	31	36	41
6" Dia.	TP	.033	.052	.074	.101	.131	.166	.205	.295	.402	.525
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	T	2-3-5	3-4-6	3-5-7	4-5-8	5-6-9	5-7-10	5-8-10	6-9-11	7-10-12	7-10-13
	NC	—	—	10	15	19	23	26	32	37	42
7" Dia.	TP	.056	.089	.127	.172	.225	.285	.352	.506	.689	.900
	Airflow, CFM	105	135	160	190	215	240	265	320	375	430
	T	3-4-6	3-5-7	4-6-9	4-7-10	5-8-10	6-8-11	6-9-12	7-10-13	8-11-14	9-12-15
	NC	—	—	11	16	20	24	27	33	38	43
8" Dia.	TP	.067	.105	.160	.205	.268	.340	.418	.600	.821	1.070
	Airflow, CFM	140	175	210	245	280	315	350	420	490	560
	T	3-5-7	4-6-9	5-7-10	6-8-11	6-9-12	7-9-13	7-10-14	8-11-15	9-12-16	9-12-17
	NC	—	—	12	17	21	25	28	34	39	44

### Models UNI and AUNI • 20 x 20 (500 x 500) Face Size • 4-way Blow (360° Pattern)

Nominal Neck Size	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
		VP	.010	.016	.023	.031	.040	.051	.063	.090	.122
6" Dia.	TP	.014	.021	.031	.042	.055	.070	.086	.124	.168	.220
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	T	1-3-5	2-3-4	2-4-5	2-4-6	2-5-6	3-4-7	3-5-8	4-6-9	4-6-10	5-6-10
	NC	—	—	—	—	14	18	22	28	34	39
8" Dia.	TP	.019	.029	.042	.057	.074	.094	.116	.167	.227	.296
	Airflow, CFM	140	175	210	245	280	315	350	420	490	560
	T	2-2-4	2-3-5	2-3-7	3-4-8	3-5-9	4-6-9	5-7-10	6-8-11	7-9-12	8-10-13
	NC	—	—	—	13	18	22	26	32	38	43
10" Dia.	TP	.031	.049	.071	.096	.126	.159	.196	.283	.385	.503
	Airflow, CFM	220	270	330	380	435	490	545	655	765	875
	T	3-4-7	3-5-9	3-5-10	4-6-12	5-7-13	6-8-12	7-9-14	8-11-15	10-12-17	11-13-18
	NC	—	—	10	16	21	25	29	35	41	46

For performance notes, see next page.

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## Performance Data

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 4-Way Blow (360° Pattern)

Nominal Neck Size	Neck Velocity, FPM										
	VP	400	500	600	700	800	900	1000	1200	1400	1600
<b>6" Dia.</b>	TP	.010	.020	.030	.041	.053	.068	.084	.120	.164	.214
	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>235</b>	<b>275</b>	<b>315</b>
	T	1-3-4	1-3-4	2-4-5	2-4-6	2-5-6	3-4-7	3-5-8	4-6-9	4-6-10	5-6-10
	NC	—	—	—	—	14	18	22	28	34	39
<b>8" Dia.</b>	TP	.018	.028	.037	.056	.072	.092	.112	.162	.220	.288
	Airflow, CFM	<b>140</b>	<b>175</b>	<b>210</b>	<b>245</b>	<b>280</b>	<b>315</b>	<b>350</b>	<b>420</b>	<b>490</b>	<b>560</b>
	T	2-2-4	2-3-5	2-3-7	3-4-8	3-5-9	4-6-9	5-7-10	6-8-11	7-9-12	8-10-13
	NC	—	—	—	13	18	22	26	32	38	43
<b>10" Dia.</b>	TP	.031	.048	.069	.093	.122	.155	.191	.275	.375	.489
	Airflow, CFM	<b>220</b>	<b>270</b>	<b>330</b>	<b>380</b>	<b>435</b>	<b>490</b>	<b>545</b>	<b>655</b>	<b>765</b>	<b>870</b>
	T	3-4-7	3-5-9	3-5-10	4-6-12	5-7-13	5-8-12	7-9-14	8-11-15	10-12-17	11-13-18
	NC	—	—	10	16	21	25	29	35	41	46
<b>12" Dia.</b>	TP	.040	.063	.090	.123	.161	.203	.251	.361	.492	.643
	Airflow, CFM	<b>315</b>	<b>390</b>	<b>470</b>	<b>550</b>	<b>630</b>	<b>705</b>	<b>785</b>	<b>940</b>	<b>1100</b>	<b>1255</b>
	T	4-5-10	4-7-13	5-8-14	7-9-16	8-11-17	8-12-17	10-14-19	11-15-20	14-17-23	16-18-25
	NC	—	—	13	19	24	28	32	38	44	49
<b>14" Dia.</b>	TP	.054	.083	.120	.163	.214	.270	.334	.481	.655	.855
	Airflow, CFM	<b>425</b>	<b>530</b>	<b>635</b>	<b>745</b>	<b>850</b>	<b>955</b>	<b>1060</b>	<b>1270</b>	<b>1490</b>	<b>1695</b>
	T	5-7-14	6-9-16	7-11-18	10-13-20	11-15-23	11-17-23	14-19-26	16-21-28	19-22-31	20-24-33
	NC	—	—	15	21	26	30	34	40	46	51
<b>15" Dia.</b>	TP	.065	.102	.147	.200	.260	.330	.408	.588	.799	1.044
	Airflow, CFM	<b>490</b>	<b>615</b>	<b>735</b>	<b>860</b>	<b>985</b>	<b>1110</b>	<b>1230</b>	<b>1470</b>	<b>1720</b>	<b>1970</b>
	T	6-9-17	7-11-19	9-13-21	11-16-24	14-19-26	14-20-27	16-21-30	19-24-33	23-26-35	23-27-38
	NC	—	—	16	22	27	31	35	41	47	52

- CFM** - cubic feet per minute
- FPM** - feet per minute velocity
- TP** - total pressure - inches w.g.
- VP** - velocity pressure - inches w.g.
- T** - throw in feet
- NC** - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

1. Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Neck Size Diameter in Inches	Nominal Overall Face Size	Ak Factor
<b>6</b>	12 x 12	0.105
<b>8</b>	12 x 12	0.129
<b>6</b>	24 x 24	0.206
<b>8</b>	24 x 24	0.248
<b>10</b>	24 x 24	0.315
<b>12</b>	24 x 24	0.384
<b>14</b>	24 x 24	0.437
<b>15</b>	24 x 24	0.485

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**CEILING DIFFUSERS**

## Performance Data

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 3-Way Blow

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1200	1400
	VP	.006	.010	.016	.023	.031	.040	.051	.063	.090	.122
6" Dia.	TP	.035	.061	.096	.138	.188	.245	.311	.383	.529	.725
	Airflow, CFM	60	80	100	120	140	160	180	200	235	275
	T	2-4-6	3-6-9	5-7-9	5-8-10	6-9-12	7-9-13	7-10-14	8-11-15	8-12-16	9-13-17
	NC	—	—	12	18	23	27	31	34	40	45
8" Dia.	TP	.076	.135	.211	.304	.414	.540	.684	.844	1.215	1.654
	Airflow, CFM	105	140	175	210	245	280	315	350	420	490
	T	3-5-7	5-7-10	5-8-11	6-9-12	7-10-13	7-10-14	8-11-15	9-12-16	9-12-17	10-13-18
	NC	—	—	14	20	25	29	33	36	42	47

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 3-Way Blow

Nominal Neck Size	Neck Velocity, FPM	300	400	500	600	700	800	900	1000	1200	1400
	VP	.006	.010	.016	.023	.031	.040	.051	.063	.090	.122
6" Dia.	TP	.010	.018	.028	.041	.055	.072	.091	.113	.155	.213
	Airflow, CFM	60	80	100	120	140	160	180	200	235	275
	T	1-3-4	1-3-4	2-4-5	2-5-6	3-4-7	4-5-8	4-6-9	4-6-10	5-6-10	6-7-11
	NC	—	—	—	11	17	22	26	30	36	42
8" Dia.	TP	.016	.028	.043	.062	.085	.111	.140	.173	.249	.339
	Airflow, CFM	105	140	175	210	245	280	315	350	420	490
	T	2-2-4	2-3-6	3-4-8	3-5-8	4-6-9	5-7-10	6-8-11	7-9-12	8-10-13	9-11-14
	NC	—	—	—	15	21	26	30	34	40	46
10" Dia.	TP	.032	.057	.085	.127	.169	.221	.281	.347	.501	.684
	Airflow, CFM	165	220	270	330	380	435	490	545	655	765
	T	3-4-7	3-5-9	4-6-10	5-7-11	5-8-12	7-10-13	8-11-15	9-12-16	11-13-18	12-14-19
	NC	—	—	—	18	24	29	33	37	43	49
12" Dia.	TP	.043	.077	.118	.171	.235	.308	.386	.478	.686	.939
	Airflow, CFM	235	315	390	470	550	630	705	785	940	1100
	T	4-5-10	5-7-13	6-9-15	8-11-17	9-13-18	10-14-19	11-15-20	13-16-22	16-18-25	18-21-28
	NC	—	—	12	21	27	32	36	40	46	52
14" Dia.	TP	.060	.106	.165	.237	.326	.425	.536	.661	.949	1.306
	Airflow, CFM	320	425	530	635	745	850	955	1060	1270	1490
	T	5-7-14	6-9-16	9-12-19	11-15-23	12-18-24	14-19-26	16-21-28	19-21-30	20-24-33	21-26-35
	NC	—	—	14	23	29	34	38	42	48	54
15" Dia.	TP	.074	.130	.205	.293	.401	.526	.668	.820	1.172	1.604
	Airflow, CFM	370	490	615	735	860	985	1110	1230	1470	1720
	T	6-9-17	8-12-20	11-16-24	14-19-26	14-20-27	17-22-31	19-24-33	22-25-35	23-27-38	24-29-40
	NC	—	—	15	24	30	35	39	43	49	55

**CFM** - cubic feet per minute

**FPM** - feet per minute velocity

**TP** - total pressure - inches w.g.

**VP** - velocity pressure - inches w.g.

**T** - throw in feet

**NC** - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

1. Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.

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

Neck Size Diameter in Inches	Nominal Overall Face Size	Ak Factor
6	12 x 12	0.079
8	12 x 12	0.098
6	24 x 24	0.155
8	24 x 24	0.186
10	24 x 24	0.236
12	24 x 24	0.288
14	24 x 24	0.328
15	24 x 24	0.364

## Performance Data

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 2-Way Blow

Nominal Neck Size	Neck Velocity, FPM	200	300	400	500	600	700	800	900	1000	1200
	VP	.003	.006	.010	.016	.023	.031	.040	.051	.063	.090
6" Dia.	TP	.032	.071	.126	.198	.284	.387	.506	.640	.790	1.091
	Airflow, CFM	40	60	80	100	120	140	160	180	200	235
	T	2-4-6	4-6-9	5-8-10	6-9-12	7-9-13	8-11-15	8-12-16	9-12-17	9-13-18	10-13-19
	NC	—	—	16	22	25	30	34	38	41	47
8" Dia.	TP	.074	.166	.294	.460	.662	.902	1.178	1.491	1.840	2.650
	Airflow, CFM	70	105	140	175	210	245	280	315	350	420
	T	3-5-7	5-7-10	6-9-12	7-10-14	8-11-15	9-12-16	9-12-17	10-12-18	10-13-19	11-14-20
	NC	—	11	18	24	27	32	36	40	43	49

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 2-Way Blow

Nominal Neck Size	Neck Velocity, FPM	200	300	400	500	600	700	800	900	1000	1200
	VP	.003	.006	.010	.016	.023	.031	.040	.051	.063	.090
6" Dia.	TP	.007	.016	.028	.043	.063	.085	.111	.141	.174	.240
	Airflow, CFM	40	60	80	100	120	140	160	180	200	235
	T	1-3-4	2-4-5	2-5-6	3-4-7	4-6-9	4-6-10	5-6-10	6-7-11	6-8-12	7-9-13
	NC	—	—	—	12	18	24	29	33	37	43
8" Dia.	TP	.013	.028	.050	.078	.113	.153	.200	.253	.313	.450
	Airflow, CFM	70	105	140	175	210	245	280	315	350	420
	T	2-2-4	2-3-7	3-5-9	5-7-9	6-8-11	7-9-12	8-10-13	9-11-14	10-12-15	11-13-17
	NC	—	—	—	16	22	28	33	37	41	47
10" Dia.	TP	.029	.065	.115	.174	.259	.344	.451	.572	.707	1.022
	Airflow, CFM	110	165	220	270	330	380	435	490	545	655
	T	3-4-7	3-5-10	5-7-13	7-9-14	8-11-15	10-12-17	11-13-18	11-14-18	12-15-19	13-17-22
	NC	—	—	12	19	25	31	36	41	44	50
12" Dia.	TP	.042	.090	.162	.248	.360	.493	.647	.811	1.005	1.441
	Airflow, CFM	160	235	315	390	470	550	630	705	785	940
	T	4-5-10	5-8-14	8-11-17	10-14-19	11-15-20	14-17-23	16-18-25	16-19-25	18-21-27	19-22-29
	NC	—	—	15	22	28	34	39	43	47	53
14" Dia.	TP	.056	.130	.229	.356	.511	.704	.916	1.156	1.425	2.045
	Airflow, CFM	210	320	425	530	635	745	850	955	1060	1270
	T	5-7-14	7-11-18	11-15-23	14-19-26	16-21-28	19-22-31	20-24-33	20-26-33	23-28-36	25-30-38
	NC	—	—	17	24	30	36	41	45	49	55
15" Dia.	TP	.071	.161	.283	.446	.637	.872	1.144	1.453	1.784	2.548
	Airflow, CFM	245	370	490	615	735	860	985	1110	1230	1470
	T	6-9-17	9-13-21	14-19-26	16-21-30	19-24-33	23-26-35	23-27-38	23-28-39	25-29-42	28-31-42
	NC	—	10	18	25	31	37	42	46	50	56

**CFM** - cubic feet per minute  
**FPM** - feet per minute velocity  
**TP** - total pressure - inches w.g.  
**VP** - velocity pressure - inches w.g.  
**T** - throw in feet  
**NC** - Noise Criteria (values) based on 10 dB room absorption, re 10<sup>-12</sup> watts.

#### Performance Notes:

- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Neck Size Diameter in Inches	Nominal Overall Face Size	Ak Factor
6	12 x 12	0.053
8	12 x 12	0.065
6	24 x 24	0.103
8	24 x 24	0.124
10	24 x 24	0.158
12	24 x 24	0.192
14	24 x 24	0.219
15	24 x 24	0.243

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**CEILING DIFFUSERS**