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**DAMPERS**

Model 5020CC

Size 6" Diameter	Size 10" Diameter
Size 8" Diameter	Size 12" Diameter

**BOWDEN CABLE CONTROLS**

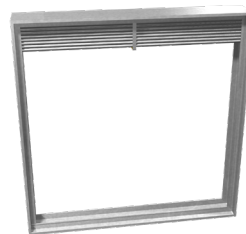
Model 270-275B-Q

Model 270-275B-Q
with Angle Bracket for others' Dampers with 5/16" Rd or 1/4" Sq Rdv

Model 270-301B-Q
Concealed Ceiling Regulator for others' Dampers with 5/16" Rd or 1/4" Sq Rd

Model BCW-50
Bulk Casing and Wire - 50' Length

Model 030-12
Control Wrench

**DYNAMIC FIRE DAMPERS**

Type-A Horizontal

6 x 6	16x14
8 x 6	18x14
8 x 8	24x14
10 x 6	24x20
10 x 8	14x6
10 x 10	14x8
12 x 6	14x10
12 x 8	14x12
12 x 10	14x14
12 x 12	20x6
16 x 8	20x8
16 x 10	20x10
16 x 12	20x12
16 x 16	20x14
18 x 6	20x16
18 x 8	20x18
18 x 10	20x20
18 x 12	22x6
18 x 16	22x8
18 x 18	22x20
24 x 6	22x22
24 x 8	
24 x 10	
24 x 12	
24 x 16	
24 x 18	
24 x 24	

Type-C Horizontal
Fire Dampers

6" ø	16" ø
8" ø	18" ø
10" ø	20" ø
12" ø	24" ø
14" ø	

True Round
Fire Dampers

8" ø	12" ø
10" ø	

All additional sizes & types available
for custom order on 24hr, 2 day, 3
day, 5 day, 10 day & standard build
slimline fire dampers ceiling radiation

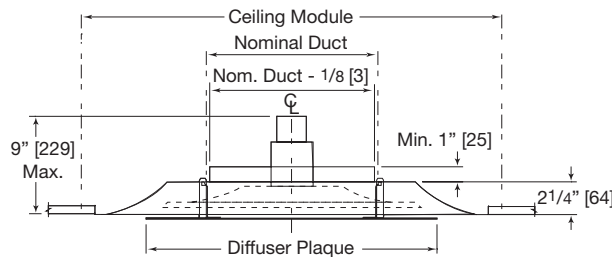
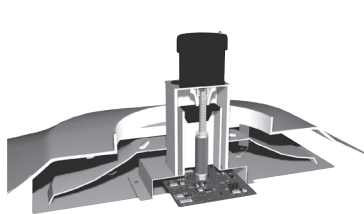


Duct Access Doors

RDAR-AA - 8 x 5
RDAR-A - 11.5 x 7
RDAR-B - 17 x 11
RDAR-C - 21.5 x 16.5
RDAR-D - 27.5 x 21.5



PPD2 PERSONAL SELF-MODULATING DIFFUSERS

Dimensional Data -
Imperial (Inches) / Metric (mm)

Ceiling Module		Nominal Duct
Imperial	Metric	
24 x 24 (610 x 610)	600 x 600	6,8,10,12 (152, 203, 254,305)

PRODIGY SERIES MODEL PPD2

VAV Cooling and Heating Diffuser c/w Wall Mounted LCD Thermostat, 115/24V Transformer

PERFORMANCE DATA - MAXIMUM FLOW SELECTION TABLE

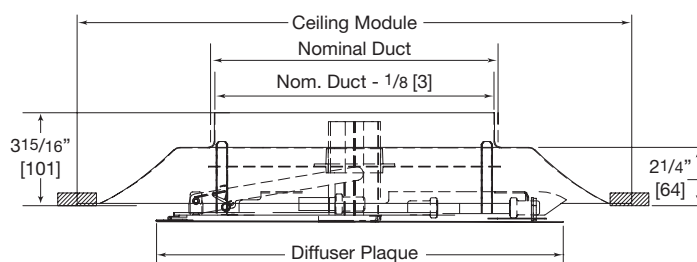
Inlet Size	Neck Velocity Velocity Pressure	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.050	1000 0.062
6"	Static Pressure	0.056	0.087	0.124	0.167	0.216	0.272	0.333
	Total Pressure	0.066	0.102	0.146	0.197	0.256	0.322	0.396
	CFM	79	98	118	137	157	177	196
	NC	21	25	29	33	36	38	40
	Throw, ft.	2-3-5	3-4-6	3-4-6	4-5-7	4-5-7	4-5-8	5-6-8
8"	Static Pressure	0.035	0.054	0.077	0.105	0.137	0.174	0.215
	Total Pressure	0.045	0.070	0.099	0.136	0.177	0.224	0.277
	CFM	140	175	209	244	279	314	349
	NC	--	17	22	26	30	34	37
	Throw, ft.	2-3-7	3-4-7	3-5-8	4-6-9	5-7-9	5-7-10	6-7-11
10"	Static Pressure	0.031	0.049	0.070	0.096	0.124	0.158	0.194
	Total Pressure	0.041	0.064	0.092	0.126	0.164	0.208	0.257
	CFM	218	273	327	382	436	491	545
	NC	--	19	24	29	33	36	39
	Throw, ft.	4-5-9	4-7-11	5-8-12	6-9-12	7-9-13	8-10-14	9-11-15
12"	Static Pressure	0.056	0.071	0.103	0.140	0.183	0.231	0.285
	Total Pressure	0.056	0.087	0.125	0.171	0.222	0.282	0.348
	CFM	314	393	471	550	628	707	785
	NC	19	25	30	35	38	42	45
	Throw, ft.	5-8-11	6-9-13	8-10-14	9-11-15	9-11-16	10-12-17	10-13-18

PRICE Prodigy®:

PPD2 is suitable for applications that require dedicated heating and cooling cycles. To properly sense room temperature while in the heating mode, the unit features a wall thermostat with temperature sensor.

FEATURES:

- Thermostat with room temperature sensor for heating mode.
- Face mounted room temperature sensor for cooling mode.
- Setpoint adjustment at the thermostat.
- T-Bar mounting frame for 24 x 24 grids.
- B12 White Finish.
- Optional mounting for drywall ceilings - SPF frame in stock.
- Optional relief collar for pressure relief - PRC in stock.

PRICE VPD-HC/VPD-C - VARITHERM

 Dimensional Data -
Imperial (Inches) / Metric (mm)

Ceiling Module		Nominal Duct
Imperial	Metric	
24 x 24 (610 x 610)	600 x 600	6, 8, 10, 12 (152, 203, 254, 305)

 VPD-HC/VPD-C
Varitherm Thermally Powered VAV Diffuser

PERFORMANCE DATA - MAXIMUM FLOW SELECTION TABLE

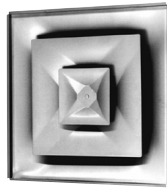
Inlet Size	Neck Velocity Velocity Pressure	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.050	1000 0.062
6"	Static Pressure	0.014	0.021	0.031	0.042	0.054	0.069	0.085
	Total Pressure	0.024	0.037	0.053	0.072	0.094	0.119	0.147
	CFM	79	98	118	137	157	177	196
	NC	—	—	—	17	21	24	28
	Throw, ft.	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-4-7	3-5-8
8"	Static Pressure	0.022	0.034	0.049	0.067	0.087	0.110	0.136
	Total Pressure	0.032	0.050	0.072	0.097	0.127	0.161	0.199
	CFM	140	174	209	244	279	314	349
	NC	—	—	18	23	27	30	33
	Throw, ft.	2-3-7	3-4-7	3-5-8	4-6-9	5-7-9	5-7-10	6-7-11
10"	Static Pressure	0.030	0.047	0.068	0.092	0.120	0.152	0.188
	Total Pressure	0.041	0.063	0.090	0.123	0.160	0.203	0.250
	CFM	218	273	327	382	436	491	545
	NC	—	17	23	27	31	35	38
	Throw, ft.	4-5-9	4-7-11	5-8-12	6-9-12	7-9-13	8-10-14	9-11-15
12"	Static Pressure	0.038	0.060	0.086	0.118	0.154	0.195	0.240
	Total Pressure	0.048	0.076	0.109	0.148	0.194	0.245	0.302
	CFM	314	393	471	550	628	707	785
	NC	—	21	26	31	35	39	42
	Throw, ft.	5-8-11	6-9-13	8-10-14	9-11-15	9-11-16	10-12-17	10-13-18

FEATURES:

- Steel backpan, faceplate and linkage for strength and durability
- Thermal elements for consistent, repeatable performance
- Hinged faceplate, with powerful magnetic closure ensures simple yet strong closure, that also allows for quick access to adjustment features
- Specially engineered damper stack for reduced linkage binding and superior performance over the entire operating range
- For heating/cooling systems
- Optional relief collar for pressure relief - PRC in stock.

PERFORMANCE NOTES:

1. Performance data is presented for the Varitherm® diffuser with the damper in the full open (maximum flow) position.
2. Tested in accordance with ASHRAE Standard 70-1991 "Method of Testing for Rating the Performance of Air Outlets and Inlets"
3. Air flow is in cubic feet per minute, CFM.
4. All pressures are in inches of water.
5. Throw values are given in feet to terminal velocities of 150-100-50 fpm.
6. Throw data is based on supply air and room air at isothermal conditions.
7. The NC values, sound pressure level, are based on a room absorption of 10 dB re 10-12 watts and one diffuser.
8. Blanks "—" indicate an NC level below 15.

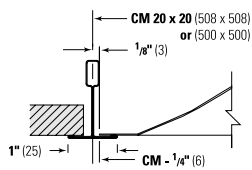
PRICE SCD CEILING DIFFUSERS

SCD/31/24X24/B12
Square Cone Diffusers

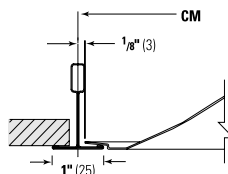
Size	SCD/31 (T-Bar & Panel)		CFM		NC 30 Radius of Diffuser
	12 x 12	24 x 24	NC 25	NC 30	VT = 50
6	•		209	243	8
7			249	302	10
8	•		305	361	11
6		•	215	251	6
8		•	340	405	8
10		•	491	581	8
12		•	654	785	10
14		•	855	998	11
15		•	951	1104	12

- Steel construction
- True 360° radial horizontal
- Special contour design prevents smudging and streaking
- Excellent performance for VAV applications
- T-Bar or surface mount
- Available in panels to fit standard module dimensions
- 4th cone available

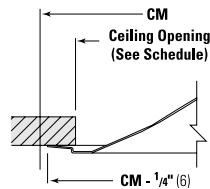
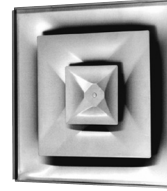
Type 31 - T-Bar Mount



Type 31 - T-Bar Mount,
20 x 20 module



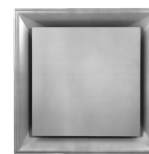
Type 31 - Surface Mount

**PRICE SDCA DIFFUSERS**

SDCA/3/24X24/B12
Adjustable Square Cone Diffusers -
24 x 24 Full Face Model T-Bar Mount

Nominal Length	CFM			NC 30	
	NC 25	NC 30	NC 30	Radius of Diffuser VT = 100	S.P.
6	1856	213	280	4	.05
8	305	349	407	7	.07
10	450	518	600	8	.09
12	609	707	811	9	.09
14	790	920	1060	10	.10

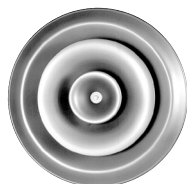
- Steel construction
- True 360° radial horizontal air pattern
- Adjustable pattern controllers to provide either a horizontal or vertical air pattern for heating and cooling applications.
- Excellent performance for VAV applications
- Special contour design prevents smudging and streaking
- T-Bar mounting frame for 24 x 24 grids
- B12 White Finish
- 4th cone available

PRICE SPD PLAQUE DIFFUSERS

SPD/31/24X24/B12
Square Plaque Diffusers - 24 x 24 Full Face Model

Size	SPD/31			CFM		NC 30 Radius of Diffuser
	12 x 12	24 x 24	20 x 20	NC 25	NC 30	VT = 50
5	•					
6	•	•	•	210	245	8
8	•	•	•	330	385	10
10		•	•	470	545	12
12		•		625	725	14

- Steel construction
- Radial horizontal air pattern
- Excellent performance for VAV applications
- B12 White Finish

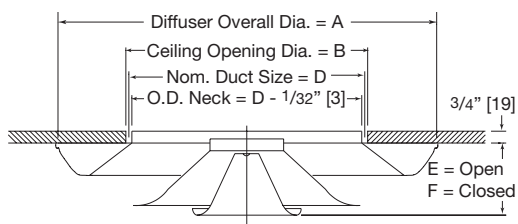
PRICE RCDE & RCDA DIFFUSERS


RCDE/B12
Two Position Round Cone Diffusers

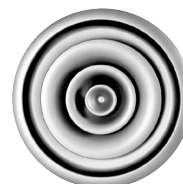
Size	CFM			NC 30	
	NC 25	NC 30	NC 35	Radius of Diffusion VT=100	S.P. Horizontal Position
6"	175	200	235	6	.10
8"	240	275	325	7	.09
10"	425	490	50	9	.09
12"	610	705	805	11	.08
14"	680	800	930	12	.10

PERFORMANCE NOTES:

1. Radius of diffusion shown in feet, based on horizontal air pattern and 20°F cooling differential.
2. S.P. shown in inches of water.



Dimensional Data (Imperial: in. Metric: mm)					
Sizes	A	B	D	E	F
6"	11 ¹ / ₈ (283)	6 ¹ / ₂ (165)	6 (152)	1 ³ / ₄ (45)	1 ¹ / ₈ (29)
8"	14 ³ / ₄ (375)	8 ¹ / ₂ (216)	8 (203)	2 ¹ / ₈ (54)	1 ¹ / ₂ (38)
10"	18 ¹ / ₄ (464)	10 ¹ / ₂ (267)	10 (254)	2 ⁷ / ₈ (73)	2 ¹ / ₈ (54)
12"	22 (559)	12 ¹ / ₂ (318)	12 (305)	3 ¹ / ₈ (79)	2 ³ / ₈ (60)
14"	26 (660)	14 ¹ / ₂ (368)	14 (356)	3 ³ / ₄ (86)	2 ⁵ / ₈ (67)

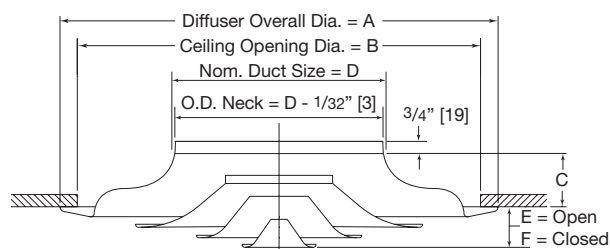


RCDA/B12
Adjustable Round Cone Diffusers

Size	CFM			NC 30	
	NC 25	NC 30	NC 35	Radius of Diffusion VT=100	S.P. Horizontal Position
6"	165	195	228	5	.07
8"	275	325	385	6	.06
10"	415	490	580	8	.06
12"	590	685	810	9	.06
14"	770	880	1060	10	.05
16"	980	1155	1365	11	.05

PERFORMANCE NOTES:

1. Radius of diffusion shown in feet, based on horizontal air pattern and 20°F cooling differential.
2. S.P. shown in inches of water.



Dimensional Data (Imperial: in. Metric: mm)						
Sizes	A	B	C	D	E	F
6"	13 ¹ / ₂ (343)	12 (305)	1 ⁵ / ₈ (41)	6 (44)	1 ³ / ₄ (44)	1 ⁵ / ₁₆ (24)
8"	18 (457)	16 (406)	2 ¹ / ₈ (54)	8 (56)	2 ³ / ₁₆ (56)	1 ³ / ₁₆ (30)
10"	22 ¹ / ₂ (572)	20 (508)	2 ⁵ / ₈ (67)	10 (68)	2 ¹¹ / ₁₆ (68)	1 ⁷ / ₁₆ (37)
12"	27 (686)	24 (610)	3 ¹ / ₄ (83)	12 (79)	3 ¹ / ₈ (79)	1 ⁵ / ₈ (41)
14"	31 ¹ / ₂ (800)	28 (711)	3 ³ / ₄ (95)	14 (100)	3 ¹⁵ / ₁₆ (100)	1 ¹⁵ / ₁₆ (49)
16"	36 (914)	32 (813)	4 ¹ / ₄ (108)	16 (108)	4 ¹ / ₄ (108)	2 ¹ / ₄ (57)

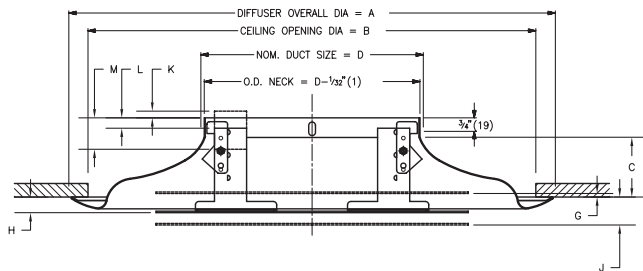
PRICE RPD DIFFUSERS


RPD/B12
Round Plaque Diffuser

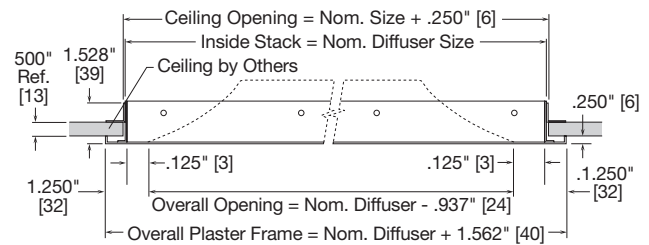
Size	CFM			NC 30	
	NC 25	NC 30	NC 35	Radius of Diffusion VT=100	S.P. Horizontal Position
6"	196	235	274	7	0.17
8"	349	419	489	11	0.23
10"	545	654	763	13	0.23
12"	707	785	942	14	0.17

PERFORMANCE NOTES:

- Radius of diffusion shown in feet, based on horizontal air pattern and 20°F cooling differential.
- S.P. shown in inches of water.

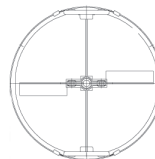


NOM. SIZE	A	B	C	D	PLAQUE POSITION REFER. TO CEILING LINE			PLAQUE WEB HEIGHT REFER. TOP OF INLET		
					VERT PATTERN	HOR 1 PATTERN	HOR 2 PATTERN	VERT PATTERN	HOR 1 PATTERN	HOR 2 PATTERN
6"	14 (356)	12 (305)	1 1/8 (41)	6 (152)	-5/16 (-8)	3/8 (10)	1/2 (13)	5/16 (8)	-3/8 (-10)	-5/16 (-14)
8"	18 (457)	16 (406)	2 1/8 (54)	8 (203)	-1/8 (-3)	9/16 (14)	1 1/16 (27)	1/4 (6)	-7/16 (11)	-15/16 (-24)
10"	22 1/2 (572)	20 (508)	2 5/8 (67)	10 (254)	7/16 (11)	1 3/16 (30)	1 1/2 (38)	7/16 (11)	-1/4 (-6)	-5/16 (-14)
12"	27 (686)	24 (610)	3 1/4 (83)	12 (305)	0	1 (25)	1 3/8 (35)	3/8 (10)	-5/8 (16)	-15/16 (-24)
14"	31 1/2 (800)	28 (711)	3 3/4 (95)	14 (356)	1/2 (13)	1 1/8 (29)	1 7/8 (48)	9/16 (14)	3/8 (10)	3/8 (10)

PRICE SPF DRYWALL PLASTER FRAME


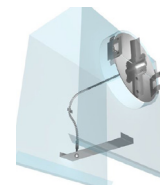
24 x 24 Ceiling Diffusers and Registers

12 x 12	20 x 20	24 x 24
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PRICE DIFFUSER ACCESSORIES


VCR8E
Butterfly Type Volume
Control Dampers

6"	12"
8"	14"
10"	15"

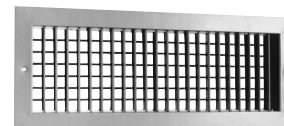


VCR8EC
Cable Operated Damper

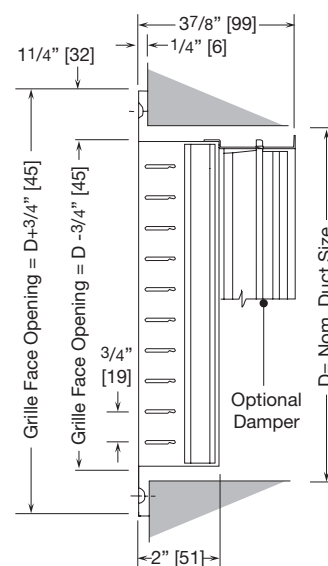
6"	10"
8"	12"

PRICE DOUBLE DEFLECTION GRILLE C/W DAMPER

Size	CFM			NC 30	
	NC 25	NC 30	NC 35	Throw VT=100	S.P.
6 x 6	170	200	235	18	.10
8 x 4	170	200	235	18	.10
8 x 6	239	277	324	22	.093
8 x 8	333	390	470	26	.084
10 x 4	205	243	283	20	.098
10 x 6	293	352	410	24	.089
10 x 8	383	447	532	26	.084
10 x 10	480	566	672	31	.075
12 x 4	239	277	324	22	.093
12 x 6	333	390	470	26	.084
12 x 8	480	566	672	31	.075
12 x 10	534	643	760	33	.074
12 x 12	675	797	936	37	.054
14 x 4	266	312	372	23	.090
14 x 6	383	447	532	26	.084
14 x 8	534	643	760	33	.074
14 x 10	620	730	860	32	.049
14 x 12	785	930	1095	36	.045
14 x 14	855	1005	1190	38	.044
16 x 4	300	350	415	23	.065
16 x 6	430	505	590	30	.084
16 x 8	629	741	890	34	.071
16 x 10	675	797	936	37	.067
16 x 12	855	1015	1190	38	.044
16 x 16	1120	1280	1600	48	.040
18 x 4	330	390	470	26	.146
18 x 6	480	566	672	31	.075
18 x 8	675	797	936	37	.067
18 x 10	750	900	1070	40	.065
18 x 12	973	1147	1340	44	.063
18 x 14	1115	1310	1535	43	.041
18 x 18	1460	1660	1950	53	.040
20 x 6	534	643	760	33	.074
20 x 8	750	900	1070	38	.065
20 x 10	825	945	1180	40	.040
20 x 12	940	1070	1340	43	.040
20 x 14	1460	1660	2080	53	.040
20 x 16	1670	1950	2220	57	.040
20 x 20	1780	2125	2450	65	.038
24 x 4	430	505	590	30	.050
24 x 6	659	776	932	35	.071
24 x 8	855	1012	1180	41	.063
24 x 10	1045	1237	1450	46	.058
24 x 12	1224	1440	1697	49	.054
24 x 14	1460	1660	2080	53	.040
24 x 16	1525	1900	2230	57	.040
24 x 18	1782	2085	2500	59	.048
24 x 24	2242	2620	3096	66	.044



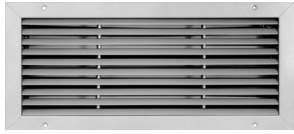
Double Deflection Louvered
Supply Grilles c/w Damper



F - Border
S - Blades in front to short dimension
A - Screwhole fastenings

PERFORMANCE NOTES:

1. Throw data based on supply air and room air being at isothermal conditions.
2. S.P. shown in inches of water. conditions.

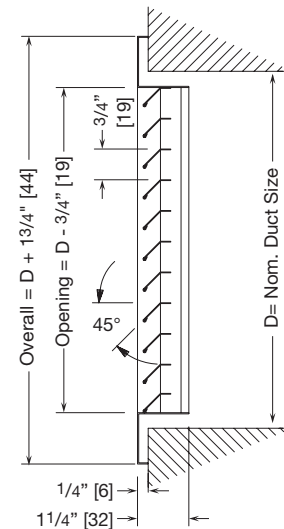
PRICE SINGLE DEFLECTION GRILLE


Single Deflection Fixed Blade Louvered Return Grilles

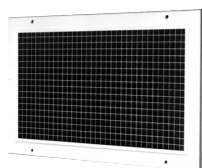
Size	CFM		
	NC 25	NC 30	NC 35
6 x 6	110	130	162
8 x 4	110	130	162
8 x 6	156	185	215
8 x 8	225	265	320
10 x 4	132	160	195
10 x 6	200	238	275
10 x 8	255	310	368
10 x 10	315	390	480
12 x 6	225	265	320
12 x 8	315	390	480
12 x 10	370	450	540
12 x 12	470	570	682
14 x 6	255	310	368
14 x 8	370	450	540
14 x 10	470	570	615
14 x 12	590	710	850
14 x 14	590	725	855
16 x 6	290	342	416
16 x 8	470	570	615
16 x 10	510	615	735
16 x 12	590	725	840
16 x 14	725	870	1045
16 x 16	800	960	1120
18 x 6	315	390	480
18 x 8	470	570	682
18 x 10	590	710	850
18 x 12	670	804	950
18 x 14	845	1020	1220
18 x 18	980	1210	1456
20 x 8	405	486	567
20 x 10	590	725	840
20 x 12	770	930	1100
20 x 14	945	1130	1360
20 x 16	1075	1290	1550
20 x 20	1140	1380	1670
24 x 6	470	570	682
24 x 8	590	725	840
24 x 10	725	880	1050
24 x 12	860	1040	1260
24 x 14	1040	1248	1456
24 x 16	1140	1380	1670
24 x 18	1300	1550	1890
24 x 24	1023	1232	1500

PERFORMANCE NOTES:

1. S.P. shown in inches of water..

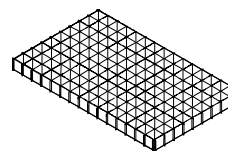


3/4" (19) Blade Spacing Fixed Louvers, No Damper

PRICE 80 - EGG CRATE GRILLES**80/F/A/B12**

1/2" Egg Crate Return Surface Mount No Damper

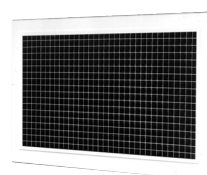
Size	CFM	
	NC 25	NC 30
6 x 6	195	222
8 x 4	195	222
8 x 6	267	305
8 x 8	390	446
10 x 6	340	389
10 x 8	449	512
10 x 10	570	651
12 x 6	390	446
12 x 8	570	651
12 x 10	644	736
12 x 12	820	930
14 x 6	449	512
14 x 8	644	736
14 x 10	749	856
14 x 12	963	1101
14 x 14	1049	1180
16 x 6	507	579
16 x 8	749	856
16 x 10	644	930
16 x 12	1049	1180
16 x 14	1173	1380
16 x 16	1220	1380
18 x 10	963	1104
18 x 12	1173	1340
18 x 14	1387	1564
18 x 16	1530	1755
18 x 18	1664	2080
20 x 20	2119	2520
22 x 22	2488	2877
24 x 6	785	893
24 x 8	1049	1101
24 x 10	1387	1564
24 x 12	1530	1755
24 x 18	2224	2572
24 x 24	2816	3249

PRICE 80 - EGG CRATE GRILLES**80 CORE/B12**Egg Crate Returns (Core Only) T-Bar Lay-In Models
Aluminum Grid 0° Deflection 1/2" x 1/2" x 1/2" (13)

Size	CFM		
	NC 20	NC 25	NC 30
24 x 6	670	760	860
24 x 8	1040	1190	1360
24 x 12	1550	1740	1990
24 x 18	2250	2560	2950
24 x 24	2350	2790	3200
48 x 24	4700	5580	6400

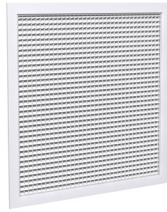
PERFORMANCE NOTES:

1. S.P. shown in inches of water.

**80/TB/B12**

1/2" Egg Crate Face Return T-Bar Lay-In Models No Damper

Size	CFM	
	NC 25	NC 30
24 x 6	785	893
24 x 8	1049	1101
24 x 10	1387	1564
24 x 12	1530	1755
24 x 18	2224	2572
24 x 24	2816	3249

PRICE 85 - 45 DEGREE EGG CRATE GRILLES

85/F/A/B12

Size	CFM	
	NC 25	NC 30
6 x 6	100	126
8 x 8	195	234
10 x 10	300	360
12 x 12	400	500
14 x 14	525	625
16 x 16	700	800
18 x 18	832	1040
20 x 20	1112	1325
22 x 22	1244	1505
24 x 6	500	600
24 x 12	832	1040
24 x 24	1350	1600



85/CH/0/B12

Size	CFM	
	NC 25	NC 30
23.75 x 7.75	525	650
23.75 x 11.75	832	1040
23.75 x 23.75	1350	1600



85 CORE

Size	CFM	
	NC 25	NC 30
24 x 6	500	600
24 x 12	832	1040
24 x 24	1350	1600
24 x 48	2175	2700

PRICE SDS100 - DRYWALL LINEAR SLOT DIFFUSERS

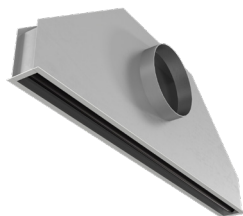
SDS100, Single Slot

Size	CFM	
	NC 25	NC 30
48" L	140	160
60" L	170	200

SDS100, Two Slot

Size	CFM	
	NC 25	NC 30
48" L	235	280
60" L	290	340

- Finish: Air Pattern Control Blades: B17 Black Finish
- Diffuser Frame: B12 White Finish

PRICE T-BAR PLUG-IN DIFFUSERS

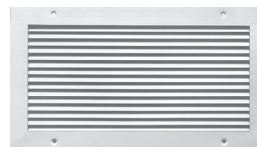
Model TBD875
Single Slot

Nominal Length	Inlet	CFM		NC 30
		NC 25	NC 30	Throw VT = 50
48" Long	6	120	150	9
60" Long	7	150	190	10

Model TBD8100
Single Slot

Nominal Length	Inlet	CFM		NC 30
		NC 25	NC 30	Throw VT = 50
48" Long	7	150	180	8
60" Long	8	180	220	9

- Finish: Air pattern control blades: B17 Black Finish
- Diffuser shell: Mill Finish

PRICE STG DOOR GRILLES

STG1/BF/B15
Steel Transfer / Door Grilles w/ Border on Both Sides

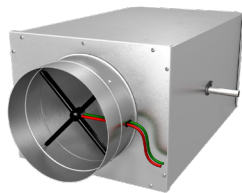
Size	CFM	
	NC 25	NC 30
12 x 6	125	165
12 x 8	145	180
12 x 12	220	260
14 x 10	220	260
14 x 14	250	390
16 x 8	185	225
16 x 12	250	390
18 x 10	250	310
18 x 12	260	320
18 x 18	315	380
20 x 12	270	330
20 x 16	315	380
20 x 20	355	430
24 x 12	300	375
24 x 16	355	430
24 x 18	370	450
24 x 24	440	535

PERFORMANCE NOTES:

1. S.P. shown in inches of water.

**1900A FIRE RATED DOOR GRILLES**

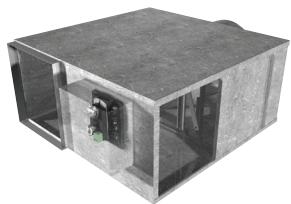
Size
12 x 12
18 x 12
18 x 14
18 x 18
24 x 18
24 x 24

PRICE SDV5000 - SINGLE DUCT TERMINAL UNITS**SDV5000**

Single Duct Terminal Unit - Controls By Others

Unit Size	L/s Min.	L/s Max.	CFM Min.	CFM Max.
4	21	189	45	400
5	28	236	60	500
6	31	260	65	550
7	45	378	95	800
8	59	519	125	1100
9	76	661	160	1400
10	99	850	210	1800
12	142	1227	300	2600
14	203	1746	430	3700
16	271	2360	575	5000

- Can be used for VAV or CV application
- SP100 multi-point sensor & gauge taps
- Dual density internal insulation
- Minimal pressure drop and low noise generation
- AHRI certified

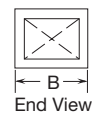
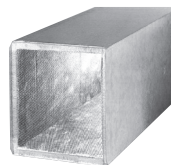
PRICE LGB - BY-PASS BOXES**LGB**

By-Pass Box

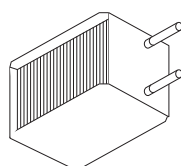
EHC - Heating / Cooling with Auto Changeover

Unit Size	L/s Min.	L/s Max.	CFM Min.	CFM Max.
6	47	189	100	400
5	189	330	400	700
10	236	519	500	1100
12	378	755	800	1600
14	519	991	1100	2100

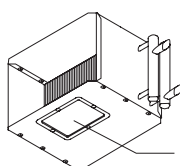
- Low pressure gate by-pass terminal
- Features sliding by-pass damper for field adjustment
- Available with EHC- Heat/Cool with automatic changeover control package
- Optional EHC-1 - Heat/Cool auto change over with reheat

PRICE ATT-3 - ATTENUATOR**ATT-3**3 Foot Attenuator Section for
SDV & SPV Terminal Units

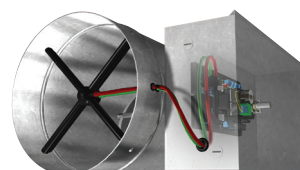
Unit Size	B Width	C Width
4, 5, 6	12	8
7, 8	12	10
9, 10	14	12 1/2
12	16	15
14	20	17 1/2
16	24	18

PRICE HEATING COILS - 2 ROW

Coil Section

Coil Section c/w CAD
(Coil Access Door)Access Doors
4" x 6 3/4" [102 x 171]
Bottom Access Only**HOT WATER COIL**
c/w Coil Access Door Two Row

Unit Size	B	C
4, 5, 6	12 (305)	8 (203)
7, 8	12 (305)	10 (254)
9, 10	14 (356)	12 1/2 (318)
12	16 (406)	15 (381)

PRICE RDV5000 - SINGLE DUCT TERMINAL UNITS**RDV 5000****SP 300 Multipoint Sensor & Gauge Taps**

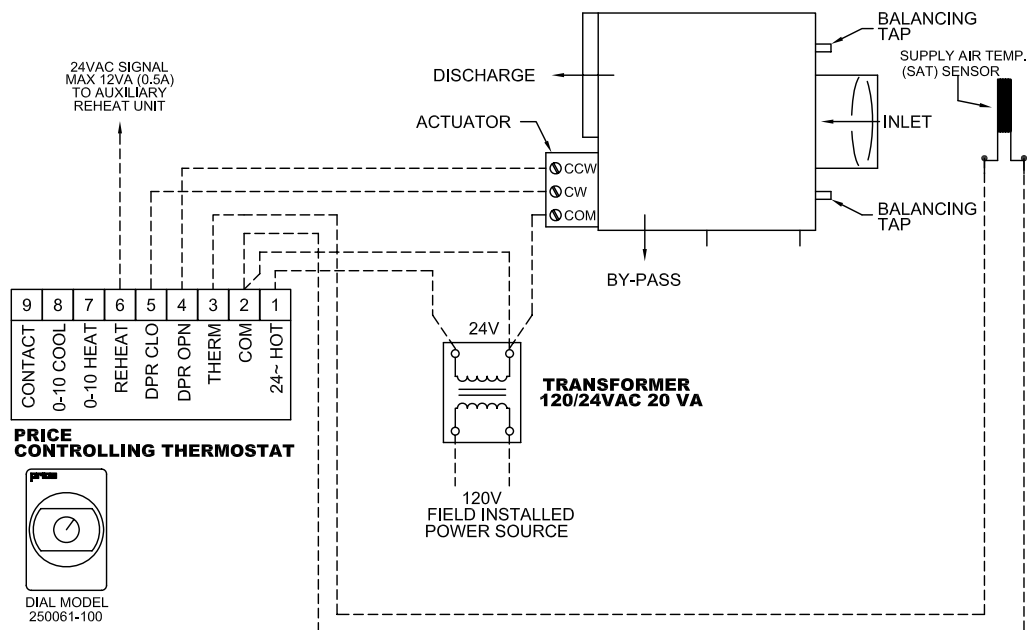
Unit Size	CFM	L/s
6	66 - 450	31 - 212
8	132 - 800	62 - 378
10	221 - 1350	104 - 637
12	304 - 2100	143 - 991
14	439 - 3000	207 - 1416
16	568 - 4000	268 - 1888

PRICE CP101 - PNEUMATIC CONTROLLER**CP-101****Replacement Controllers for the SPV Terminal Unit**

- Provides accurate control over a duct velocity range of 0-3000 fpm.
- Operates at low system pressures. As effective at 0.02" w.g. as at 6" w.g.
- Completely pressure independent.
- Adjustable minimum and maximum air volume settings easily field adjusted if required.
- Reset span remains constant regardless of maximum and minimum air volume adjustments.
- Provides constant 5 psi reset span as per standard factory calibration.
- Adjustable start point for reset span to accommodate auxiliaries such as reheat coils.
- Includes option to expand reset span to 10 psi to accommodate most thermostats.
- Adjustable to accommodate either direct acting or reverse acting thermostats. Also settings for either normally open or normally closed damper operation without added control components.
- Standard mounting face down. All adjustments are directly accessible through a ceiling opening.

price EHC1 (2503) - ELECTRIC COOLING/HEATING CHANGEOVER WITH 1 STAGE REHEAT CONTROL

To be used with LGB - By-Pass Boxes.



Connection Descriptions:

CONTACT	9
0-10 COOL	8
0-10 HEAT	7
REHEAT	6
DPR CLO	5
DPR OPN	4
THERM	3
COM	2
24~ HOT	1



Connection	Description
24~ HOT	24 VAC Hot (power)
COM	24 VAC Common
THERM	Thermistor Input – Duct Probe (2 nd wire of thermistor is connected to COM)
CLO	Damper CLOSE Output – Switched HOT
OPN	Damper OPEN Output – Switched HOT
REHEAT	24 VAC Reheat Output. (Switched HOT or Switched COM – depending on jumper position)
0-10 HEAT	Analog heat output
0-10 COOL	Analog cool output
CONTACT	Contact closure input (night setback) Short to COM to put T-Stat into night setback

Thermaflex® FLEX DUCT

Applications and Engineering Data

Nominal Inside Diameter (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Length (feet)	25	25	25	25	25	25	25	25	25	25	25	15	15	15
Inside Bend Radius (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Operating Pressure (inches water column)	Positive = 10 inches (4-12 in.ID) 6 inches (14-16 in.ID) 4 inches (18-20in.ID) Negative = 1 inch (4-12 in.ID) 1/2 inches (14-20in.ID)													
Operating Temperature Range (°F)	Minimum = 0 Maximum = 250													
Velocity (feet per minute)	5000													
R-value														
Surface Burning Characteristics	Max. Flame Spread = 25 Max. Smoke Developed = 50													
Oxygen Index Ratings	CPE Cpre = 3.13 Metalized Jacket = 45.7													
Vapor Transmission Rating (U.S. Perm)	0.05													

- Offers exceptional sound control
- Acoustically rated chlorinated polyethylene (CPE) core allows sound energy transmission through the core and insulation, and into the plenum space
- Highly efficient, self-extinguishing duct



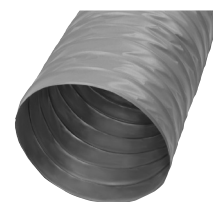
MK-E
Insulated Flexible Air Duct
for Low and Medium
Pressure Systems

Thermaflex® FLEX DUCT

Applications and Engineering Data

Nominal Inside Diameter (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Length (feet)	25	25	25	25	25	25	25	25	25	25	25	15	15	15
Inside Bend Radius (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Operating Pressure (inches water column)	Positive = 16 inches (2-10 in. ID) 10 inches (12-20 in. ID) Negative = 1 inch													
Maximum Leakage (cubic ft./min./linear ft./in. diameter) At 10 inch water column	0.015													
Internal Operating Temperature Range (°F)	Minimum = 0 Maximum = 250													
Velocity (feet per minute)	5000													
Surface Burning Characteristics	Max. Flame Spread = 25 Max. Smoke Developed = 50													
Oxygen Index Ratings	Woven and Coated Glass Cloth Fabric= 35.60													

- Reduced total installed cost - fast, economical installation
- Suitable for all bathroom and dryer venting applications
- Assists absorbing system vibration transmitted through ductwork
- Easily shaped to fit oval inlets

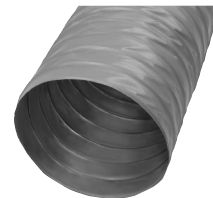


S-TL
Non-Insulated Air Duct for
High Pressure Systems

Thermaflex® FLEX DUCT**Applications and Engineering Data**

Nominal Inside Diameter (inches)	3	4	5	6	7	8	9	10	12	14	14
Length (feet)	25	25	25	25	25	25	25	25	25	25	25
Inside Bend Radius (inches)	3	4	5	6	7	8	9	10	12	14	14
Operating Pressure (inches water column)	Positive = 10 inches Negative = 1 inch										
Maximum Leakage (cubic ft./min./linear ft./in. diameter) At 10 inch water column	0.015										
Internal Operating Temperature Range (°F)	Minimum = 0 Maximum = 250										
Velocity (feet per minute)	5000										
Surface Burning Characteristics	Max. Flame Spread = 25 Max. Smoke Developed = 50										
Oxygen Index Ratings	Woven and Coated Glass Cloth Fabric= 35.60										

- Extremely strong woven fiberglass fabric with flame retardant coating
- Fabric is permanently bonded to a corrosion resistant coated spring steel wire helix
- For all pressure heating and cooling systems

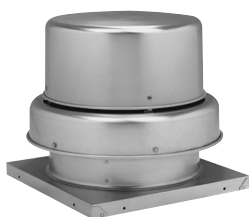


SLP-10
Non-Insulated Flexible
Connector for Low to Medium
Pressure Systems

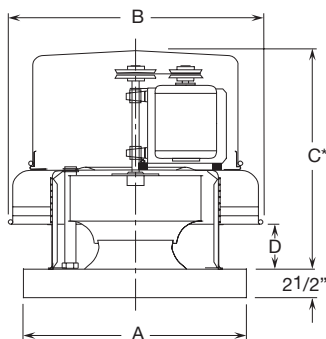
Thermaflex® DIFFUSER/FLEX ACCESSORIES

**PLASTIC STRAPS
AND TENSION TOOLS**

up to 10" dia.	L300
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 MODEL GB - BELT DRIVE CENTRIFUGAL ROOF EXHAUSTERS


MODEL GB
Greenheck Roof Exhausters

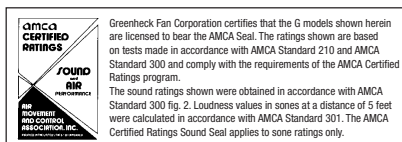


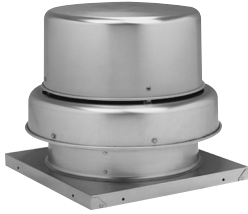
Dampers Available **GPI's Available**

- 10 x 10 Damper
 - 12 x 12 Damper
 - 16 x 16 Damper
 - 18 x 18 Damper
 - 24 x 24 Damper
- 17
 - 19
 - 22
 - 30
 - 34
 - 40
 - 46

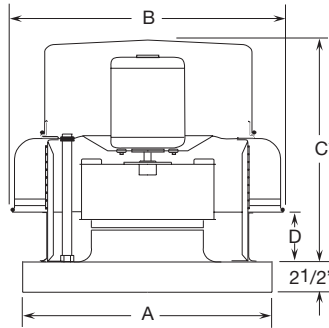
Model	A	B	C	Roof Opening	Damper Size	Min/Max Sones	Sones @ 0 in.	Performance in inches WG									
								0	.25	.5	.75	1	1.25	1.5	1.75	2.0	
GB-071	19	24 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂	12 x 12	600 1710	1.2 11.1	131 372	68 334	 292	 245	 198	 	 	 	 	
GB-081	19	24 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		600 1710	2.2 12.5	301 856	175 784	 710	 629	 480	 	 	 	 	
GB-091	19	24 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		600 1710	2.7 13.4	445 1295	271 1179	 1061	 934	 785	 	 	 	 	
GB-101	19	24 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		700 1800	3.7 13.2	593 1525	455 1418	 1320	 1208	 1064	 793	 	 	 	
GB-121	19	24 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		595 1725	3.3 17.4	721 2093	 1984	 1871	 1743	 1600	 1426	 	 	 	
GB-131	19	28 ³ / ₈	23 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		595 1685	4.5 16.9	844 2391	655 2278	 2157	 2020	 1857	 1654	 	 	 	
GB-141	22	28 ³ / ₈	23 ³ / ₈	18 ¹ / ₂ x 18 ¹ / ₂	16 x 16	525 1705	4.4 20	974 3163	709 3020	 2883	 2739	 2574	 2370	 	 	 	
GB-161	22	28 ³ / ₈	23 ³ / ₈	18 ¹ / ₂ x 18 ¹ / ₂		478 1375	4.7 21	1412 4062	1030 3815	 3571	 3304	 3007	 2609	 2073	 	 	
GB-180	30	35 ¹ / ₂	28	20 ¹ / ₂ x 20 ¹ / ₂	18 x 18	495 1460	4.3 26	1924 5677	1150 5514	 5335	 5155	 4938	 4698	 4426	 4123	 3765	
GB-200	30	35 ¹ / ₂	28	20 ¹ / ₂ x 20 ¹ / ₂		440 1200	6.5 24	2434 6640	 6336	 5968	 5650	 5274	 4828	 4177	 3077	 	
GB-200	34	42 ³ / ₄	31 ¹ / ₂	26 ¹ / ₂ x 26 ¹ / ₂	24 x 24	300 985	6.6 23	2507 7484	 7212	 6898	 6568	 6106	 5547	 4883	 	 	
GB-240	34	42 ³ / ₄	31 ¹ / ₂	26 ¹ / ₂ x 26 ¹ / ₂		425 910	5.9 24	3905 8355	3422 7916	 7467	 6932	 6240	 5388	 3707	 	 	

Model GB belt drive exhausters are designed for roof mounted applications exhausting relatively clean air. They feature a spun aluminum housing and non-overloading backward inclined wheel. Motors are located out of the airstream with positive cooling by ambient air. Model GB fans are licensed to bear the AMCA Certified Ratings Seals for air and sound performance and are U.L. Listed and CSA certified. Units complete with birdscreen, Disconnect switch.




MODEL G - DIRECT DRIVE CENTRIFUGAL ROOF EXHAUSTERS


MODEL G
Greenheck Roof Exhausters



Dimensions (inches)

	0.1625	A	B	C*	WD-100 Damper	Roof Opening
G-070, 075	17	193/8	121/8	8	101/2	
G-080, 085, 090, 095	17	213/4	145/8	8	121/2	

* May vary depending on motor size.

Curbs Available - GPI 17.

	Model	HP	RPM	TS	Static Pressure / Capacity													
					0.000		0.100		0.125		0.250		0.375		0.500		0.625	
					Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
G-070	G-070-G	1/100	1050		2234	254		196		179								
					2.5	.007	1.7	.008	1.5	.008								
	G-070-D	1/60	1300	2765		314		268		257		171						
					4.1	.013	3.4	.015	3.2	.015	2.7	.015						
G-075	G-075-E	1/80	1050	2234		396		222		200								
					3.3	.010	2.8	.011	2.7	.011								
	G-075-G	1/50	1300	2765		367		309		294		195						
					4.4	.019	3.8	.020	3.7	.021	3.6	.020						
G-080	G-080-E	1/40	1050	2990		438		389		377		310		214				
					6.1	.033	5.5	.034	5.4	.035	5.3	.035	4.5	.033				
	G-080-G	1/30	1300	3701		415		361		348		272		175				
					5.4	.022	5.4	.026	5.4	.027	5.4	.032	5.4	.033				
G-085	G-085-E	1/20	1550	4413		495		450		439		379		314		238		
					7.3	.038	7.4	.042	7.4	.044	7.4	.050	7.4	.055	7.4	.057		
	G-085-G	1/40	1050	2990		399		326		307		179						
					3.6	.012	3.7	.016	3.7	.017	3.8	.019						
G-090	G-090-E	1/30	1300	3701		494		436		421		340		233				
					5.4	.023	5.3	.028	5.3	.029	5.2	.035	4.9	.036				
	G-090-D	1/20	1550	4413		588		541		529		464		393		308		169
					7.5	.039	7.4	.044	7.4	.046	7.4	.053	7.5	.060	7.6	.062	7.7	.056
G-095	G-095-E	1/40	1050	2990		520		441		420		292						
					3.8	.014	3.7	.019	3.7	.020	3.6	.024						
	G-095-G	1/25	1300	3701		644		580		564		478		373				
					5.4	.027	5.4	.033	5.4	.034	5.5	.041	5.5	.045				
G-095	G-095-D	1/15	1550	4413		768		714		700		633		558		472		338
					7.5	.046	7.4	.053	7.4	.055	7.4	.063	7.4	.070	7.4	.076	7.4	.074
	G-095-E	1/30	1050	2990		717		605		569		389						
					4.9	.029	4.6	.034	4.6	.035	4.5	.037						
G-095	G-095-G	1/12	1300	3701		888		801		780		640		493		184		
					7.4	.058	6.9	.061	6.8	.063	6.5	.069	6.4	.071	6.4	.049		
	G-095-D	1/8	1550	4413		1059		986		969		863		745		623		474
					9.6	.095	9.4	.101	9.4	.103	9.1	.111	8.2	.117	8.0	.120	8.0	.114

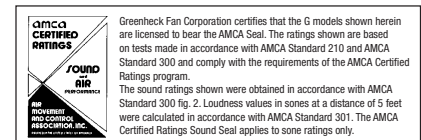
Model G direct drive exhausters are designed for roof mounted applications exhausting relatively clean and cool air. They feature a spun aluminum housing, a non overloading backward inclined wheel, and positive motor cooling. Model G fans are licensed to bear the AMCA Certified Ratings Seals for air and sound performance and are U.L. Listed and CSA certified.

Accessories

- Roof curbs
- Backdraft damper. Model WD-100, gravity or motorized
- Speed controls

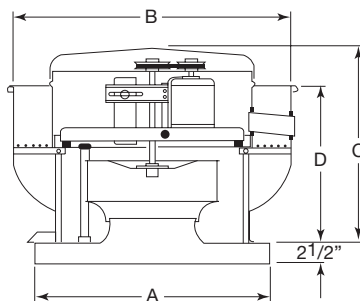
PERFORMANCE NOTES:

1. Performance shown is for Model G without ducts.




MODEL CUBE - CENTRIFUGAL ROOF EXHAUSTERS BELT DRIVE, UPBLAST


MODEL CUBE
Greenheck Roof Exhausters


Condensed Performance Ranges & Dimensional Data

Model	A	B	C	D	Roof Opening	Damper Size	Min/Max Sones	Sones @ 0 in.	Performance in inches WG					
									0	.25	.5	.75	1.0	2.0
CUBE-101	19	24 ⁷ / ₈	24 ¹ / ₄	17 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂	12 x 12	860	4.6	732	625	481			
							1820	14.3	1549	1459	1350	1234	1106	
CUBE-121	19	24 ⁷ / ₈	28 ¹ / ₄	17 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂		685	4.4	809					
							1725	15.6	2037	1923	1816	1710	1571	
CUBE-131	19	24 ⁷ / ₈	28 ¹ / ₄	17 ³ / ₈	14 ¹ / ₂ x 14 ¹ / ₂	16 x 16	650	6.2	892					
							1645	17.9	2256	2128	2001	1864	1684	
CUBE-141	22	29 ³ / ₄	24 ³ / ₄	19 ³ / ₈	18 ¹ / ₂ x 18 ¹ / ₂		590	5.0	1069					
							1725	26	3125	3005	2865	2711	2539	
CUBE-161	22	29 ³ / ₄	24 ³ / ₄	19 ³ / ₈	18 ¹ / ₂ x 18 ¹ / ₂	18 x 18	730	8.1	2098	1669				
							1390	22	3996	3806	3584	3340	3078	
CUBE-180	30	35 ³ / ₄	28 ⁵ / ₈	21	20 ¹ / ₂ x 20 ¹ / ₂		630	7.1	2380	1861				
							1495	28	5648	5443	5254	5082	4921	3564
CUBE-200	30	35 ³ / ₈	28 ⁵ / ₈	21	20 ¹ / ₂ x 20 ¹ / ₂		500	6.2	2812	1822				
							1210	25	6806	6451	6108	5748	5350	
CUBE-240	34	42 ²⁵ / ₃₂	33 ⁷ / ₈	25 ¹ / ₂	26 ¹ / ₂ x 26 ¹ / ₂		410	6.4	3717	2471				
							930	24	8431	7985	7536	6953	6375	

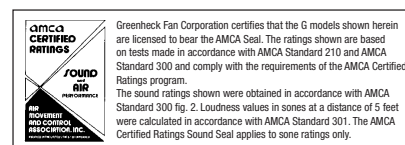
Model CUBE is designed for restaurant/commercial kitchen ventilation by exhausting hot and contaminated air up and away from the building
UL 762 listed for restaurant applications and operation up to 300°F (UL 762 includes UL 705 listing)

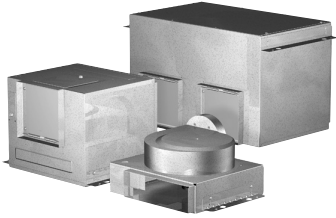
Stock Note (Model CUBE-101-4 and CUBE-141-5):

- The units listed are supplied with 115/60/1 motors installed
- Units are supplied preset for maximum RPM and are field adjustable

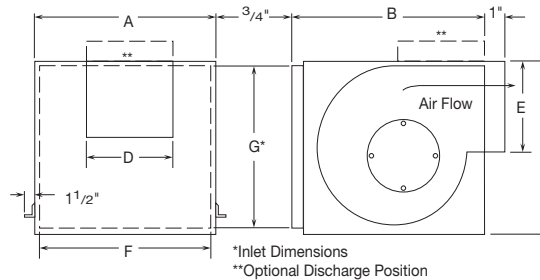
Stock Note (Model CUBE-180-LMD and CUBE-200):

- For the unit listed, the motor and drive are not included



 CSP A110-A780 - GREENHECK CEILING EXHAUST FANS


CSP SERIES
Greenheck Cabinet Inline Exhaust Fans



Dimensions (inches)

Model	A	B	C	D	E	Grille Size	Wt.
A190	13 ¹ / ₄	10 ⁵ / ₈	10 ¹ / ₂	8	6	14 ³ / ₄ x 12 ³ / ₄	16
A250, A290, A390	14	11 ⁷ / ₈	11 ¹ / ₄	8	8	14 ³ / ₄ x 12 ³ / ₄	23
A410, A510	18	14 ³ / ₈	14 ¹ / ₂	8	8	19 ³ / ₈ x 16 ³ / ₈	36
A710, A780	18	14 ³ / ₈	14 ¹ / ₂	10	8	19 ³ / ₈ x 16 ³ / ₈	36

- For complete dimensional information, see submittal drawings.

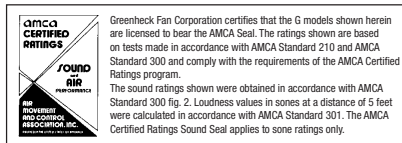
Performance Data

Model	RPM	Amps	Watts (Input)	CFM / Static Pressure in inches of W.G.								
					0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750
CSP-A110	950	0.62	51	CFM	125	110	102	77	—	—	—	—
				Sones	1.1	1.1	1.3	1.3	—	—	—	—
CSP-A125	1100	0.63	55	CFM	138	—	124	113	91	—	—	—
				Sones	1.4	—	1.3	1.4	1.7	—	—	—
CSP-A190	1400	1.10	100	CFM	215	202	198	180	159	—	—	—
				Sones	2.3	2.0	2.2	2.7	2.9	—	—	—
CSP-A200	900	0.43	48	CFM	254	230	225	203	117	145	109	70
				Sones	0.8	0.7	0.8	1.3	1.5	1.9	2.2	2.1
CSP-A250	1000	0.79	83	CFM	266	246	241	221	205	187	165	132
				Sones	1.3	1.5	1.5	2.3	3.3	3.4	3.2	3.0
CSP-A290	1050	0.71	80	CFM	318	299	292	265	248	229	201	144
				Sones	1.6	1.7	1.8	2.6	3.3	4.0	3.7	3.4
CSP-A390	1350	1.33	144	CFM	412	400	397	382	363	339	324	309
				Sones	2.8	2.7	2.8	3.2	3.7	4.7	5.5	6.5
CSP-A410	1000	1.87	139	CFM	447	411	403	364	316	214	—	—
				Sones	2.2	2.1	2.2	2.5	2.7	3.1	—	—
CSP-A510	1070	3.11	217	CFM	545	514	506	464	405	324	—	—
				Sones	3.1	2.9	2.8	2.7	3.1	—	—	—
CSP-A700	1100	3.20	350	CFM	766	—	739	739	726	702	—	635
				Sones	2.6	—	2.4	2.4	2.5	2.6	—	3.0
CSP-A710	1080	4.40	325	CFM	737	698	688	635	566	474	334	—
				Sones	3.2	3.3	3.2	3.3	2.7	2.5	2.7	—
CSP-A780	1600	3.77	405	CFM	813	783	776	741	707	671	637	603

PERFORMANCE NOTES:

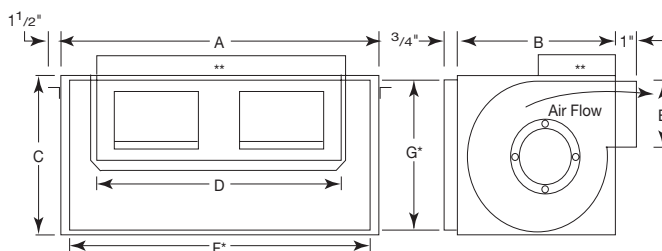
Performance shown is for Model CSP inline installation type B: free inlet, ducted outlet. Performance ratings include the effects of an inlet duct and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type B: free inlet sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.



 CSP-A900-A1550 - GREENHECK CEILING EXHAUST FANS


CSP SERIES
Greenheck Cabinet Inline Exhaust Fans



Dimensions (inches)

Model	A	B	C	D	E	F	G	Wt.
A900, A1050 A1410, A1550	23 ³ / ₄	14 ³ / ₈	14 ¹ / ₂	18 ³ / ₄	8	22 ⁵ / ₈	13 ¹ / ₄	5 9

- For complete dimensional information, see submittal drawings.

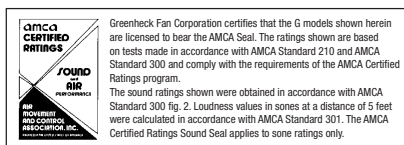
Performance Data

Model	RPM	Amps	Watts (Input)	CFM / Static Pressure in inches of W.G.								
					0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750
CSP-A900	950	4.87	328	CFM	908	852	840	782	714	631	—	—
				Sones	3.7	3.8	3.8	4.0	4.0	4.1	—	—
CSP-A1050	1095	6.65	455	CFM	1182	110	1093	1013	922	832	743	—
				Sones	6.3	6.1	5.9	5.8	6.0	6.0	5.5	—
CSP-A1410	1450	7.80	822	CFM	1584	1543	1533	1483	1439	1395	1345	1293
				Sones	6.3	6.2	6.2	6.3	6.5	6.8	7.2	7.6
CSP-A1550	1610	8.32	830	CFM	1672	1617	1604	1542	1484	1427	1367	1306
				Sones	8.6	8.2	8.5	8.4	8.5	8.5	8.5	8.5

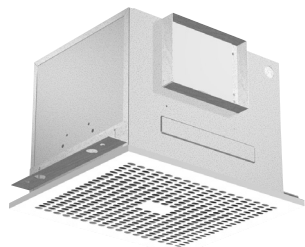
PERFORMANCE NOTES:

Performance shown is for Model CSP inline installation type B: free inlet, ducted outlet. Performance ratings include the effects of an inlet duct and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

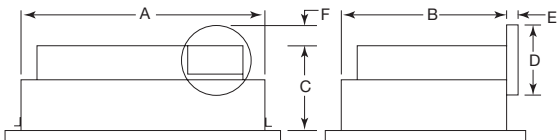
The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type B: free inlet sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.



GREENHECK SP-B110 - B150 - GREENHECK CEILING EXHAUST FANS



SP-B SERIES B110-B150
Greenheck Ceiling Exhaust Fans



Dimensions (inches)

Model	A	B	C	D	E	F	Grille Size	Wt.
B110, B150	13 ⁷ / ₈	11 ¹ / ₂	8 ¹ / ₈	6	1 ¹ / ₄	1 ¹ / ₂	14 ³ / ₄ x12 ³ / ₄	10

- For complete dimensional information, see submittal drawings.

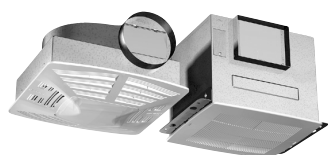
Performance Data

Model	RPM	Amps	Watts (Input)	CFM / Static Pressure in inches of W.G.								
					0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750
SP-B110	950	1.14	80	CFM	133	114	110	98	95	95	92	85
				Sones	2.0	2.1	2.2	2.3	2.7	2.7	3.7	4.4
SP-B150	1050	1.70	129	CFM	166	154	153	152	150	150	148	138
				Sones	3.0	3.2	3.3	3.6	4.3	4.5	4.9	5.3

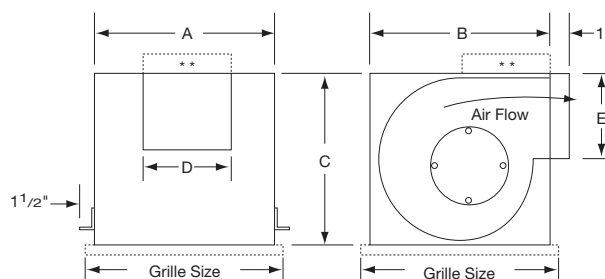


Greenheck Fan Corporation certifies that the G models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings program.
The sound ratings shown were obtained in accordance with AMCA Standard 300 fig. 2. Loudness values in sones at a distance of 5 feet were calculated in accordance with AMCA Standard 301. The AMCA Certified Ratings Sound Seal applies to some ratings only.

*Inlet Dimensions **Optional Discharge Position

 SP A110-A1550 - GREENHECK CEILING EXHAUST FANS


SP-A SERIES A110-A1550
Greenheck Ceiling Exhaust Fans



Dimensions (inches)

Model	A	B	C	D	E	Grille Size	Wt.
A110, A125, A190	13 ³ / ₄	10 ⁵ / ₈	11 ⁵ / ₈	6	DIA	14 ⁷ / ₈ x 13 ¹ / ₄	17
A200	13 ⁷ / ₈	11 ¹ / ₂	6 ⁵ / ₈	8	8	14 ³ / ₄ x 12 ³ / ₄	24
A250, A290, A390	14	11 ⁷ / ₈	11 ¹ / ₂	8	8	14 ³ / ₄ x 12 ³ / ₄	24
A410, A510	18	14 ³ / ₈	14 ¹ / ₂	8	8	19 ³ / ₈ x 16 ³ / ₈	31
A710, A780	18	14 ³ / ₈	14 ¹ / ₂	10	8	19 ³ / ₈ x 16 ³ / ₈	34
A900, A1050, A1410, A1550	23 ³ / ₄	14 ³ / ₈	14 ³ / ₄	18 ³ / ₄	8	25 x 16 ³ / ₈	56

- For complete dimensional information, see submittal drawings.

Performance Data

Model	RPM	Amps	Watts (Input)	CFM / Static Pressure in inches of W.G.								
					0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750
SP-A110	950	0.58	49	CFM	119	110	106	88	-	-	-	-
				Sones	1.3	1.2	1.2	1.6	-	-	-	-
SP-A125	1100	0.62	53	CFM	135	123	121	104	—	—	—	—
				Sones	1.4	1.7	1.8	1.9	—	—	—	—
SP-A190	1400	1.30	113	CFM	216	197	192	167	133	—	—	—
				Sones	3.2	2.8	2.9	3.1	3.4	—	—	—
SP-A200	900	0.43	48	CFM	247	225	220	196	172	142	105	67
				Sones	2.0	2.3	2.4	3.0	3.5	4.1	4.6	4.5
SP-A250	1000	0.77	83	CFM	272	251	246	227	210	185	157	119
				Sones	2.9	3.0	3.0	3.4	4.4	4.6	4.9	5.2
SP-A290	1050	0.72	81	CFM	315	293	287	257	231	207	175	124
				Sones	3.2	3.3	3.3	3.6	3.9	4.1	4.5	5.5
SP-A390	1350	1.34	135	CFM	410	395	391	368	345	325	307	279
				Sones	5.4	5.4	5.4	5.7	6.0	6.3	6.4	6.7
SP-A410	1000	1.74	121	CFM	443	413	405	351	305	109	—	—
				Sones	4.1	3.8	3.7	3.7	4.3	3.7	—	—
SP-A510	1070	3.30	224	CFM	557	512	501	439	392	325	—	—
				Sones	6.0	5.7	5.6	5.5	5.4	4.7	—	—
SP-A710	1080	4.40	285	CFM	752	714	701	653	588	485	320	—
				Sones	7.4	7.2	7.2	7.0	6.8	6.7	6.5	—
SP-A780	1600	3.30	348	CFM	812	782	775	741	704	665	625	581
				Sones	10.2	10.2	10.2	9.9	9.5	9.5	9.4	9.4
SP-A900	950	4.00	285	CFM	995	907	896	941	773	701	—	—
				Sones	5.2	5.7	5.8	6.1	6.2	6.2	—	—
SP-A1050	1095	6.30	420	CFM	1125	1059	1043	964	885	796	662	—
				Sones	7.2	7.0	6.9	6.8	6.6	6.5	6.5	—
SP-A1410	1450	7.40	786	CFM	1455	1414	1404	1353	1307	1262	1218	1174
				Sones	11.6	11.6	11.7	11.6	11.5	11.6	11.6	11.6
SP-A1550	1610	8.60	818	CFM	1607	1568	1558	1506	1449	1407	1369	1323
				Sones	12.4	12.1	12.1	12.0	11.9	12.8	14.1	15.9

Panasonic WHISPER CEILING SERIES - CEILING MOUNTED VENTILATION FANS


FEATURES:

- Built-in weighted back draft damper
- Low profile, contemporary grille design
- Thermal fuse protection
- Double Hanger Bar for
- Easy Installation
- UL listed for Tub/Shower

WHISPER CEILING SERIES

WhisperCeiling™		FV-08VQ5*		FV-11VQ5*	
Ventilation Fan Characteristics	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25
	Static Pressure in Pascal (Pa)	24.9	62.3	24.9	62.3
	Air Volume (CFM)	80	58	110	94
	Air Volume (L/s)	38	27	52	44
	Noise (sones)	0.3	NA	0.8	NA
	Power Consumption (watts)	22.8	22.6	30.7	30.6
	Energy Efficiency (CFM/watts)	3.5	2.5	3.6	3.1
	Energy Efficiency (L/s/watts)	1.7	1.2	1.7	1.4
	Speed (RPM)	716	909	810	979
	Current (amps)	0.19	0.19	0.26	0.25
Specifications	Power Rating (V/Hz)	120/60		120/60	
	Motor Type	Condenser		Condenser	
	Type of Motor Bearing	Ball		Ball	
	Thermal Fuse Protection	Yes		Yes	
	Blower Wheel Type	Sirocco		Sirocco	
	ENERGY STAR® Qualified	Yes		Yes	
Installation	Duct Diameter (mm/in)	102 / 4		102 / 4	
	Opening Dimension - Square (mm/in)	276 / 10-7/8		276 / 10-7/8	
	Grille Size - Square (mm/in)	330 / 13		330 / 13	
Shipping	Gross Weight (kg/lbs)	6.1 / 13.4		6.1 / 13.9	
Approved Code/Standard Regulation	cUL Tub/Shower Enclosure	Yes		Yes	
	HVI	Yes		Yes	
	Mfg in ISO 9001 Certified Facility	Yes		Yes	

* As of April 2006 Panasonic FV-08VQ5 and FV-11VQ5 are the quietest fans in their CFM class using a 4" (102mm) duct, while FV-15VQ4 is the quietest fan in its CFM class using a 6" (152mm) duct.

ORTECH VENTILATION FANS

ODS-8003

Static Pressure in inches w.g.	0.1	0.25
Air Volume (CFM)	80	65
Noise (sones)	0.3	N/A
Fan Watts	25W	
Duct Diameter	4"	
Power Rating (V/Hz)	120/60	



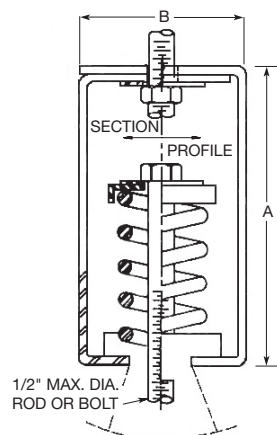
ODS-9003

Static Pressure in inches w.g.	0.1	0.25
Air Volume (CFM)	90	73
Noise (sones)	0.3	N/A
Fan Watts	25W	
Duct Diameter	4"	
Power Rating (V/Hz)	120/60	



ODS-1106

Static Pressure in inches w.g.	0.1	0.25
Air Volume (CFM)	110	87
Noise (sones)	0.6	N/A
Fan Watts	35W	
Duct Diameter	4"	
Power Rating (V/Hz)	120/60	

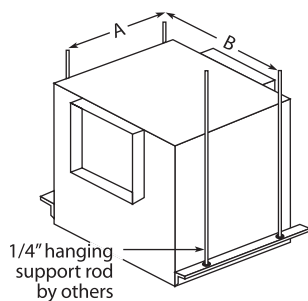
CALDYN BOX SPRING ISOLATORS**SSH**

Box Spring Isolator for 1 Inch Deflection

Model Number	Spring Rate LBS.	Load @ 1" Defl. LBS.	Solid		Color Code	Dimensions "A x B" inches
			Load LBS.	Defl. IN.		
SSH - 15	15	15	28.7	1.9	GREY	5.0 x 2.50
SSH - 30	30	30	48.7	1.6	YELLOW	As above
SSH - 60	60	60	90.0	1.5	RED	As above
SSH - 100	100	100	157.2	1.6	BLUE	As above
SSH - 150	150	150	240.5	1.6	BLACK	As above
SSH - 200	200	200	276.2	1.4	WHITE	As above
SSH - 300	300	300	334.2	1.1	GREEN	As above

Note: Nuts, Bolts, Rods furnished by others.

- Heavy duty 14 GA galv hanger box
- Color coded springs for identification
- EPDM / Neoprene cup to prevent metal to metal contact
- 30 degree swing

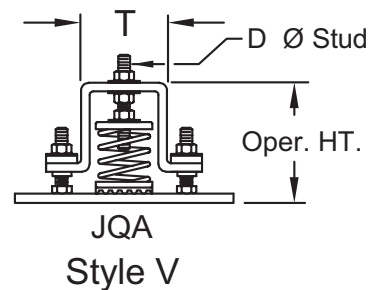
CALDYN HANGING VIBRATION ISOLATORS**CK**

Hanging Vibration Isolators

Unit Sizes	B110-200	A100-190	A250-390	A410-780	A900-1500	A1750
A	4 ¹ / ₂	5 ¹ / ₂	6 ³ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄
B	11 ⁵ / ₈	14 ⁵ / ₈	15 ¹ / ₂	19 ⁵ / ₈	25 ³ / ₈	36 ³ / ₄

Hanging Vibrstion Isolator features:

Vibration isolator kits are available for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of 1/4" threaded rod supplied by others. Fan mounting brackets include pre-punched holes for ease of installation.

CALDYN ISOLATOR/RESTRAINTS**JQA**

Style V

Sizes		
E55	E143	E318
E79	E187	E415
E106	E244	E500

Dimensions

Housing Size	L	W	M	T	D	Approx. Oper. HT.
JQA	7	2	6	2 - 3/4	3/8	1 - 1/2

Honeywell**TOXIC AND COMBUSTIBLE GAS
DETECTOR PLATFORMS****GREENHECK****MOTOR AND FAN CONTROLLERS****E³POINT****Toxic and Combustible Gas Monitor****FLEXIBLE OPERATION**

- Comes in standalone, standalone with remote (dual gas mode) or network versions
- Connects to analog or digital systems
- Works with virtually any BAS including BACnet, Modbus or LonWorks*
- Connects to wired or wireless system (via 301CW wireless controller)
- Wall or duct mount
- Factory-calibrated cartridges

COST EFFECTIVE

- Saves energy through Demand Control Ventilation (DCV)
- Simplifies installation/maintenance through plug-n-play sensor
- Remote sensor option provides dual gas monitoring (standalone version only)
- Optimizes BAS, fire, ventilation and other security systems

VERSATILE COMMUNICATIONS

- Works through BAS to improve fault diagnostics and collect data on gas concentration levels, sensor condition, etc.
- Couple with 301C to log data and daisy-chain up to 96 E³Point units

ADVANCED SENSING TECHNOLOGY

- Detects CO, NO2, O2, H2, H2S, CH4, C3H8
- Advanced electrochemical (for toxic gases) and catalytic bead (for combustible gases) sensor performance
- Uses patented Reflex® and smart cartridge technologies

RANGE OF ACCESSORIES

- Factory-calibrated replacement cartridges
- Power transformer
- Vandal-resistant steel wire detector guards
- Tamper-proof screws
- Horns and strobes

ELECTRICAL CERTIFICATIONS

- US (ANSI/UL 61010-1)
- Canada (CSA C22.2 No. 61010-1)

**FAN SPEED CONTROL**

Speed controls are available in two models for use with shaded pole and open permanent split capacitor motors in 115 volt single phase only.

Model 5W - For applications up to 5.0 amps. Requires 2 x 4 handy box by others.

Model 10W - For applications up to 10.0 amps. Requires 4 x 4 handy box by others.

GREENHECK**TIME DELAY SWITCH****GTD****Time Delay Switch**

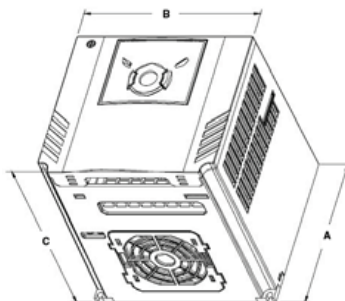
The Model GTD Time Delay Switch is available for keeping a fan or light operating for an extended period of time after the initiating switch has been turned off. The GTD assembly consists of a single pole, single throw switch, a timer and a cover plate.

**aube
technologies****PROGRAMMABLE SWITCH****T1033****Programmable Switch**

This easy-to-install switch handles motors, all types of lighting, and offers the flexibility of 7 programs per week.



COMPACT GS-SERIES VFD



HP	kW	Capacity (kVA)	FLA	Part Number
1	0.75	1.9	5	CI-001-GS2
2	1.5	3	8	CI-002-GS2
5	3.7	6.1	16	CI-005-GS2

Specifications

Output ratings	Voltage (V)	Three phase, 200~230V or Three phase, 380~480V
	Frequency (Hz)	0~400Hz
Input ratings	Voltage (V)	Three phase, 200~230V (+10%, -15%) or Three phase, 380~480V (+10%, -15%)
	Frequency (Hz)	50~60Hz (±5%)
Operation	Control method	Sensorless Vector, V/F control (Space vector PWM)
	Frequency setting resolution	Digital reference: 0.01Hz (below 99Hz) & 0.1Hz (100Hz and over); Analog reference: 0.03Hz at 50Hz
	Frequency setting accuracy	Digital: 0.01% of maximum output frequency; Analog: 0.1% of maximum output frequency
	V/F ratio	Linear; Square; User V/F
	Overload capacity	1 minute at 150%; 30 seconds at 200% (with inverse characteristic proportional to time)
	Torque boost	Auto; Manual (0~15%)
	Assigned terminals	FX (forward), RX (reverse), BX (inverter gate blocking), RST (reset), JOG (jog)
	Programmable input	8 digital inputs
	Analog output	0~10V linear
Input signal	Operator control	4 digit LED display/keypad, Terminals, ModBus communication
	Frequency setting	Analog: 0~10V, 4~20mA, Digital: Keypad, Communication: ModBus
	Start signal	Forward, Reverse
	Multi-step operation	Setting up to 8 speeds (using multi-function terminal)
	Multi-step accel./decel. time	0.1~6000 seconds. Maximum 8 pre-defined steps using multi-function terminals
	Operational functions	DC braking, Frequency limit, Frequency jump, function, Slip compensation, Reverse rotation prevention
	Emergency stop	Stops output from inverter
	Jog	Jog operation
	Fault reset	Resets fault signal when protective function is active
Output signal	Operational status	Frequency detection, Overload alarm, Stall, Overvoltage, Undervoltage, Inverter overheat, Run, Stop, Constant speed, Speed search, Fault output (relay and open collector output)
	Indicator	Output frequency, Output current, Output voltage, DC voltage, rpm
Protective functions	Trip	Overvoltage, Undervoltage, Overcurrent, Inverter overheat, Motor overheat, I/O phase loss, Overload, Speed command loss, Hardware fault, Communication error, etc.
	Alarm	Stall, Overload
Operating environment	Ambient temperature	-10°~ 50° C (14°~122° F)
	Storage temperature	-20°~ 65° C (-4°~149.5° F)
	Humidity	95% Relative Humidity maximum (non-condensing)
	Altitude & Vibration	1000m max, 5.9m/sec ² (0.6g) max.
	Application site	No corrosive gas, flammable gas, oil mist or dust
Dimensions (H x W x D)	CI-000-GS2/GS4, CI-001-GS2/GS4	5.04" x 2.76" x 5.12" (Height is 6.90" w/ NEMA kit)
	CI-002-GS2/GS4	5.04" x 3.94" x 5.12" (Height is 6.90" w/ NEMA kit)
	CI-003-GS2/GS4, CI-005-GS2/GS4	5.04" x 5.51" x 6.10" (Height is 6.90" w/ NEMA kit)
Weight (lbs)	CI-000-GS2/GS4, CI-001-GS2/GS4	1.7 lbs
	CI-002-GS2/GS4	2.5 lbs
	CI-003-GS2/GS4, CI-005-GS2/GS4	4.1 lbs

E.H. PRICE VANCOUVER

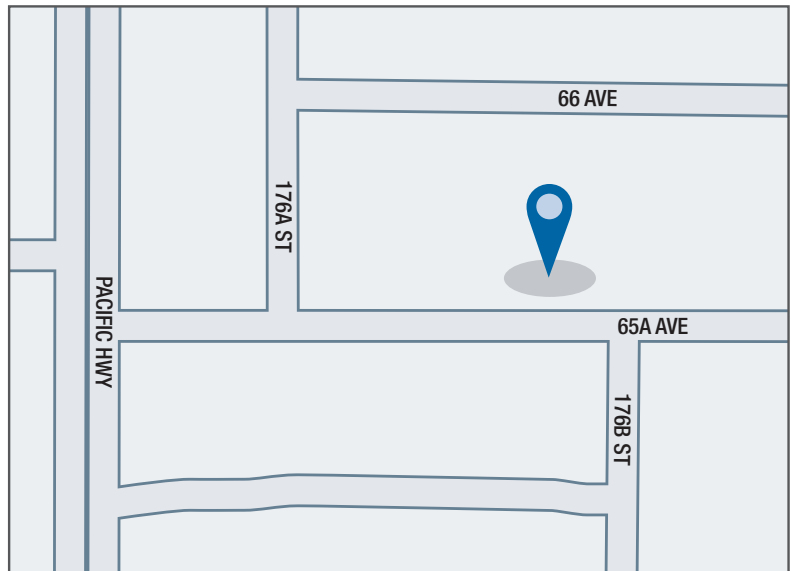
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