

TOROAire AND
HVAC Engineered Products

The logo for Toro Airhouse features the word "TORO" in a vertical, bold, sans-serif font on the left. To its right, the word "AIRHOUSE" is written in a large, bold, sans-serif font. A stylized, metallic-looking swoosh or ribbon graphic curves over the top of the "AIRHOUSE" text, starting from the left and ending on the right. The entire logo is set against a dark blue background.

HVAC-R Wholesale Supplies



Stock Catalog & List Price Guide

Volume 11

Air

we direct it, move it, heat it,
cool it, clean it, remove it. If it
has to do with air, we do it.

www.toroaire.com



Toro-Aire Terms

Prices: All prices are for will call pick-up at any of Toro-Aire's five warehouse locations. Prices are subject to change without notice.

Shipment: Standard orders ship in 2 working days or less. For guaranteed NEXT DAY Shipment, add 10%. For guaranteed SAME DAY Shipment, add 20%. All RUSH orders must be placed by 1:00 pm and are subject to both availability and good credit standing.

Freight: All shipments are FOB our warehouse. All freight charges will be billed freight collect or added to the invoice at the customer's request.

Claims: Claims for damage, shortage or loss in transit must be filed by the Buyer against the carrier. (We will assist in establishing claims for damage and/or losses in transit). All claims must be noted at time of delivery.

Warranties: Toro-Aire extends to buyer the manufacturer's standard warranty, a copy of which is available on request.

Return of Goods: Goods may not be returned without the authorization of Toro-Aire, and may be subject to restocking charges. All materials shall be returned freight prepaid.

Title: The title to all materials and/or equipment and to any and all additions and accessories thereto and substitutions therefore, shall remain with Seller until the purchase price thereof is paid in full.

Taxes: California sales tax will be added to each sale unless a sales tax license or valid tax exemption certificate is on file.

Credit and Terms of Payment: Net thirty (30) days from date of our invoice for customers with approved credit. A service charge of 1-1/2% per month will be charged and collected on all past due account balances. Credit card payment is also accepted at time of purchase.



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VIVACE FEATURES:

- Ultra green High-Seer design
- Style, sophistication, and elegance in design
- Micro Plasma Ion system produces fresh clean air
- Energy efficient and quiet fan
- Improved low temperature operation
- Auto changeover, waterfall heating airflow, double water leakage protection system
- 1-1/2 and 2 ton units also available, call for price and availability



Vivace System

HEAT PUMP – SINGLE ZONE

Model	Cooling (Btu/h)	SEER	Heating (Btu/h)	Refrigerant	Voltage	Indoor CFM	Line Set Size	Indoor List SKU	Outdoor List SKU
AQV12B_*	12,000	19	13,600	R410A	208/230V-1Ph-60Hz	320	1/4" x 3/8"	2595 29132	3890 29133

*For indoor unit add suffix "A" to the model number, for outdoor unit add suffix "AX".

CLASSIC MINI-SPLITS**CLASSIC FEATURES:**

- Ultra green High-Seer design
- Silver nano-coated technology serves to remove condensation and traps/removes dust particles in filter
- Activated carbon filter efficiently absorbs all odors
- Catechin filter deactivates captured bacteria
- Anti-bacterial cross fan suppresses the proliferation of molds and bacteria

**HEAT PUMP – SINGLE ZONE**

Model	Cooling (Btu/h)	SEER	Heating (Btu/h)	Refrigerant	Voltage	Indoor CFM	Line Set Size	Indoor List SKU	Outdoor List SKU
AQV09J_*	9,000	19	11,950	R410A	208/230V-1Ph-60Hz	250	1/4" x 3/8"	1985 29130	2980 29131
AQV12J_*	12,000	18	13,600	R410A	208/230V-1Ph-60Hz	285	1/4" x 3/8"	2375 29134	3560 29135
AQV18J_*	18,000	16	20,500	R410A	208/230V-1Ph-60Hz	460	1/4" x 1/2"	3290 29136	4930 29137
AQV24J_*	24,000	15	27,000	R410A	208/230V-1Ph-60Hz	530	1/4" x 5/8"	3540 29138	5310 29139
AQV36J_*	38,000	18	34,000	R410A	208/230V-1Ph-60Hz	1230	1/4" x 5/8"	5370 29140	8050 29141

*For indoor unit add suffix "A" to the model number, for outdoor unit add suffix "AX".

SINGLE ZONE FEATURES:

- Anti-corrosive condenser withstands salty air, rain and other deteriorating elements
- Unobtrusive indoor & outdoor unit design
- Bio-evaporator efficiently kills bacteria and odors
- Functions include auto restart, sleep mode and turbo mode


COOLING ONLY – SINGLE ZONE

Model	Cooling (Btu/h)	SEER	Heating (Btu/h)	Refrigerant	Voltage	Indoor CFM	Line Set Size	Indoor List SKU	Outdoor List SKU
C*C09M1Z	9,000	13	–	R410A	115V-1Ph-60Hz	340	1/4" x 3/8"	1035 13166	1550 13113
C*C12M1Z	12,000	13	–	R410A	115V-1Ph-60Hz	370	1/4" x 1/2"	1125 13114	1690 13115
C*C18M2Z	18,000	13	–	R410A	208/230V-1Ph-60Hz	675	1/4" x 1/2"	1385 13117	2770 13118
C*C24M2Z	24,000	13	–	R410A	208/230V-1Ph-60Hz	800	3/8" x 5/8"	1795 13119	3580 13120

*For indoor unit insert "I" into the model number, for outdoor units insert "O".

HEAT PUMP – SINGLE ZONE

Model	Cooling (Btu/h)	SEER	Heating (Btu/h)	Refrigerant	Voltage	Indoor CFM	Line Set Size	Indoor List SKU	Outdoor List SKU
C*H09M1Z	9,000	13	10,000	R410A	115V-1Ph-60Hz	340	1/4" x 3/8"	975 13121	1460 13122
C*H12M1Z	12,000	13	12,500	R410A	115V-1Ph-60Hz	370	1/4" x 1/2"	1175 13168	1760 13169
C*H18M2Z	18,000	13	18,000	R410A	208/230V-1Ph-60Hz	675	1/4" x 1/2"	1455 13125	2900 13126
C*H24M2Z	24,000	13	24,000	R410A	208/230V-1Ph-60Hz	800	3/8" x 5/8"	1855 13127	3705 13128

*For indoor unit insert "I" into the model number, for outdoor units insert "O".


COAIRE
MINI-SPLIT LINE SETS
FEATURES:

- Charged with R410A refrigerant
- Includes pre-brazed fitting adapters
- Includes unit-to-unit control wire


SAMSUNG LINE SETS

Model	Use with	Description	List Price	SKU
ILS2506	AQV09 & 12	25 ft., 1/4" x 3/8", 14-3 and 16-2 wire	730	29100
ILS2507	AQV18	25 ft., 1/4" x 1/2", 14-3 and 16-2 wire	780	29101
ILS2509	AQV24 & 36	25 ft., 1/4" x 5/8", 14-3 and 16-2 wire	830	29102
ILS5006	AQV09 & 12	50 ft., 1/4" x 3/8", 14-3 and 16-2 wire	980	29103
ILS5007	AQV18	50 ft., 1/4" x 1/2", 14-3 and 16-2 wire	1040	29104
ILS5009	AQV24 & 36	50 ft., 1/4" x 5/8", 14-3 and 16-2 wire	2175	29142

COAIRE LINE SETS

Model	Use with	Description	List Price	SKU
CLS09-25	CIC & CIH-09	25 ft., 1/4" x 3/8", 18-4 Tstat wire	480	13129
CLS12-25	CIC & CIH-12	25 ft., 1/4" x 1/2", 18-4 Tstat wire	520	13131
CLS18-25	CIC & CIH-18	25 ft., 1/4" x 1/2", 7 wire 14AWG	810	13133
CLS24-25	CIC & CIH-24	25 ft., 3/8" x 5/8", 7 wire 14AWG	895	13135
CLS09-50	CIC & CIH-09	50 ft., 1/4" x 3/8", 18-4 Tstat wire	715	13130
CLS12-50	CIC & CIH-12	50 ft., 1/4" x 1/2", 18-4 Tstat wire	810	13132
CLS18-50	CIC & CIH-18	50 ft., 1/4" x 1/2", 7 wire 14AWG	1315	13134
CLS24-50	CIC & CIH-24	50 ft., 3/8" x 5/8", 7 wire 14AWG	1500	13136

INSTALLATION ACCESSORIES

Model	Use with	Description	List Price	SKU
LINE SET TAPE	All	2" black, UV resistant	35	12418
LINE SET COVER	All	Metal Line Set cover 3"x 4"	95	71173

ASPEN
MINI-SPLIT CONDENSATE PUMPS
FEATURES:

- Designed for installation inside casing of mini-split evaporator unit where space permits, or inside of line set cover
- Quick & easy to install
- Pumps will quietly & reliably pump condensate water to a maximum height of 26 ft.
- 2 reservoir options supplied for installation flexibility
- Fits any mini-split up to 24,000 Btu/h



Model	Description	List Price	SKU
ASP MO 115	115V mini-split condensate pump, use with CIC & CIH 09-12	675	29110
ASP MO 230	208/230V mini-split condensate pump, use with CIC & CIH 12-24	675	29111

FEATURES:

- L-Shaped bracket for wall mounting outdoor units
- Incorporates cross bar stability
- Heavy gauge painted steel construction



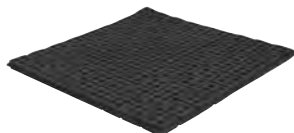
Bracket 18

Model	Description	Suitable for	List Price	SKU
BRACKET 18	18" bracket, max. load 330 lbs.	All outdoor units in this catalog	230	12604
BRACKET 21	21" bracket, max. load 440 lbs.	Applications requiring more wall clearance	245	12605

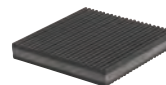
VIBRATION MOUNTING PADS

FEATURES:

- All pads greatly reduce vibration & sound
- Equipment pad secures A/C unit, especially in earthquake-prone areas



ISO Pad ECP18



ISO Pad MP6C



Equipment Pad

Model	Description	List Price	SKU
EQUIPMENT PAD	36" x 16" x 3" A/C Ultralite equipment pad	105	12725
ISO PAD ECP18	18" x 18" x 3/4" 60 lbs./sq. inch all rubber easy cut pad	225	12601
ISO PAD MP3C	3" x 3" x 1" 50 lbs./sq. inch cork & rubber sandwich mounting pad	13	12602
ISO PAD MP6C	6" x 6" x 1" 50 lbs./sq. inch cork & rubber sandwich mounting pad	20	12603

MINI-SPLIT AMBIENT CONTROLS

FEATURES:

- Helps prevent evaporator freeze-ups
- Low temperature cut-off
- Line voltage 120, 208/240



P170AA 400C



ICM326HN

Model	Manufacturer	Description	List Price	SKU
P170AA 400C	Johnson Controls	Low ambient control, R410A, 100/470 psi, 1/4" male fit	220	21370
ICM326HN	ICM Controls	Low ambient control/probe, hard start, built-in transformer	700	22110

DCRD

FEATURES:

- Direct drive for less maintenance, simpler construction, lower cost, and easier installation
- Spun aluminum housing, non-overloading backwardly inclined aluminum wheel, and forced motor cooling
- AMCA listed for Air & Sound, UL listed
- Aluminum bird screen and safety disconnect included
- All motors are dual voltage 115/208-230V (wired for 115V)
- Thermal overload protected motors

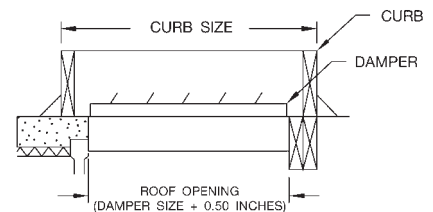
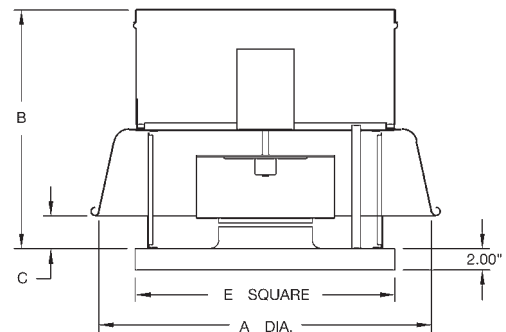


**Models:
DCRD60 through DCRD150**

Model	A	B	C	E	Avg. Ship Wt. (lbs.)
060	18.50	15.63	2.06	17.00	30
070	18.50	15.63	2.06	17.00	30
080	18.50	15.63	2.06	17.00	32
085	21.00	19.31	2.63	17.00	43
090	21.00	19.31	2.63	17.00	43
095	21.00	19.31	2.63	17.00	43
100	21.00	17.31	2.63	17.00	48
120	27.88	22.38	3.63	20.00	50
130	27.88	23.25	4.44	24.00	65
140	27.88	23.50	4.69	24.00	67
150	31.06	26.75	4.63	24.00	77

Notes:

1. All dimensions are in inches unless otherwise indicated
2. Average ship weight is for fan and motor assembly



See page 6 for
curb and damper sizes



Twin City Fan & Blower certifies that the DCRD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



The DCRD model is cULus 705 listed for electrical, File No. E158680.

Model	HP	SSC Amps	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												List Price SKU	Backdraft Damper		Roof Curb	
				0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP			Size	Add SKU	Size	Add SKU
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones					
DCRD 060 (1)	1/8	6	1350	174	4.2	121	4.4	–	–	–	–	–	–	–	–	1015 35317	10x10	105 44103	15.5x15.5	285 31438
			1500	203	5.6	159	5.7	91	5.2	–	–	–	–	–	–					
			1650	231	7.9	193	6.8	147	6.6	–	–	–	–	–	–					
DCRD 070 (1)	1/8	6	1350	266	5.1	176	5.2	–	–	–	–	–	–	–	–	1015 35318	10x10	105 44103	15.5x15.5	285 31438
			1500	312	6.2	235	6.1	–	–	–	–	–	–	–	–					
			1650	355	8.0	289	7.7	214	7.1	–	–	–	–	–	–					
DCRD 080 (1)	1/8	6	1350	319	5.1	198	5.2	–	–	–	–	–	–	–	–	1100 35319	10x10	105 44103	15.5x15.5	285 31438
			1500	376	6.2	277	6.0	–	–	–	–	–	–	–	–					
			1650	432	7.5	345	7.7	240	7.3	–	–	–	–	–	–					
DCRD 085 (1)	1/8	6	1350	512	7.7	443	6.6	364	7.0	268	6.7	–	–	–	–	1125 35320	10x10	105 44103	15.5x15.5	285 31438
			1500	581	8.9	522	7.9	457	8.4	381	7.6	291	7.9	–	–					
			1650	650	10.2	598	9.6	540	9.1	479	9.6	407	9.0	325	9.1					
DCRD 090 (1)	1/8	6	1350	663	7.6	574	6.8	467	6.8	340	6.8	–	–	–	–	1125 35321	10x10	105 44103	15.5x15.5	285 31438
			1500	754	8.9	678	8.1	589	8.4	488	7.7	370	8.0	–	–					
			1650	842	10.4	776	9.8	701	9.3	616	9.8	521	9.2	413	9.5					
DCRD 095 (1)	1/8	6	1350	889	8.3	767	7.8	623	7.5	411	7.1	–	–	–	–	1125 35322	10x10	105 44103	15.5x15.5	285 31438
			1500	1012	10.6	905	9.8	789	9.9	644	8.4	443	8.4	–	–					
			1650	1131	13.6	1038	12.8	936	11.7	823	12.4	682	10.1	497	10.1					
DCRD 100	1/8	6	1160	855	8.5	687	8.5	467	7.7	–	–	–	–	–	1615 35323	10x10	105 44103	15.5x15.5	285 31438	
DCRD 120	1/8	6	1160	1168	9.0	985	8.3	768	8.0	496	8.2	–	–	–	–	1645 35326	14x14	140 44106	18.5x18.5	320 38001
DCRD 130	1/4	6	1160	1646	12.1	1470	11.5	1282	12.9	1048	12.1	760	12.7	–	–	1845 35329	18x18	160 44108	22.5x22.5	360 38002

(1) Fan comes with 3-speed motor wired to high speed setting. For 1500 or 1350 RPM selections change wiring in field to second or third taps, or use a solid state speed control.

(2) Speed control may only be applied to the 1500 and 1650 RPM taps. Approximate speed reduction is 35%.

Related items

Fan Speed Controls – Page 29



BCRD

FEATURES:

- Belt driven for larger air volumes and higher statics
- Spun aluminum housing, non-overloading backwardly inclined aluminum wheel, and forced motor cooling
- AMCA licensed for Air & Sound, UL listed
- Aluminum bird screen and safety disconnect included
- All single phase motors are dual voltage 115/208-230V (wired for 115V)
- All three phase motors are dual voltage 208-230/460V (wired for 460V)
- Thermal overload protected motors

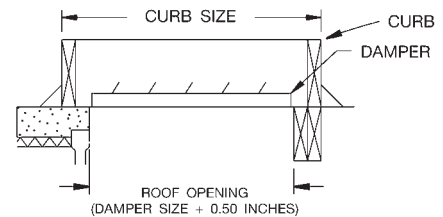
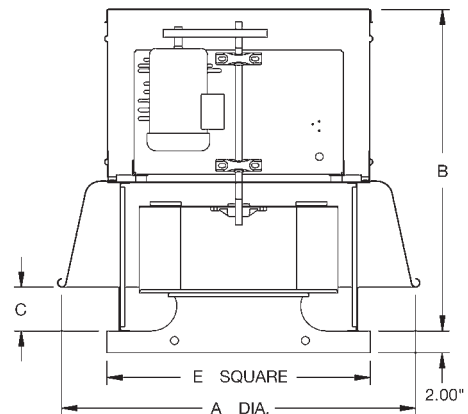


**Models:
BCRD70 through BCRD240**

Model	A	B	C	E	Avg. Ship Wt. (lbs.)
070	25.88	22.13	2.02	17.00	58
075	25.88	22.13	2.02	17.00	58
085	27.88	23.94	2.38	17.00	67
100	27.88	23.94	2.38	20.00	74
120	30.44	28.13	2.56	20.00	78
140	30.44	28.25	2.81	24.00	93
160	32.63	29.00	3.38	26.00	107
180	38.38	33.88	3.75	30.00	130
210	38.38	34.06	4.00	30.00	160
240	43.13	35.88	4.83	34.00	220

Notes:

1. All dimensions are in inches unless otherwise indicated
2. Average ship weight is for fan and motor assembly



See pages 8-11 for
curb and damper sizes



Twin City Fan & Blower certifies that the BCRD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



BCRD models are cULus 705 listed for electrical, File No. E158680.



BELT DRIVEN ROOF EXHAUSTERS

FANS

B

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)						Single Phase List Price SKU	Three Phase List Price SKU	Backdraft Damper		Curb	
			0.125" SP	0.250" SP	0.375" SP	0.500" SP	.625" SP	.750" SP			Size	Add SKU	Size	Add SKU
			Sones BHP	Sones BHP	Sones BHP	Sones BHP	Sones BHP	Sones BHP						
BCRD 160	1/4	475	1001 2.8 0.04						2630 35024	–	20x20	190 44109	24.5x24.5	380 38003
		625	1590 4.8 0.08	1235 4.9 0.08										
	1/4	775	1987 7.6 0.14	1783 6.5 0.15	1551 7.0 0.15	1199 5.8 0.15			2630 35025	–	20x20	190 44109	24.5x24.5	380 38003
		930	2449 10.6 0.24	2296 9.6 0.25	2117 8.7 0.26	1927 9.2 0.26	1697 9.1 0.26							
	1/3	975	2582 11.4 0.27	2438 10.4 0.28	2273 9.7 0.30	2093 9.8 0.30	1898 10.0 0.30	1634 8.8 0.30	2670 35026	–	20x20	190 44109	24.5x24.5	380 38003
		1020	2713 12.1 0.31	2578 11.5 0.32	2425 10.4 0.33	2255 10.0 0.34	2078 10.6 0.35	1865 10.3 0.34						
	1/2	1100	2945 13.3 0.39	2822 13.0 0.40	2687 12.0 0.41	2535 11.2 0.43	2376 11.4 0.43	2209 12.0 0.44	2865 35027	2970 35028	20x20	190 44109	24.5x24.5	380 38003
		1180	3176 14.5 0.48	3063 14.5 0.49	2942 13.6 0.50	2807 12.7 0.52	2661 12.3 0.53	2512 12.8 0.54						
	3/4	1260	3405 16.2 0.58	3301 16.2 0.59	3190 15.4 0.61	3070 14.5 0.62	2938 13.7 0.64	2800 13.6 0.65	3195 35029	3110 35030	20x20	190 44109	24.5x24.5	380 38003
		1340	3634 17.6 0.70	3537 17.6 0.71	3435 17.2 0.73	3326 16.2 0.74	3207 15.3 0.76	3080 14.7 0.77						

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)								Single Phase List Price SKU	Three Phase List Price SKU	Backdraft Damper		Curb			
			0.125" SP		0.250" SP		0.375" SP		0.500" SP				.750" SP		Size	Add SKU	Size	Add SKU
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP			Sones	BHP				
BCRD 180	1/3	575	2389		2036		1632						3060 35035	–	24x24	235 44111	28.5x28.5	440 38004
			6.5	0.16	6.4	0.17	6.2	0.17										
		725	3207		2882		2613		2328									
			10.8	0.31	8.9	0.33	9.3	0.34	10.0	0.35								
	1/2	780	3498		3192		2924		26.81		2019		3260 35036	3375 35037	24x24	235 44111	28.5x28.5	440 38004
			12.3	0.39	10.4	0.41	10.0	0.42	11.1	0.43	9.5	0.43						
		830	3761		3472		3203		2977		2440							
			13.9	0.47	11.8	0.48	11.2	0.50	11.8	0.51	12.1	0.53						
	3/4	890	4073		3804		3541		3316		2864		3595 35038	3505 35039	24x24	235 44111	28.5x28.5	440 38004
			15.8	0.57	13.9	0.59	12.6	0.61	12.6	0.62	14.0	0.64						
		950	4383		4131		3880		3652		3250							
			17.6	0.69	15.9	0.71	14.2	0.73	14.0	0.75	15.0	0.77						
	1	1000	4640		4400		4160		3933		3550		– 35031	3610 35031	24x24	235 44111	28.5x28.5	440 38004
			19.0	0.80	17.2	0.83	15.7	0.85	15.0	0.87	15.8	0.90						
1045		4870		4640		4411		4187		3808								
		20.0	0.91	19.1	0.94	17.2	0.96	16.1	0.98	16.6	0.01							

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)						Single Phase List Price SKU	Three Phase List Price SKU	Backdraft Damper		Curb	
			0.125" SP	0.250" SP	0.375" SP	0.500" SP	.625" SP	.750" SP			Size	Add SKU	Size	Add SKU
			Sones BHP	Sones BHP	Sones BHP	Sones BHP	Sones BHP	Sones BHP						
BCRD 210	1/3	480	2673 6.2 0.17	2193 6.1 0.18	1535 5.2 0.18				3045 35044	–	24x24	235 44111	28.5x28.5	440 38004
		595	3507 10.1 0.31	3125 8.3 0.33	2747 8.8 0.35	2311 8.2 0.35	1588 7.4 0.32							
	1/2	650	3890 12.5 0.40	3558 10.2 0.42	3199 9.8 0.44	2845 10.5 0.46	2407 9.1 0.46	1705 8.5 0.42	3290 35045	3400 35046	24x24	235 44111	28.5x28.5	440 38004
		680	4096 13.4 0.45	3789 11.4 0.48	3439 10.5 0.50	3111 11.3 0.52	2739 10.8 0.53	2188 9.3 0.50						
	3/4	720	4369 15.1 0.53	4089 13.3 0.56	3758 11.6 0.59	3446 12.2 0.61	3120 12.7 0.63	2732 11.2 0.63	3620 35047	3535 35048	24x24	235 44111	28.5x28.5	440 38004
		770	4707 17.0 0.65	4452 15.7 0.68	4154 13.7 0.70	3850 13.3 0.73	3562 14.3 0.76	3244 14.3 0.77						

BCRD 210 performance continued on next page



BELT DRIVEN ROOF EXHAUSTERS

BCRD 210 performance continued from previous page

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)										Single Phase List Price <i>SKU</i>	Three Phase List Price <i>SKU</i>	Backdraft Damper		Curb			
			0.125" SP		0.250" SP		0.375" SP		0.500" SP		.625" SP				.750" SP		Size	Add <i>SKU</i>	Size	Add <i>SKU</i>
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP			Sones	BHP				
BCRD 210	1	800	4909		4667		4389		4089		3812		3520		–	3635 <i>35040</i>	24x24	235 <i>44111</i>	28.5x28.5	440 <i>38004</i>
			18.2	0.72	17.2	0.75	15.0	0.78	14.3	0.81	14.8	0.84	15.4	0.86						
		855	5277		5054		4808		4527		4257		3999							
			20.0	0.88	19.2	0.91	17.6	0.94	16.1	0.97	16.1	1.00	16.7	1.03						
	1-1/2	900	5577		5368		5141		4882		4616		4369		–	3825 <i>35041</i>	24x24	235 <i>44111</i>	28.5x28.5	440 <i>38004</i>
			22.0	1.02	21.0	1.05	19.8	1.09	18.1	1.12	17.3	1.15	17.7	1.19						
		975	6073		5884		5681		5459		5213		4970							
			25.0	1.29	25.0	1.33	23.0	1.36	22.0	1.40	20.0	1.44	19.6	1.47						

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)										Single Phase List Price	Three Phase List Price	Backdraft Damper		Curb			
			0.125” SP		0.250” SP		0.375” SP		0.500” SP		.625” SP				.750” SP		Size	Add SKU	Size	Add SKU
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	SKU	SKU				
BCRD 240	1/2	530	4864		4405		3856		3315		2575				4405 35054	4510 35055	28x28	305 44112	32.5x32.5	505 38005
			9.1	0.41	8.5	0.44	8.8	0.47	8.8	0.47	7.7	0.46								
		550	5082		4640		4134		3600		3002									
			9.7	0.45	8.9	0.49	9.3	0.52	9.5	0.53	8.2	0.53								
	3/4	580	5407		4987		4538		4010		3516		2806		4735 35056	4650 35057	28x28	305 44112	32.5x32.5	505 38005
			10.8	0.52	10.0	0.57	10.0	0.60	10.6	0.61	10.3	0.62	9.2	0.60						
		625	5891		5497		5160		4634		4164		3683							
			12.5	0.65	12.0	0.70	11.6	0.73	12.0	0.76	12.5	0.77	11.5	0.78						
	1	650	6158		5777		5406		4977		4505		4073		–	4750 35049	28x28	305 44112	32.5x32.5	505 38005
			13.3	0.72	12.8	0.78	12.5	0.82	12.6	0.85	13.4	0.87	13.1	0.87						
			6583	6222		5874		5502		5059		4634								
		690	14.9	0.86	14.4	0.92	14.0	0.96	13.9	1.00	14.7	1.02	14.9	1.04						
	1-1/2	750	7216		6883		6558		6236		5875		5460		–	4940 35050	28x28	305 44112	32.5x32.5	505 38005
			16.8	1.09	16.5	1.16	16.0	1.21	15.8	1.26	15.9	1.29	16.6	1.32						
			7636	7320		7008		6704		6384		6013								
		790	18.1	1.26	17.6	1.34	17.2	1.40	16.9	1.45	16.8	1.49	17.3	1.53						
	2	840	8158		7860		7565		7278		6989		6674		–	5165 35051	28x28	305 44112	32.5x32.5	505 38005
			19.8	1.50	19.6	1.59	19.1	1.66	18.7	1.72	18.6	1.77	18.6	1.81						
			8470	8183		7897		7618		7342		7051								
		870	21.0	1.67	21.0	1.75	19.8	1.83	19.5	1.89	19.2	1.94	19.2	1.99						

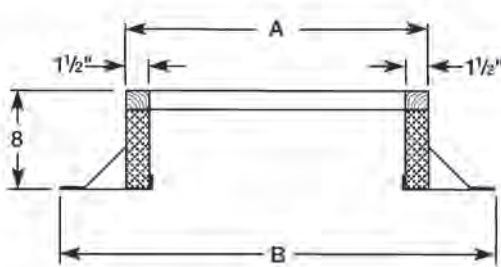
CANTED ROOF CURBS

FEATURES:

- Galvanized steel construction
- Self-flashing design
- Insulated
- Wood nailer



Model: CURB 08



Model	A	B	List Price	SKU
CURB 08 15H	15.5	23.5	285	31438
CURB 08 18H	18.5	26.5	320	38001
CURB 08 22H	22.5	30.5	360	38002
CURB 08 24H	24.5	32.5	380	38003
CURB 08 28H	28.5	36.5	440	38004
CURB 08 32H	32.5	40.5	505	38005
CURB 08 38H	38.5	46.5	600	38006
CURB 08 44H	44.5	52.5	690	38007
CURB 08 50H	50.5	58.5	785	38008
CURB 08 56H	56.5	64.5	880	38009

TWIN CITY FANS

SINGLE PHASE

HP	115V	208V	230V
1/6	3.8	2.0	1.9
1/4	4.2	2.1	2.1
1/3	6.2	3.1	3.1
1/2	8.2	4.1	4.1
3/4	10.0	5.0	5.0
1	13.7	6.8	6.8

The above values of full-load currents are for motors running at usual speeds for direct connected motors with normal torque characteristics. Motors built for especially low speeds or high torques may have higher full-load currents and multi-speed motors will have full-load current varying with speed, in which case the nameplate current ratings apply.

The voltages listed are rated motor voltages. The currents listed are permitted for system voltage ranges of 110 to 120 and 230 to 240 volts.

THREE PHASE

HP	208V	230V	460V
1/2	2.4	2.4	1.2
3/4	1.7	1.7	0.9
1	3.6	3.6	1.8
1-1/2	4.8	4.8	2.4
2	6.0	6.0	3.0
3	9.3	8.4	4.2
5	14.6	13.2	6.6

The table data shown above is from the NEC 1996 edition, table 430-150.

The above values of full-load currents are typical for motors running at speeds usual for belted motors with normal torque characteristics. Motors built for low speeds (1200 RPM or less) or high torques may require more running current, and multi-speed motors will have full-load current varying with speed, in which case the nameplate current ratings apply.

The voltages listed are rated motor voltages. The currents listed are permitted for system voltage ranges of 230 to 240 and 440 to 480 volts.

The amperages given here are approximate values only and represent averages compiled from the tables of leading motor manufacturers. Overload relay heaters should not be selected on the basis of these tables only. Heaters must be selected in accordance with the actual motor current as shown on the nameplate. It is also important that ambient temperatures of the area in which the motor control is located be taken into consideration when making heater selection. Ambient compensated overload relays are available for abnormal temperature conditions.

NOTE: On most Twin City roof exhausters the motor synchronous speed is 1800 RPM.

BCRUR

FEATURES:

- Upblast design ideal for exhausting fumes and contaminants
- UL 762 listed for grease exhaust applications
- AMCA licensed for Air & Sound, UL listed
- Spun aluminum housing, non-overloading backwardly inclined aluminum wheel, and forced motor cooling
- Safety disconnect included
- All single phase motors are dual voltage 115/208-230V (wired for 115V)
- All three phase motors are dual voltage 208-230/460V (wired for 460V)
- Screen kits available for non-grease applications
- Thermal overload protected motors

Model	A	B	C	E	Avg. Ship Wt. (lbs.)
110	30.00	28.56	28.00	24.00	135
120	30.00	27.19	28.00	24.00	135
140	30.00	27.68	28.00	24.00	145
140HP	30.00	28.58	28.00	24.00	135
160MP	30.00	28.44	28.00	24.00	180
180MP	36.00	29.19	30.00	30.00	180
210HP	45.00	32.94	28.25	34.00	245
240HP	45.00	34.31	28.25	34.00	245

Notes:

1. All dimensions are in inches unless otherwise indicated
2. Average ship weight is for fan and motor assembly



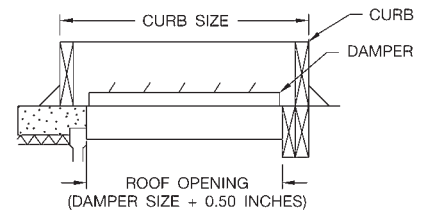
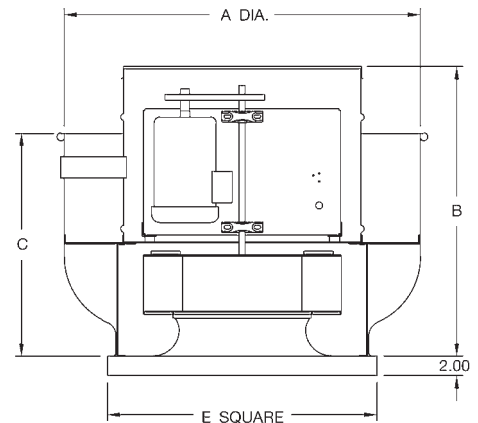
Twin City Fan & Blower certifies that the BCRUR Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



BCRUR models are cULus 705 listed, for electrical, File No. E158680. The BCRUR models are also cULus 762 listed, for the exhaust of grease-laden air, File No. MH-25478.



Models:
BCRUR110 through BCRUR240



See pages 14-16 for
curb and damper sizes

BCRUR Galvanized Steel Bird Screen Kits (for non-grease applications only)

Fan Size	List Price	SKU
110, 120, 140, 160	55	35546
180	100	35547
210, 240	115	35548



BELT DRIVEN UPBLAST EXHAUSTERS

FANS

B

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												Single Phase List Price	Three Phase List Price	Backdraft Damper		Curb	
			0.50" SP		0.75" SP		1.00" SP		1.50" SP		2.00" SP		2.50" SP							
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	SKU	SKU	Size	Add SKU	Size	Add SKU
BCRUR 210HP	3/4	850	3491		3041		2574								5275 35144	5015 35145	28x28	305 44112	32.5x32.5	715 38012
			11.3	0.54	12.5	0.61	11.1	0.66												
		895	3762		3344		2913													
			12.1	0.61	13.5	0.69	12.3	0.75												
	1	950	4085		3705		3296		2287						–	5245 35138	28x28	305 44112	32.5x32.5	715 38012
			13.4	0.72	14.2	0.79	14.3	0.87	14.0	0.91										
		990	4317		3959		3569		2720											
			14.8	0.80	14.8	0.87	15.4	0.96	14.7	1.05										
	1-1/2	1050	4661		4330		3972		3224						–	5385 35139	28x28	305 44112	32.5x32.5	715 38012
			16.5	0.94	15.7	1.01	17.0	1.10	15.6	1.23										
		1135	5141		4837		4520		3840		3064									
			19.1	1.15	18.1	1.24	18.3	1.32	18.8	1.51	18.6	1.58								
	2	1200	5504		5216		4924		4286		3624		2503		–	5790 35140	28x28	305 44112	32.5x32.5	715 38012
			21.0	1.34	19.4	1.43	19.3	1.52	21.0	1.73	19.8	1.85	20.0	1.77						
		1250	5781		5503		5226		4625		4006		3235							
			23.0	1.50	21.0	1.59	20.0	1.68	22.0	1.90	21.0	2.06	22.0	2.10						

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												Single Phase List Price	Three Phase List Price	Backdraft Damper		Curb							
			0.50" SP		0.75" SP		1.00" SP		1.50" SP		2.00" SP		2.50" SP													
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	SKU	SKU	Size	Add SKU	Size	Add SKU				
BCRUR 240HP	1	780	4473		3924		3264								–	6705 35155	28x28	305 44112	32.5x32.5	715 38012						
			13.5	0.73	15.2	0.82	13.0	0.89																		
		825	4838		4348		3765		1820												–	6840 35156	28x28	305 44112	32.5x32.5	715 38012
			14.1	0.83	15.6	0.94	15.3	1.02	13.1	0.92																
	1-1/2	880	5273		4841		4329		3043						–	6840 35156	28x28	305 44112	32.5x32.5	715 38012						
			15.3	0.98	16.0	1.09	17.0	1.19	15.2	1.28																
		940	5741		5352		4904		3819												–	7245 35157	28x28	305 44112	32.5x32.5	715 38012
			16.5	1.16	16.5	1.28	17.9	1.40	15.9	1.56																
	2	990	6127		5761		5359		4390		3090				–	7245 35157	28x28	305 44112	32.5x32.5	715 38012						
			17.8	1.32	17.3	1.46	18.2	1.58	18.4	1.79	17.3	1.79														
		1035	6473		6121		5753		4870		3781										–	7470 35158	28x28	305 44112	32.5x32.5	715 38012
			19.2	1.48	18.2	1.62	18.5	1.76	19.9	1.99	18.4	2.10														
	3	1100	6969		6633		6300		5519		4580		3328		–	7470 35158	28x28	305 44112	32.5x32.5	715 38012						
			22.0	1.75	20.0	1.89	19.8	2.04	22.0	2.30	20.0	2.50	20.0	2.43												
		1185	7612		7293		6987		6316		5518		4585								–	7470 35158	28x28	305 44112	32.5x32.5	715 38012
			25.0	2.13	23.0	2.29	22.0	2.45	24.0	2.75	25.0	3.0	23.0	3.15												

VENTED CURBS

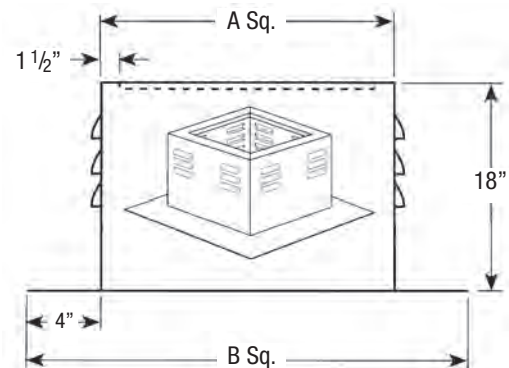
FEATURES:

- Galvanized steel construction
- One-piece vented design
- Meets NFPA requirements for a 40" discharge height with BCRUR Series grease exhaust fan

Model	A	B	Curb List Price	SKU	Hinged Kit List Add	SKU
CURB18 23H	23.5	31.5	575	38010	200	35543
CURB18 29H	29.5	37.5	660	38011	270	35544
CURB18 33H	33.5	41.5	715	38012	305	35545
CURB18 36H	39.5	47.5	810	38013		
CURB18 44H	45.5	53.5	985	38014		

BCRUR grease box with drain (attaches to curb)					
List Price	345	SKU		35549	

Model: CURB 18





DIRECT DRIVE SQUARE INLINE FAN

DSI

FEATURES:

- Direct drive for easier maintenance and lower cost
- AMCA licensed for Air & Sound, UL listed
- Compact galvanized housing with removable side panels
- Non-overloading, backwardly inclined aluminum wheel
- Motor enclosure and safety disconnect included
- All motors are dual voltage 115/208-230V (wired for 115V)
- Thermal overload protected motors

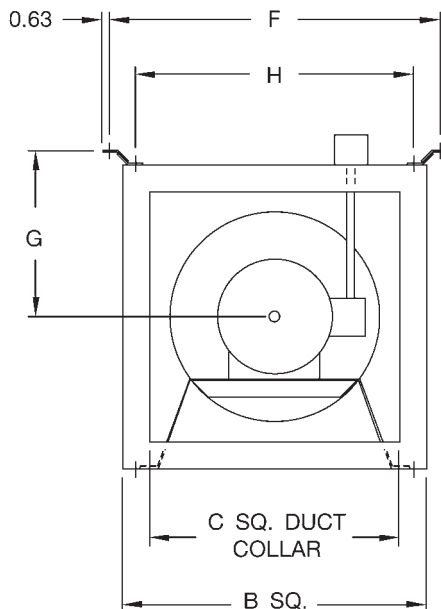


Model	A	B	C	D	E	F	G	H	Avg. Ship Wt. (lbs.)	Side Discharge Size
080A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	93	11.88 x 11.88
090A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	96	11.88 x 11.88
100A	20.50	17.81	13.88	1.00	19.00	21.06	10.38	16.00	106	13.88 x 13.88
120A	21.50	19.38	15.88	1.00	20.00	22.06	11.13	17.00	127	15.88 x 15.88
135A/135AN	23.00	21.56	17.88	1.00	21.50	24.25	12.19	19.16	132	17.88 x 17.88
150A/150AN	24.00	23.82	19.88	1.00	22.50	26.38	13.29	21.31	157	19.88 x 19.88
165A/165AN	26.00	26.50	22.88	1.00	24.50	29.06	14.64	24.00	167	22.88 x 22.88

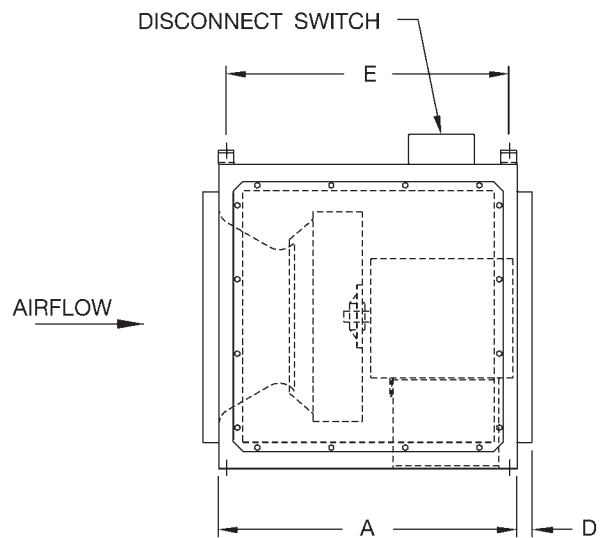
Notes:

1. All dimensions are in inches unless otherwise indicated
2. Average ship weight is for fan and motor assembly

Models: DSI080 through DSI165AN



END VIEW



SIDE VIEW



Model	HP	SSC Amps (115V)	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												List Price SKU	Backdraft Damper	
				0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP			Size	Add SKU
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM		
DSI 080A (1) (2)	1/8	6	1350	462	7.7	—	—	—	—	—	—	—	—	—	—	1715 35343	12x12	115 44105
			1500	523	9.1	481	7.7	—	—	—	—	—	—	—	—			
			1650	583	10.4	545	8.7	459	8.6	335	7.3	—	—	—	—			
DSI 090A (1) (2)	1/8	6	1350	712	10.1	—	—	—	—	—	—	—	—	—	—	1715 35346	12x12	115 44105
			1500	805	11.6	746	9.9	—	—	—	—	—	—	—	—			
			1650	897	13.0	843	11.2	729	11.1	578	8.5	—	—	—	—			
DSI 100A	1/8	6	1160	973	12.1	882	10.0	651	9.0	—	—	—	—	—	—	14x14	140 44106	
	1/3	10	1750	1543	17.8	1484	17.6	1365	14.7	1236	15.6	1083	14.9	877	11.7			
DSI 120A	1/4	6	1160	1344	9.3	1268	8.1	1079	8.3	—	—	—	—	—	—	16x16	150 44107	
	3/4	10	1750	2087	17.9	2041	17.9	1942	16.5	1834	14.8	1709	15.6	1551	16.1			
DSI 135AN	1/4	10	1160	1332	11.4	254	9.6	1070	9.1	823	7.9	—	—	—	—	18x18	160 44108	
	3/4	10	1750	2071	17.8	2024	17.8	1922	16.9	1808	15.4	1685	15.9	1554	16.6			
DSI 135A	1/2	10	1160	1862	11.2	1780	10.7	1591	9.4	1306	8.9	—	—	—	—	18x18	160 44108	
DSI 150AN	1/4	6	860	1277	7.9	1150	6.3	810	5.9	—	—	—	—	—	—	20x20	190 44109	
	1/2	10	1160	1790	13.7	1707	12.1	1531	10.1	1288	11.0	940	9.5	—	—			
DSI 150A	1/4	6	860	1798	8.5	1668	7.1	1286	6.7	—	—	—	—	—	—	20x20	190 44109	
	1/2	10	1160	2497	13.5	2409	13.3	2213	11.3	1965	12.1	1514	10.0	—	—			
DSI 165AN	1/4	6	860	1953	7.6	1805	6.9	1472	7.3	—	—	—	—	—	—	23x23	230 44126	
	1/2	10	1160	2721	12.4	2615	12.0	2394	11.0	2155	12.0	1877	11.2	1457	11.3			
DSI 165A	1/2	10	860	2683	9.9	2499	8.9	2323	9.2	—	—	—	—	—	—	23x23	230 44126	
	1	15	1160	3744	16.5	3592	15.6	3452	14.7	3044	15.7	2640	13.7	2152	13.5			

(1) Fan comes with 3-speed motor wired to high speed setting. For 1500 or 1350 RPM selections change wiring in field to second or third taps, or use a solid state speed control.

(2) Speed control may only be applied to the 1500 and 1650 RPM taps. Approximate speed reduction is 35%.



All DSI models are UL/cUL
705 listed, for electrical, File
No. E158680.



Twin City Fan & Blower certifies that the DSI models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Related items

Fan Speed Controls – Page 29



BSI

FEATURES:

- Belt drive for larger air volumes and higher statics
- AMCA licensed for Air & Sound, UL listed
- Compact galvanized housing with removable side panels
- Non-overloading, backwardly inclined, aluminum wheel
- Motor cover and wired safety disconnect included
- All single phase motors are dual voltage 115/208-230V (wired for 115V)
- All three phase motors are dual voltage 208-230/460V (wired for 460V)
- Thermal overload protected motors



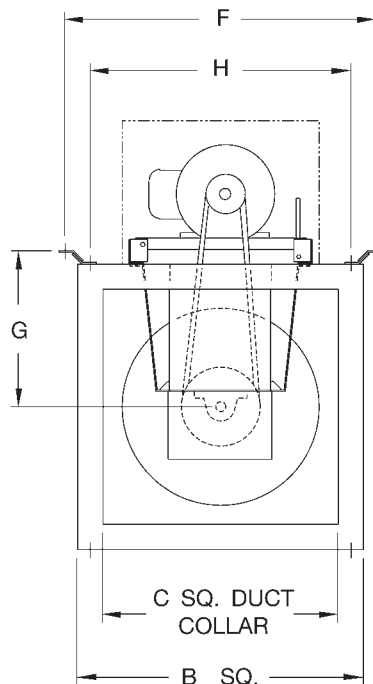
Model	A	B	C	D	E	F	G	H	J	Avg. Ship Wt. (lbs.)	Side Discharge Size
080A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	12.00	93	11.88 x 11.88
090A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	12.00	96	11.88 x 11.88
100A	20.50	17.81	13.88	1.00	19.00	21.06	10.38	16.00	12.00	106	13.88 x 13.88
120A	21.50	19.38	15.88	1.00	20.00	22.06	11.13	17.00	12.00	127	15.88 x 15.88
135A	23.00	21.56	17.88	1.00	21.50	24.25	12.19	19.16	12.75	132	17.88 x 17.88
150A	24.00	23.82	19.88	1.00	22.50	26.38	13.29	21.31	12.75	157	19.88 x 19.88
165A	26.00	26.50	22.88	1.00	24.50	29.06	14.64	24.00	14.56	167	22.88 x 22.88
180A	28.50	28.50	29.00	1.50	27.00	31.56	15.89	26.50	16.25	193	23.88 x 23.88
210A	32.00	32.00	32.34	1.50	30.50	35.06	17.54	30.00	16.25	223	27.88 x 27.88
225A	34.00	34.00	34.00	1.50	32.50	36.89	18.45	31.81	18.50	287	25.88 x 28.88

Notes:

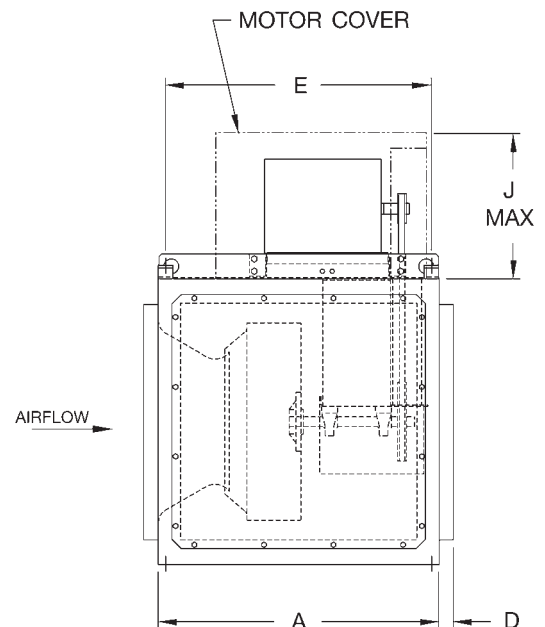
1. All dimensions are in inches unless otherwise indicated
2. Average ship weight is for fan and motor assembly

Models:

BSI 080A through BSI 225A



END VIEW



SIDE VIEW



BELT DRIVEN SQUARE INLINE FAN

FANS

B

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												Single Phase List Price	Three Phase List Price	Backdraft Damper					
			0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP				1.750" SP		2.000" SP		Size	Add SKU
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	SKU	SKU		
BSI 135A	1/3	900	1268		894												3440 35203	–	18x18	160 44108		
			7.1	0.15	6.1	0.15																
		1075	1599		1380																	
			9.8	0.2	10.0	0.26																
		1130	1700		1503		1192															
			10.8	0.28	10.3	0.30	9.6	0.29														
	1190	1810		1629		1367																
		12.0	0.33	10.9	0.34	11.4	0.35															
	1/2	1280	1973		1807		1602		1292								3630 35204	3735 35205	18x18	160 44108		
			13.4	0.40	12.0	0.42	13.0	0.43	10.8	0.42												
		1370	2133		1980		1811		1568													
			15.4	0.49	13.3	0.51	14.0	0.53	14.1	0.53												
	3/4	1465	2301		2158		2010		1818		1559						3945 35206	3865 35207	18x18	160 44108		
			17.0	0.59	15.0	0.62	14.8	0.64	15.8	0.65	14.3	0.64										
			2477	2344		2208		2054		1843		1572										
		19.0	0.72	17.2	0.75	16.2	0.77	17.2	0.79	17.3	0.79	14.8	0.77									
	1	1640	2608		2482		2353		2215		2038		1813				– 35200	3960 35200	18x18	160 44108		
			20.0	0.82	19.1	0.86	17.4	0.88	17.6	0.91	18.9	0.91	17.7	0.9								
			2747	2627		2504		2378		2229		2034		1801								
		22.0	0.95	21.0	0.98	19.1	1.01	18.6	1.04	19.7	1.05	19.9	1.05	18.1	1.04							

Model	HP	RPM	Fan Capacity – Cubic Feet Per Minute (CFM)												Single Phase List Price	Three Phase List Price	Backdraft Damper											
			0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP				1.750" SP		2.000" SP		Size	Add SKU						
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	SKU	SKU								
BSI 150A	1/3	825	1552		1115												3750 35220	–	20x20	190 44109								
			7.3	0.18	6.6	0.18																						
		920	1793		1481																3940 35221	4055 35222	20x20	190 44109				
			9.1	0.25	9.5	0.26																						
		970	1917		1646																				4275 35223	4185 35224	20x20	190 44109
			9.9	0.29	10.1	0.30																						
	1020	2040		1798		1410										–	4285 35216	20x20	190 44109									
		11.1	0.33	10.7	0.35	9.8	0.35																					
	1/2	1095	2222		2006		1701													4275 35223	4185 35224	20x20	190 44109					
			12.6	0.41	11.4	0.43	12.4	0.44																				
		1170	2402		2203		1959		1593															–	4285 35216	20x20	190 44109	
			14.2	0.49	12.5	0.52	13.4	0.53	11.7	0.52																		
		1250	2592		2407		2204		1913								–	4285 35216	20x20									190 44109
			15.8	0.60	14.0	0.63	14.3	0.65	14.7	0.65																		
	1335	2792		2620		2440		2209		1898						–				4285 35216	20x20	190 44109						
		18.0	0.72	15.8	0.76	15.3	0.78	16.7	0.79	15.1	0.78																	
	1	1400	2944		2780		2613		2416		2147		1771										–	4285 35216	20x20	190 44109		
			18.8	0.83	17.5	0.87	16.1	0.90	17.3	0.91	17.3	0.91	14.4	0.88														
		1465	3096		2940		2781		2607		2377		2090				–	4285 35216	20x20								190 44109	
			20.0	0.95	19.0	0.99	17.7	1.02	17.7	1.04	18.9	1.05	17.2	1.03														
	1-1/2	1570	3339		3195		3046		2894		2715		2483		2206					–	4480 35217	20x20	190 44109					
			23.0	1.16	22.0	1.20	19.8	1.24	19.4	1.27	21.0	1.29	21.0	1.29	18.9	1.27												
		1680	3592		3458		3320		3181		3032		2851		2625		2365		–					4480 35217	20x20	190 44109		
25.0			1.41	25.0	1.46	22.0	1.50	21.0	1.54	21.0	1.57	23.0	1.58	23.0	1.57	21.0	1.56											

Twin City/Broan T/L Series ventilators are designed for commercial applications requiring quiet, continuous, reliable operation. Exhausters are constructed with a low profile grille and are easy to duct horizontally, vertically, or inline, with many models offering round duct connectors as standard.

Capacities:

- Bath Fans – 47 and 87 CFM
- Commercial Exhausters – 100-3500 CFM

Features:

Grille

- Conceals interior
- Low profile styling blends with any decor

Blower

- Low RPM for quiet operation
- Resilient anti-vibration mounts
- Designed for continuous operation
- Dynamically-balanced, polymeric centrifugal blower wheel for quiet, efficient performance (T/L2000L and T/L3500EXL furnished with metal wheel)
- Permanently lubricated, thermally protected motor



Model T050/670



Model T080/684

Commercial Ventilators

General Features:

- Low RPM motors mounted on resilient mounts for quiet, vibration-free operation
- Permanently lubricated motors designed for continuous operation
- Acoustic insulation inside rugged, heavy gauge galvanized steel housing
- Balanced blower wheels for extremely low sound levels
- Attractive, low profile grilles
- May be ducted horizontally, vertically or as an inline blower
- Quiet built-in backdraft dampers, except for models T/L2000L and T/L3500EXL
- Plug-in motor rated at 120V AC, 60 Hz, single phase, ODP. T/L3500EXL motor is rated at 240V.



Models T/L100-T/L300
Shown with standard plastic grille.



Models T/L400-T/L700
Standard unit comes with metal grille.



Models T/L900 & T/L1500
Standard unit comes with metal grille.



Models T/L2000L & T/L3500EXL
Optional metal grille and optional dampers shown.

Fan Performance – Ceiling Mounted

TCF MODEL NO.	BROAN MODEL NO.	AMPS @ 60HZ	WATTS	RPM	CFM/SONES									List Price	SKU
					STATIC PRESSURE (IN. W.G.)										
					1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"		
T050	670	—	48	1870	49 4.3	47 4.4	42 4.6	29 5.5	—	—	—	—	—	165	36501
T080	684	—	48	1550	81 3.8	80 3.8	68 3.8	36 3.9	—	—	—	—	—	295	36504
T100	L100	1.1	87	640	115 0.8	109 0.9	93 1.3	80 1.8	65 2.3	44 3.0	12 3.2	—	—	540*	36509
T150	L150	1.3	100	710	161 1.4	157 1.5	141 2.2	132 2.6	124 3.1	114 3.6	94 4.1	62 4.6	—	590*	36510
T200	L200	1.8	127	740	214 1.8	210 1.7	196 2.3	186 2.9	177 3.5	165 4.1	144 4.9	113 5.3	51 5.3	660*	36511
T250	L250	2.1	166	830	261 2.3	259 2.2	250 2.9	242 3.3	233 3.9	218 4.4	201 4.8	165 5.5	99 5.8	715*	36512
T300	L300	2.6	212	905	309 2.9	308 2.9	303 3.3	296 3.5	287 3.9	273 4.3	254 4.7	219 5.1	125 5.6	715*	36513
T400	L400	1.4	146	735	442 2.4	434 2.3	388 2.8	344 3.3	299 3.8	229 4.5	182 4.8	114 5.4	33 5.6	1070	36514
T500	L500	2.2	232	810	520 3.1	514 3.3	491 3.6	463 4.0	434 4.4	389 5.0	339 5.7	282 6.2	186 6.7	1250	36515
T700	L700	2.9	313	960	704 4.6	701 4.7	667 4.8	640 5.0	607 5.2	571 5.6	534 6.2	453 7.1	333 7.2	1460	36516
T900	L900	3.0	306	650	905 4.0	901 4.1	877 4.0	842 4.2	793 4.3	725 4.4	636 4.9	536 4.5	390 5.3	1840	36517
T1500	L1500	5.9	468	955	1526 8.4	1513 8.4	1438 8.1	1371 7.5	1285 7.0	1198 6.7	1103 6.2	1000 5.8	816 5.8	2275	36518

*Price includes standard plastic grille. For optional metal grilles see page 27.

Inline Performance – Straight-through

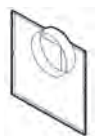
TCF MODEL NO.	BROAN MODEL NO.	AMPS @ 60HZ	WATTS	RPM	CFM/SONES									List Price	SKU
					STATIC PRESSURE (IN. W.G.)										
					1/10"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"		
T100	L100	1.1	87	760	108 0.7	106 0.7	97 1.1	93 1.4	86 1.8	70 2.1	44 2.4	17 2.6	—	105*	36522
T150	L150	1.3	100	920	148 1.0	147 1.1	140 1.4	134 1.6	125 1.9	111 2.1	91 2.2	54 2.4	18 2.6	105*	36522
T200	L200	1.8	127	865	196 1.9	195 1.9	190 2.1	185 2.3	175 2.4	158 3.0	135 3.3	96 3.4	47 3.4	105*	36523
T250	L250	2.1	166	1005	245 2.3	245 2.3	241 2.5	235 2.8	224 3.2	208 3.4	183 3.6	141 3.9	84 3.8	105*	36523
T300	L300	2.6	212	1145	294 3.0	293 3.1	285 3.3	274 3.4	259 3.5	243 3.6	214 3.7	168 4.0	113 3.9	105*	36523
T400	L400	1.4	146	775	415 1.6	406 1.6	360 1.9	313 2.2	271 2.6	223 2.9	167 3.4	90 3.6	6.0 3.0	135*	36524
T500	L500	2.2	232	890	526 2.4	519 3.4	496 3.7	472 3.9	447 3.8	407 3.9	364 4.0	306 4.3	232 4.3	135*	36524
T700	L700	2.9	313	1090	686 3.8	681 3.7	656 3.9	631 4.0	604 4.2	575 4.3	533 4.4	480 4.7	412 5.0	135*	36524
T900	L900	3.0	306	810	902 3.8	894 3.8	853 3.8	807 3.7	754 3.8	685 3.9	587 4.0	442 4.0	300 4.1	140*	36525
T1500	L1500	5.0	468	1055	1228 6.8	1214 6.7	1152 6.5	1092 6.3	1029 6.0	958 6.0	871 6.0	764 6.0	631 6.1	140*	36525
T2000	L2000	5.8	590	965	1803 9.8	1791 9.4	1657 9.0	1508 8.6	1347 9.1	1165 8.9	808 7.0	284 6.7	—	2650**	36536
T3500- EXL	L3500- EXL	5.4	1204	1105	3498 14.8	3452 14.5	3278 14.1	3073 13.1	2893 12.8	2679 12.1	2429 11.8	2093 11.9	1693 10.8	4345**	36537

* Price is for IAK (Inline Adapter Kit) only. Price must be added to fan price above.

** Sizes 2000 and 3500 stocked in inline configuration. Price indicated is for entire fan. If grille required see page 27.

TCF MODEL NO.	BROAN MODEL NO.	ACCESSORIES														
		Inline Adapter Kits			Metal Grilles			Roof Caps – Flat Base			Roof Caps – Curb Mounted			Speed Controllers		
		Model	List Price	SKU	Model	List Price	SKU	Model	List Price	SKU	Model	List Price	SKU	Model	List Price	SKU
T050	670	N/A	N/A	N/A	N/A	N/A	N/A	RCF 06	335	31410	RCC 06	335	33122	SSC 06 AMP	125	31439
T080	684	N/A	N/A	N/A	N/A	N/A	N/A									
T100	L100	IAK L-150	105	36522	MG1	125	36521									
T150	L150	IAK L-300	105	36523												
T200	L200															
T250	L250															
T300	L300	IAK L-700	135	36524	Standard	–	–	RCF 12	555	31412	RSVT 10	725	33124			
T400	L400															
T500	L500															
T700	L700															
T900	L900	IAK L1500	140	36525	Standard	–	–	RCF 12	555	31413	RSVT 12	990	33125			
T1500	L1500							RCF 16	595	31414	RSVT 16	1285	33127			
T2000	L2000							Standard	–	–	MG2000	245	36519	N/A	–	–
T3500EXL	L3500EXL	Standard	–	–	MG3500	275	36520	N/A	–	–	RSVT 24	1720	33130	SSC 06 AMP 230V	350	31440

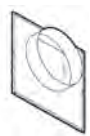
In-Line Adapters



Model IAK L-150

- Galvanized steel
- 6" round duct intake
- Mounting hardware included

Pricing above



Model IAK L-300

- Galvanized steel
- 8" round duct intake
- Mounting hardware included

Pricing above



Model IAK L-700

- Galvanized steel
- 4.5" x 18.5" duct intake
- Mounting hardware included

Pricing above



Model IAK L1500

- Galvanized steel
- 8" x 12" duct intake
- Mounting hardware included

Pricing above

Roof Caps



Model RCF

- For flat roof installation
- Aluminum natural finish
- Bird screen

Pricing above

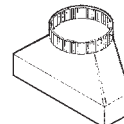


Model RCC

- For curb mount installation
- Other features same as model RCF

Pricing above

Transitions



Models 423 and 81212

- Galvanized steel
- Model 423 – 4.5" x 18.5" to 10" rd.
- Model 81212 – 8" x 12" to 12" rd.

Model	List Price	SKU
423	185	36539
81212	220	36540

Note: For RCF and RCC dimensions see page 34, for RSVT dimensions see page 36

Roof Jacks & Wall Caps

Model 634 Jack

- For 3-1/4" x 10" or up to 8" round duct
- Built-in backdraft damper and bird screen
- Steel housing, black epoxy finish



List Price	SKU
170	31406

Model 636 Jack

- Same as model 634 except for 3" or 4" round duct

List Price	SKU
95	36538



Louvered Wall Caps

Model 645

- For 3" Round Duct
- White polymeric

Model 646

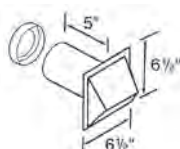
- For 6" Round Duct
- White polymeric

Model	List Price	SKU
645	55	36541
646	155	36544



Model 885AL Wall Cap

- For 3" or 4" round duct
- 4" to 3" transition included
- Built-in backdraft damper and bird screen
- Aluminum natural finish



List Price	SKU
130	36542

Model 641 Wall Cap

- For 6" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish



List Price	SKU
230	36543

Model 643 Wall Cap

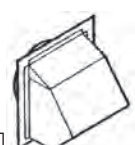
- For 8" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish



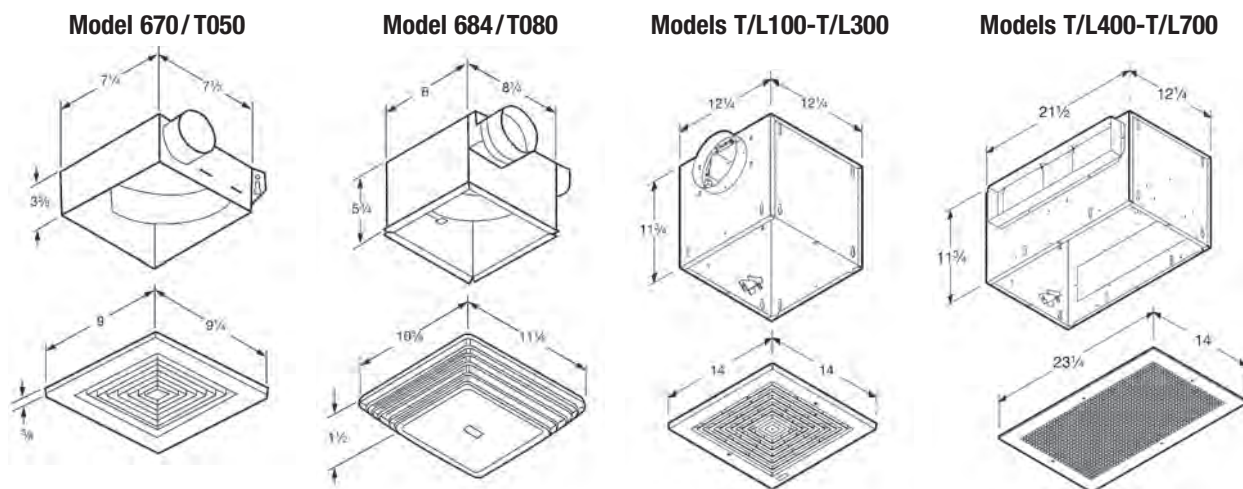
List Price	SKU
290	36545

Model 613

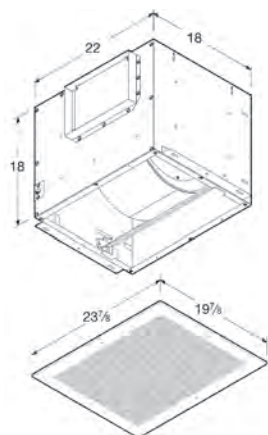
- For 12" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish



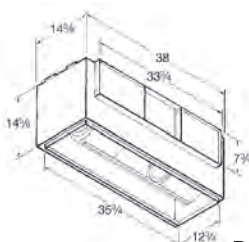
List Price	SKU
315	36546



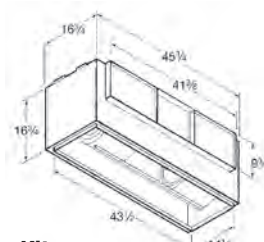
Models T/L900 & T/L1500



Model T/L2000L



Model T/L3500EXL



Damper Kits

Model	Fits	Price	SKU
D100	T/L2000	80	36547
D101	T/L3500	85	36548

Ceiling /Wall Fans

FEATURES:

- White polymeric grille
- Rugged galvanized steel housing
- Plug-in permanently lubricated motor
- Tapered polymeric duct fitting
- Built-in backdraft damper



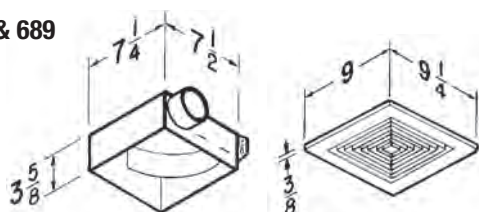
Model 688 & 689



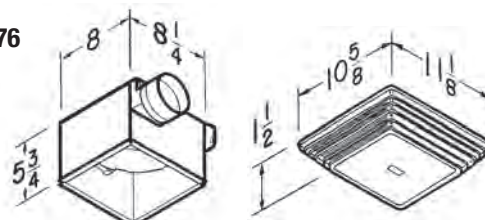
Model 676

Model	Volts	Amps	Scores	CFM	Duct	Price	SKU
688	120	.09	4.0	50	3" Round	95	36505
689	120	1.5	5.5	60	3" Round	135	36506
676	120	1.3	4.0	110	4" Round	325	36503

Model 688 & 689



Model 676



FAN SPEED CONTROL & TIME DELAY SWITCH



Model SSC Fan Speed Control



Model TDS12 Time Delay Switch

Model/Description	120V List Price SKU
*SSC 06 AMP – Use for 120V fans rated up to 690 watts or 1/4 hp and less. Positive Off position.	125 31439
*SSC 06 AMP 230V – Use for 230V fans rated up to 1380 watts or 1/2 hp and less. Positive Off position.	350 31440
*SSC 10 AMP – Use for 120V fans rated up to 1150 watts or from 1/3 to 1/2 hp. Positive Off position.	175 31294
*SSC 15 AMP – Use for 120V fans rated up to 1725 watts or from 1/2 to 1 hp. Positive Off position.	250 31441
TDS12 – Time delay switch. One switch controls fan and light with turnoff time. 1-60 min., frequency 50-60 Hz, fits single switch outlet box.	85 31383

*Not for use with belt driven fans.

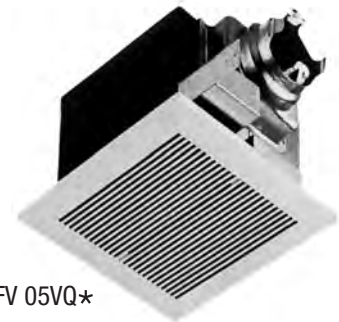
Panasonic



WHISPER CEILING

FEATURES:

- Super quiet operation
- Ceiling mounted fan
- ENERGY STAR® qualified
- Rustproof paint treatment on galvanized housing
- Built-in damper to prevent backdraft
- UL listed for tub/shower enclosed when used with a GFCI branch circuit wire
- Manufactured in ISO 9001 certified facility
- Thermal fuse protection



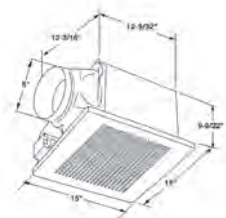
FV 05VQ★

Model	CFM @ 0.1"	Watts	Sones	Duct Size	List Price	SKU
FV 05VQ★	50	12.9	0.3	4"	655	13284
FV 08VQ★	80	22.8	0.3	4"	700	32130
FV 11VQ★	110	30.7	0.8	4"	785	32128
FV 15VQ★	150	31.4	0.6	4"	875	32129
FV 20VQ★	190	42.4	1.3	6"	945	13286
FV 30VQ★	290	63.6	2.0	6"	990	13287
FV 40VQ★	380	112.2	3.0	6"	1455	32127

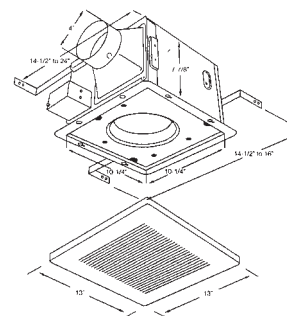
★ Current model available.

Related items

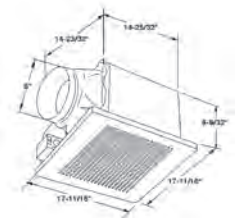
Time Delay Switch – Above
Line Voltage Stat – Page 106



FV-20VQ★/FV-30VQ★



FV-05VQ★/FV-08VQ★/FV-11VQ★



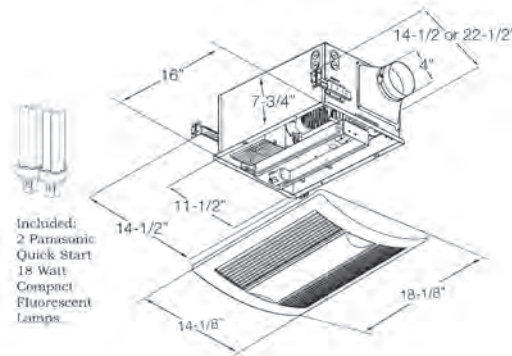
FV-40VQ★

FEATURES:

- Built-in damper to prevent backdraft
- Stainless steel sheathed heating element
- UL listed for insulated ceilings
- Light/Night light combo
- Easy installation
- Rustproof paint treatment on galvanized housing
- Thermal fuse protection
- Not for use above a tub /shower enclosure

Model	CFM @ 0.1"	Watts	Sones	Duct Size	List Price	SKU
FV 11VHL★	110	30.6	.7	4"	1525	32115

★ Current model available.



FV 11VHL★

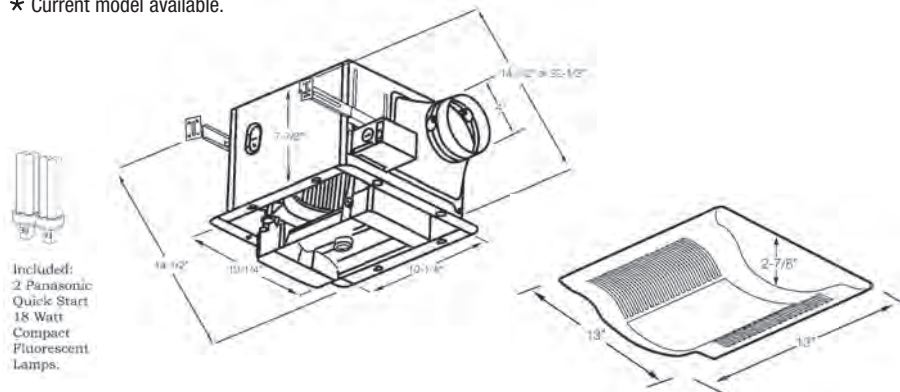
WHISPER LITE

FEATURES:

- Convenient 4 watt, night-light lamp
- Lamps; 2 @ 18 watts each, average life 10,000 hrs.
- ENERGY STAR® qualified
- Rated for continuous run
- Easy installation (double hanger bar system)
- Rustproof paint treatment on galvanized housing
- Built-in damper to prevent backdraft
- UL listed for tub/shower enclosure when used with a GFCI branch circuit wire
- Thermal fuse protection

Model	CFM	Watts	Sones	Duct Size	List Price	SKU
FV 08VQL★	80	25.2	0.3	4"	1040	32131
FV 11VQL★	110	35.9	1.0	4"	1045	13285

★ Current model available.



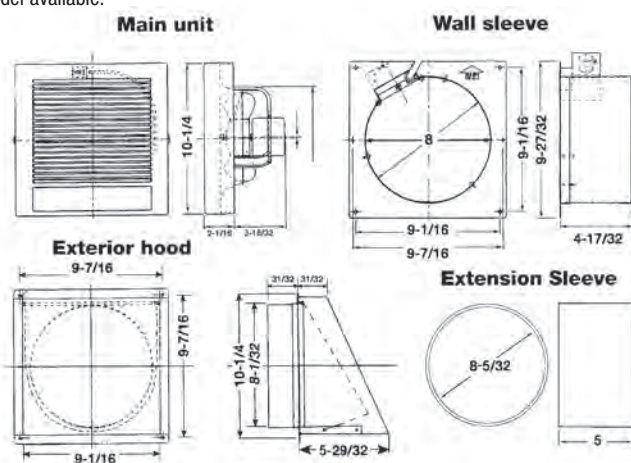
FV 08VQL★/FV 11VQL★

FEATURES:

- Hood with backdraft damper included
- Super quiet operation
- ENERGY STAR® qualified
- Easy installation
- Rustproof paint treatment on galvanized housing
- Built-in damper to prevent backdraft
- Sleeve Extension – up to 10 inches
- Bird screen
- UL listed for tub/shower
- Enclosed when used with a GFCI branch circuit wire
- Thermal fuse protection

Model	CFM	Watts	Sones	Duct Size	List Price	SKU
FV 08WQ★	70	18	1.1	8"	845	32113

★ Current model available.



FV 08WQ★

WHISPER LINE**FEATURES:**

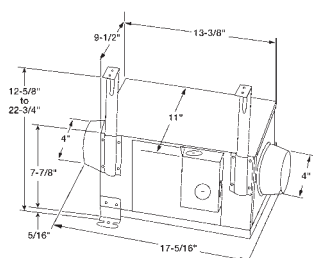
- Insulated housing to prevent condensation and noise
- Super quiet/energy efficient motor (ENERGY STAR® qualified)
- Easy installation – includes brackets for joist or truss attachment
- Inline installation
- Tapered duct adapter for easy connection
- Adjustable airflow for multi-inlet balance



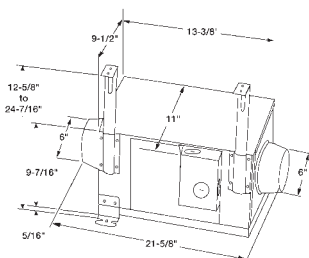
FV 10NLF★

Performance Data								CFM vs Static Pressure							List Price	SKU
Model	Duct	RPM	Volts	Max Watts	Max Amps	Max S.P.	Sones	0.0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.2"		
FV 10NLF★	4"	1569	115	37	0.31	0.75	1	138	120	82	35	—	—	—	765	32114
FV 20NLF★	6"	1154	115	57	0.46	0.84	1.4	258	240	200	143	8	—	—	820	32122
FV 30NLF★	6"	1247	115	98.2	0.086	1.13	1.7	392	340	302	258	106	53	—	995	32124
FV 40NLF★	8"	1110	115	132	1.1	1.29	2.1	472	440	408	370	315	207	55	1090	32126

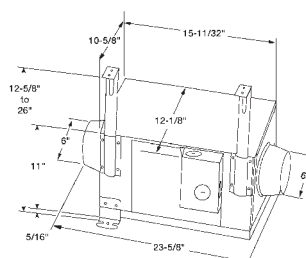
★ Current model available.



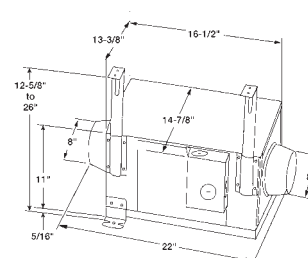
FV 10NLF★



FV 20NLF★



FV 30NLF★



FV 40NLF★

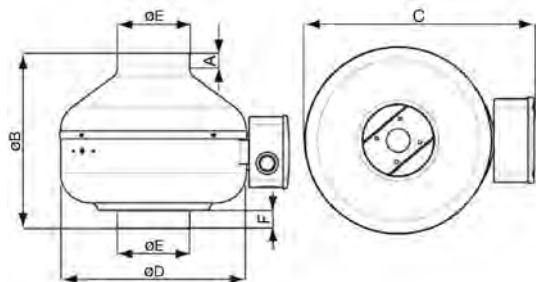
Related items

Fan Speed Controls – Page 29
Backdraft Dampers – Page 40
Vibration Hangers – Page 35

CA SERIES FEATURES:

- Epoxy powder coated metal casing
- Suitable for commercial applications
- AMCA Certified Performance, UL Approved
- Pre-wired and supplied with mounting brackets for easy installation

CA Series
Steel



Dimensions

Model	A	B	C	D	E	F
CA 6	0.98"	10.43"	14.56"	11.81"	5.79"	0.98"
CA 8	0.98"	10.63"	16.14"	13.39"	7.76"	0.98"
CA 10	0.98"	11.02"	16.14"	13.39"	9.72"	1.73"

Performance Data								CFM vs Static Pressure									List Price	SKU
Model	Duct	Volts	Hz	Watts @ "0"	Amps @ "0"	Max S.P.	RPM	.125"	.250"	.375"	.500"	.750"	1.000"	1.500"	2.000"	2.500"		
CA 6	6"	115	60	75	0.68	1.420	2400	262	240	215	195	154	110	13	—	—	650	36002
CA 8	8"	115	60	155	1.38	3.158	2970	630	595	565	532	467	395	280	200	110	910	36003
CA 10	10"	115	60	195	1.65	3.000	2700	717	670	605	550	450	375	275	185	100	1090	36004
														6 to 5 Adapter			30	61155



INLINE CENTRIFUGAL FANS

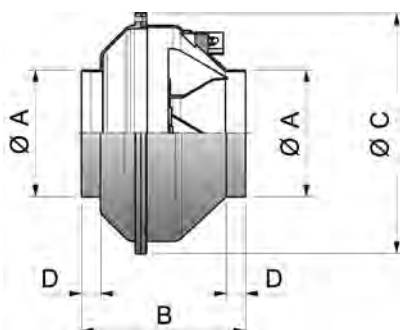
R SERIES FEATURES:

- Durable plastic housing
- Suitable for Residential and Light Commercial applications
- HVI Certified Performance, CSA Approved
- Pre-wired and supplied with mounting brackets for easy installation

R Series
Plastic



Performance Data							CFM vs Static Pressure								List Price	SKU
Model	Duct	Volts	Hz	Amps @ "0"	Max S.P.		0.0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.5"	2.0"		
R-100	4"	115	60	0.23	0.975"		141	120	100	78	46	—	—	—	575	36009
R-110	4"	115	60	0.74	2.213"		173	162	10	139	125	115	77	15	600	36010
R-150	6"	115	60	0.78	1.686"		368	332	286	248	190	163	55	—	650	36011
R-200	8"	115	60	1.00	2.213"		448	404	350	317	260	225	110	30	825	36012
R-225	8"	115	60	2.09	2.762"		669	624	560	540	450	440	330	210	975	36013
R-250	10"	115	60	2.00	2.736"		719	669	610	559	520	460	322	200	1025	36016
R-315	12"	115	60	2.24	3.135"		865	812	740	700	620	570	388	240	1510	36017



Dimensions

Model	A	B	C	D
R-100	4"	9.7"	11.3"	1.2"
R-110	4"	9.7"	11.3"	1.2"
R-150	6"	9.0"	14.9"	1.2"
R-200	8"	9.0"	14.9"	1.2"
R-225	8"	9.0"	14.9"	1.2"
R-250	10"	9.0"	14.9"	1.2"
R-315	12"	10.8"	17.8"	1.2"

Related items

Fan Speed Controls – Page 29
Round Backdraft Dampers – Page 40
Duct Booster Fans – Page 115



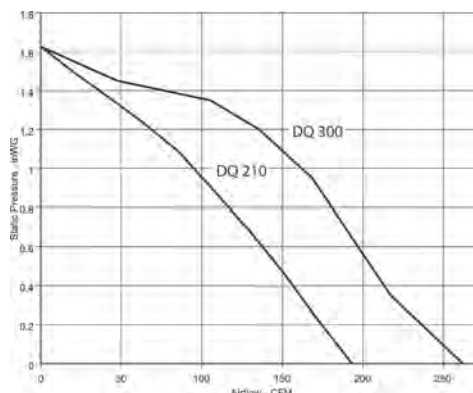
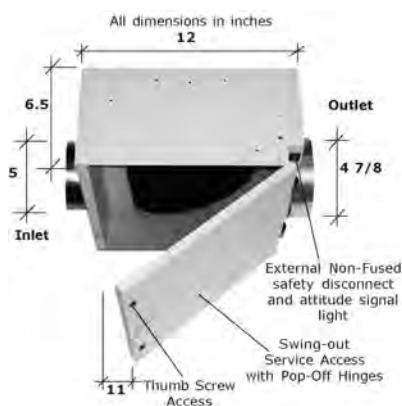
COMPAX DQ FEATURES:

- 3 year warranty
- Low profile – ideal where space is limited
- High Efficiency – Airfoil wheel, class F motor
- Serviceable – swing out and pop-off bottom access door
- Rugged – galvanized steel construction with white appliance finish
- Safety – integral lighted safety disconnect switch with external built-in attitude signal light



FanAm's COMPAX series inline fans are designed for dryer exhaust and can be used for other general ventilation needs. COMPAX fans are UL Listed to US and Canadian safety standards and includes a standard 3-year warranty.

Model	Volts	Watts	Amps	Weight	CFM @ .2" w.g.	List Price	SKU
DQ 210	115	71	0.62	10 lbs.	170	955	36006
DQ 300	115	115	1.12	11 lbs.	260	1255	36007



DRYER BOOSTER FAN ACCESSORIES

FEATURES:

2100 Lint Trap

- UL approved, flame resistant polymer materials
- Extends COMPAX warranty to 5 years
- 7/8" drywall frame for recessed applications
- Removable lint screen and slip on duct collars
- Clear door for easy lint build-up viewing



2100 Lint Trap



Wall Box & Wall Grille
(shown without integral backdraft damper)

Wall Box

- Integral backdraft damper
- Sloped/Angled design with built-in drain

DAS 420 Current Sensor

- Sensor anticipates dryer startup and activates dryer booster fan
- Purge cycle runs fan for 7 minutes after dryer shutdown
- Eliminates moisture buildup in ductwork & suite



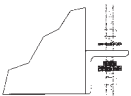
DAS 420

Accessory for COMPAX Fan	Description	List Price	SKU
2100 Lint Trap	User serviceable auxiliary lint trap	175	36008
Wall Box	Outside wall recess mounting for exhaust outlet	175	36014
Wall Grille	Wall box cover, stocked for single box	65	36015
DAS 420	Dryer Amp sensor	250	34140

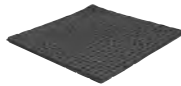
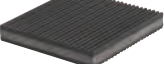
MOUNTS – Spring

Type		Model	Load Per Set	List per Set of Four	SKU
Side Mount 1" Deflection		ISO SMS 075	35 – 75 lbs.	935	11633
		ISO SMS 200	80 – 200 lbs.	935	11634
		ISO SMS 400	200 – 400 lbs.	935	11635
		ISO SMS 750	400 – 748 lbs.	935	11636
Bottom Mount 1" Deflection		ISO SMB 075	35 – 75 lbs.	845	11629
		ISO SMB 200	80 – 200 lbs.	935	11630
		ISO SMB 400	200 – 400 lbs.	1095	11631
		ISO SMB 500	400 – 500 lbs.	1265	13318
		ISO SMB 750	500 – 748 lbs.	1180	11632

HANGERS - Spring & Neoprene

Type		Model	Load Per Set	List per Set of Four	SKU
Housed Spring 1" Deflection (with nuts & washers)		ISO SH 075	35 – 75 lbs.	350	11625
		ISO SH 200	80 – 200 lbs.	440	11626
		ISO SH 400	200 – 400 lbs.	520	11627
		ISO SH 500	400 – 500 lbs.	540	13317
		ISO SH 750	500 – 748 lbs.	600	11628
Unhoused Neoprene Grommet kit (with nuts & washers)		ISO NH 050	10 – 50 lbs.	145	11623
Seismic Cable Restraints – 48"		ISO SCR 500	35 – 500 lbs.	405	11624

PADS – Rubber & Cork

Type		Model	Max. Load	List Each	SKU
All Rubber Easy Cut Pad	 18" x 18" x 3/4"	ISO PAD ECP18	60 lbs. / Sq. In.	225	12601
Cork & Rubber Sandwich Mounting Pad	 3" x 3" x 1"	ISO PAD MP3C	50 lbs. / Sq. In.	13	12602
Cork & Rubber Sandwich Mounting Pad	 6" x 6" x 1"	ISO PAD MP6C	50 lbs. / Sq. In.	20	12603

Related items

All Thread – Page 156
Uni-Strut – Page 156



ROOF CAPS

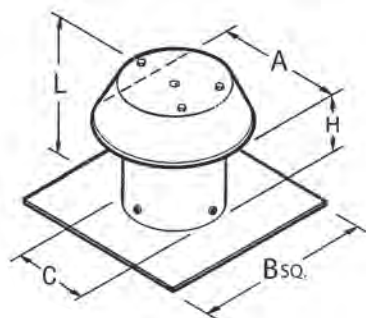
FEATURES:

- Weathertight aluminum construction
- Built-in birdscreen

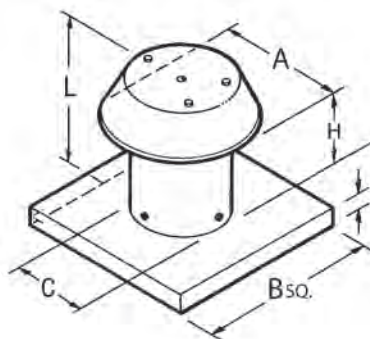
Size	CFM @ .20" PD	A	B	C	L	H	RCF List Price SKU	RCC List Price SKU
06	200	7"	16 ⁷ / ₈ "	7"	12"	11 ¹ / ₂ "	335 31410	335 33122
08	600	9"	21 ¹ / ₄ "	9"	18 ¹ / ₂ "	13 ¹ / ₂ "	345 31411	—
12	1300	13"	24"	13"	25"	17"	485 31413	—
16	2500	17"	28"	17"	30"	22"	595 31414	—

Note: A dimensional change is anticipated late in 2011. Please call for updated information.

Model: RCF – Flat Roof Cap



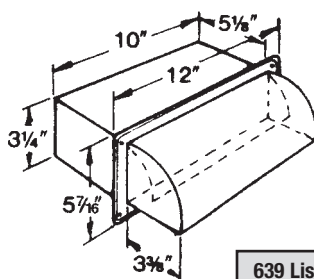
Model: RCC – Curb Mounted



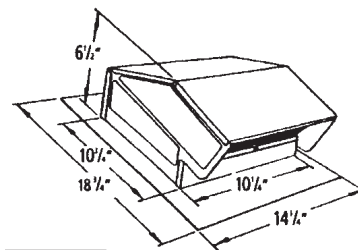
WALL CAPS & ROOF JACKS

FEATURES:

- Steel construction with black enamel finish
- Built-in birdscreen and damper
- CFM @.20" PD:
Model 639: 200
Model 634: 300
Model 636: 60
- Duct size:
Model 639: 3-1/4" x 10"
Model 634: 3-1/4" x 10" or up to 8" round
Model 636: 3" or 4" round

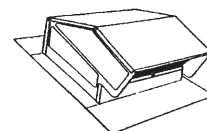
Hooded Wall Cap
Model: 639

639 List Price SKU
110 31409

Sloped Roof/Wall Caps
Model: 634

634 List Price SKU
170 31406

Model: 636



636 List Price SKU
95 36538

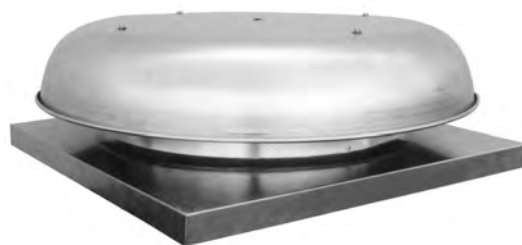
Same as model 634 except for 3" or 4" round duct

For additional Wall and Roof Caps see page 27

RSVT

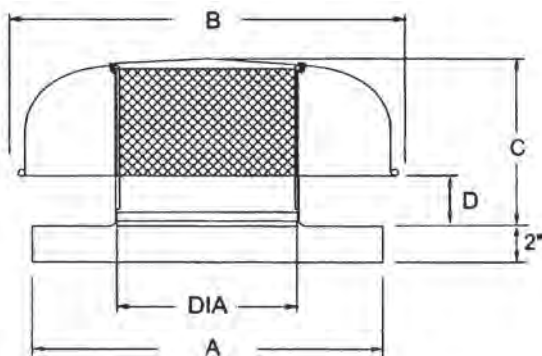
FEATURES:

- Attractive spun aluminum design
- Aluminum bird screen
- Stainless steel fasteners
- 100% non-ferrous construction
- Corrosion resistant design for years of service in all environments



Model	Throat Area	A	B	C	D	DIA.	Ship Weight	Damper Size	Curb Size
RSVT 08	0.42	17.00	19.25	8.00	3.00	8.50	16	10 x 10	15.5 x 15.5
RSVT 10	0.63	20.00	21.50	8.75	3.50	10.50	18	14 x 14	18.5 x 18.5
RSVT 12	0.89	20.00	26.00	10.375	3.75	12.50	20	14 x 14	18.5 x 18.5
RSVT 14	1.19	24.00	27.50	11.25	4.25	14.50	22	18 x 18	22.5 x 22.5
RSVT 16	1.53	24.00	29.50	11.25	4.25	16.50	24	18 x 18	22.5 x 22.5
RSVT 18	1.92	30.00	33.50	11.50	4.50	18.50	30	24 x 24	28.5 x 28.5
RSVT 20	2.35	30.00	36.50	11.75	4.75	20.50	50	24 x 24	28.5 x 28.5
RSVT 24	3.34	34.00	39.50	12.50	5.50	24.50	60	28 x 28	32.5 x 32.5
RSVT 30	5.16	40.00	48.00	15.25	6.25	30.50	75	34 x 34	38.5 x 38.5
RSVT 36	7.07	46.00	56.00	15.25	6.25	36.50	125	40 x 40	44.5 x 44.5
RSVT 42	9.61	52.00	60.00	21.50	6.25	42.50	180	46 x 46	50.5 x 50.5
RSVT 48	12.56	58.00	74.00	27.25	6.50	48.50	230	50 x 50	56.5 x 56.5

Model: RSVT



All dimensions in inches – Net weight in pounds.

Dimension A is the inside dimension of the curb cap.

The roof curb should be 1½" less than the curb cap to allow for roofing and flashing.

Model	CFM @ 0.05 PD		CFM @ 0.10 PD		CFM @ 0.20 PD		CFM @ 0.30 PD		Price List	SKU	BDD Add	SKU	Curb Add	SKU
	Intake	Relief	Intake	Relief	Intake	Relief	Intake	Relief						
RSVT 08	220	258	311	364	439	515	538	631	645	33123	105	44103	285	31438
RSVT 10	330	386	466	546	659	772	807	947	725	33124	140	44106	320	38001
RSVT 12	465	546	658	772	930	1092	1139	1336	990	33125	140	44106	320	38001
RSVT 14	622	730	880	1035	1244	1460	1525	1787	1180	33126	160	44108	360	38002
RSVT 16	800	938	1131	1330	1599	1754	1958	2297	1285	33127	160	44108	380	38002
RSVT 18	1003	1177	1419	1670	2006	2355	2457	2883	1310	33128	235	44111	440	38004
RSVT 20	1228	1440	1736	2037	2456	2880	3007	3527	1415	33129	235	44111	440	38004
RSVT 24	1745	2047	2470	2895	3490	4093	4275	5013	1720	33130	305	44112	505	38005
RSVT 30	2698	3162	3812	4471	5400	6330	6613	7745	2565	33131	365	44114	600	38006
RSVT 36	3695	4332	5223	6128	7386	8665	9046	10611	3135	33132	595	44116	690	38007
RSVT 42	6430	7040	9587	10426	13013	13696	15837	17259	3900	61584	640	44119	685	38008
RSVT 48	8379	9174	12498	13588	17102	18314	20634	22501	5800	35551	710	44120	880	38009

FEATURES:

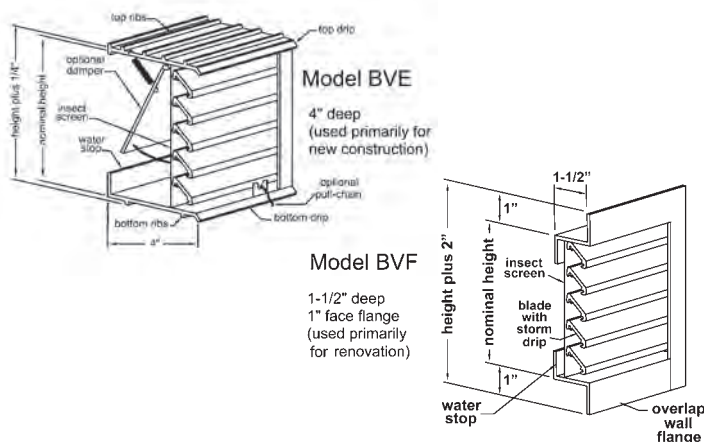
- Provides permanent means of ventilation for crawl spaces, hung ceilings, incinerator rooms, chimney flues, foundations, pipe spaces and corridors
- Mill finish extruded aluminum construction provides a high quality appearance
- Water stops and deep overlapping blades, each with integral storm drip provide maximum resistance to rain and weather
- Model BVE frame is 4" deep. Model BVF frame is 1-1/2" deep.



BVE Brick Vent



BVF Brick Vent



Model	Size	List Price	SKU
BVE 808	8.125" x 7.75"	260	41324
BVE 168	16.5" x 7.75"	350	41325

Model	Size	List Price	SKU
BVF 808	8.125" x 7.75"	260	41326
BVF 168	16.5" x 7.75"	350	41327

LOUVERS**DAL4 FEATURES:**

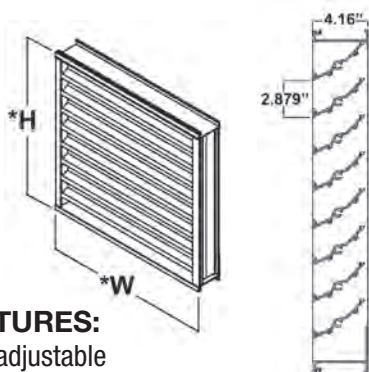
- Aluminum construction with fixed 4" blades
- Premium drainable blade design with downspouts in jamb
- AMCA Certified Performance
- May be used for exhaust or intake
- Includes rear mounted removable birdscreen
- Flange kits available for field attachment



DAL4 Louver



GAFL Louver

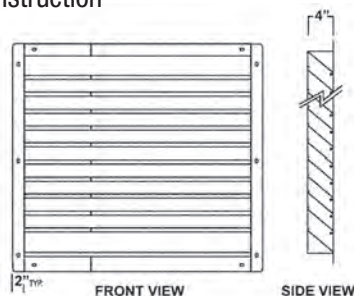


Size	DAL4 List Price	SKU	Flange Kit List Price	SKU
12" x 12"	240	41381	15	41387
18" x 18"	460	41382	25	41388
24" x 24"	580	41383	30	41389
30" x 30"	860	41384	45	41390
36" x 36"	1025	41385	50	41391
48" x 48"	1555	41386	75	41392

Louver is undersized approx. 1/4"

GAFL FEATURES:

- Innovative adjustable width flanged louver
- Expands horizontally to fit wall opening
- Galvanized steel construction
- May be used for exhaust or intake
- 1/2" bird screen kit included



Size Adjustable width x height	GAFL List Price	SKU	Size Adjustable width x height	GAFL List Price	SKU
12"-18"x14"	345	44501	21"-36"x30"	800	44507
24"-42"x14"	800	44502	24"-36"x36"	950	44508
18"-24"x18"	500	44503	36"-48"x36"	1290	44509
24"-42"x18"	885	44504	24"-42"x42"	1525	44510
18"-30"x24"	575	44505	24"-36"x48"	1400	44511
36"-48"x24"	970	44506	36"-48"x48"	1615	44512

BACKDRAFT DAMPERS FLANGELESS TYPE

FEATURES:

- Galvanized steel frame
- Aluminum blades with edge seals
- Inter-connecting linkage
- Suitable for horizontal or vertical mounting (remove tension spring if installed vertically)

Model	Size	List Price	SKU
BDDS 0808	08"x 08"	105	44101
BDDS 0909	09"x 09"	110	44102
BDDS 1010	10"x 10"	110	44103
BDDS 1111	11"x 11"	115	44104
BDDS 1212	12"x 12"	120	44105
BDDS 1414	14"x 14"	145	44106
BDDS 1616	16"x 16"	155	44107
BDDS 1818	18"x 18"	165	44108
BDDS 2020	20"x 20"	195	44109
BDDS 2222	22"x 22"	195	44110
BDDS 2323	23"x 23"	235	44126
BDDS 2424	24"x 24"	235	44111
BDDS 2828	28"x 28"	315	44112
BDDS 3030	30"x 30"	340	44113
BDDS 3434	34"x 34"	375	44114
BDDS 3636	36"x 36"	445	44115
BDDS 4040	40"x 40"	610	44116
BDDS 4242	42"x 42"	635	44117
BDDS 4444	44"x 44"	660	44118
BDDS 4646	46"x 46"	690	44119
BDDS 4848	48"x 48"	730	44120

Undersized approx. 1/4"

BDDS
Backdraft Damper



OPTIONAL MOTOR KIT

FEATURES:

- 120/240 Volt
- Designed to fit Model BDDS dampers
- Simple attachment
- Handles dampers to 16 square feet in size

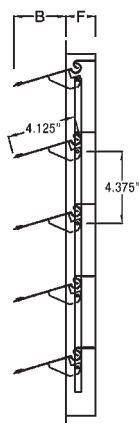
Model	List Price	SKU
BDDS MOTOR KIT	590	44125

BDDS Motor Kit



FEATURES:

- Aluminum construction
- 1-1/2" flanged frame
- Vinyl blade seals
- 2400 FPM maximum velocity
- Pressure to 3.5" WG
- Counter balance weight kits available for field attachment (call for price and selection)



B = 3-3/4"
F = 1-3/4"



BDDF
Backdraft Damper

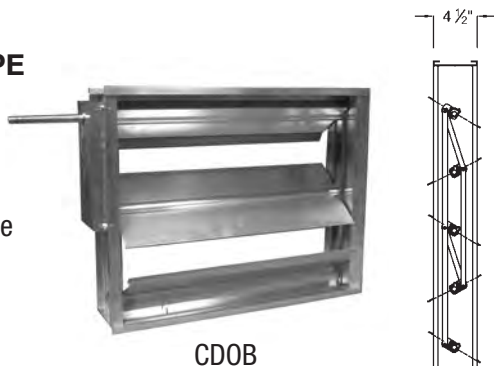
Size	List Price	SKU
8"x 8"	180	41393
10"x 10"	220	41394
12"x 12"	220	41395
14"x 14"	285	41396
16"x 16"	285	41397
18"x 18"	375	41398
20"x 20"	375	41399
24"x 24"	465	41400
30"x 30"	670	41401
36"x 36"	850	41402
48"x 48"	1720	41403

Undersized approx. 1/4"

**CONTROL DAMPERS
OPPOSED BLADE TYPE**

FEATURES:

- Extruded aluminum construction
- Linkage concealed in frame
- Bronze Oilite bearings
- PVC blade seals
- Stainless steel jamb seals
- Opposed blade action
- Optional 1/2" hand quadrant

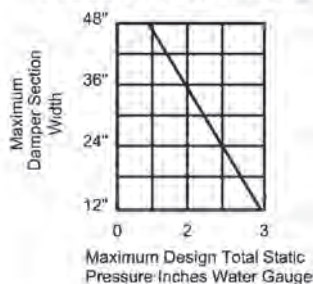


CDDB

Max FPM Table

12" wide - 2600 FPM
24" wide - 2200 FPM
36" wide - 2000 FPM
48" wide - 1700 FPM

Pressure Limitations



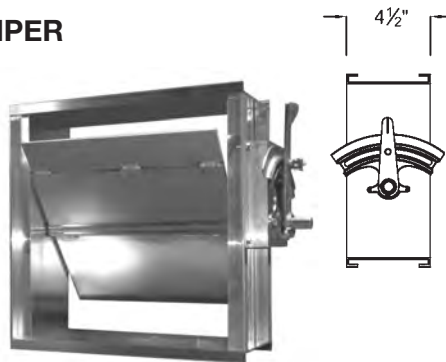
Size	List Price	SKU
6"x 6"	205	41334
8"x 8"	205	41335
10"x 10"	240	41336
12"x 12"	280	41337
16"x 16"	310	41338
18"x 18"	395	41339
24"x 24"	450	41340
30"x 30"	715	41341
36"x 36"	815	41342
48"x 48"	1215	41343
Optional Hand Quadrant	205	43115

Undersized approx. 1/4"

**MANUAL BALANCING DAMPER
SINGLE BLADE TYPE**

FEATURES:

- Aluminum construction
- Single blade design
- Pressures to 4" WG
- 2000 fpm maximum velocity
- Cast zinc 1/2" hand quadrant



BDSB

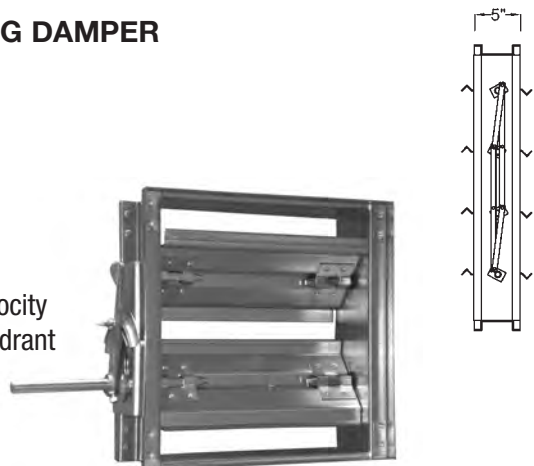
Size	List Price	SKU
6"x 6"	115	41328
6"x 8"	120	41329
8"x 6"	120	41330
8"x 8"	125	41331
10"x 10"	135	41332
12"x 12"	140	41333

Undersized approx. 1/4"

**MANUAL BALANCING DAMPER
MULTI BLADE TYPE**

FEATURES:

- Galvanized construction
- Opposed blade design
- Concealed linkage
- Pressures to 4" WG
- 2100 fpm maximum velocity
- Cast zinc 1/2" hand quadrant



BDMB

Size	List Price	SKU
12"x 12"	205	41344
16"x 16"	230	41345
18"x 18"	295	41346
20"x 20"	295	41347
24"x 24"	335	41348
30"x 30"	525	41349
36"x 36"	600	41350
42"x 42"	790	41351
48"x 48"	900	41352

Undersized approx. 1/4"

**BACKDRAFT DAMPERS
BUTTERFLY TYPE**

FEATURES:

- 24 gauge galvanized steel 8" deep housing
- Aluminum spring-loaded butterfly damper
- Rubber gasket in closed position for minimum leakage
- Opens at .04 to .08 inches WG
- May be installed in any position



BDDR

Size	List Price	SKU
4"	105	41179
5"	115	41180
6"	120	41181
8"	190	41183
10"	205	41185
12"	310	41186
14"	445	41187
16"	560	41188

Undersized approx. 1/8"

**ECONOMY BALANCING DAMPER
DISC TYPE**

FEATURES:

- Quality Construction
- Continuous Shaft
- Celcon Bearings
- Lockable Hand Quadrant
- Great Price!



BDRB

Size	List Price	SKU
5"	115	41190
6"	125	41191
7"	130	41192
8"	145	41193
9"	150	41194
10"	160	41195
12"	165	41196
14"	180	41197
16"	185	41198
18"	190	41199

Undersized approx. 1/8"

**MANUAL BALANCING
DAMPER KIT**

FEATURES:

- Complete hardware included
- Lockable Hand Quadrant
- Easy installation
- Great Price!

Size	List Price	SKU
4"	16	71108
5"	16	71109
6"	18	71110
7"	19	71111
8"	20	71112
9"	22	71113
10"	23	71114
12"	33	71115
14"	34	71116
16"	34	71117
18"	38	71118
20"	44	71119

Undersized approx. 1/8"



Disc Damper

ZONE DAMPERS – MOTORIZED TYPE

FEATURES:

- Pressure applications to 2" w.g./2000 fpm
- Heavy gauge galvanized steel spiral shell, 8" length standard
- Heavy 18 gauge "V" style damper blade with 1/2" dia. steel shaft and oil impregnated bronze bearings
- Available in 3 configurations:
 - Manual Balancing Damper (5020)
 - VAV Cooling only (4075)
 - VAV with Auto Changeover (2075)

Model: 4075 Pressure Dependent VAV, Cooling Only



Includes 3-wire, 24 volt stall-type reversing motor, 7 minutes from full open to full close and vice versa. Requires T-312 floating control thermostat and 3035 24 volt transformer, both available separately.

Model: 2075 Pressure Dependent VAV with Auto-Changeover

Same as 4075 above plus Auto Changeover relay and duct sensor module. Requires T-312 floating control thermostat and 3035 24 volt transformer, both available separately.



Damper Size	4075 List Price SKU	2075 List Price SKU
6"	525 Ask	900 Ask
7"	535 Ask	1000 Ask
8"	535 Ask	1000 Ask
9"	550 Ask	1015 Ask
10"	570 Ask	1030 Ask
12"	570 Ask	1035 Ask
14"	645 Ask	1110 Ask
16"	665 Ask	1130 Ask
18"	740 Ask	1205 Ask
Accessories		List Price SKU
T-312 SPDT Center-off Thermostat		205 21808
3035 40VA 120/24 volt Transformer		90 22244
2075 Relay Mod		336 21809



T-312



3035



2075

Honeywell

ZONE DAMPERS

ARD FEATURES:

- 24 volt, Spring Return damper motor
- Power Closed/Spring Return standard. Can be field converted to Power Open/Spring Return
- Galvanized steel construction with single blade damper and gasketed stop
- Rated to operate up to 1" WC

AUTOMATIC Round Damper (ARD)

ARD Size	List Price	SKU
6"	555	22284
8"	570	22138
10"	600	22139
12"	630	22140
14"	700	22141
16"	805	22285
18"	860	22286



ARD

SPRD FEATURES:

- Single blade barometric damper for air bypass
- Counter balance weighted arm for bypass control
- Galvanized steel construction
- Recommended for low pressure systems

STATIC PRESSURE

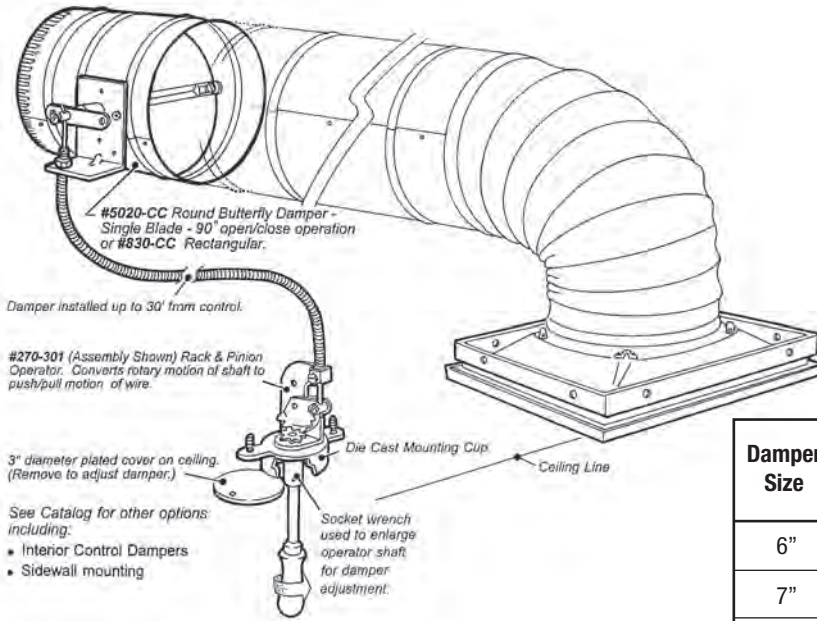
Regulating Damper (SPRD)

SPRD Size	List Price	SKU
8"	380	22143
10"	420	22144
12"	455	22145
14"	455	22146



SPRD

REMOTE CABLE CONTROL SYSTEMS – BOWDEN TYPE



5020 Manual Balancing Damper

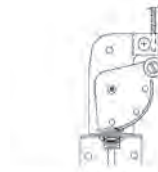
Includes double extended shaft with mounting bracket for easy attachment of Bowden Cable Controls or manual hand quadrant.

Damper Size	5020 List Price	SKU
6"	175	43116
7"	185	43117
8"	185	43118
9"	210	43119
10"	220	43120

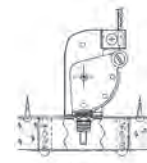
Damper Size	5020 List Price	SKU
12"	235	43121
14"	295	43122
16"	320	43123
18"	395	43124

Bowden Controls		List Price	SKU
270-275B Control Kit		200	43107
270-301B Control Kit		240	43108
270-896B Control Kit		280	43110
030 Bowden Wrench		45	43104
	BCW Cable and Wire (Price per ft.)	10	43101
	BCW Cable and Wire (50 ft. bundle)	355	43102

Control Mounting Options



270-275B*
For Plenums, Ceiling Joists,
Above Lay In Ceilings, Etc.



270-301B*
Concealed Ceiling
3" Cover Plate



270-896B*
Concealed Ceiling
7/8" Cap

*Includes retrofit kits for existing dampers

DAMPER HARDWARE

Model	04 Wrench	617 3/8" Coupling	607 1/2" Coupling	666 3/8" End Bearing	270 Coupler	270 Wire Stop	270-301 Cover	270-896 Cap	404 Manual Hand Quadrant
List Price	35	35	30	25	20	5	100	175	200
SKU	43105	43126	43125	43127	43113	43114	43109	43111	43115

POWER / BALANCE SYSTEM

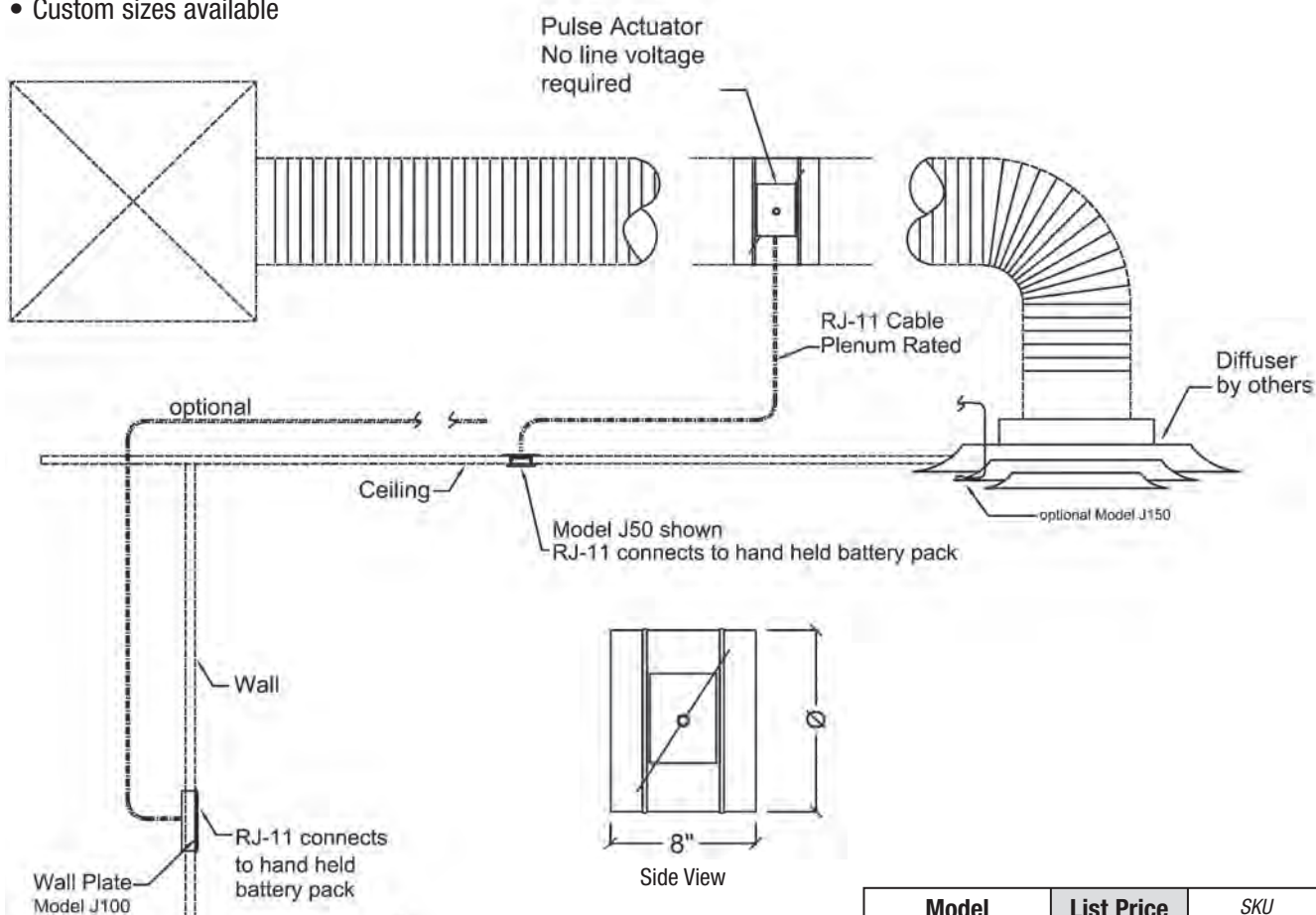
The model PB I3 Power/Balance System was developed for providing a means of balancing airflow in ductwork above inaccessible ceilings. Adjustments are accomplished by utilizing a hand-held powerpack.

FEATURES:

- Sizes 6"-10", frames and blades are 24 gauge galvanized steel
- Sizes 12"-18", frames and blades are 20 gauge galvanized steel
- Synthetic nylon bearings
- 1/2" zinc plated steel axles
- Damper shell length 8" standard
- Custom sizes available



PB I3 shown above with optional hand held remote connected to a J50 terminal point.

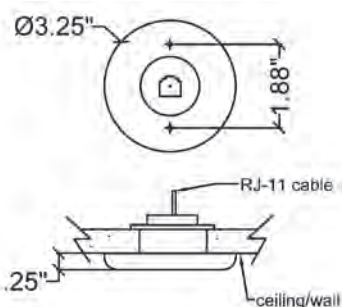


PB I3

Model	List Price	SKU
PB I3 06"	450	42100
PB I3 07"	460	42101
PB I3 08"	460	42102
PB I3 09"	460	42103
PB I3 10"	465	42104
PB I3 12"	495	42105
PB I3 14"	570	42106
PB I3 16"	640	42107
PB I3 18"	835	42108
Handheld Power/Balance Remote	270	42128

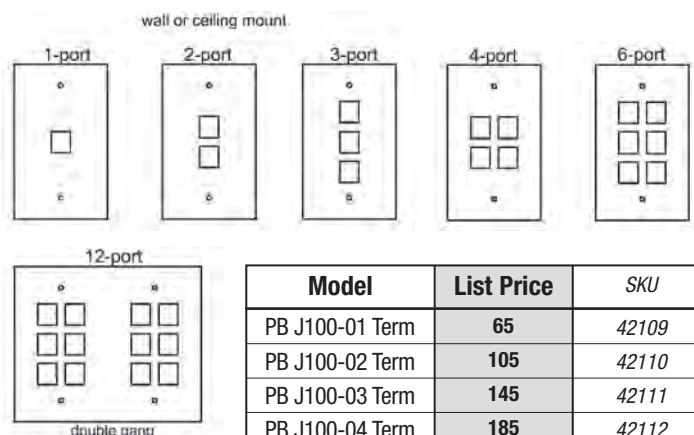
POWER / BALANCE SYSTEM – INSTALLATION ACCESSORIES

Model J50 (wall or ceiling terminal point)



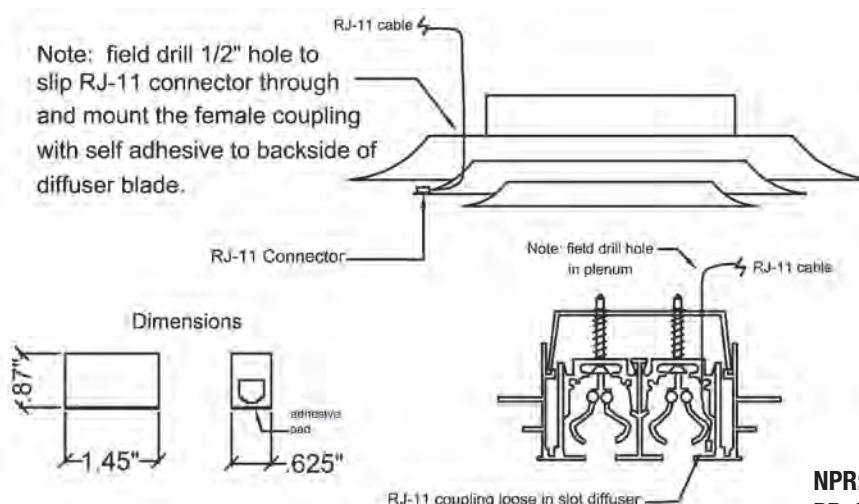
Model	List Price	SKU
PB J050 Term	35	42129

Model J100 (single gang wall terminal points)



Model	List Price	SKU
PB J100-01 Term	65	42109
PB J100-02 Term	105	42110
PB J100-03 Term	145	42111
PB J100-04 Term	185	42112
PB J100-06 Term	285	42113
PB J100-12 Term	630	42114

Model J150 (diffuser terminal point)

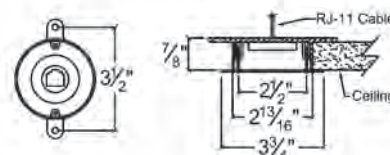


Model	List Price	SKU
PB J150 Term	15	42115

Model J300 (ceiling recess terminal point)

Polished Zinc Cover Plate (Standard)

Optional ☐ Chrome Plate ☐ Prime Coat Plate



Model	List Price	SKU
PB J300 Term	155	42116

NPR: Power/Balance CAT5 Standard Cable

PR: Power/Balance CAT5 Plenum Rated Cable

Model	List Price	SKU
PB NPR Cable 05'	25	42117
PB NPR Cable 10'	35	42118
PB NPR Cable 25'	65	42119
PB NPR Cable 50'	135	42120
PB PR Cable 05'	50	42121
PB PR Cable 10'	95	42123
PB PR Cable 16'	160	42125
PB PR Cable 25'	235	42126
PB PR Cable 40'	375	42127
PB PR Cable 500'	315*	22263
RJ11 Connector	2	11321
Crimper 33 296	450	13271



PB NPR Cable



PB PR Cable

*No RJ11 connectors included

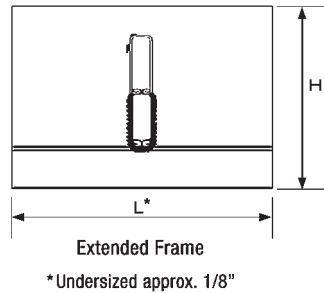
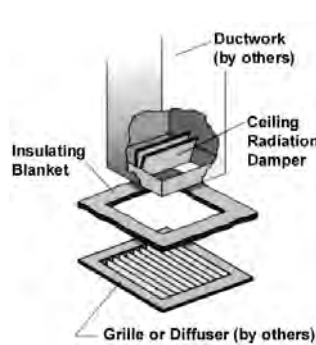
CRD

Model CRD is a square/rectangular UL Classified ceiling (radiation) damper, butterfly style, approved for both steel duct and ductless installations in approved UL ceiling designs that incorporate/show a hinged door damper requiring fire/heat protection where HVAC components penetrate the ceiling membrane. These dampers provide protection up to 22" x 22" openings.

CRD is stocked with top and bottom extended frame

CONSTRUCTION:

- **Frame** Roll formed - 22 gauge Galv. Steel
- **Blades** 22 gauge Galv. Steel with UL Classified Insulation on blades over 80 sq. inches
- **Spring** Corrosion resistant steel spring
- **Fusible Link** Replaceable 165°F
- **Finish** Mill galvanized



24" x 24" Thermal Blanket	List Price	SKU
	75	41293

Extended Frame Size (L)	Frame Height (H)
4" to 10"	6-3/8"
11" to 14"	8-3/16"
15" to 22"	11-3/16"

	CRD Radiation Dampers	List Price	SKU
NOT INSULATED	6" x 6"	95	49165
	8" x 8"	105	49166
INSULATED	9" x 9"	125	49167
	10" x 10"	125	49168
	12" x 12"	150	49169
	14" x 14"	165	49170
	15" x 15"	185	49171
	16" x 16"	185	49172
	18" x 18"	200	49173
	20" x 20"	235	49174
	22" x 22"	275	49176
	22" x 10"	185	49175

Related items

Flange Sets – Page 48



ROUND CEILING RADIATION DAMPERS

CRD-R

Model CRD-R is a round UL Classified ceiling (radiation) damper additionally approved for flex duct installations.

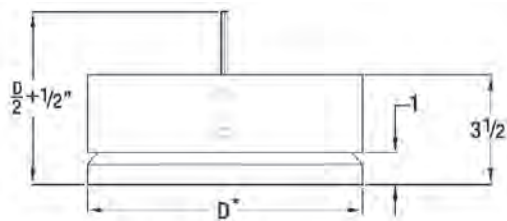
CRD-R is stocked without extensions

CONSTRUCTION:

- **Frame** 24 gauge Galv. Steel
- **Blades** 22 gauge Galv. Steel with U.L. classified insulation on blades over 10 inches
- **Spring** Corrosion resistant steel spring
- **Fusible Link** Replaceable 165°F
- **Finish** Mill galvanized



CRD-R



CRD-R Radiation Dampers	List Price	SKU
6"	90	49177
8"	100	49178
10"	105	49179
12"	130	49180
14"	150	49181
16"	175	49182

Listed and Labeled by:
California State Fire Marshal
Listing No. 3226-1722:108

DWFD

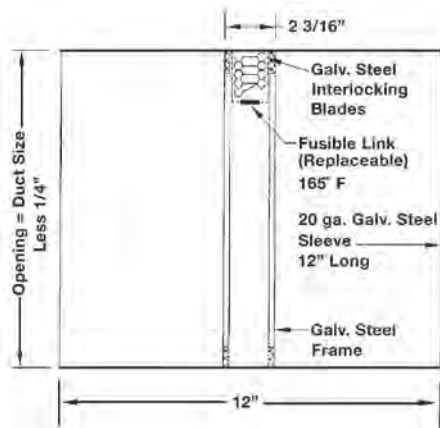
Model DWFD is a Type A Dynamic Wall Fire Damper with an integral 12" sleeve. It is UL Classified for installation in walls, floors, and partitions with a fire rating of less than 3 hours. This damper may be installed vertically or horizontally in dynamic HVAC systems that continue to run in the event of fire. Also approved for static systems.



DWFD AXV12

CONSTRUCTION:

- **Frame** Roll formed, 20 gauge galvanized steel
- **Blades** Low-profile, roll formed, galvanized steel
- **Closure Springs** Stainless steel constant force coil
- **Maximum Velocity** 2000 FPM
- **Maximum Pressure** 4" WG
- **Fusible Link** Replaceable 165°F (212°F available)
- **Sleeve** 12", 20 gauge galvanized steel
- **Finish** Mill galvanized



DWFD Fire Dampers	List Price	SKU
6" x 6"	135	49194
8" x 8"	145	49195
10" x 10"	160	49196
12" x 12"	165	49197
14" x 14"	215	49198
16" x 16"	215	49199
18" x 18"	265	49201
20" x 20"	265	49202
24" x 24"	305	49204
18" x 12"	210	49200
24" x 12"	225	49203

These models meet the requirements for fire dampers established by:

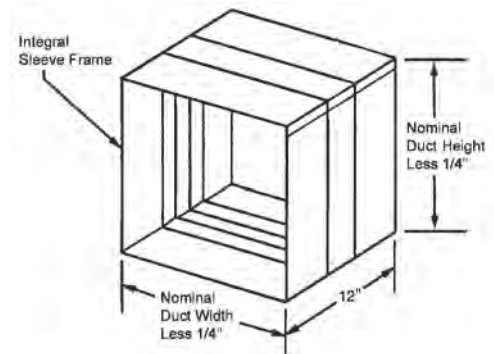
California State Fire Marshal
(Listing #3225-1722:100 for use in walls)

Underwriters Laboratories Standard 555

National Fire Protection Association
(NFPA Standards 90A, 80)

DWFD meets or complies with the following as a fire damper: All major building codes, including IBC/ICC International Code UL 555 Listing 1-1/2 Hour – File #R25410 ULC S112

Replacement Links	CRD Links List Price	SKU	DWFD Links List Price	SKU
165° Fusible Link	5	41301	5	41301
212° Fusible Link	5	41302	5	41302



Related items

Retaining Angles – Page 47

FS3VII FEATURES:

- **UL555S** listed and labeled as a Class II Rated smoke damper with airflow in both directions
- **350°F** UL555S listed and labeled for 350°F
- **1½ hour** UL555 listed and labeled as a 1½ hour fire damper
- **Dual labeled** UL labeled for both wall and corridor applications up to size 24"x24"
- **Belimo** 120 VAC electric Belimo actuators, fail close
- **165°F** Thermal disc standard (212°F, 250°F & 350°F also available)
- **2000 FPM** Maximum velocity
- **4" WG** Maximum pressure

CONSTRUCTION:

- **Frame** Roll formed galvanized steel
- **Blades** 16 gauge, galvanized steel
- **Bearings** Bronze Oilite
- **Axles** Square, plated steel
- **Linkage** Concealed in frame
- **Finish** Mill galvanized
- **Sleeve** 16", 20 gauge galvanized steel (Maximum 6" wall thickness)

These models meet the requirements for fire dampers established by:

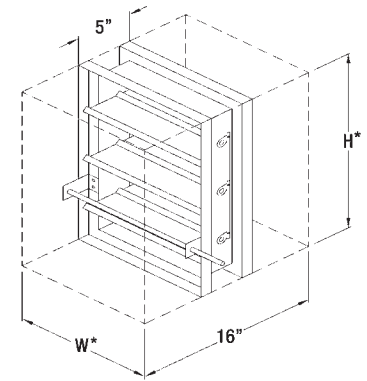
California State Fire Marshal
(Listing #3225-1722:107 for use in walls)

Underwriters Laboratories Standard 555

National Fire Protection Association
(NFPA Standards 90A)



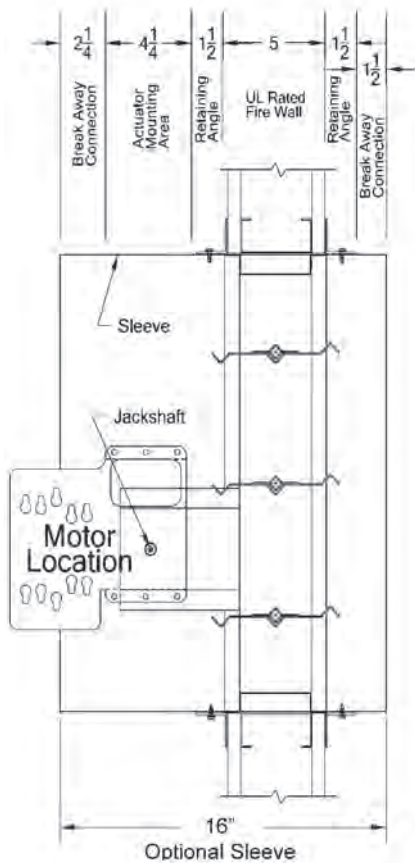
FS3VII



* Undersized approx. 1/4"

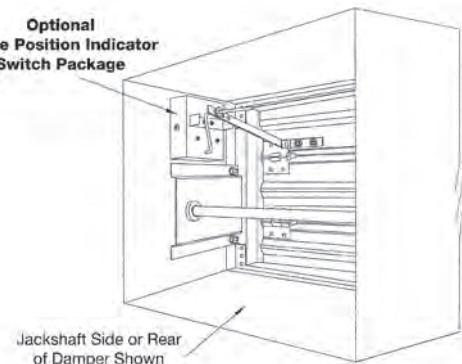
Note: The standard actuator is externally installed on the lower right hand half of the damper when viewed from the jack shaft side. FS3VII has UL approval for the damper to be installed with the actuator on either the lower right hand side or rotated 180° so it is on the upper left hand side. The top of the damper could be either side of the frame, as long as the blades are running horizontal.

Note: Angles are priced per stick. For installations requiring angles on both soff penetration, 8 sticks are required. For Angles on one side only, 4 sticks are required.



Retaining Angles	Add For Angles* (per stick)	SKU
6"	5	49112
8"	5	49114
10"	5	49116
12"	5	49118
14"	10	49120
16"	10	49122
18"	10	49124
20"	10	49126
22"	10	49128
24"	10	49130
26"	15	49132
28"	15	49134
30"	20	49136
32"	20	49138
36"	20	49140
42"	30	49142
48"	30	49144

**Optional
Blade Position Indicator
Switch Package**



Jackshaft Side or Rear of Damper Shown

Model	Description	List Price	SKU
FS3 SWITCH PACKAGE	Optional blade position indicator switch package (loose)	210	41406
SPEC MOD 11	Add for mounting and wiring switch package	125	61615

Duct Size	List Price FS3V2	SKU	Duct Size	List Price FS3V2	SKU	Duct Size	List Price FS3V2	SKU	Duct Size	List Price FS3V2	SKU
6" x 6"	1015	41100	20" x 8"	1115	41123	26" x 14"	1280	41148	32" x 20"	1620	41167
8" x 6"	1015	41101	20" x 10"	1160	41124	26" x 16"	1350	41149	32" x 22"	1705	41312
8" x 8"	1015	41102	20" x 12"	1205	41125	26" x 18"	1415	41150	32" x 24"	1705	41313
10" x 8"	1050	41103	20" x 14"	1285	41126	28" x 14"	1350	41152	36" x 12"	1365	41168
10" x 10"	1050	41104	20" x 16"	1285	41127	28" x 16"	1350	41153	36" x 14"	1445	41314
12" x 6"	1050	41404	20" x 18"	1365	41128	28" x 18"	1415	41154	36" x 18"	1670	41169
12" x 8"	1050	41105	20" x 20"	1365	41129	28" x 24"	1635	41305	36" x 20"	1670	41315
12" x 10"	1085	41106	22" x 6"	1165	41304	28" x 28"	1745	41306	36" x 22"	1760	41316
12" x 12"	1130	41107	22" x 8"	1165	41130	30" x 6"	1250	41307	36" x 24"	1760	41170
14" x 8"	1090	41108	22" x 10"	1200	41131	30" x 8"	1250	41308	36" x 26"	1875	41317
14" x 10"	1135	41109	22" x 12"	1240	41132	30" x 10"	1285	41156	36" x 36"	2400	41318
14" x 12"	1165	41110	22" x 14"	1310	41133	30" x 12"	1320	41157	42" x 12"	2270	41171
14" x 14"	1250	41111	22" x 16"	1310	41134	30" x 14"	1400	41158	42" x 14"	2370	41319
16" x 8"	1090	41112	22" x 18"	1390	41135	30" x 16"	1400	41159	42" x 18"	2585	41172
16" x 10"	1135	41113	22" x 22"	1450	41137	30" x 18"	1475	41160	42" x 24"	2715	41173
16" x 12"	1170	41114	24" x 8"	1165	41138	30" x 20"	1620	41161	42" x 42"	4090	41320
16" x 14"	1250	41115	24" x 10"	1200	41139	30" x 24"	1705	41162	48" x 12"	2320	41174
16" x 16"	1250	41116	24" x 12"	1240	41140	30" x 26"	1835	41309	48" x 14"	2450	41321
18" x 8"	1115	41117	24" x 14"	1310	41141	30" x 30"	1960	41310	48" x 18"	2625	41175
18" x 10"	1160	41118	24" x 16"	1310	41142	32" x 10"	1285	41311	48" x 20"	2575	41322
18" x 12"	1205	41119	24" x 18"	1390	41143	32" x 12"	1320	41163	48" x 24"	2765	41176
18" x 14"	1285	41120	24" x 20"	1390	41144	32" x 14"	1400	41164	48" x 30"	3500	41177
18" x 16"	1285	41121	24" x 22"	1450	41145	32" x 16"	1475	41165	48" x 36"	3685	41178
18" x 18"	1365	41122	24" x 24"	1450	41146	32" x 18"	1475	41166	48" x 48"	4595	41323

Options, accessories and replacement parts

Model	Description	List Price	SKU
THERMAL DISC 212°	Optional 212° thermal disc (in lieu of standard 165°)	25	41298
THERMAL DISC 250°	Optional 250° thermal disc (in lieu of standard 165°)	45	41299
THERMAL DISC 350°	Optional 350° thermal disc (in lieu of standard 165°)	45	41300
FSFLANGE 8" LONG	Accessory 8" bottom flange for corridor applications, 8" long	5	41303
FSFLANGE SET 0808	Accessory 8" x 8" bottom flange for corridor applications	20	49341
FSFLANGE SET 1010	Accessory 10" x 10" bottom flange for corridor applications	25	49342
FSFLANGE SET 1212	Accessory 12" x 12" bottom flange for corridor applications	25	49343
FSFLANGE SET 1414	Accessory 14" x 14" bottom flange for corridor applications	30	49344
FSFLANGE SET 1616	Accessory 16" x 16" bottom flange for corridor applications	35	49345
FSFLANGE SET 1818	Accessory 18" x 18" bottom flange for corridor applications	35	49347
FSFLANGE SET 2222	Accessory 22" x 22" bottom flange for corridor applications	45	49347
FSLF-120-US	Replacement Belimo Actuator for dampers up to 4 sq. feet	1025	12789
FSNF-120-US	Replacement Belimo Actuator for dampers up to 12 sq. feet	1283	13310
SPEC MOD 11A	Add for mounting one STR to Fire/Smoke damper	25	61522

Related items

Retaining Angles- Page 47
STR Adaptors- Page 95
Smoke Detectors- Page 116



SINGLE DUCT VAV FOR DIGITAL APPLICATIONS

FEATURES:

- Heavy gauge steel housing. Mechanically sealed and gasketed, leak resistant construction
- 1/2" internal insulation, cloth faced to resist air erosion
- Meets requirements of NFPA 90A, NFPA 90B, and UL 181
- Tight close-off damper. Leakage is less than 2% of nominal cfm at 6" SP as rated by ADC Test Code 1062R4
- Rectangular discharge for slip-and-drive cleat duct connection
- Multipoint center averaging inlet velocity sensor
- Gauge tees for cfm measurement



DESV shown above with optional Control Enclosure and Siemens Predator Control

Inlet Size	CFM Range	D	L*	W	H	F	G	Weight lbs.
6"	0-500	5 ⁷ / ₈	15 ¹ / ₂	12	8	2 ¹ / ₈	7 ³ / ₈	23
7"	0-650	6 ⁷ / ₈	15 ¹ / ₂	12	10	1 ¹ / ₈	7 ³ / ₈	25
8"	0-900	7 ⁷ / ₈	15 ¹ / ₂	12	10	1 ¹ / ₈	7 ³ / ₈	25
9"	0-1050	8 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	-	5 ³ / ₈	30
10"	0-1400	9 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	-	5 ³ / ₈	30
12"	0-2000	11 ⁷ / ₈	15 ¹ / ₂	16	15	-	5 ³ / ₈	35
14"	0-3000	13 ⁷ / ₈	15 ¹ / ₂	20	17 ¹ / ₂	-	3 ³ / ₈	35
16"	0-4000	15 ⁷ / ₈	15 ¹ / ₂	24	18	-	3 ³ / ₈	47
24" x 16"	0-8000	23 ⁷ / ₈ x 15 ⁷ / ₈	15 ¹ / ₂	38	18	1 ¹ / ₈	5 ³ / ₈	74

*SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"

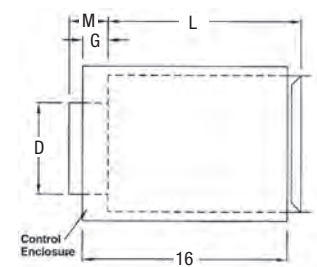
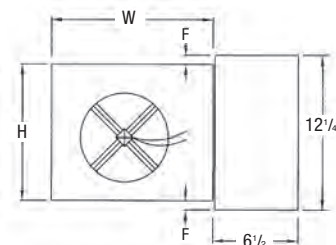
Inlet Size	DESV List Pricing ¹			List Pricing for Accessories					
	Standard Lining	SteriLoc Lining ²	FibreFree Lining ²	1 Row Coil	2 Row Coil	Atten. Std. 3ft. KD	End Cap For Atten.	Damper Kit	Cross Sensor
	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU
6"	410 61121	1040 61137	970 61130	160 61100	245 61107	340 61114	40 71144	65 61202	230 61199
7"	510 61122	-	-	230 61101	320 61108	360 61115	45 71145	65 61225	235 61231
8"	510 61123	1210 61138	1135 61131	230 61101	320 61108	360 61115	45 71145	65 61226	235 61232
9"	545 61124	-	-	265 61102	425 61109	405 61116	50 71146	65 61207	240 61233
10"	545 61125	1305 61139	1225 61132	265 61102	425 61109	405 61116	50 71146	65 61227	240 61234
12"	565 61126	1420 61140	1335 61133	370 61103	525 61110	490 61117	65 71147	70 61228	250 61235
14"	740 61127	1730 61141	1630 61134	460 61104	750 61111	550 61118	75 71148	100 61229	260 61236
16"	790 61128	1880 61142	1740 61135	520 61105	835 61112	615 61119	85 71149	130 61230	270 61237
24" x 16"	1070 61129	2410 61143	2280 61136	890 61106	1190 61113	710 61120	100 71150	-	-

¹ List pricing is for bare terminals only. See page 50 for Control options.

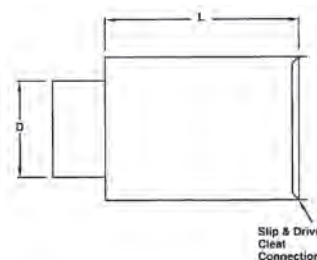
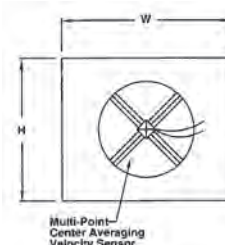
² SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"

Item No.	Description	List	SKU
ESV 4"	ESV 6" to 4" Reducer	35	61154
ESV 5"	ESV 6" to 5" Reducer	35	61155

DESV with optional Control Enclosure



SDT bare



NEPTRONIC EVC/EVCB CONTROLLER/ACTUATOR

FEATURES:

- Functions as a stand-alone VAV terminal
- Pressure independent digital controller/actuator
- Field-selectable parameters allow entry and updating of setpoint and control parameters via the room sensor
- Integral shaft-mount of the one-piece VAV Actuator further reduces installation and set up time
- Advanced PID control minimizes offset and maintains tighter setpoint control
- Return to service from power failure without operator intervention
- Also BACnet® BTL approved (Model EVCB)



Neptronic EVC/EVCB

HOW IT WORKS:

The Neptronic EVC/EVCB DDC controller can be used as a stand-alone control or part of a BACnet® building automation system. Applications include:

- VAV/CV cooling only (application 07)
- VAV/CV with hot water reheat (application 06)
- VAV cooling/heating auto changeover (application 08)

Controller can be set in the field using the wall sensor menus. Tag, box size, maximum cfm, minimum cfm, and application number must be supplied with order if programming is desired.

NEPTRONIC TRL25

FEATURES:

- Large LCD with backlight
- Icon driven menus
- 1 line text
- 4 push buttons



Neptronic TRL25

Item No.	Description	List Price	SKU
EVC74RIT2S	EVC Stand-alone DDC Controller/Actuator	1070	74100
EVCB74RIT2S	EVC BACnet® DDC Controller/Actuator	1320	74101
TRL25	Room temperature sensor with service port*	290	74102
STC8-11	Changeover Sensor	130	74103
CONTROL ENCLOSURE	NEMA 1 Enclosure, with double backplane 18" x 12" x 6 1/2"	155	61180
ENCLOSURE PARTITION	Control box transformer partition	10	61183
ENCLOSURE GROMMET	Grommet for transformer partition knock-out	5	61182
T5401	120 to 24V, 40 VA, multi-mount transformer	70	22244
DISC SWITCH	20A toggle switch	65	61181
75908 05 23	18 AWG. 8 conductor wire, 500' roll	1310	22283
TOOL 33 296	Crimper/cutter/stripper, RJ11/RJ45	450	13271
CONNECTOR RJ45	RJ45 Plug, 8 position	3	13325
SPECIAL MOD 10	Add for mounting and wiring of EVC/EVCB control**	210	61514
SPECIAL MOD 10B	Add for programming (optional)	85	61516
SPECIAL MOD 10E	Add for mounting of transformer and/or disconnect switch	60	61519

*Service Port used in EVCB BACnet® Applications only

**Or customer furnished control

EVC/EVCB Controllers and TRL25 thermostats have an RJ45 jack. Use the 8-conductor wire, RJ45 plug and crimping tool to build your own cable to the length you need.

Related items

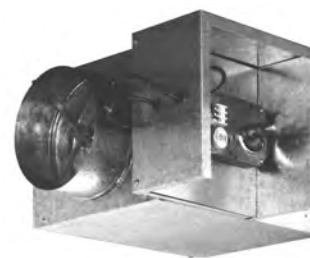
Neptronic Valves and Actuators – Page 111



SINGLE DUCT VAV FOR ANALOG APPLICATIONS

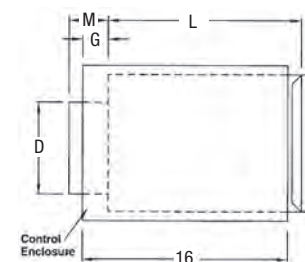
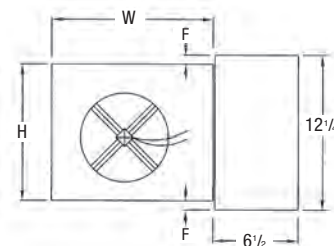
FEATURES:

- Heavy gauge steel housing. Mechanically sealed and gasketed, leak resistant construction
- 1/2" internal insulation, cloth faced to resist air erosion
- Meets requirements of NFPA 90A, NFPA 90B, and UL 181
- Tight close-off damper. Leakage is less than 2% of nominal cfm at 6" SP as rated by ADC Test Code 1062R4
- Rectangular discharge for slip-and-drive cleat duct connection
- Multipoint center averaging inlet velocity sensor
- Gauge tees for cfm measurement



AESV shown above with optional Control Enclosure and Titus TA1 Control

AESV with optional Control Enclosure



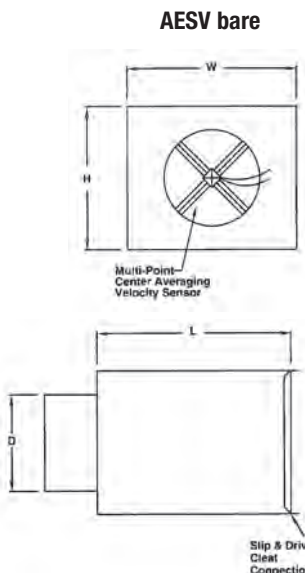
Inlet Size	CFM Range	D	L*	W	H	F	G	Weight lbs.
6"	0-500	5 ⁷ / ₈	15 ¹ / ₂	12	8	2 ¹ / ₈	7 ³ / ₈	23
7"	0-650	6 ⁷ / ₈	15 ¹ / ₂	12	10	1 ¹ / ₈	7 ³ / ₈	25
8"	0-900	7 ⁷ / ₈	15 ¹ / ₂	12	10	1 ¹ / ₈	7 ³ / ₈	25
9"	0-1050	8 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	-	5 ³ / ₈	30
10"	0-1400	9 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	-	5 ³ / ₈	30
12"	0-2000	11 ⁷ / ₈	15 ¹ / ₂	16	15	-	5 ³ / ₈	35
14"	0-3000	13 ⁷ / ₈	15 ¹ / ₂	20	17 ¹ / ₂	-	3 ³ / ₈	35
16"	0-4000	15 ⁷ / ₈	15 ¹ / ₂	24	18	-	3 ³ / ₈	47
24" x 16"	0-8000	23 ⁷ / ₈ x 15 ⁷ / ₈	15 ¹ / ₂	38	18	1 ¹ / ₈	5 ³ / ₈	74

*SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"

Inlet Size	AESV List Pricing ¹			List Pricing for Accessories					
	Standard Lining	SteriLoc Lining ²	FibreFree Lining ²	1 Row Coil	2 Row Coil	Atten. Std. 3ft. KD	End Cap For Atten.	Damper Kit	Cross Sensor
	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU
6"	410 61121	1040 61137	970 61130	160 61100	245 61107	340 61114	40 71144	65 61202	230 61199
7"	510 61122	-	-	230 61101	320 61108	360 61115	45 71145	65 61225	235 61231
8"	510 61123	1210 61138	1135 61131	230 61101	320 61108	360 61115	45 71145	65 61226	235 61232
9"	545 61124	-	-	265 61102	425 61109	405 61116	50 71146	65 61207	240 61233
10"	545 61125	1305 61139	1225 61132	265 61102	425 61109	405 61116	50 71146	65 61227	240 61234
12"	565 61126	1420 61140	1335 61133	370 61103	525 61110	490 61117	65 71147	70 61228	250 61235
14"	740 61127	1730 61141	1630 61134	460 61104	750 61111	550 61118	75 71148	100 61229	260 61236
16"	790 61128	1880 61142	1740 61135	520 61105	835 61112	615 61119	85 71149	130 61230	270 61237
24" x 16"	1070 61129	2140 61143	2280 61136	890 61106	1190 61113	710 61120	100 71150	-	-

¹ List pricing is for bare terminals only. See page 52 for Control options.

² SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"



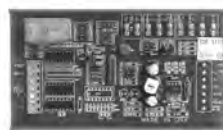
Item No.	Description	List	SKU
ESV 4"	ESV 6" to 4" Reducer	35	61154
ESV 5"	ESV 6" to 5" Reducer	35	61155



TITUS TA1 COMBO



TITUS TA2 COMBO



TITUS TAT1
TITUS TAT3
TITUS TAT4



CONTROL
ENCLOSURE

Control Sequence	Motor/Controller Combo	Sensor	Stat
Cooling Only (AT31)	TA2	No	TAT1
Auxiliary Heat (AT33)	TA1	No	TAT3
Auto Changeover (AT34)	TA1	Yes	TAT3
Proportional Reheat (AT35)	TA1	No	TAT4
Cooling with MWU (AT36)	TA1	Yes	TAT1



T5401



DISC SWITCH



TEMP SENSOR



CALIBRATION
CABLE

Stand-alone Controls – Easy installation, requires no programming

Item No.	Description	List Price	SKU
TITUS TA1	Pressure Independent VAV, Controller/Motor Combo (All Htg. Apps.)	1285	61185
TITUS TA2	Pressure Independent VAV, Controller/Motor Combo (Cooling Only)	1155	61187
TITUS TAT1	Analog Thermostat (Cooling Only or with MWU)	445	61189
TITUS TAT3	Analog Thermostat (Auto Changeover or Aux. Heat)	565	61190
TITUS TAT4	Analog Thermostat (Proportional Reheat)	565	61191
TITUS TEMP SENSOR	Duct Temperature Sensor	130	61192
TITUS CALIB CABLE	Thermostat Calibration Cable	190	61179
TITUS TRANSFORMER	120 to 24V, 40 VA, Multi-mount Transformer	85	22244
TITUS DISC SWITCH	20A Toggle Switch	60	61181
CONTROL ENCLOSURE	NEMA 1 Enclosure, with double backplane 18" x 12" x 6½"	155	61180
ENCLOSURE PARTITION	Control box transformer partition	10	61183
ENCLOSURE GROMMET	Grommet for transformer partition knock-out	5	61182
SPECIAL MOD 10A	Add for mounting and wiring of TA1 or TA2 controls	125	61515
SPECIAL MOD 10E	Add for mounting of transformer and/or disconnect switch	60	61519

Item No.	Description	List Price	SKU
55302 55 07	2 Conductor Wire, 500' Roll	255	22264
55303 55 07	3 Conductor Wire, 500' Roll	390	22265
55304 55 07	4 Conductor Wire, 250' Roll	265	22266
55305 55 07	5 Conductor Wire, 250' Roll	355	22267
55306 55 07	6 Conductor Wire, 250' Roll	395	22268
55307 55 07	7 Conductor Wire, 250' Roll	520	22269
55308 55 07	8 Conductor Wire, 250' Roll	555	22270
55310 54 07	10 Conductor Wire, 250' Roll	745	22271



Thermostat Wire

SINGLE DUCT VARIABLE VOLUME TERMINAL UNITS

FEATURES:

- Heavy gauge steel housing. Mechanically sealed and gasketed, leak resistant construction
- 1/2" internal insulation, cloth faced to resist air erosion
- Meets requirements of NFPA 90A, NFPA 90B, and UL 181
- Tight close-off damper. Leakage is less than 2% of nominal cfm at 6" SP as rated by ADC Test Code 1062R4
- Rectangular discharge for slip-and-drive cleat duct connection
- Multipoint center averaging inlet velocity sensor
- Gauge tees for cfm measurement



PESV

MODEL: PESV

- Pneumatic actuator
- Pressure independent
- Position indicator on shaft
- Titus T2A (multi-function) Controller
- DA-NO/NC or RA-NO/NC
- Field calibration required



PESV

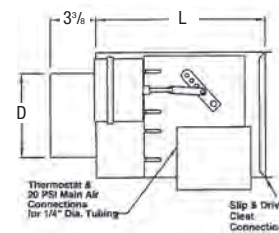
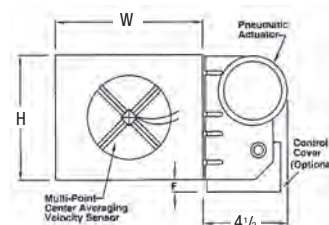
Inlet Size	CFM Range	D	L*	W	H	Weight lbs.
6"	0-500	5 ⁷ / ₈	15 ¹ / ₂	12	8	23
7"	0-650	6 ⁷ / ₈	15 ¹ / ₂	12	10	25
8"	0-900	7 ⁷ / ₈	15 ¹ / ₂	12	10	25
9"	0-1050	8 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	30
10"	0-1400	9 ⁷ / ₈	15 ¹ / ₂	14	12 ¹ / ₂	30
12"	0-2000	11 ⁷ / ₈	15 ¹ / ₂	16	15	35
14"	0-3000	13 ⁷ / ₈	15 ¹ / ₂	20	17 ¹ / ₂	35
16"	0-4000	15 ⁷ / ₈	15 ¹ / ₂	24	18	47
24" x 16"	0-8000	23 ⁷ / ₈ x 15 ⁷ / ₈	15 ¹ / ₂	38	18	74

*SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"

Inlet Size	PESV List Pricing			List Pricing for Accessories					
	Standard Lining	SteriLoc Lining ²	FibreFree Lining ²	1 Row Coil	2 Row Coil	Atten. Std. 3ft. KD	End Cap For Atten.	Damper Kit	Cross Sensor
	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU	SKU
6"	1035 61158	1790 Ask	1720 Ask	160 61100	245 61107	340 61114	40 71144	65 61202	230 61199
7"	1135 61159	—	—	230 61101	320 61108	360 61115	45 71145	65 61225	235 61231
8"	1135 61160	1960 Ask	1885 Ask	230 61101	320 61108	360 61115	45 71145	65 61226	235 61232
9"	1165 61161	—	—	265 61102	425 61109	405 61116	50 71146	65 61207	240 61233
10"	1165 61162	2055 Ask	1975 Ask	265 61102	425 61109	405 61116	50 71146	65 61227	240 61234
12"	1185 61163	2170 Ask	2085 Ask	370 61103	525 61110	490 61117	65 71147	70 61228	250 61235
14"	1365 61164	2480 Ask	2380 Ask	460 61104	750 61111	550 61118	75 71148	100 61229	260 61236
16"	1415 61165	2630 Ask	2490 Ask	520 61105	835 61112	615 61119	85 71149	130 61230	270 61237
24" x 16"	1695 61166	3160 Ask	3030 Ask	890 61106	1190 61113	710 61120	100 71150	—	—

See page 54 for Control options.

² SteriLoc & FibreFree boxes are stocked with integral attenuators. "L" Dimension is 39-1/2"



Item No.	Description	List	SKU
ESV 4"	ESV 6" to 4" Reducer	35	61154
ESV 5"	ESV 6" to 5" Reducer	35	61155



TITUS T1D



TITUS T2A



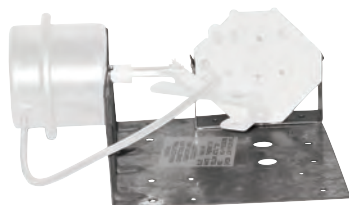
TITUS T2



PESV ACTUATOR



TITUS T2A
BRACKET



TITUS MOUNTING PLATE



243 0024



1219 44003
1219 440T3



TP970A 2145
TP970B 2077



192 840
192 841



T4002 301
T4002 302



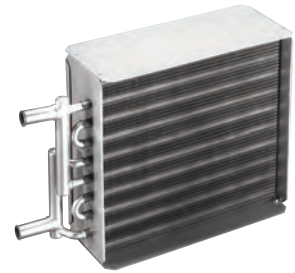
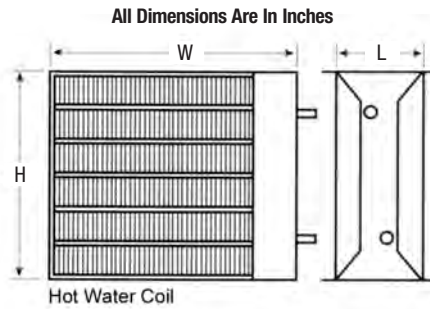
2212 118
2212 119

ACCESSORIES & REPLACEMENT PARTS PRICING

Item No.	Description	List Price	SKU
TITUS T1D CONTROL	Economy VAV Controller, Direct Acting (CSC-2013 gray)	330	21609
RELAY 243 0024	Reverse Acting Relay	290	21424
TITUS T2A CONTROL	Universal VAV Controller, Changeable action (CSC-3017)	380	21611
TITUS T2 CONTROL	Premium VAV Controller, Switchable action (CSC-3004)	615	61184
PESV ACTUATOR	Pneumatic Actuator, 5-10 psi	180	61167
TITUS MTG PLATE	Mounting Plate with U-Bracket for actuator and controller	260	61193
TITUS T2A BRACKET	U-Bracket only for T2 and T2A controllers	10	21610
TP970A 2145	Honeywell Pneumatic T-Stat Kit, Direct Acting, 2 pipe	385	22232
TP970B 2077	Honeywell Pneumatic T-Stat Kit, Reverse Acting, 2 pipe	405	22233
STAT 192 840	Siemens Pneumatic T-Stat Kit, Direct Acting, 2 pipe	380	21481
STAT 192 841	Siemens Pneumatic T-Stat Kit, Reverse Acting, 2 pipe	375	21483
T4002 301	Johnson Controls T-Stat Conversion Kit, Direct Acting, with White Cover	530	21520
T4002 302	Johnson Controls T-Stat Conversion Kit, Reverse Acting, with White Cover	425	21521
2212 118	Invensys Pneumatic T-Stat, Direct Acting, 2 pipe	370	21493
2212 119	Invensys Pneumatic T-Stat, Reverse Acting, 2 pipe	370	21594
TUB 1219 44003	Pneumatic Tubing 1/4 in., 250 ft. roll, black	135	22250
TUB 1219 440T3	Pneumatic Tubing 1/4 in., 250 ft. roll, twin tube, black	470	22251

FEATURES:

- Copper tubing, Aluminum fins, Galvanized S & Drive casing
- Leak tested to 300 psi
- Slip-and-drive cleat duct connection
- Coil ships separately for field mounting at discharge outlet of ESV terminal
- Also suitable for remote duct mounting



Box Size	W	H	L	Circuits		List Price		List Price		Wet Weight lbs.	
				1 Row	2 Row	1 Row	SKU	2 Row	SKU	1 Row	2 Row
6"	12	8	5	Single	Multi	170	61100	265	61107	5.59	7.26
7, 8"	12	10	5	Single	Multi	245	61101	340	61108	5.77	8.82
9, 10"	14	12½	5	Multi	Multi	285	61102	455	61109	8.17	11.32
12"	16	15	5	Multi	Multi	400	61103	570	61110	10.87	15.45
14"	20	17½	7½	Multi	Multi	495	61104	810	61111	12.29	19.08
16"	24	18	7½	Multi	Multi	555	61105	900	61112	14.67	21.75
24"x 16"	38	18	5	Multi	Multi	960	61106	1280	61113	21.20	32.50

Connections: Single circuit 1/2" O.D. male solder. Multi circuit, 7/8" O.D. male solder.

Item No.	Description	List	SKU
T300	Bicycle Handle Fin Comb	70	12583
T100	Multi-Head Fin Tool Kit	55	12582



T100



T300

DUAL DUCT ASSEMBLIES

Dual duct assemblies are available in all lining and control options.

DEDV: Digital double duct
AEDV: Analog double duct

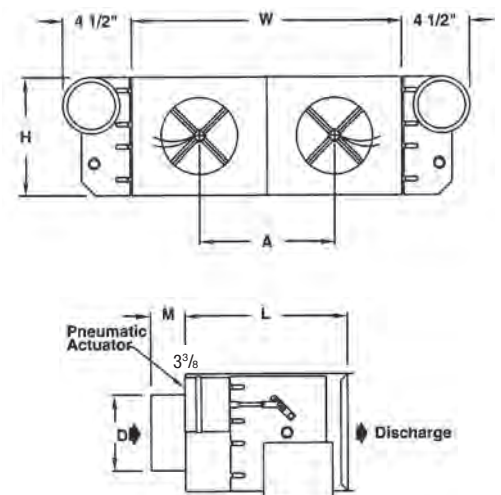
PEDV: Pneumatic e duct
EDV: Bare (no controls) double duct



To price any dual duct assembly, price two single duct terminals and add \$75 list.

Inlet Size	A	W	H	D	L	List Price
6"	12⅞	24⅞	8	5⅞	15½	75 61153 (Mounting SKU)
7"	12⅞	24⅞	10	6⅞	15½	
8"	12⅞	24⅞	10	7⅞	15½	
9"	14⅞	28⅞	12½	8⅞	15½	
10"	14⅞	28⅞	12½	9⅞	15½	
12"	16⅞	32⅞	15	11⅞	15½	
14"	20⅞	40⅞	17½	13⅞	15½	
16"	24⅞	48⅞	18	15⅞	15½	

*SteriLoc & FibreFree boxes are stocked with divided hot & cold integral attenuators.
 "L" Dimension is 39-1/2"



TPDBS / TPDBU / TPDBR

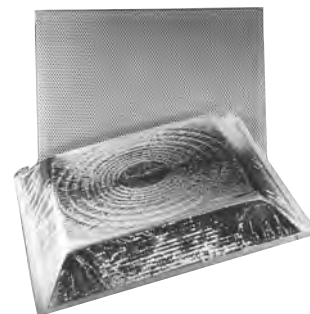
FEATURES:

- All models accommodate 4" through 16" start collars (see below)
- All models for Lay-in T-Bar ceiling
- All models come with a black interior and a white perforated metal face

Model TPDBS2424 Supply has four individually adjustable and removable deflectors

Model TPDBU2424 Universal is both a 4-way supply and a return with a removable 6" round disc deflector

Model TPDBR2424 Return has no deflectors



TPDBS / TPDBU / TPDBR

Model	List Price
	SKU
TPDBS 2424	100 73104
TPDBU 2424	90 73105
TPDBR 2424	90 73103

METAL OR FIBERGLASS BACK PERFORATED FILTER RETURN

TPDBF / TPMBF

FEATURES:

- Three inch high steel frame
- Holds a 20" x 20" x 1" filter and accommodates a 4" through 20" start collar
- For Lay-in T-Bar ceilings
- Black interior and a white perforated metal face

Model	Model	List Price
		SKU
TPDBF 2424	Fiberglass Back	155 73102
TPMBF 2424	Metal Back	190 73307
Poly Filter	20"x20"x1"	8 11414



TPDBF

START COLLAR

START COLLAR
5" K.D., High Crimp - Dove Tail



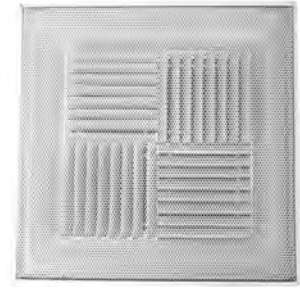
Duct Size	List Price
	SKU
4"	5 71292
5"	5 71293
6"	7 71294
7"	9 71295
8"	9 71296
9"	10 71297

Duct Size	List Price
	SKU
10"	11 71298
12"	13 71299
14"	14 71300
16"	17 71301
18"	20 71302
20"	26 71303

MODULAR CORE PERFORATED DIFFUSERS

FEATURES:

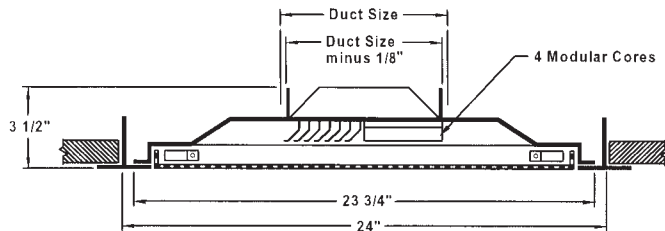
- Square neck
- True removable modular core
- Extremely flexible - can be adjusted for a 1, 2, 3, or 4-way discharge pattern after it has been installed
- Maintains a horizontal flow pattern from maximum to minimum cfm in VAV systems
- 24" square lay-in ceiling module with hinged removable face
- Baked enamel finish on steel; white perf on black backpan, or white on white



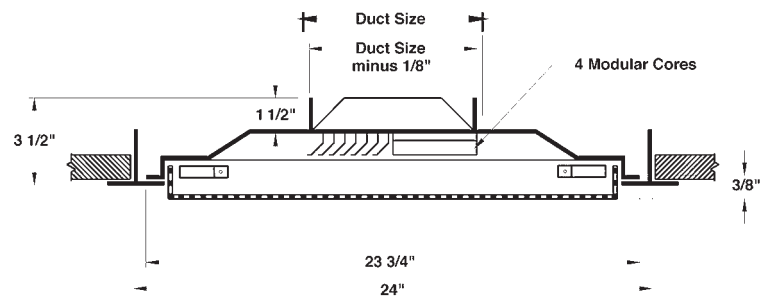
PMC3

Duct Size	Max CFM @ NC 35	List Price PMC3FW SKU	List Price PMC3FB SKU	List Price PMC3DW SKU	List Price PMC3DB SKU
6"x6"	200	200 51684	215 51677	215 51670	235 51663
8"x8"	330	210 51685	230 51678	230 51671	245 51664
10"x10"	470	225 51686	240 51679	245 51672	265 51665
12"x12"	640	240 51687	260 51680	260 51673	280 51666
14"x14"	850	260 51688	275 51681	280 51674	300 51667
16"x16"	1020	340 51689	355 51682	365 51675	385 51668
18"x18"	1230	380 51690	395 51683	410 51676	435 51669

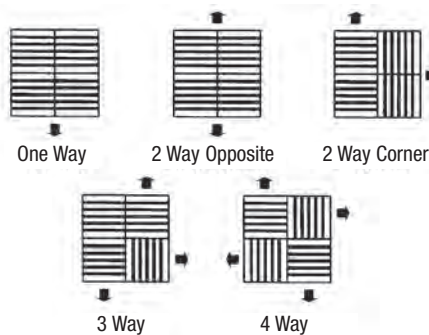
Model: PMC3F
(Standard Lay-In)



Model: PMC3D
(Drop Screen Lay-In)



Modular Core Adjustments



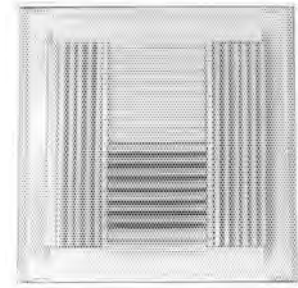
Model Key:

Part No.	Model	Border	Face	Interior
PMC3FW	PMC	TYPE 3	FLUSH	WHITE
PMC3FB	PMC	TYPE 3	FLUSH	BLACK
PMC3DW	PMC	TYPE 3	DROP	WHITE
PMC3DB	PMC	TYPE 3	DROP	BLACK

ADJUSTABLE CURVED BLADE PERFORATED DIFFUSERS

FEATURES:

- Round or square neck
- Classic “Curved Blade Perf” diffuser
- 1, 2, 2C, 3 or 4-way blow pattern is factory set
- Discharge pattern can be adjusted from horizontal to vertical
- 24” square lay-in ceiling module with hinged removable face
- White baked enamel finish on steel



PCS3

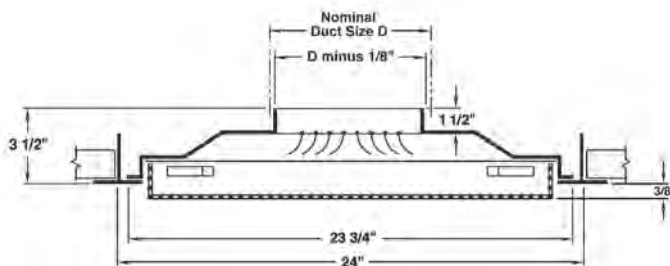
Model Key:

Part No.	Model	Border	Face	Interior
PCS3FW	PCS	TYPE 3	FLUSH	WHITE
PCS3DW	PCS	TYPE 3	DROP	WHITE

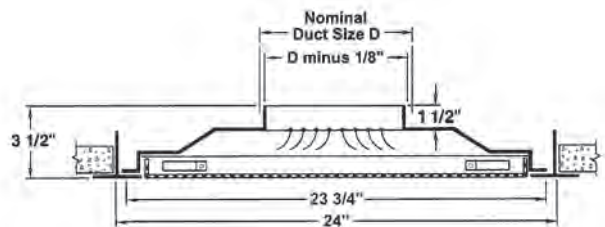
**NOTE: SPECIFY BLOW PATTERN DESIRED
1 WAY, 2 WAY, 2 WAY-C, 3 WAY OR 4 WAY**

Duct Size	Max CFM @ NC 35	List Price PCS3FW 1-Way SKU	List Price PCS3FW 2-Way SKU	List Price PCS3FW 2-WayC SKU	List Price PCS3FW 3-Way SKU	List Price PCS3FW 4-Way SKU	List Price PCS3DW 4-Way SKU
6"	150	155 51556	155 51557	155 51558	155 51559	155 51560	165 51500
8"	240	155 51566	155 51567	155 51568	155 51569	155 51570	165 51510
10"	360	155 51576	155 51577	155 51578	155 51579	155 51580	165 51520
12"	490	155 51586	155 51587	155 51588	155 51589	155 51590	165 51530
14"	640	155 51596	155 51597	155 51598	155 51599	155 51600	165 51540
16"	810	180 51606	180 51607	180 51608	180 51609	180 51610	195 51550
6"x6"	180	170 51561	175 51562	170 51563	170 51564	170 51565	—
8"x8"	300	170 51571	170 51572	170 51573	170 51574	170 51575	—
10"x10"	440	170 51581	170 51582	170 51583	170 51584	170 51585	—
12"x12"	600	170 51591	170 51592	170 51593	170 51594	170 51595	—
15"x15"	900	170 51601	170 51602	170 51603	170 51604	170 51605	—
18"x18"	1250	200 51611	200 51612	200 51613	200 51614	200 51615	—

Model: PCS3D
(Drop Screen Lay-In)



Model: PCS3F
(Standard Lay-In)



Related items

Matching Returns – Page 62
Accessory Dampers – Page 79, 80
Neck Adapters – Page 95, 96
Narrow Tee Ceiling – Page 59

PERFORATED NARROW-TEE DIFFUSERS

PCS3N FEATURES:

- Classic "Curved Blade Perf" diffuser
- 4-way blow pattern is factory set
- Discharge pattern can be adjusted from horizontal to vertical

PMC3N FEATURES:

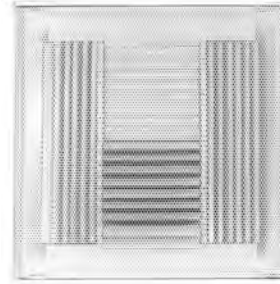
- True removable modular core
- Extremely flexible - can be adjusted for a 1, 2, 3, or 4-way discharge pattern after it has been installed

COMMON FEATURES:

- Round or square neck
- Hinged removable face
- 24" square lay-in ceiling module with removable face designed for narrow-tee (Donn Fineline) ceiling grids
- Baked enamel finish on steel

Model Key:

Part No.	Model	Border	Face	Color
PCS3NW	PCS	TYPE 3	NARROW-TEE	WHITE
PMC3NW	PMC	TYPE 3	NARROW-TEE	WHITE
PMC3NB	PMC	TYPE 3	NARROW-TEE	BLACK

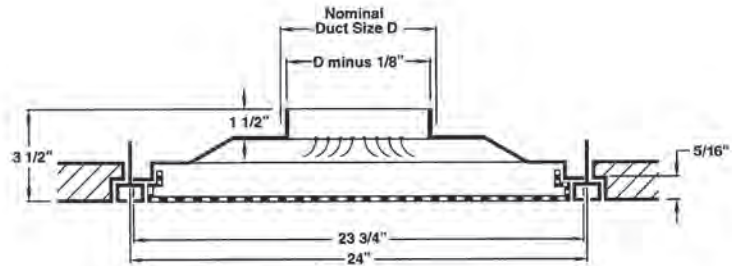


PCS3N

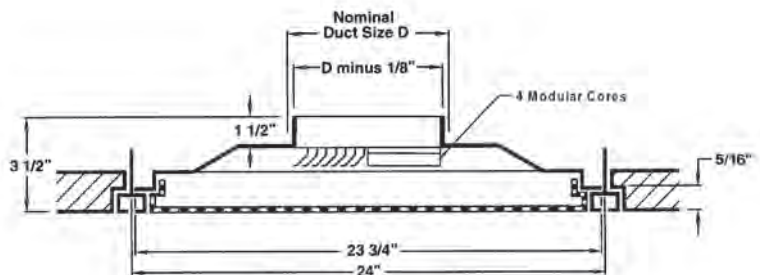


PMC3N

Model: PCS3N
(for Narrow-Tee)



Model: PMC3N
(for Narrow-Tee)



Round Neck

Duct Size	List Price PCS3NW SKU	List Price PMC3NW SKU	List Price PMC3NB SKU
6"	125 52233	150 52284	165 52270
8"	125 52235	160 52286	180 52272
10"	125 52237	170 52288	190 52274
12"	125 52239	180 52290	200 52276
14"	125 52241	190 52292	210 52278
16"	145 52243	235 52294	255 52280

See pages 57 and 58 for Max CFM @ NC35 values

Square Neck

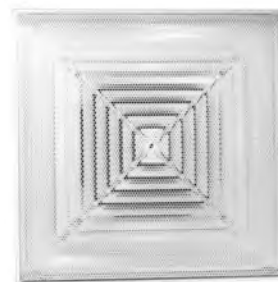
Duct Size	List Price PCS3NW SKU	List Price PMC3NW SKU	List Price PMC3NB SKU
6" x 6"	140 52234	150 52285	165 52271
8" x 8"	140 52236	160 52287	180 52273
10" x 10"	140 52238	170 52289	190 52275
12" x 12"	140 52240	180 52291	200 52277
14" x 14"	140 52242	190 52293	210 52279
16" x 16"	140 52244	235 52295	255 52281

See pages 57 and 58 for Max CFM @ NC35 values

ADJUSTABLE STAR PATTERN PERFORATED DIFFUSERS

FEATURES:

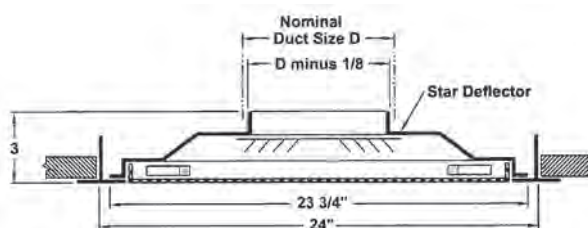
- Round or square neck
- PSS diffusers deliver a horizontal blanket of air that adheres to the ceiling even at varying volumes – an excellent choice for VAV systems
- Deflector is mounted directly under the neck of the diffuser to generate a high induction air pattern that maximizes throw
- Discharge direction can be field adjusted with no increase in pressure drop or sound level
- 24" square lay-in ceiling module with hinged removable face
- Baked enamel finish on steel; white on white, or white perf on black backpan



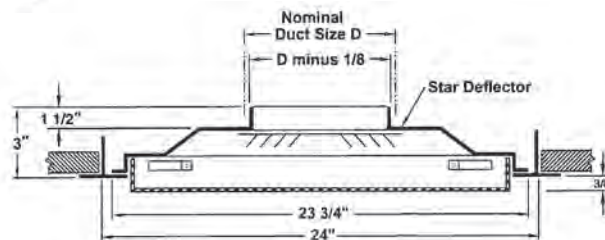
PSS3

Duct Size	Max CFM @ NC 35	List Price PSS3FW SKU	List Price PSS3FB SKU	List Price PSS3DW SKU	List Price PSS3DB SKU
6"	170	130 51734	150 51724	145 51714	–
8"	290	130 51736	150 51726	145 51716	–
10"	430	130 51738	150 51728	145 51718	–
12"	590	130 51740	150 51730	145 51720	–
14"	780	130 51742	150 51732	145 51722	–
16"	970	155 51743	170 51733	170 51723	–
6"x6"	220	165 51735	–	–	–
8"x8"	350	165 51737	180 51727	–	–
10"x10"	530	165 51739	180 51729	–	–
12"x12"	720	165 51741	180 51731	–	–

Model: PSS3F
(Standard Lay-In)



Model: PSS3D
(Drop Screen Lay-In)



Model Key:

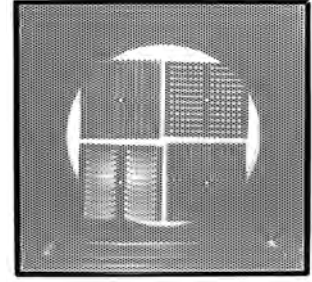
Part No.	Model	Border	Face	Interior
PSS3FW	PSS	TYPE 3	FLUSH	WHITE
PSS3FB	PSS	TYPE 3	FLUSH	BLACK
PSS3DW	PSS	TYPE 3	DROP	WHITE
PSS3DB	PSS	TYPE 3	DROP	BLACK

NOTE: FIELD ADJUSTABLE SIDE OR CORNER THROW

ADJUSTABLE PATTERN PERFORATED DIFFUSERS

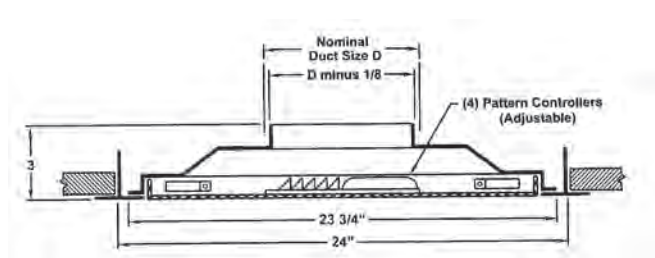
FEATURES:

- Round or square neck
- 1, 2, 3 or 4-way adjustable discharge pattern
- Discharge pattern is easily adjusted by unlatching and dropping the perforated face, then rotating the pattern controllers
- A tight, uniform, horizontal blanket of air protects the ceiling against smudging
- 24" square lay-in ceiling module with hinged removable face
- Baked enamel finish on steel; white face, black deflectors & backpan

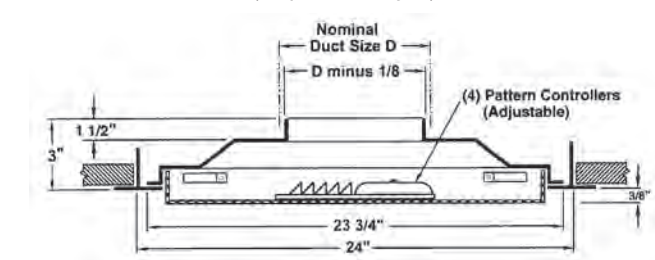


PAS3/PDS3

PAS3F
(Standard Lay-In)



PDS3D
(Drop Screen Lay-In)



Duct Size	Max CFM @ NC 35	List Price PAS3FB SKU	List Price PDS3DB SKU
6"	200	150 51484	—
8"	300	150 51486	160 51646
10"	400	150 51488	160 51648
12"	540	150 51490	160 51650
14"	650	150 51492	—
16"	840	—	—
6"x6"	140	150 51485	—
8"x8"	350	150 51487	—
10"x10"	480	150 51489	—
12"x12"	620	150 51491	—
15"x15"	800	205 51493	—
18"x18"	1000	205 51495	—

Model Key:

Part No.	Model	Border	Face	Interior
PAS3FB	PAS	TYPE 3	FLUSH	BLACK
PDS3DB	PDS	TYPE 3	DROP	BLACK

Related items

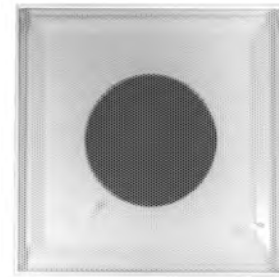
Matching Returns – Page 62
Accessory Dampers – Page 79, 80
Neck Adapters – Page 95, 96



MATCHING PERFORATED RETURNS, DUCTED

FEATURES:

- Round or square neck
- Hinged removable face
- Same face and border construction as the supply models
- Baked enamel finish on steel; white on white, or white perf on black backpan



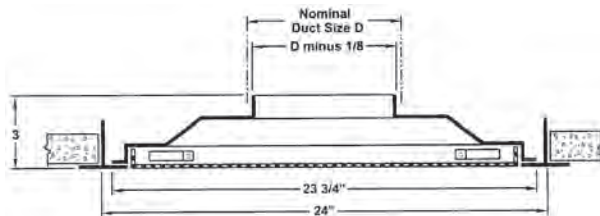
PAR3/PDR3

Model Key:

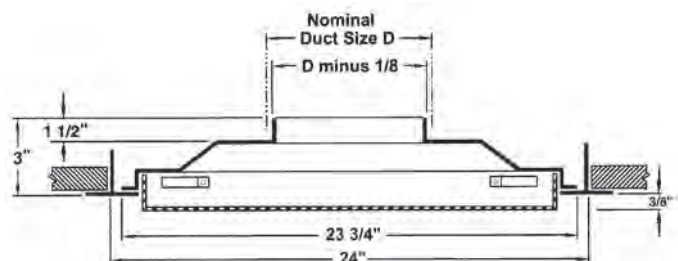
Part No.	Model	Border	Face	Interior
PAR3FW	PAR	TYPE 3	FLUSH	WHITE
PAR3FB	PAR	TYPE 3	FLUSH	BLACK
PDR3DW	PDR	TYPE 3	DROP	WHITE
PDR3DB	PDR	TYPE 3	DROP	BLACK

Duct Size	Ceiling Mod. Size	Max CFM @ NC 35	List Price PAR3FW SKU	List Price PAR3FB SKU	List Price PDR3DW SKU	List Price PDR3DB SKU
6"	24"x24"	200	130 51463	150 51448	145 51630	—
8"	24"x24"	300	130 51465	150 51450	145 51632	—
10"	24"x24"	450	130 51467	150 51452	145 51634	—
12"	24"x24"	600	130 51470	150 51454	145 51636	—
14"	24"x24"	800	130 51472	150 51456	145 51638	—
16"	24"x24"	1000	175 51474	190 51458	160 51640	—
6"x6"	24"x24"	250	140 51464	160 51449	—	—
8"x8"	24"x24"	350	140 51466	160 51451	—	—
10"x10"	24"x24"	500	140 51468	160 51453	—	—
12"x12"	24"x24"	700	140 51471	160 51455	140 51637	—
15"x15"	24"x24"	1000	190 51473	210 51457	190 51639	—
18"x18"	24"x24"	1500	190 51475	210 51459	190 51641	—
22"x22"	24"x24"	3000	140 51477	160 51461	145 51643	160 51629
10"x10"	12"x12"	450	110 51469	—	—	—
22"x10"	24"x12"	1500	140 51476	—	—	—
46"x22"	48"x24"	6000	230 51478	—	—	—

PAR3F
(Standard Lay-In)



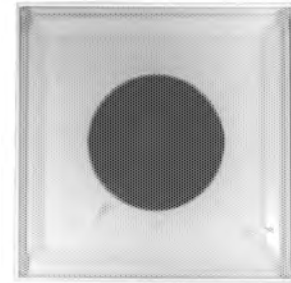
PDR3D
(Drop Screen Lay-In)



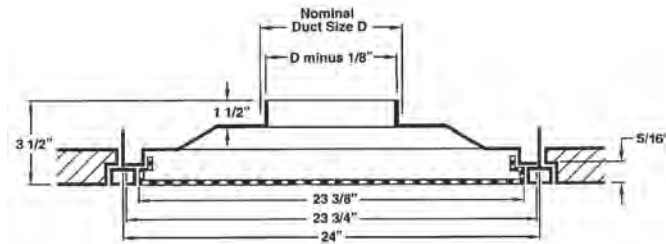
PERFORATED NARROW-TEE RETURNS

FEATURES:

- Round and square neck
- Hinged removable face
- Same face and border construction as the supply models
- For narrow-tee (**Donn Fineline**) ceiling grids
- Baked enamel finish on steel



PAR3N
(For Narrow-Tee)



Model Key:

Part No.	Model	Border	Face	Interior
PAR3NW	PAR	TYPE 3	NARROW TEE	WHITE
PAR3NB	PAR	TYPE 3	NARROW TEE	BLACK
PXP3NW	PXP	TYPE 3	NARROW TEE	WHITE

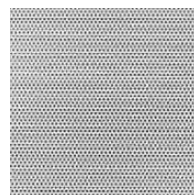
Duct Size	Max CFM @ NC 35	List Price PAR3NW SKU	List Price PAR3NB SKU	Duct Size	Max CFM @ NC 35	List Price PAR3NW SKU	List Price PAR3NB SKU
6"	200	95 72364	110 72348	6"x6"	250	95 72365	110 72349
8"	300	95 72366	110 72350	8"x8"	350	95 72367	110 72351
10"	450	95 72368	110 72352	10"x10"	500	95 72369	110 72353
12"	600	95 72370	110 72354	12"x12"	700	95 72371	110 72355
14"	800	95 72372	110 72356	14"x14"	900	95 72373	110 72357
16"	1000	95 72374	110 72358	16"x16"	1200	95 72375	110 72359
18"	1250	95 72376	110 72360	18"x18"	1500	95 72377	110 72361
20"	1500	95 72378	110 72362	22"x22"	3000	95 72379	105 72363

MATCHING NARROW-TEE RETURNS, NON-DUCTED

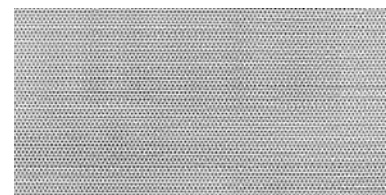
LAY-IN PERF

FEATURES:

- Non-ducted lay-in perforated panels
- White baked enamel finish on steel



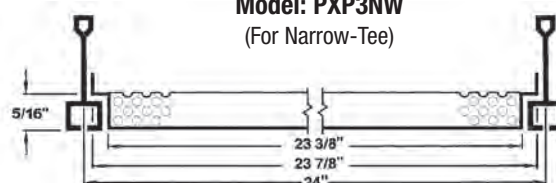
24" x 24"



48" x 24"

Duct Size	Max CFM @ NC 35	List Price PXP3NW SKU
24"x 12"	1500	55 52395
24"x 24"	3000	75 52396
48"x 24"	6000	265 52397

Model: PXP3NW
(For Narrow-Tee)



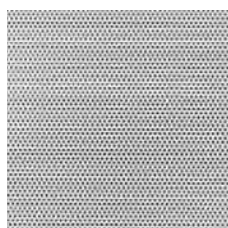
MATCHING PERFORATED RETURNS, NON-DUCTED

FEATURES:

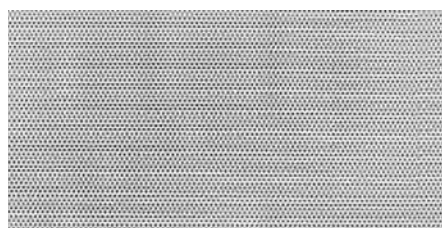
- Non-ducted lay-in perforated panels
- White baked enamel finish on steel



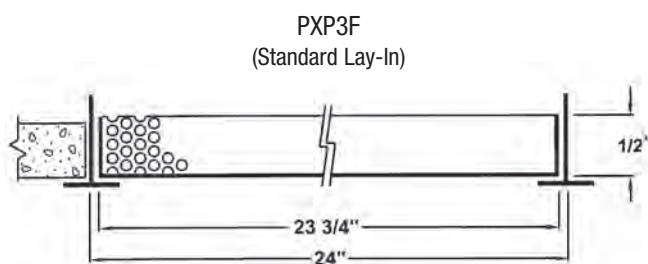
24" x 12"



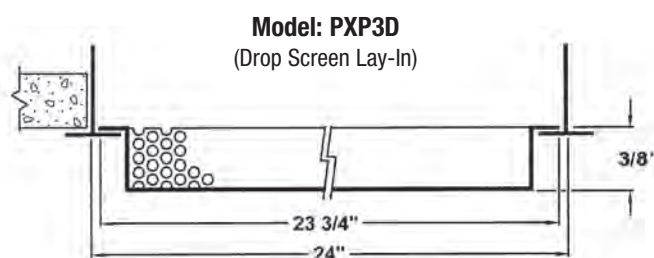
24" x 24"



48" x 24"



Duct Size	Max CFM @ NC 35	List Price PXP3FW SKU	List Price PXP3DW SKU
24"x12"	1500	40 52393	60 51744
24"x24"	3000	50 52394	85 51745
48"x24"	6000	135 51748	-



Model Key:

Part No.	Model	Border	Face	Color
PXP3FW	PXP	TYPE 3	FLUSH	WHITE
PXP3DW	PXP	TYPE 3	DROP	WHITE

Related items

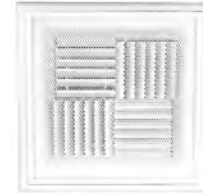
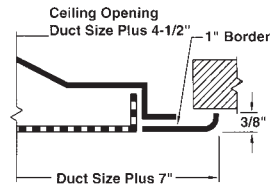
Filter Returns – Page 76
Neck Adapters – Page 95, 96

PERFORATED SURFACE MOUNT AND CONCEALED SPLINE DIFFUSERS

Construction: White baked enamel finish on steel

PMC1 FEATURES:

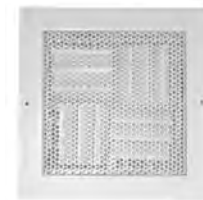
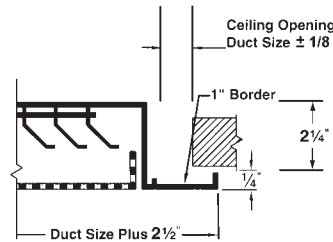
- Curved frame
- Square neck
- Four individually adjustable modular core sections for 1, 2, 3, or 4-way blow pattern



PMC1 SUPPLY

PMC5 FEATURES:

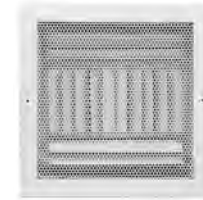
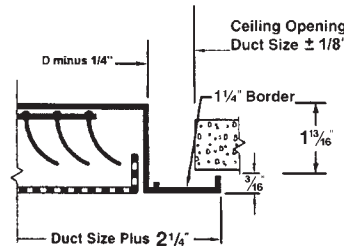
- Flat frame with screw holes
- Square neck
- Hole size same as neck size
- Four individually adjustable modular core sections for 1, 2, 3, or 4-way blow pattern



PMC5 SUPPLY

PCS5 FEATURES:

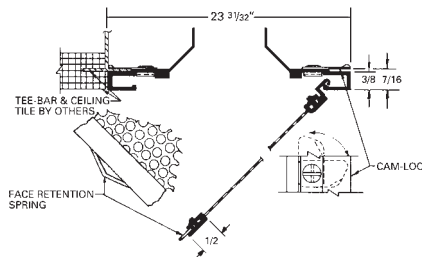
- Flat frame with screw holes
- Square neck
- Hole size same as neck size
- 4-way adjustable curved blade core



PCS5 SUPPLY

PMC4 FEATURES:

- Rotating cam-lock for easy fastening to spline tee
- Square neck
- Four individually adjustable modular core sections for 1, 2, 3, or 4-way blow pattern
- 24" square ceiling module can be installed after ceiling is hung
- Includes integral OBD damper



PMC4 SUPPLY

Related items

Hard Ceiling Frames – Page 77
Neck Adapters – Page 95, 96



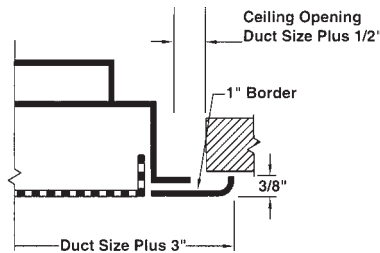
Duct Size	Max CFM @ NC 35	List Price PMC1 SKU	Add AG-15 Damper SKU	List Price PMC5 SKU	List Price PCS5 SKU	Add AG-95S Damper SKU	PMC4 w/Damper SKU
6"x6"	200	245 51656	35 51205	160 52305	135 52247	30 51275	285 52298
8"x8"	330	255 51657	40 51208	180 52306	150 52248	40 51276	315 52299
10"x10"	500	270 51658	45 51213	200 52307	155 52249	45 51277	355 52300
12"x12"	700	285 51659	50 51218	210 52308	165 52250	55 51278	400 52301
14"x14"	810	305 51660	60 51223	260 52309	190 52251	90 51279	450 52302
16"x16"	950	395 51661	70 51230	280 52310	225 52252	100 51280	505 52303
18"x18"	1250	460 51662	75 51237	325 52311	260 52253	155 51281	620 52304
20"x20"	2500	—	—	365 52312	295 52254	165 51283	—
24"x24"	3500	—	—	475 52314	355 52255	190 51284	—

PERFORATED SURFACE MOUNT AND CONCEALED SPLINE RETURNS

Construction: White baked enamel finish on steel

PMR FEATURES:

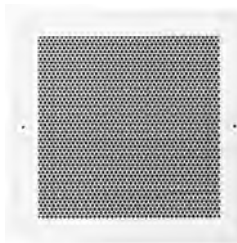
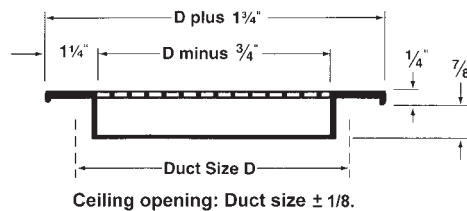
- Matching return
- Curved frame
- Square neck



PMR RETURN

8R FEATURES:

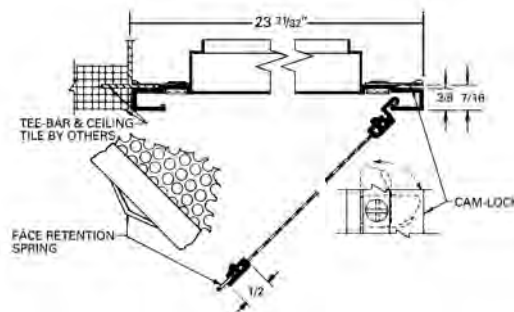
- Matching return
- Flat frame with screw holes
- Square neck



8R RETURN

PAR4 FEATURES:

- Matching return
- Rotating cam-lock for easy fastening to spline tee
- 24"x 12" and 24"x 24" ceiling module



PAR4 RETURN

Duct Size	Max CFM @ NC 35	List Price PMR SKU	List Price 8R SKU	List Price PAR4 SKU	Add AG-15 Damper SKU
6"x6"	270	150 51692	70 51192	-	35 51205
8"x8"	520	155 51693	80 51193	-	40 51208
10"x10"	820	165 51694	100 51194	-	45 51213
12"x12"	1200	175 51695	105 51195	-	50 51218
14"x14"	1500	185 51696	125 51196	-	60 51223
16"x16"	1940	240 51698	145 51197	-	70 51230
18"x18"	2400	280 51699	170 51198	-	75 51237
20"x20"	2700	315 51700	180 51199	-	90 51245
22"x22"	3200	355 51702	200 51201	345 52381	95 51247
24"x24"	3800	-	235 51203	-	-
22"x10"	1700	-	-	230 52380	70 51246
24"x12"	2100	-	160 51202	-	80 51251

SQUARE CEILING DIFFUSERS

FEATURES:

- Round neck
- Square ceiling diffusers deliver supply air in a true 360° pattern
- Designed to protect ceilings from streaking and smudging
- Excellent performance in variable air volume systems. The uniform, nearly horizontal jet from the outer cone maintains effective room air distribution even when the air volume varies over a considerable range
- All sizes have three cones, giving a uniform appearance where different sizes are used in the same area
- White baked enamel finish on steel

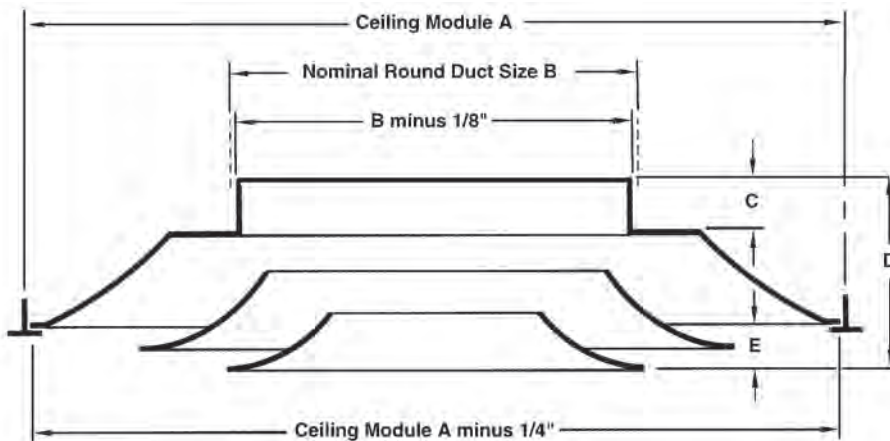


TMS3

Ceiling Module A	Nominal Round Duct Size B	C	D	E
12" x 12"	6, 8	1 1/8	3 3/8	1 1/8
24" x 24"	6, 8	1 1/4	5	1 1/4
24" x 24"	10, 12, 14, 15	1 3/8	5 1/8	1 1/4

Duct Size	Module Size	Max CFM @ NC 35	List Price TMS SKU	Add AG-75 Damper SKU
6"	12" x 12"	250	115 51779	80 51255
8"	12" x 12"	400	115 51781	80 51256
6"	24" x 24"	300	175 51778	80 51255
8"	24" x 24"	460	175 51780	80 51256
10"	24" x 24"	650	175 51782	80 51257
12"	24" x 24"	800	175 51783	85 51258
14"	24" x 24"	1070	175 51784	110 51259
15"	24" x 24"	1190	185 51785	115 51260

Model: TMS
Frame Type 3 (Lay-In)



Related items

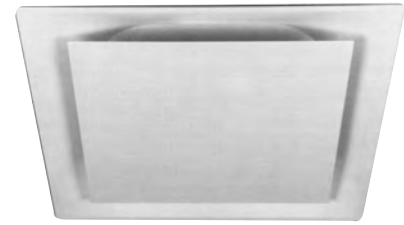
Accessory Dampers – Page 80
Neck Adapters – Page 96



ARCHITECTURAL SQUARE PANEL DIFFUSERS

FEATURES:

- Round neck
- The Titus Omni diffuser satisfies architectural as well as engineering criteria. Its strong, clean, unobtrusive lines harmonize with the ceiling system without sacrificing performance
- May be used for supply or return
- White baked enamel finish on steel

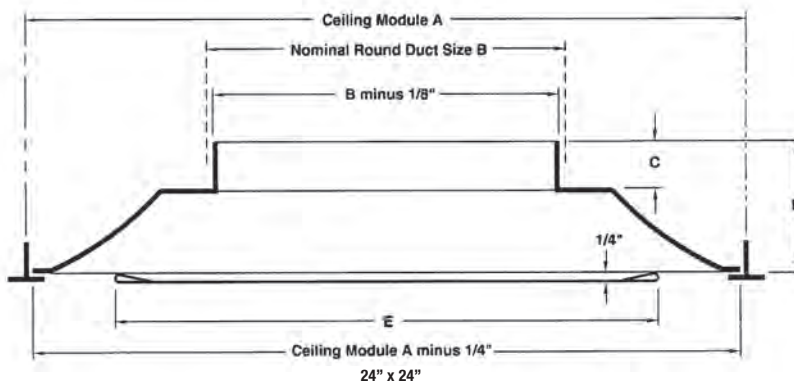


OMNI3

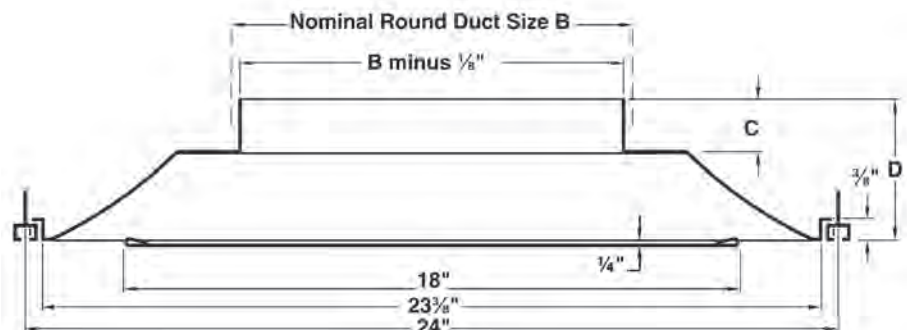
Ceiling Module A	Nominal Round Duct Size B	C	D	E
12" x 12"	6	1 1/8	2 1/4	9
12" x 12"	8	1 1/4	2 3/8	9
24" x 24"	6, 8	1 1/4	3 3/4	18
24" x 24"	10, 12, 14, 15	1 3/8	3 7/8	18

Duct Size	Module Size	Max CFM @ NC 35	Omni 3 List Price SKU	Omni 3N List Price SKU	Add AG-75 Damper SKU
6"	12" x 12"	250	130 51435	—	80 51255
8"	12" x 12"	440	130 51437	—	80 51256
6"	24" x 24"	275	200 51434	215 51442	80 51255
8"	24" x 24"	460	200 51436	215 51443	80 51256
10"	24" x 24"	600	200 51438	215 51444	80 51257
12"	24" x 24"	800	200 51439	215 51445	85 51258
14"	24" x 24"	1000	200 51440	215 51446	110 51259
15"	24" x 24"	1200	200 51441	215 51447	115 51260
Directional Blow Baffles				List Price 15	SKU 51433

Model: OMNI
Frame Type 3 (Lay-In)



Model: OMNI 3N
(for Narrow Tee)



Related items

Accessory Dampers – Page 80
Neck Adapters – Page 96

MODULAR CORE DIFFUSERS, SURFACE MOUNT & LAY-IN PANEL TYPE

FEATURES:

- Square neck
- Each of the MCD modular core sections can be easily removed from the frame and rotated to provide required air patterns
- Border type 3, lay-in ceiling module is 24" square
- White baked enamel finish on steel

Duct Size	Max CFM @ NC 35	List Price MCD1 SKU	List Price MCD6 SKU	List Price MCD3 SKU
6"x6"	275	105 51383	105 51399	200 51392
8"x8"	400	115 51384	115 51400	210 51393
10"x10"	600	140 51385	140 51401	235 51394
12"x12"	800	175 51386	175 51402	265 51395
14"x14"	1000	195 51387	195 51403	290 51396
16"x16"	1200	220 51388	220 51404	315 51397
18"x18"	1400	240 51389	240 51405	340 51398
20"x20"	1600	340 51390	340 51406	—
24"x24"	2000	370 51391	370 51407	—



MCD1
(Surface Mount, Flat Frame)

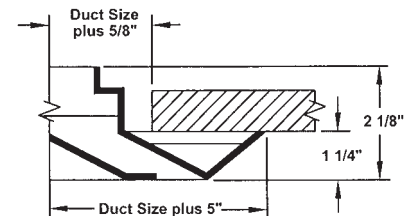


MCD6
(Surface Mount, Beveled Frame)

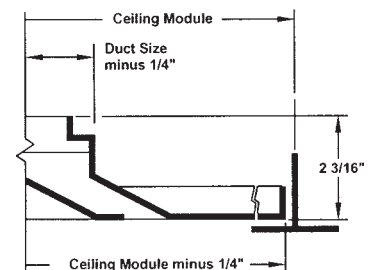


MCD3
(24" x 24" Lay-in)

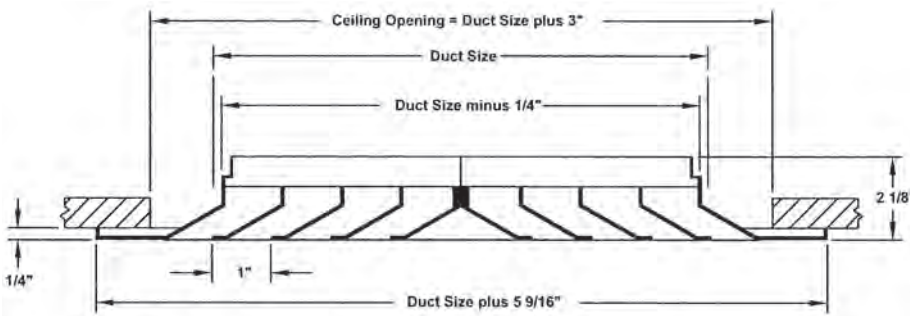
MCD6
(Beveled Surface Mount)



MCD3
(24" x 24" Lay-in)



MCD1
(Flush Surface Mount)



NOTE: MCD1 diffusers require a ceiling opening 3" larger than duct size.
For similar diffusers with hole size the same as duct size, see next page.

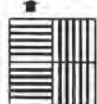
Modular Core Adjustments



One Way



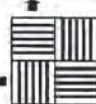
2 Way Opposite



2 Way Corner



3 Way



4 Way

Related items

Accessory Dampers – Page 79
Neck Adapters – Page 95



MODULAR CEILING DIFFUSERS

FEATURES:

- True modular core diffuser
- Removable cores are spring-loaded for easy blow pattern arrangement
- White powder coated epoxy finish
- Extruded aluminum frame
- Ceiling opening same as duct size

Mistake-FREE Installation!

Hole size same as duct size.
Never go back for a re-cut!



TM5
(Surface Mount, Flat Frame)



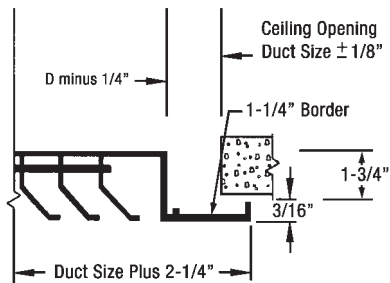
TM6
(Surface Mount, Beveled Frame)

TM5

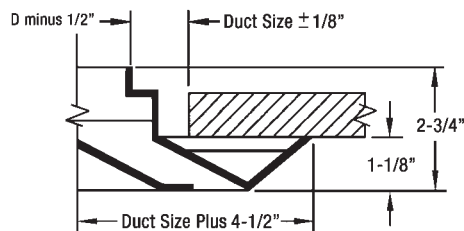
Duct Size	Max CFM @ NC 35	List Price SKU
6"x6"	275	70 52163
8"x8"	400	75 52164
10"x10"	600	90 52165
12"x12"	800	115 52166
14"x14"	1000	125 52167
16"x16"	1200	140 52168
18"x18"	1400	155 52169
20"x20"	1600	220 52170
24"x24"	2000	240 52171

TM6

Duct Size	Max CFM @ NC 35	List Price SKU
6"x6"	275	70 52172
8"x8"	400	75 52173
10"x10"	600	90 52174
12"x12"	800	115 52175
14"x14"	1000	125 52176
16"x16"	1200	140 52177
18"x18"	1400	155 52178
20"x20"	1600	220 52179
24"x24"	2000	240 52180



TM5
(Surface Mount, Flat Frame)



TM6
(Surface Mount, Beveled Frame)

Related items

Accessory Dampers – Page 79
Neck Adapters – Page 95



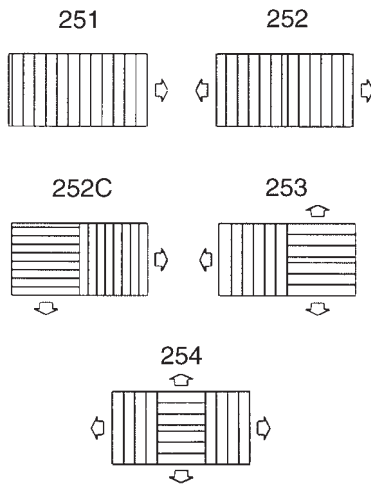
CURVED BLADE CEILING DIFFUSERS

FEATURES:

- Square neck
- Adjustable curved blades in a fixed 1, 2, 3 or 4-way discharge pattern
- Louvers are individually adjustable from the face of the diffuser. The louvers regulate the air volume as well as the angle of discharge
- Designed for high sidewall, low sidewall, and ceiling installations
- Excellent for variable air volume applications
- White baked enamel finish on steel
- Integral opposed blade damper



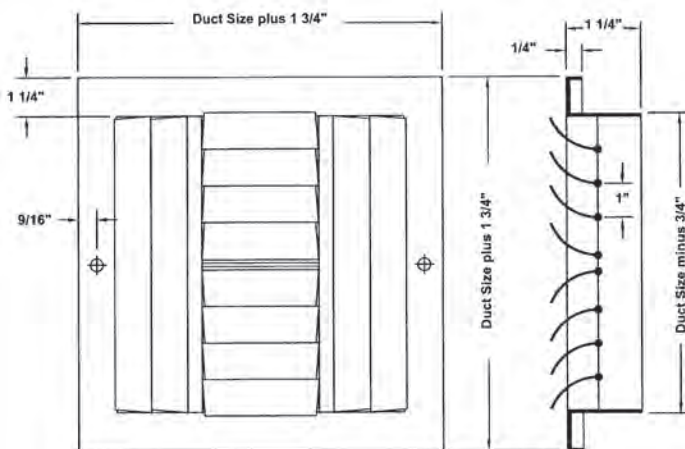
254



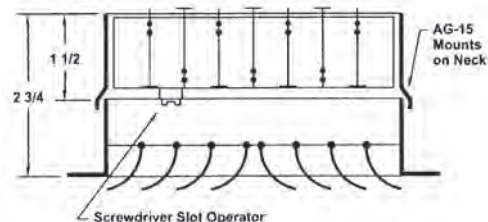
Duct Size	Max CFM @ NC 35	List Price 251* SKU	List Price 252* SKU	List Price 252C* SKU	List Price 253* SKU	List Price 254* SKU
6"x6"	160	130 51000	130 51005	130 51010	130 51015	130 51020
8"x8"	260	140 51001	140 51006	140 51011	140 51016	140 51021
10"x10"	410	165 51002	165 51007	165 51012	165 51017	165 51022
12"x12"	560	195 51003	195 51008	195 51013	195 51018	195 51023
14"x14"	750	235 51004	235 51009	235 51014	235 51019	235 51024
16"x16"	880	-	-	-	-	280 51025
18"x18"	1170	-	-	-	-	325 51026
20"x20"	1440	-	-	-	-	395 51027
22"x22"	1630	-	-	-	-	455 51028
24"x24"	1820	-	-	-	-	525 51029

*NOTE: All models include OBD

Model: 250



Model 250 with AG-15



LOUVERED FACE CEILING DIFFUSERS

FEATURES:

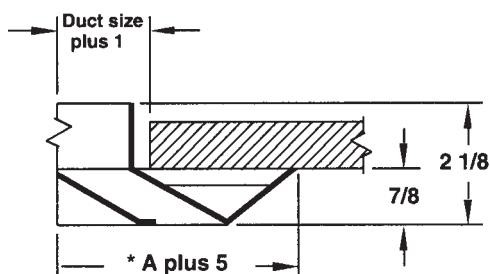
- Square neck
- Titus Series TDC diffusers handle an unusually large amount of air for a given pressure drop and noise level
- Maintains an unbroken horizontal flow pattern from maximum cfm down to minimum
- Excellent performance in variable air volume systems
- Fixed 4-way discharge
- White baked enamel finish on steel



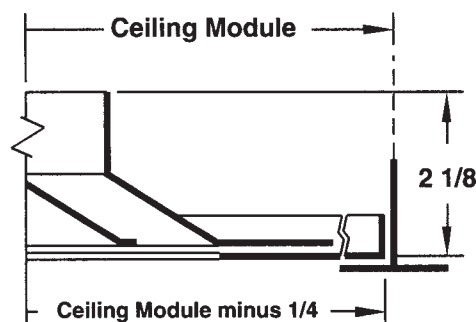
TDC

Duct Size	Max CFM @ NC 35	List Price TDC1 SKU	List Price TDC6 SKU	List Price TDC3 SKU	Add AG-95 Damper SKU
6"x6"	225	120 51796	120 51761	195 51755	30 51265
9"x9"	450	145 51802	150 51762	220 51756	50 51267
12"x12"	800	205 51797	205 51763	275 51757	60 51269
15"x15"	1150	265 51798	265 51764	340 51758	100 51271
18"x18"	1500	335 51799	335 51765	410 51759	155 51273
21"x21"	2000	470 51800	470 51766	600 51760	180 51274

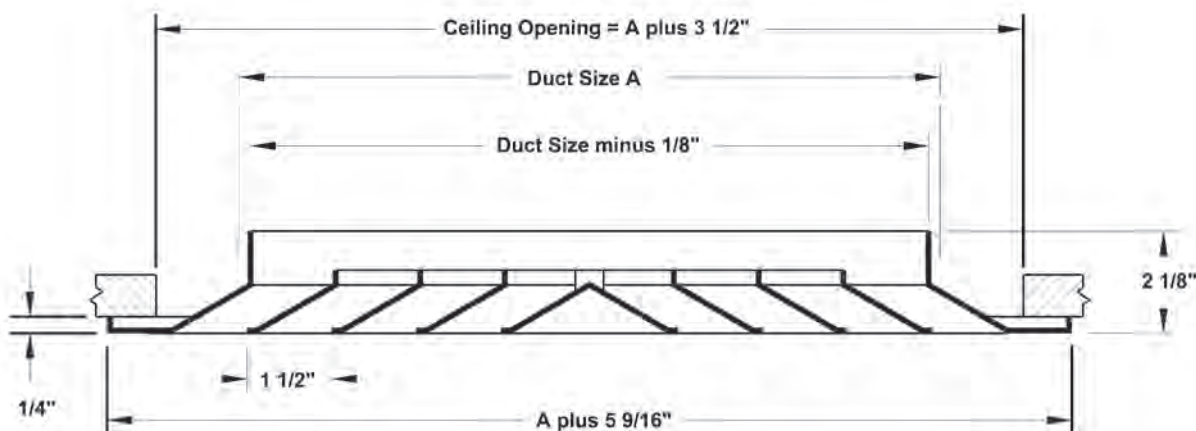
TDC6
(Surface Mount)



TDC3
(24"x 24" Lay-In)



TDC 1
(Surface Mount)



ROUND CEILING DIFFUSERS

FEATURES:

- Model TMR & TMRA3 ceiling diffusers are designed for both heating and cooling applications
- Uniform, 360° degree discharge pattern
- Excellent performance in variable air volume systems
- White baked enamel finish on steel



TMR

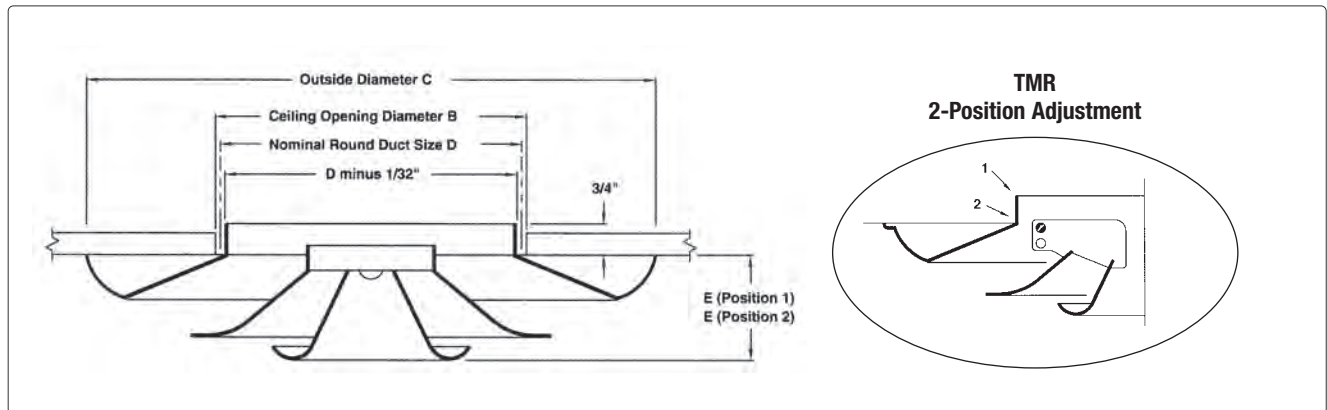


TMRA3

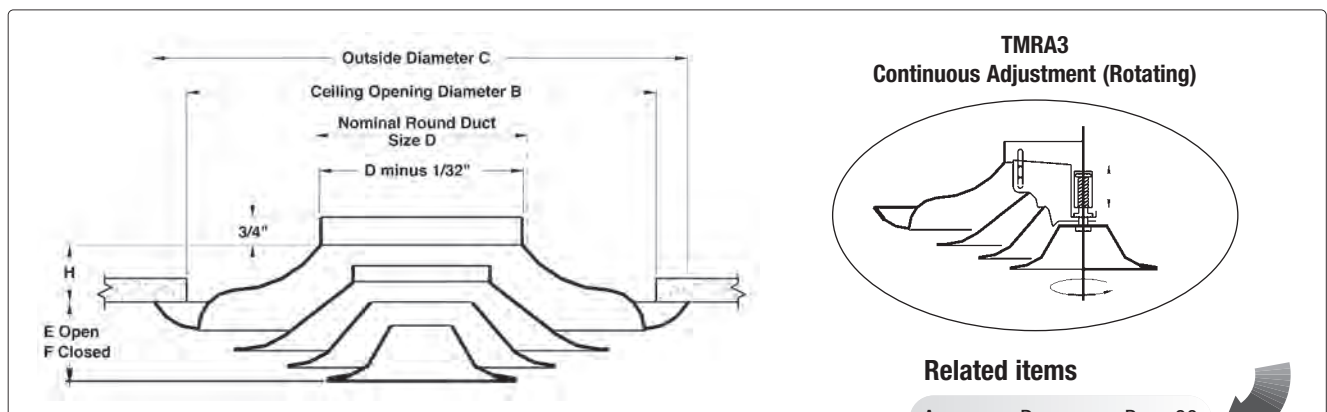
Nominal Round Duct Size D	TMR				TMRA3				
	B	C	E (Pos.1)	E (Pos.2)	B	C	E	F	H
6"	6 1/2	11 1/8	1 3/4	1 1/8	12	13 1/2	1 4/9	1 1/16	1 5/8
8"	8 1/2	14 3/4	2 1/8	1 1/2	16	18	1 4/5	7/8	2 1/8
10"	10 1/2	18 1/4	2 7/8	2 1/8	20	22 1/2	2 1/4	1 1/8	2 5/8
12"	12 1/2	22	3 1/8	2 3/8	24	27	2 2/3	1 1/4	3 1/4
14"	14 1/2	26	3 3/8	2 5/8	28	31 1/2	3 1/8	1 1/5	3 3/4
16"	16 1/2	29	4	3 1/4	32	36	3 1/3	1 1/3	4 1/4
18"	18 1/2	32 1/2	4 3/4	3 7/8	36	40 1/2	3 3/4	1 1/2	4 7/8
20"	20 1/2	36	5 7/8	4 7/8	40	45	4 1/8	1 5/8	5 3/8
24"	24 1/2	43 1/4	7 3/4	6 5/8	48	54	4 1/8	1 7/8	6 1/2

Duct Size	Max CFM @ NC 35	List Price TMR	List Price TMRA3
		SKU	SKU
6"	230	280 51769	315 51805
8"	320	295 51770	375 51806
10"	580	325 51771	430 51807
12"	830	365 51772	570 51808
14"	930	415 51773	715 51809
16"	1260	510 51774	950 51810
18"	1650	615 51775	1015 51811
20"	2020	670 51776	1150 51812
24"	2820	775 51777	1355 51813

Model: TMR – Two Horizontal Discharge Patterns



Model: TMRA3 – Horizontal to Vertical Discharge Patterns



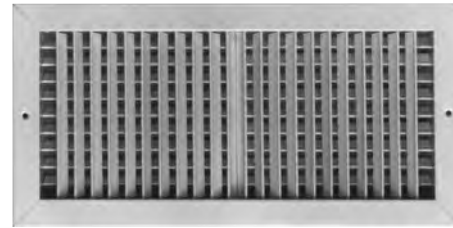
Related items

Accessory Dampers – Page 80
Neck Adapters – Page 96

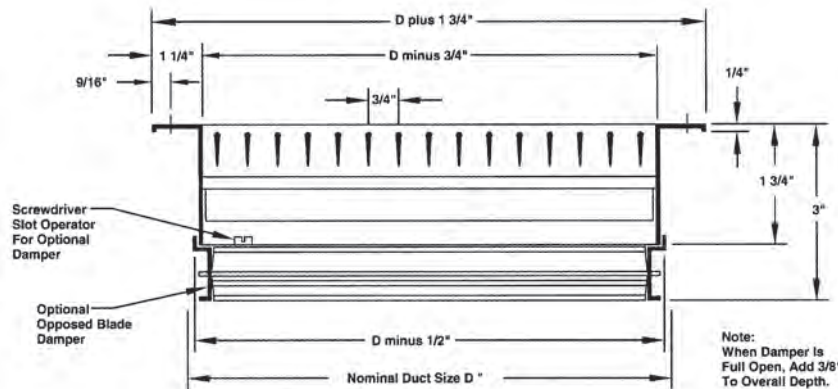
DOUBLE DEFLECTION BAR TYPE SUPPLY REGISTERS

FEATURES:

- Adjustable blades on 3/4" centers
- Front blades short dimension
- Border Type 1, surface mounting with screw holes
- Integral opposed blade damper
- White baked enamel finish on steel



300RS

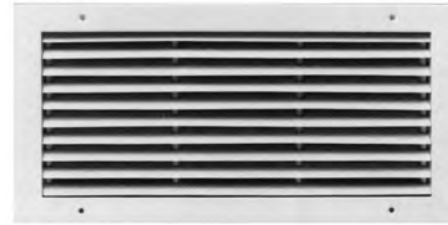
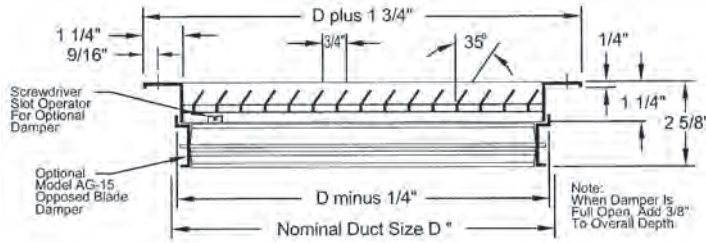


Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU
6"x4"	110 51030	14"x6"	150 51044	18"x12"	235 51058	24"x 10"	265 51073	30"x 20"	525 51387
6"x6"	115 51031	14"x8"	165 51045	18"x14"	265 51059	24"x 12"	285 51074	30"x 24"	650 51388
8"x4"	110 51032	14"x10"	180 51046	18"x16"	290 51060	24"x 14"	320 51075	36"x 6"	325 51389
8"x6"	120 51033	14"x12"	195 51047	18"x18"	315 51061	24"x 16"	360 51076	36"x 8"	370 51390
8"x8"	130 51034	14"x14"	220 51048	20"x6"	195 51062	24"x 18"	395 51077	36"x 10"	415 51391
10"x4"	120 51035	16"x6"	165 51049	20"x8"	205 51063	24"x 20"	430 51078	36"x 12"	445 51392
10"x6"	130 51036	16"x8"	180 51050	20"x10"	235 51064	24"x 24"	315 51079	36"x 14"	490 51393
10"x8"	135 51037	16"x10"	195 51051	20"x 12"	255 51065	30"x 6"	275 51080	36"x 16"	535 51394
10"x10"	145 51038	16"x12"	220 51052	20"x 14"	280 51066	30"x 8"	305 51081	36"x 18"	595 51395
12"x4"	130 51039	16"x14"	245 51053	20"x 16"	315 51067	30"x 10"	340 51082	36"x 20"	635 51396
12"x6"	135 51040	16"x16"	265 51054	20"x 18"	345 51068	30"x 12"	370 51083	36"x 24"	785 51397
12"x8"	150 51041	18"x6"	180 51055	20"x 20"	380 51069	30"x 14"	415 51084	36"x 30"	1000 51398
12"x10"	160 51042	18"x8"	195 51056	24"x 6"	220 51071	30"x 16"	455 51085	—	—
12"x12"	175 51043	18"x10"	220 51057	24"x 8"	240 51072	30"x 18"	495 51086	—	—

SINGLE DEFLECTION BAR TYPE RETURN GRILLES

FEATURES:

- 35° fixed blades run long dimension on 3/4" centers
- Border Type 1, surface mounting with screwholes except sizes indicated by a *
- White baked enamel finish on steel



350RL

350RL sizes come stocked standard with screwholes. See * sizes below for no screwhole options.

Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU	Duct Size	List Price SKU
6"x4"	40 51099	14"x10"	75 51116	20"x6"	75 51132	24"x 20"	180 51150	36"x 14"	195 51166
6"x6"	40 51100	14"x12"	80 51117	20"x8"	80 51133	24"x 24"	230 51151	36"x 16"	230 51167
8"x4"	45 51101	14"x14"	90 51118	20"x10"	90 51134	30"x 6"	110 51152	36"x 18"	255 51168
8"x6"	45 51102	16"x6"	65 51119	20"x12"	100 51135	30"x 8"	120 51153	36"x 20"	275 51169
8"x8"	60 51103	16"x8"	75 51120	20"x14"	120 51136	30"x 10"	135 51154	36"x 24"	350 51170
10"x4"	45 51104	16"x10"	80 51121	20"x16"	130 51137	30"x 12"	145 51155	36"x 30"	475 51171
10"x6"	60 51105	16"x12"	90 51122	20"x18"	145 51138	30"x 14"	165 51156	36"x 36"	610 51172
10"x8"	60 51106	16"x14"	100 51123	20"x 20"	165 51139	30"x 16"	180 51157	48"x 12"	245 51174
10"x10"	65 51107	16"x16"	110 51124	22"x 22"	195 51141	30"x 18"	210 51158	48"x 24"	435 51175
12"x4"	60 51109	18"x6"	75 51125	24"x 6"	90 51143	30"x 20"	230 51159	48"x 36"	705 51176
12"x6"	60 51110	18"x8"	75 51126	24"x 8"	90 51144	30"x 24"	290 51160	48"x 48"	950 51177
12"x8"	65 51111	18"x10"	90 51127	24"x 10"	100 51145	30"x 30"	365 51161	*10"x10"	65 51108
12"x10"	65 51112	18"x12"	90 51128	24"x 12"	110 51146	36"x 6"	130 51162	*22"x10"	90 51140
12"x12"	75 51113	18"x14"	110 51129	24"x 14"	130 51147	36"x 8"	145 51163	*22"x 22"	195 51142
14"x6"	65 51114	18"x16"	120 51130	24"x 16"	145 51148	36"x 10"	165 51164	*46"x 22"	365 51173
14"x8"	65 51115	18"x18"	135 51131	24"x 18"	165 51149	36"x 12"	180 51165	—	—

* These 350RL sizes are available without screwholes for Lay-in T-bar ceilings.

BAR TYPE LAY-IN FILTER GRILLES

FEATURES:

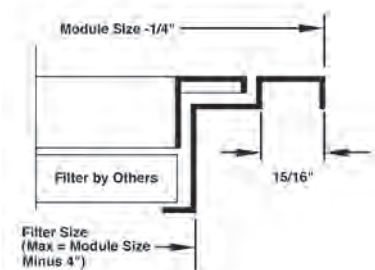
- Matches 350RL in appearance
- 35° fixed blades on 3/4" centers
- Top hinge with quarter turn fastener
- White baked enamel finish on steel



350RLF1

Panel Size	Filter Size	List Price 350RLF1 SKU	Add Pleated Filter SKU
24" x 12"	20" x 8" x 1"	165 51819	25 12637
24" x 24"	20" x 20" x 1"	300 51178	20 11415
48" x 24"	44" x 20" x 1"	720 51179	90 12636

350RLF1
T-Bar (Lay-In)



50FF1

EGGCRATE LAY-IN FILTER GRILLES

FEATURES:

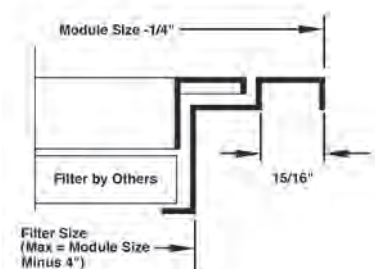
- Matches model 50F in appearance
- Aluminum border and filter frame
- 1/2 x 1/2 x 1/2-inch aluminum core
- High free area core
- Top hinge with quarter turn fastener
- White baked enamel finish on aluminum



50FF1

Panel Size	Filter Size	List Price 50FF1 SKU	Add Pleated Filter SKU
24" x 12"	20" x 8" x 1"	250 51818	25 12637
24" x 24"	20" x 20" x 1"	440 51794	20 11415
48" x 24"	44" x 20" x 1"	1165 51795	90 12636

50FF1
T-Bar (Lay-In)



Related items

TRM Surface Mount Frames – Page 77
Neck Adapters – Page 95

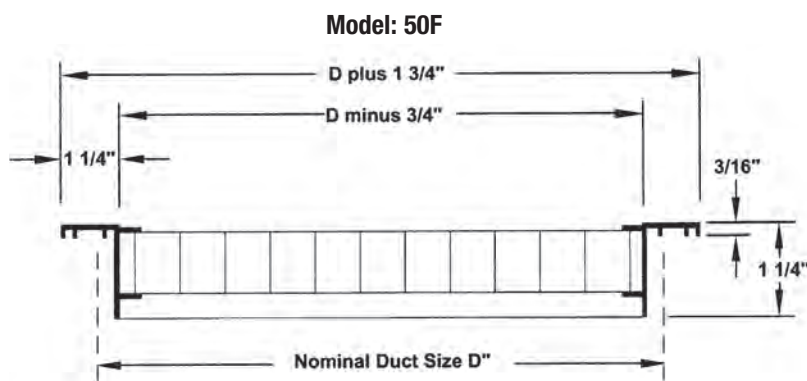
ALUMINUM EGGCRATE GRILLES

FEATURES:

- 1 1/4" aluminum border
- 1/2" x 1/2" x 1/2" aluminum core
- 90% free area for minimal pressure drop
- White baked enamel finish on aluminum



50F



Wall or duct opening should be duct size $\pm 1/8$ "

Duct Size	List Price SKU
6"x6"	65 51180
8"x8"	80 51181
10"x10"	95 51182
12"x12"	105 51183
14"x14"	140 51184
16"x16"	155 51185

Duct Size	List Price SKU
18"x18"	190 51186
20"x20"	220 51187
22"x22"*	245 51189
24"x24"	280 51190
22"x10"*	145 51188
46"x22"*	530 51191

*Stocked without screwholes for Lay-in T-Bar ceilings.

TRM

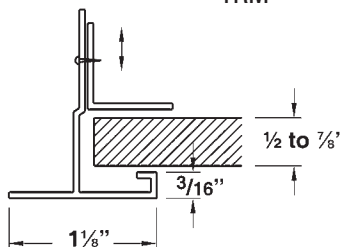
RAPID MOUNT ADAPTERS

FEATURES:

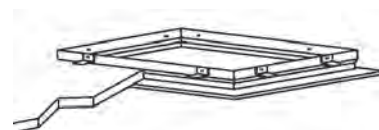
- Allows installation of any lay-in diffuser or grille in hard or plaster ceiling
- Easy screw/clip installation
- Problem solver
- White baked enamel finish
- Model TRM is aluminum
- Model TRM-S is steel
- Recommended ceiling opening is module size plus 1/2"



TRM



Ceiling Module Size	List Price TRM SKU	List Price TRM-S SKU
12"x12"	75 51787	190 51791
24"x12"	85 51788	—
24"x24"	95 51789	190 51793
48"x24"	190 51190	—



TOUCH UP PAINT

British white, flat black and Aluminum paint to match Titus grilles, registers & diffusers.

Model	List Price SKU
Titus 26	50 51768
Flat Black	75 12300
Toro White	30 12301
Aluminum	35 12298



Titus 26



Flat Black



Toro White

24x24 LAY-IN GRILLES

FBH3S FEATURES:

- Sight tight design
- 5/8" blade centers
- Fixed blades, 45° deflection

EC3S FEATURES:

- 1/2" x 1/2" x 1/2" core
- 90% free area

COMMON FEATURES:

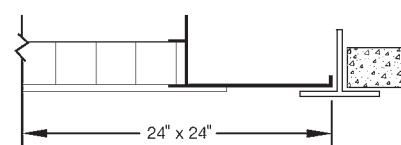
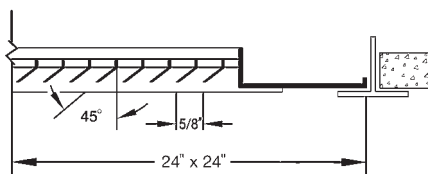
- Heavy gauge steel filler panel
- White powder coated epoxy finish



FBH3S



EC3S



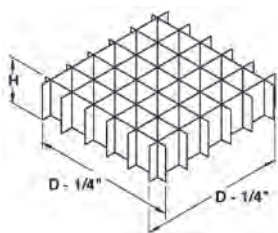
Duct Size	FBH3S		EC3S	
	List Price	SKU	List Price	SKU
6"x6"	125	52125	145	52117
8"x8"	140	52126	160	52118
10"x10"	150	52127	170	52119
12"x12"	155	52128	180	52120

Duct Size	FBH3S		EC3S	
	List Price	SKU	List Price	SKU
14"x14"	170	52129	205	52121
16"x16"	185	52130	220	52122
18"x18"	205	52131	245	52123
20"x20"	230	52132	270	52124

NON-DUCTED EGGCRATE RETURNS

FEATURES:

- 90% free area
- Unframed 1/2" x 1/2" x 1/2" grid
- Aluminum or plastic (Styrene)



ECX_

Model	Material	Finish	24x12 List Price	SKU	24x24 List Price	SKU	48x24 List Price	SKU
ECXA	Aluminum	Mill	65	56930	105	56929	170	56345
ECXW	Aluminum	White	75	56933	140	56932	270	56931
ECXP	Styrene	White	25	52429	35	52430	45	52426

Models: AG-15, AG-95 & AG-95S

Opposed Blade Dampers For Square and Rectangular Necks

AG-15 Fits all models except those listed below (for MCD3 reverse Z-Clips)

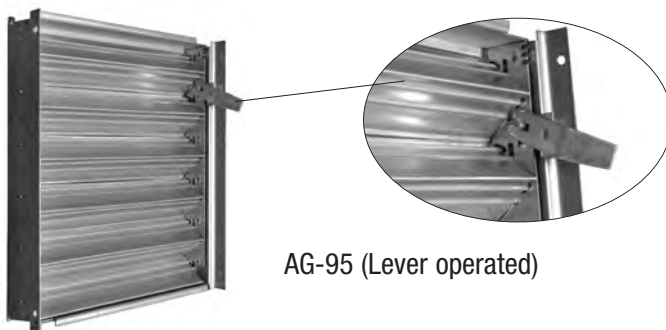
AG-95 Fits TDC, PMC5, and PCS5 diffusers (Lever operated)

AG-95S Fits MCD1, MCD6 & PMC1 diffusers

Gang-operated opposed blades meter air volume precisely with minimum air disturbance. A screwdriver operator is accessible through the face of the grille.



AG-15/AG-95S



AG-95 (Lever operated)

Duct Size	List Price AG-15 SKU
6"x4"	35 51204
6"x6"	35 51205
8"x4"	35 51206
8"x6"	35 51207
8"x8"	40 51208
9"x9"	45 51209
10"x4"	35 51210
10"x6"	40 51211
10"x8"	40 51212
10"x10"	45 51213
12"x4"	35 51214
12"x6"	45 51215
12"x8"	45 51216

Duct Size	List Price AG-15 SKU
12"x10"	45 51217
12"x12"	50 51218
14"x6"	45 51219
14"x8"	50 51220
14"x10"	50 51221
14"x12"	55 51222
14"x14"	60 51223
15"x15"	70 51224
16"x6"	50 51225
16"x8"	55 51226
16"x10"	55 51227
16"x12"	60 51228
16"x14"	65 51229

Duct Size	List Price AG-15 SKU
16"x16"	70 51230
18"x6"	55 51231
18"x8"	60 51232
18"x10"	60 51233
18"x12"	70 51234
18"x14"	70 51235
18"x16"	70 51236
18"x18"	75 51237
20"x6"	55 51238
20"x8"	60 51239
20"x10"	65 51240
20"x12"	70 51241
20"x14"	75 51242

Duct Size	List Price AG-15 SKU
20"x16"	80 51243
20"x18"	85 51244
20"x20"	90 51245
22"x10"	70 51246
22"x22"	95 51247
24"x 6"	60 51248
24"x 8"	70 51249
24"x 10"	75 51250
24"x 12"	80 51251
24"x 14"	85 51252
24"x 16"	90 51253
24"x 18"	90 51254

Duct Size	List Price AG-95 SKU	List Price AG-95S SKU
6"x6"	30 51265	30 51275
8"x8"	-	40 51276
9"x9"	45 51267	-
10"x10"	-	45 51277
12"x12"	55 51269	55 51278
14"x14"	-	90 51279
15"x15"	100 51271	-
16"x16"	-	100 51280
18"x18"	155 51273	155 51281
20"x20"	-	165 51283
21"x 21"	180 51274	-
22"x22"	-	-
24"x 24"	-	190 51284

Model: AG-75

Opposed Blade Damper – Duct Mounted

Gang-operated opposed blades (three sets on sizes 6" through 12", four sets on 14" through 20") distribute air evenly through the diffuser. For use in round duct applications. Not recommended for flexible duct applications. Material is galvanized steel.

Duct Size	List Price SKU
6"	80 51255
8"	80 51256
10"	80 51257
12"	85 51258
14"	110 51259
15"	115 51260
16"	120 51261
18"	125 51262
20"	140 51263
24"	175 51264



Sizes 6" to 12"

Galvanized steel construction



Sizes 14" to 24"

Steel construction
flat black painted finish

Model: D-75

Opposed Blade Damper – Neck Mounted

Mounts flush with the top of the diffuser neck. Especially useful in flex duct, or where height is restricted. Three sets of gang-operated opposed blades distribute air evenly through the diffuser. Quickly and easily adjusted from the face side of the diffuser. Material is galvanized steel.

Duct Size	List Price SKU
6"	75 51291
8"	75 51292
10"	80 51293
12"	80 51294



Model: D-100

Sliding Blade Damper – Neck Mounted

Gang-operated radial blades slide, each blade over the next, at right angles to the air flow. Mounts directly on the diffuser neck, flush with the top. Useful in flex duct or where height is limited. Material is galvanized steel.

Duct Size	List Price SKU
6"	45 51286
8"	50 51287
10"	50 51288
12"	55 51289
14"	80 51290



IAQ 1000 FEATURES:

- 4-Way adjustable flow pattern
- Reduces energy costs
- 0.3 micron electrostatic filter
- Eliminates cold air drafts
- MERV Rating 13-14
- Prevents ash from entering room during fire season
- Attaches to most perforated diffuser backpans
- Hinges open for easy filter replacement
- Filters last 6 – 8 months on average
- Improves Indoor Air Quality by capturing airborne contaminants before they enter room
- Steel construction, white powder coated epoxy finish



IAQ 1000

This product may qualify for up to **3 LEED** points:

- One for energy savings
- One for IAQ
- One for indoor comfort

Model	Description	List Price	SKU
IAQ 1000	Adjustable Discharge Filtered Diffuser 24" x 24"	225	52133
IAQ 1000 FILTER	Replacement Filters (Set of 4)	70	52134
IAQ 1000 PAN 6	6" Neck Steel Backpan (for new installations)	75	52135
IAQ 1000 PAN 8	8" Neck Steel Backpan (for new installations)	75	52136
IAQ 1000 PAN 10	10" Neck Steel Backpan (for new installations)	75	52137
IAQ 1000 PAN 12	12" Neck Steel Backpan (for new installations)	75	52138
IAQ 1000 PAN 14	14" Neck Steel Backpan (for new installations)	75	52139



IAQ 1000



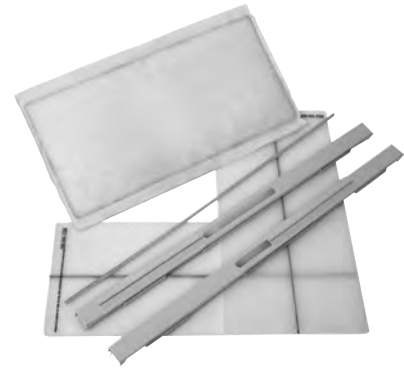
Aesthetically pleasing, streamlined and low profile!
Only 1-3/4" inches below ceiling.

Easily-replaced electrostatic filter, no power required.



FEATURES:

- Attaches to lay-in ceiling grid and fits over diffuser face
- Traps and kills 86.5% of all airborne micro-organisms on contact
- Draft eliminator with anti-microbial filter
- Converts complaints into silence and comfort
- Ends dusty, drafty office vents
- Preserves air volume and improves air flow while maintaining the system's balance
- Prevents ash from entering room during fire season



CONTROL-A-FLOW

Model	Description	List Price	SKU
00114	Control-A-Flow® kit with filter for T-bar ceiling	370	11323
11477	Control-A-Flow® replacement filter	95	11322

DR4040 DROP DOWN DIFFUSER

DR4040 FEATURES:

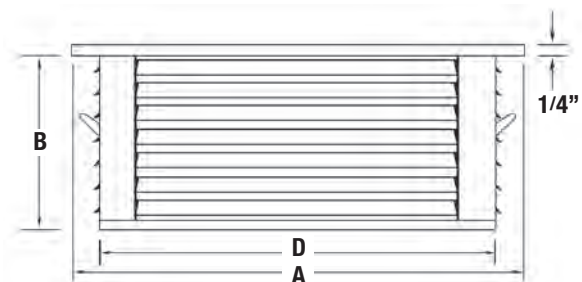
- Evaporative cooler diffuser
- Drop box design
- Adjustable louvers on four sides
- Large airflow capacity
- Heavy 22 gauge steel frame construction with white powder coated epoxy finish



DR4040

Dimensions (in inches)

Duct Size D	A	B	Max CFM @ 700 FPM	DR4040 List Price	SKU
14 x 14	16 x 16	5	856	150	52109
16 x 16	18 x 18	5	1008	170	52110
18 x 18	20 x 20	5	1183	190	52111
20 x 20	22 x 22	6	1484	235	52112
22 x 22	24 x 24	6	1659	275	52113
24 x 24	26 x 26	6	1834	350	52114
30 x 30	32 x 32	6	2296	590	52115
32 x 32	34 x 34	8	2471	740	52116



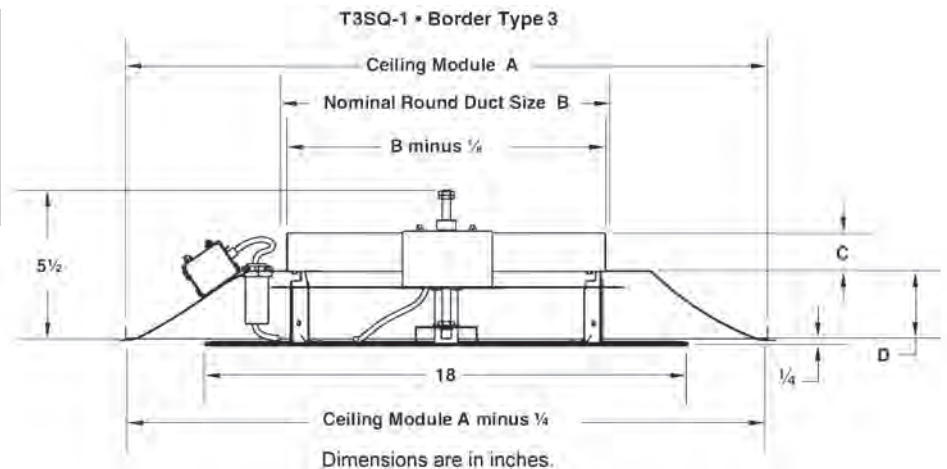
HOW IT WORKS:

The wall controller / thermostat displays the room temperature and maintains the space temperature by driving the control disk in the diffuser to vary the volume of air. As the volume of air is decreased, the velocity is increased maintaining the longest throw and best entrainment, ensuring superior air distribution at all damper positions.



T3SQ-1

Ceiling Module A	Nominal Round Duct Sizes B	C	D
24" x 24"	6"	1 ¹ / ₈	3 ⁵ / ₈
	8"	1 ¹ / ₄	3 ³ / ₄
	10"	1 ³ / ₈	3 ⁷ / ₈
	12"	1 ³ / ₈	3 ⁷ / ₈



Duct Size	T3SQ-1 List Price	SKU
6"	1850	62112
8"	1850	62113
10"	1850	62114
12"	1850	62115

T3SQ-1 Accessories	List Price	SKU
Master Controller	740	62118
Power Module	675	62119
White RJ-12 Cable	95	62117
Blue RJ-45 Cable	140	62116

Matching Return Duct Size	T3RQ List Price	SKU
6"	200	51434
8"	200	51436
10"	200	51438
12"	200	51439

MASTER / DRONE CONTROL PARTS WORKSHEET:

This worksheet is to be used to calculate the quantity of Master Controllers / Thermostats, Cables, and Power Modules needed to make operational T3SQ-1 Masters and Drones.

of Master units _____ = # of Master Controller / Thermostats needed

of Master Controller / Thermostats _____ = # of White RJ-12 Power Cables needed

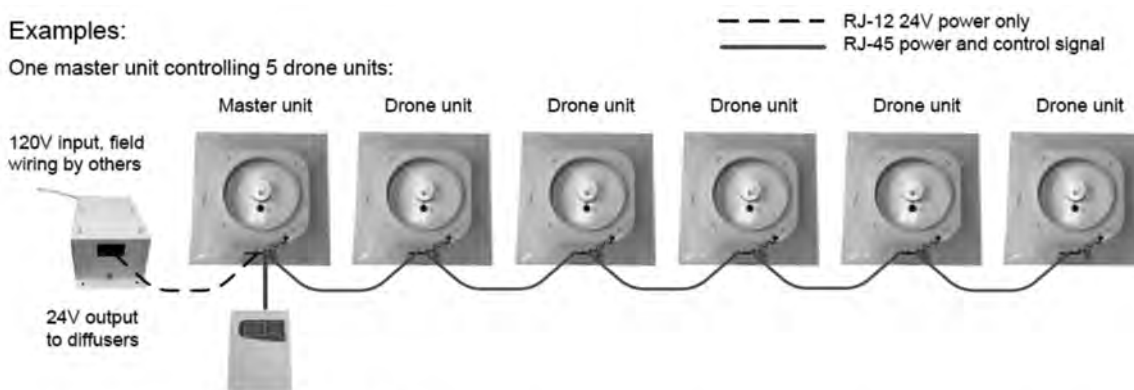
of total T3SQ-1 diffusers _____ = # of Blue RJ-45 Power and Control Cables needed

of total T3SQ-1 diffusers divided by 6 _____ = # of Power Modules needed

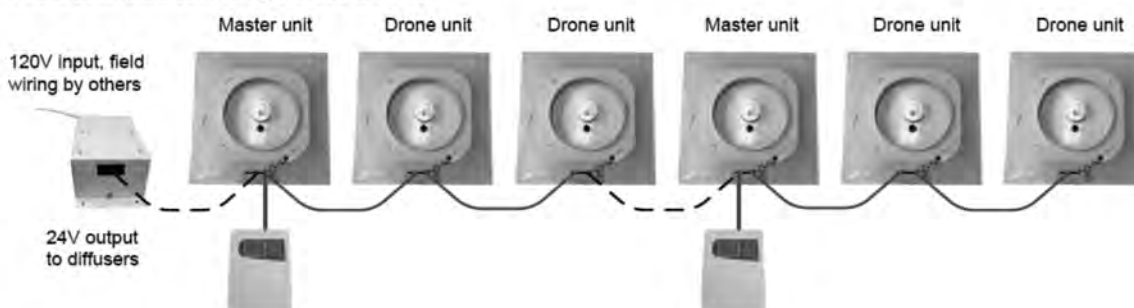
T3SQ-1 diffusers are shipped as drones. One power module is required for every six (6) diffusers and requires 120vac line voltage input. Using the plug and play cable connectors, a master diffuser is created by connecting a wall controller/thermostat. Drone diffusers receive their power and control signal from the master diffuser.

Examples:

One master unit controlling 5 drone units:



Two master units controlling 2 drone units each:



ADDITIONAL CONSIDERATION:

Static pressure control should be used when the T3SQ-1 controls more than 30% of the air delivered by the air conditioner (rooftop gas / electric or fan coil; 25% for heat pumps). Options include pressure relief rings for open plenum return, ZECV electric bypass terminal or SPRD barometric bypass damper.



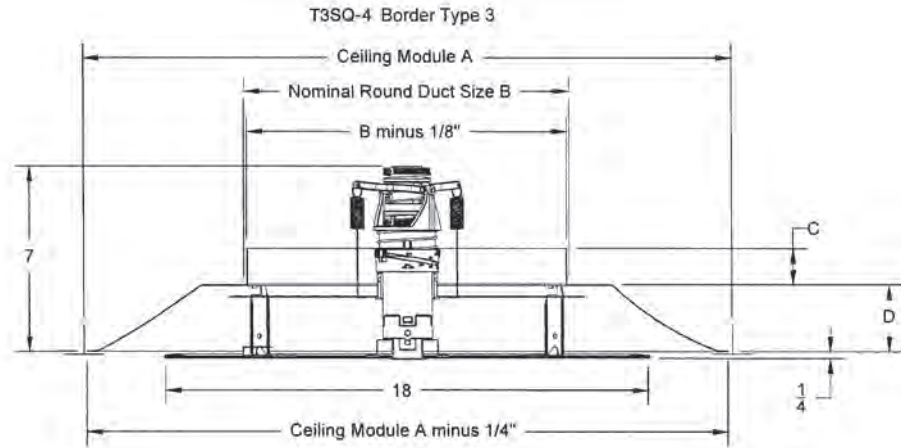
Power Module



Power Module Wiring



Master Controller/Thermostat



Dimensions are in inches.

Ceiling Module A	Nominal Round Duct Sizes B	C	D
24x24	6"	1 ¹ / ₈	3 ⁵ / ₈
	8"	1 ¹ / ₄	3 ³ / ₄
	10"	1 ³ / ₈	3 ⁷ / ₈
	12"	1 ³ / ₈	3 ⁷ / ₈

Neck Size	Model T3SQ-1 VAV Cooling ADJ Heating		Model T3RQ Matching Return	
	List Price	SKU	List Price	SKU
6"	1960	62120	200	51434
8"	1960	62121	200	51436
10"	1960	62122	200	51438
12"	1960	62123	200	51439

(Baffles available for other than 4-Way Discharge)

PRESSURE RELIEF RING

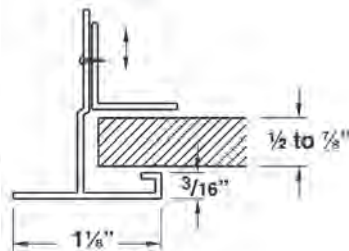
Ring Diameter	Pressure Relief Rings	
	List Price	SKU
6"	120	62124
8"	130	62125
10"	140	62126

Pressure Relief Ring Guide		
Duct Size	Relief Rings	T3SQ-4 Diffuser Neck
6"	0806	08*
8"	1008	10*
10"	1210	12*

*When applying pressure relief rings, T3SQ-4 diffuser necks must be upsized from the duct size.

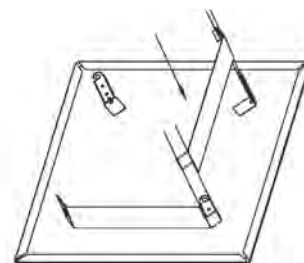
ACCESSORIES

TRM



Throw Baffles and Installation Kits			
Size	Type	List Price	SKU
24"x 24"	TRM Hard Ceiling Kit	165	51793
24"x 24"	Throw Baffles	20	62111

Converts VAV diffuser from standard 4-Way blow to 1-, 2-, or 3-Way. Clips attach to hanger brackets on upper face of center panel.



Throw Baffles

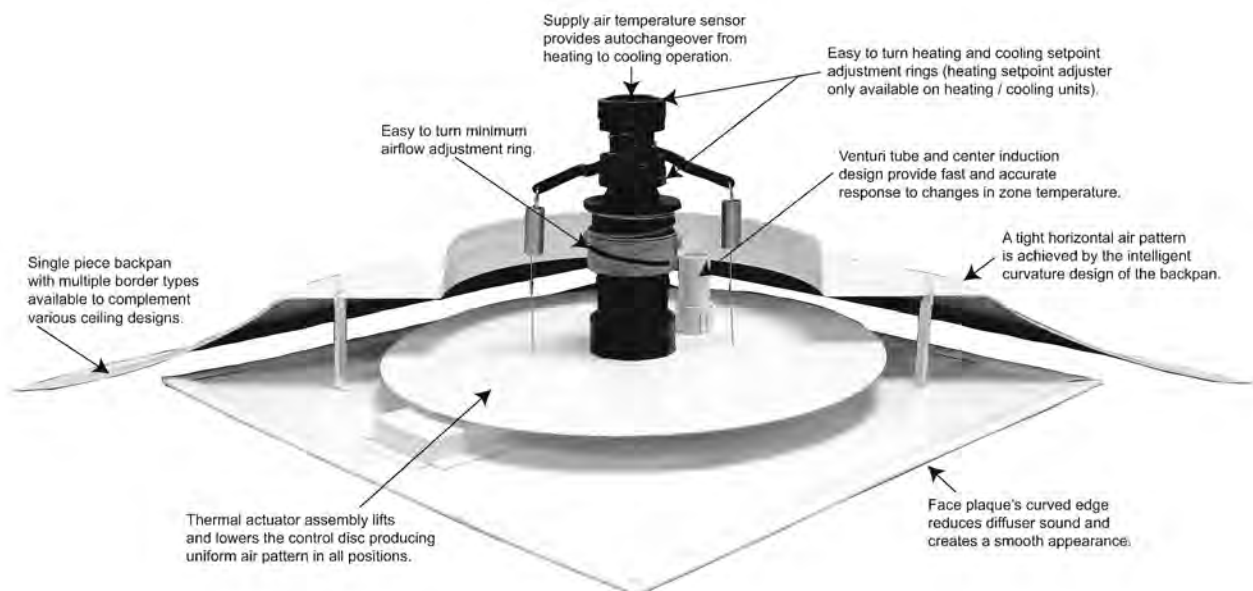
HOW IT WORKS:

The T3SQ-4 is a thermally powered variable volume diffuser which maintains space temperature by varying the volume of air delivered to the space. The amount of air delivered will depend on the supply air temperature (SAT), the room temperature setpoint and the room temperature. Stocked in the full VAV Heating/Cooling configuration.

- As the volume of air is decreased by the control disc, the velocity of air is increased, thereby maintaining the longest throw and best entrainment, insuring superior air distribution at all damper positions.
- The curvature of the backpan works with the formed edges of the face panel to deliver a tight horizontal air pattern, without excessive noise or pressure drop over the full range of operation.
- The T3SQ-4 uses a center induction plug to accurately measure the room temperature. This eliminates the need for a wall-mounted thermostat or sensor and provides the most accurate way of measuring the room air temperature.
- Adjustment of the room temperature setpoint is achieved by rotating the blue (cooling) and red (heating) adjustment knobs.
- Adjustment of minimum airflow is achieved by rotating the grey minimum airflow adjustment ring.
- Standard finish is #26 White.
- The face panel and backpan are constructed from 18-gauge steel. The formed outer edge also assures a straight and level surface.



T3SQ-4



ARCHITECTURAL AIR-BAR FOR CEILINGS AND WALLS

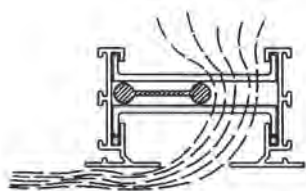
FEATURES:

- Stocked in 12 ft. lengths
- Installs 5 times faster than conventional linear
- Diffuser material is extruded aluminum
- Pattern controllers change direction of air flow
- Controllers are individually adjustable in 24" sections
- Baked enamel finish, white or black border with black pattern controllers

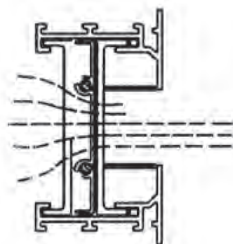


High Throw Series

High Throw (HT)

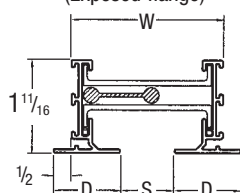
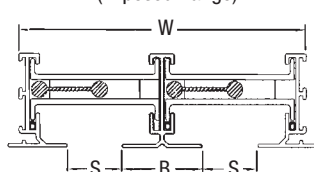
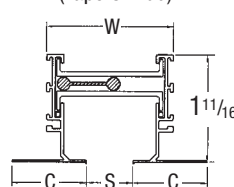


Jet Throw (JT)



Model	Border Type	High Throw or Jet Throw	1 Slot			2 Slot		
			CFM/Ft. @ NC 35	12 ft. List Price	SKU	CFM/Ft. @ NC 35	12 ft. List Price	SKU
FL-10	66	HT	70	1570	51372	130	2960	51373
FL-15	66	HT	80	1570	51374	150	2960	51375
FL-20	66	HT	100	1570	51376	190	2960	51377
FL-10	22	HT	70	2100	51369	—	—	—
FL-15	22	HT	80	2100	51370	—	—	—
FL-20	22	HT	100	2100	51371	—	—	—
FL-10	66	JT	120	1570	51378	—	—	—
FL-15	66	JT	180	1570	51379	—	—	—
FL-20	66	JT	220	1570	51380	—	—	—
FL-10	22	JT	—	—	—	—	—	—
FL-15	22	JT	—	—	—	—	—	—
FL-20	22	JT	—	—	—	—	—	—
HTSK 10*	1" Field Spacer Kit*		—	40	51314	—	65	51315
HTSK 15*	1.5" Field Spacer Kit*		—	40	51316	—	65	51317
HTSK 20*	2" Field Spacer Kit*		—	40	51318	—	65	51319
FBRI 10	1" Insulated Return Hood		—	45	51363	—	170	51363
FBRI 15	1.5" Insulated Return Hood		—	45	51364	—	170	51364
FBRI 20	2" Insulated Return Hood		—	45	51365	—	170	51365

* Flowbar is easily field cut to desired length. One field Spacer Kit is required for each cut.

Border Type 66 (1 Slot)
(Exposed flange)Border Type 66 (2 Slot 2CRA)
(Exposed flange)Border Type 22
(Tape & Mud)

Model	S Slot Width	W Width		C Border Width	D Border Width	B Border Width	Bar Length
		1 Slot	2 Slot				
FL-10	1	2 3/4	5 3/16	1 5/8	1 3/8	1 7/16	12 ft.
FL-15	1 1/2	3 3/4	7 3/16	1 7/8	1 5/8	1 15/16	12 ft.
FL-20	2	4 3/4	9 3/16	2 1/8	1 7/8	2 7/16	12 ft.

Related items

Bowden Remote Cable Controls – Page 42
FlowBar Installation Hardware – Page 90

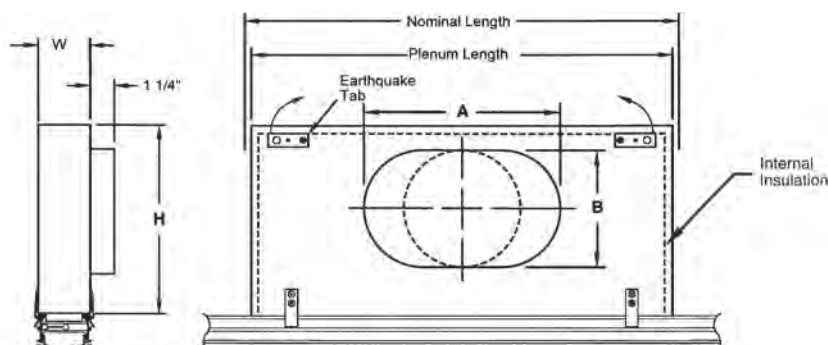
INSULATED FLOWBAR PLENUMS (OVAL INLETS)

FEATURES:

- Engineered and tested with FlowBar for catalogued performance. FlowBar performance warranty void without factory plenum
- Model FBPI has internal insulation
- Quick snap-on attachment to FlowBar neck
- Galvanized steel construction



Flowbar Plenum Model	W (Width)		H (Height)	3' Plenum L (Length)	4' Plenum L (Length)	5' Plenum L (Length)	Oval Inlet (for 12" oval)	
	1 Slot	2 Slot					A	B
FBPI-10	2¾	5¼	10	33¾	45¾	57¾	14 1/8	7 7/8
FBPI-15	3¾	7¼	10	33¾	45¾	57¾	14 1/8	7 7/8
FBPI-20	4¾	9¼	10	33¾	45¾	57¾	14 1/8	7 7/8



FBPI Plenums

Model FBPI Plenums	3 Ft. (12" inlet)	4 Ft. (10" inlet)	4 Ft. (12" inlet)	5 Ft. (12" inlet)
	List Price SKU	List Price SKU	List Price SKU	List Price SKU
FBPI10 1SLOT	260 51343	305 51345	305 51346	355 51348
FBPI15 1SLOT	260 51350	305 51352	305 51353	355 51355
FBPI20 1SLOT	260 51357	—	305 51359	355 51361
FBPI10 2SLOT	290 51344	—	335 51347	385 51349
FBPI15 2SLOT	290 51351	—	335 51354	385 51356
FBPI20 2SLOT	290 51358	—	335 51360	385 51362

Optional Inlet Dampers and Oval To Round Adapters		List Price SKU
 (Inlet Damper)	FBID 10	180 51341
	FBID 12	180 51342
 (Adapter)	OTR 1408 06	125 51376
	OTR 1408 08	130 51377
	OTR 1408 10	155 51378

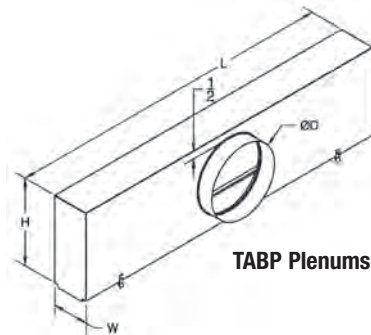
INSULATED AIR-BAR PLENUMS (ROUND & FIELD CUT INLETS)

FEATURES:

- True round or field-cut inlet types
- Galvannealed steel construction
- Can be used for supply or ducted return
- Insulation: 1/2" fiberglass
- Material: 24 gauge galvanized steel



Model	3 Ft. (12" inlet)	3 Ft. (field cut)	4 Ft. (8" inlet)	4 Ft. (10" inlet)	4 Ft. (12" inlet)	4 Ft. (field cut)	5 Ft. (12" inlet)	5 Ft. (field cut)
	List Price SKU	List Price SKU	List Price SKU	List Price SKU	List Price SKU	List Price SKU	List Price SKU	List Price SKU
TABP10 1SLOT	185 53170	185 53173	205 53181	205 53184	205 53187	205 53190	245 53198	245 53201
TABP15 1SLOT	215 53171	215 53174	245 53182	245 53185	245 53188	245 53191	245 53199	290 53202
TABP20 1SLOT	215 53172	215 53175	245 53183	245 53186	245 53189	245 53192	290 53299	290 53203
TABP25 1SLOT	-	235 53176	-	-	-	260 53193	-	310 53204
TABP30 1SLOT	-	235 53177	-	-	-	260 53194	-	310 53205
TABP10 2SLOT	-	235 53178	-	-	-	260 53195	-	310 53206
TABP15 2SLOT	-	260 53179	-	-	-	285 53196	-	330 53207
TABP20 2SLOT	-	295 53180	-	-	-	320 53197	-	365 53208



TABP Plenums

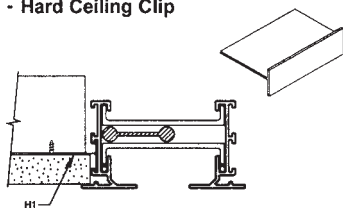
TABP ID
Inlet Damper
(optional)

Flowbar Plenum Model	W (Width)		H* (Height)	L (Length)
	1 Slot	2 Slot		
TABP10	2 ⁷ / ₈	5 ¹ / ₄	D + 2"	Nominal - 2 ¹ / ₄ "
TABP15	3 ⁷ / ₈	7 ¹ / ₄	D + 2"	Nominal - 2 ¹ / ₄ "
TABP20	4 ⁷ / ₈	9 ¹ / ₄	D + 2"	Nominal - 2 ¹ / ₄ "
TABP25	6 ¹ / ₂	11 ¹ / ₄	D + 2"	Nominal - 2 ¹ / ₄ "
TABP30	7	13 ¹ / ₄	D + 2"	Nominal - 2 ¹ / ₄ "

Note: All field cut Plenums are 16" high

TABP ID	
Size	List Price SKU
8" Round	115 53563
10" Round	115 53564
12" Round	115 53565

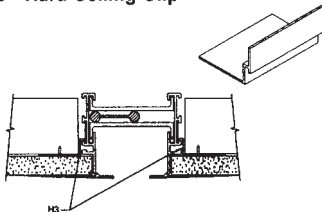
H1 - Hard Ceiling Clip



Used for mounting Border Types 66 or 22 (sizes 10, 15 & 20) with standard 5/8" gyp board.

Part No.	List Price	SKU
FB H1 CLIP	5	51312

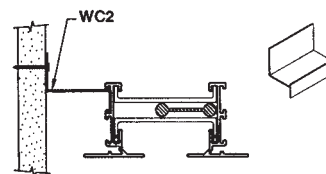
H3 - Hard Ceiling Clip



Can be used to mount Border Type 22 (sizes 25 & 30) with standard 5/8" gyp board.

Part No.	List Price	SKU
FB H3 CLIP	5	51313

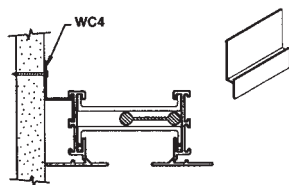
WC2 - Wall Clip



Mounts Border Type 66 away from a wall when a reveal is required. This reveal can be used as a return air slot.

Part No.	List Price	SKU
FB WC2 CLIP	5	51339

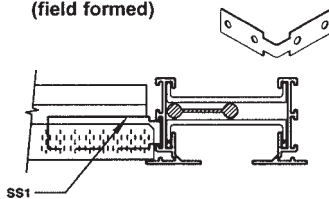
WC4 - Wall Clip



Used for flush mounting Border Type 66 to a wall.

Part No.	List Price	SKU
FB WC4 CLIP	5	51340

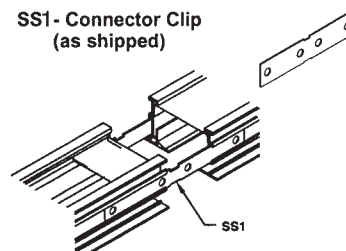
SS1 - Spline Support Clip (field formed)



Integrates standard drop "Tees" with FlowBar assembly.

Part No.	List Price	SKU
FB SS1 Clip	5	51324

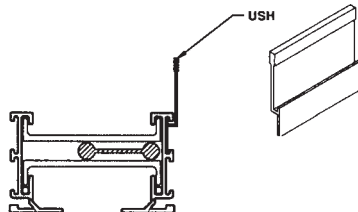
SS1 - Connector Clip (as shipped)



Adjoins multiple sections of FlowBar.

Part No.	List Price	SKU
FB SS1 Clip	5	51324

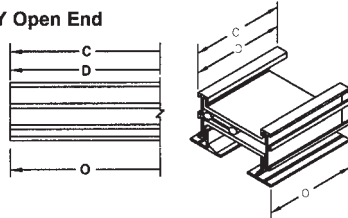
USH - Upper Support Hanger



Suspends one side of the FlowBar assembly from the ceiling structure.

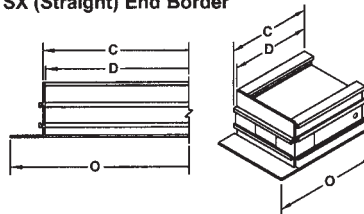
Part No.	List Price	SKU
FB USH CLIP	10	51337

Y Open End



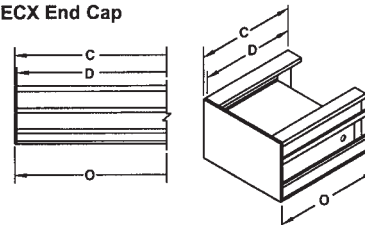
The "Y Open End" is a representation of a flowbar without end hardware.

SX (Straight) End Border



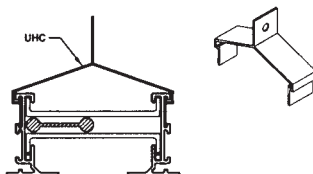
Model	List Price	SKU
FB SX66 10 1S	30	51328
FB SX66 10 2S	30	51329
FB SX66 15 1S	30	51330
FB SX66 15 2S	30	51331
FB SX66 20 1S	30	51332
FB SX66 20 2S	30	51333

ECX End Cap



Part No.	List Price	SKU
FB ECX22 10 1S	30	51303
FB ECX22 10 2S	—	—
FB ECX22 15 1S	30	51304
FB ECX22 15 2S	—	—
FB ECX22 20 1S	30	51305
FB ECX22 20 2S	—	—
FB ECX66 10 1S	30	51306
FB ECX66 10 2S	30	51307
FB ECX66 15 1S	30	51308
FB ECX66 15 2S	30	51309
FB ECX66 20 1S	30	51310
FB ECX66 20 2S	30	51311

UHC - Upper Hanger Clip



Suspends the FlowBar assembly from the ceiling structure using standard hanger wire.

Model	List Price	SKU
FB UHC 10	10	51334
FB UHC 15	10	51335
FB UHC 20	10	51336

MODULINEAR ALUMINUM CEILING DIFFUSERS

FEATURES:

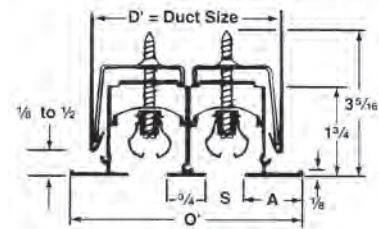
- TITUS Modulinear diffusers project a uniform blanket of air that adheres to the ceiling even at low flow rates
- Both the direction and volume of the discharge air can be adjusted gradually by moving the pattern controllers (diagrams below)
- Full 180° pattern controller adjustment means there are no “lefts” or “rights”. Specifying, ordering and installing are simplified
- Baked enamel finish, white border with black pattern controller.



ML
Border Type 2A
Flange Border
Concealed Mounting

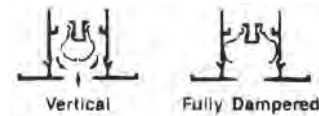
4 FT. T-BAR LENGTHS

Model ML Border Type 2A	1 Slot			2 Slot		
	CFM/Ft. @ NC 35	List Price	SKU	CFM/Ft. @ NC 35	List Price	SKU
ML38 4ft.	30	290	51408	50	465	51409
ML39 4ft.	35	290	51410	55	465	51411



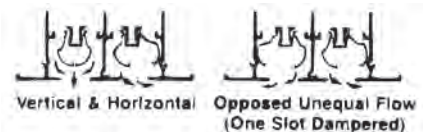
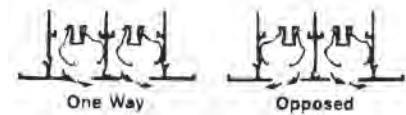
6 FT. FIELD-CUT LENGTHS

Model MLF Border Type 2A	1 Slot			2 Slot		
	CFM/Ft. @ NC 35	List Price	SKU	CFM/Ft. @ NC 35	List Price	SKU
ML38 6ft.	30	435	51416	50	700	51417
ML39 6ft.	35	435	51418	55	700	51419



Above 4ft. ML includes 3 field spacer kits & 2 hanger brackets, while the above 6ft. MLF includes 4 field spacer kits & 2 hanger brackets, for these additional kits and hanger brackets add:

Model ML & MLF Border Type 2A	Description	1 Slot		2 Slot	
		List Price	SKU	List Price	SKU
MLFS38 KIT	Field spacer kit	10	51420	10	51421
MLFS39 KIT	Field spacer kit	10	51422	10	51423
MLHB38 BRKT	Hanger bracket	10	51424	10	51425
MLHB39 BRKT	Hanger bracket	10	51426	10	51427



End Borders* (for hard ceilings)	1 Slot		2 Slot	
	List Price	SKU	List Price	SKU
MLEB38	25	51412	25	51413
MLEB39	25	51414	25	51415

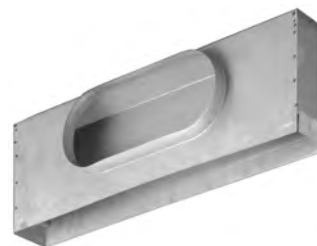
*End Borders sold separately.

Type	S	A	O'	D	
				1 Slot	2 Slot
ML38	3/4	1 1/8	D' + 3/4	2 1/4	3 3/4
ML39	1	1 1/8	D' + 3/4	2 1/2	4 1/4

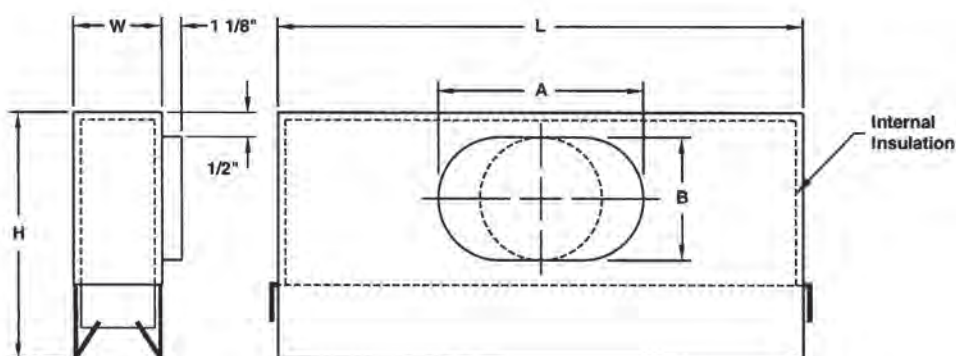
INSULATED ML PLENUM (OVAL INLETS)

FEATURES:

- Model MPI has internal insulation
- Fits Model ML, MLF, MLR, and MLRF
- End caps can be turned to allow installing the MPI on continuous runs of ML diffusers
- Can be used as supply or ducted return
- Galvanized steel construction, 8" oval inlets



ML PLENUM	W (Width)		H (Height)	L (Length)	Oval Inlet	
	1 Slot	2 Slot			A	B
MPI38	2 ⁷ / ₁₆	3 ¹⁵ / ₁₆	8	47 ³ / ₄	9 ³ / ₈	5 ¹ / ₄
MPI39	2 ¹¹ / ₁₆	4 ⁷ / ₁₆	8	47 ³ / ₄	9 ³ / ₈	5 ¹ / ₄



Model MPI Border Type 2A	1 Slot	2 Slot
	List Price SKU	List Price SKU
MPI38 4ft.	215 51428	220 51429
MPI39 4ft.	215 51430	220 51431

Optional Inlet Dampers and Oval To Round Adapters		List Price SKU
 (Inlet Damper)	MPID 08 OVAL	90 51432
 (Adapter)	OTR 0905 06	120 71174
	OTR 0905 08	125 71175

Related items

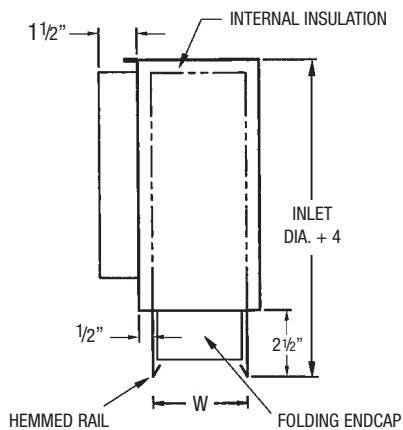
For Round Inlet Plenums – See Page 93



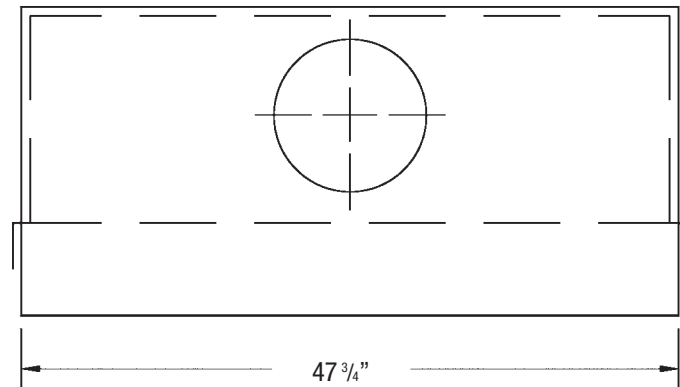
INSULATED PLENUMS (ROUND & FIELD CUT INLETS)

FEATURES:

- Fits type ML/MLF linear slot diffusers
- Round inlet sizes: 6" to 12" diameters
- Material: 24 gauge galvanized steel
- Insulation: 1/2" fiberglass
- Plenums are 4 ft. long



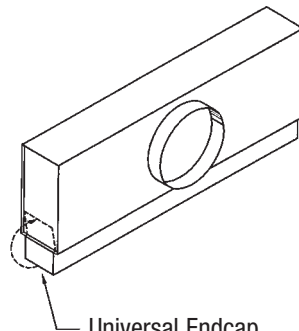
Side View



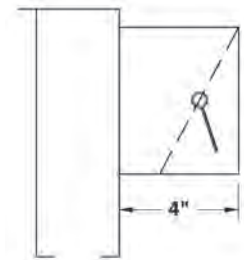
Front View

Width dimensions (W)
in inches

No. of Slots	TLSP 07	TLSP 10
	3/4" Slots	1" Slots
1	2 5/8	2 7/8
2	4 1/8	4 5/8
3	5 5/8	6 3/8
4	7 1/8	8 1/8



Universal Endcap
Lower portion of endcap may be folded up for continuous applications.

Model TLSP ID
Inlet Damper

Size	TLSP 07 (3/4" Slot)				Size	TLSP 10 (1" Slot)				Size	TLSP ID
	1 Slot	2 Slot	3 Slot	4 Slot		1 Slot	2 Slot	3 Slot	4 Slot		Inlet Damper
	List Price	List Price	List Price*	List Price*		List Price	List Price	List Price*	List Price*		List Price
	SKU	SKU	SKU	SKU		SKU	SKU	SKU	SKU		SKU
6"	195 53150	205 53154	205* 53158	225* 53159	6"	195 53160	205 53164	205* 53168	225* 53169	6"	120 41191
8"	195 53151	205 53155			8"	195 53161	205 53165			8"	140 41193
10"	195 53152	205 53156			10"	195 53162	205 53166			10"	155 41195
12"	195 53153	205 53157			12"	195 53163	205 53167			12"	160 41196

*Inlet sizes for 3 and 4 slot TLSP models are field cut.

TOROAire

HVAC engineered products

fans • dampers • air distribution • terminal units • sound control

TITUS

AIR DISTRIBUTION – Grilles/registers/diffusers; Flowbar, linear slots; laminar flow diffusers, security grilles, drum louvers, underfloor diffusers, DDC and thermal diffusers. Chilled beams and displacement ventilation.

TERMINAL UNITS – VAV, constant volume and fan-powered boxes; underfloor terminals and retrofit assemblies, pneumatic, electric, analog or DDC controls.

FAN COILS / AIR HANDLERS – Vertical stack, horizontal, floor and cabinet fan coil units. Horizontal and vertical belt-driven air handlers, indoor and outdoor, to 9,000 CFM.

TWIN CITY FANS & BLOWERS

FANS & VENTILATORS – Complete line of centrifugal roof and wall ventilators, grease fans, inline fans, ceiling fans, propeller fans & gravity vents.

CENTRIFUGAL & AXIAL FANS – Applied blowers, utility sets, tubular centrifugals, plug, plenum and industrial fans. Tube axial, vane axial, duct fans and mixed flow fans. AMCA 260 rated centrifugal and mixed flow lab exhaust systems.

UNITED ENERTECH

FIRE, SMOKE & COMBINATION DAMPERS – Complete line of UL Listed products.

CONTROL & BACKDRAFT DAMPERS – Commercial, Industrial and specialty.

LOUVERS AND PENTHOUSES – Extruded, fabricated, stationary, adjustable and more.

POWER/BALANCE SYSTEM – Patented remote air balancing system utilizing a hand held 9-volt battery operated power pack. No line voltage required.

AIR FACTORS

LINEAR AIR DISTRIBUTION – The widest selection of Air Bar® linear slot diffusers from the company that invented architectural air bar.

A-J MFG.

STAINLESS STEEL AIR DISTRIBUTION – Type 304 or 316 stainless steel grilles, registers, diffusers, linear slots, bar linear, drum louvers, security outlets, perforated screens, extractors and dampers.

AMERICAN AIR FILTER (AAF)

COMMERCIAL HVAC AIR FILTERS & HOUSINGS – Disposable, pleated, bag and HEPA filters; side access and bag-in/bag-out housings; mist eliminators, gas phase filtration and dust collectors. Filtration and APC products for every application.

AMERICAN ALDES

VENTILATION – The largest selection of Title 24 compliant ENERGY STAR® rated fans available; Single Port, Multi-Port, Blending, Distribution and Filtering.

VOLUME CONTROL – Constant Airflow Regulators compensate for changes in duct pressure caused by thermal stack effect, building pressure, filter loading, etc., eliminating the need for on-site balancing.

CARROLL MANUFACTURING

KITCHEN VENTILATION – APU (Air Purification Unit) for control of grease, smoke and odors permitting horizontal discharge of kitchen exhaust in hi-rise buildings.

COMMERCIAL ACOUSTICS

SILENCERS & NOISE CONTROL SYSTEMS – Sound attenuators, acoustical louvers and panels, “No-Fill” silencers, elbow silencers, transfer silencers and cone silencers.

COMMERCIAL AIRE PRODUCTS

SMALL AIR HANDLING UNITS – Unique belt driven units featuring double wall construction and internal isolation. Hydronic and DX coils, 2 Tons to 20 Tons.

CONTINENTAL FAN MFG. (CFM)

FANS – Specialty fans for unusual applications including axial, radial, inline, mixed flow and centrifugal.

IRIS DAMPERS – Interlocking steel plate design establishes new standards for air control and measurement. Ideal for clean rooms, labs and corrosive environments.

CRITICAL ENVIRONMENT (CET)

GAS DETECTION – HVAC systems, analog and digital. CO, CO2, refrigerant, etc.

DUCTSOX

FABRIC AIR DISPERSION – Uniform conditioned air for open ceiling architecture. LabSox™ diffusers for critical environments and UFSox™ for underfloor applications.

FANAM

INDUSTRIAL/COMMERCIAL – Corrosion resistant and explosion proof fans and blowers for methane gas, fume hoods, sanitation plants or any corrosive environment.

RESIDENTIAL/HI-RISE – Plastic and metal inline fans, dryer booster fans, bathroom and laundry exhaust, termination boxes, discharge grilles and linear perimeter louvers.

NEPTRONIC

STEAM HUMIDIFIERS – Immersion element type with permanent, cleanable, stainless steel chamber. Gas, electric, steam to steam, and direct steam injection.

DUCT HEATERS – Electric open coil or tubular element. Full modulation without the high cost of SCRs.

ELECTRONIC VAV CONTROLS – BACnet or stand-alone, valves and actuators.

WATER VALVES – Pressure independent, dynamic balancing TC valves; 100:1 scale.

PANASONIC

VENTILATION FANS – Whisper® series ceiling and inline fans featuring super quiet operation, long life TE motors and ENERGY STAR® ratings.

POWERED AIRE

COMMERCIAL AIR CURTAINS – Complete line of heated and unheated models with standard stainless steel construction for long service life.

PRECISION AIR PRODUCTS

LAMINAR FLOW SPECIALISTS – Diffusers and systems for surgeries, imaging ORs and isolation rooms. Components or integrated ceiling design.

SEIHO

ARCHITECTURAL GRILLES – Aluminum round registers, spot diffusers and turbo nozzles. Available in a wide variety of colors, sizes and distinctive architectural styles.

YOUNG REGULATOR

DAMPING DEVICES – Remote BOWDEN cable control systems, motorized zone dampers, high quality operators, regulators, miter gears, worm gears, hardware and assemblies. New EBD series electronic balancing dampers.

ZOO FANS

DESTRATIFICATION – Unique energy saving fans for ceilings up to 70 feet high.

[Your source for other fine HVAC products from ...](#)

ADP, AIR LOUVERS, ARES, BROAN-NUTONE, CAL-DYNE, CENTRAL BLOWER, CHAMPION, CHROMALOX, COAIRE, ENGWALD, ELMDOR, ESSICK, FANTECH, FLANDERS, FLO-AIRE, INDEECO, KEES, MAGIC AIRE, MARLEY, MARS, MASON, METALFORM, MILCOR, Q-MARK, RAYMON-DONCO, RELIABLE, ROMLAIR, RPS and STERLING.



HVAC-R wholesale supplies

stats • valves • controls • refrigerants • filters • tools • sheet metal

Honeywell	Firex Smoke Alarms	Parker Pneumatic Fittings
Siemens	Forane Refrigerants	Plasti-Kote Paints
Johnson Controls	Gates Belts	Plexco/Chevron Pneumatic Tubing
Powers	Genetron Refrigerants	Polyken Tape
Invensys	Glenkote Sealants	Polymer Adhesives
Maple Chase	Global Fuse Boxes	Promax Pumps
Barber-Colman	Harris Solders	Reflectix Insulation
Uni-Line	Hartell Pumps	Rehvac Regulators
Robertshaw	Headfirst Ceiling Wire	Ritchie Co.
American Air Filters	Henry Mastic	Robinair
Amerivent	Honeywell Wire	Rubatex Insulation
Asco Valves	ICM Controls	Samsung Mini Split Systems
Baron Wire	IntermaticTimers	Sauermann Pumps
Beckett Pumps	Ironclad Gloves	Seismic Mounting & Restraints
Belimo Air Controls	Johns Manville	Sog Knives
Bell & Gossett	Kingco Adhesives	Specialty Chemicals
Bomber Safety Glasses	Klenk Knives	Square D Contactors
Braeburn Thermostats	KMC Controls	System Sensor Smoke Detectors
Bristol Compressors	Makita Power Tools	Toroflex
Bussmann Fuses	Malco Tools	Uniweld Supplies
Camco Fasteners	Mars Relays & Motors	Venture Tape
Control-A-Flow	Marsh Instruments	Veris Industries
Cooper B-Line	Modular Metals	Wagner Products
Cutler-Hammer	Mueller Soft Copper	Watts Regulators
Dekoron Pneumatic Tubing	Neptronic	Welding Gases
Dottie Fasteners	Nibco Fittings & Valves	Werner Ladders
DP Sealants	Nu-Calgon	Wesanco Uni-Strut
Ductmate Industries	Panduit Products	Winters Instruments
Dwyer Instruments	Paragon Timers	
Evco Fasteners	Parker Dryers	

*A full line of Installation Accessories for the
Commercial Air Conditioning Professional*



Wholesale Supply Section

Sheet Metal

Section

Adapters & Reducers (Square to Round, Ceiling Boxes, Pancake Reducers, Taper Reducers)	I
Access Doors (Classic, Flat Oval, Spiral, Sticktite, Multi-Use, Fire Rated)	J
Fittings (Adjustable 90° Elbows, Caps & Collars, Saddle Taps, Tee-Wyes, S & Drive, Plaster Ground)	K
Ducting (Polycore Flex, Alumicore Flex, Flat Stock, Spiral, Snap Lock KD Pipe, B-Vent)	L
Insulation (Silver Facing FSK Wrap, Yellow Microlite Duct Wrap, Hi-Temp Reflective Duct Wrap, Duct Connector)	M

Controls

Electronic (Stats, Stat Guards, Valves, Actuators, Thermostat Wire, Zone Dampers, Fans, Ignitors, Gas Flex Lines, Smoke Detectors)	N
Pneumatic (Stats, Valves, Actuators, Relays, Instruments, Probes, Pressure Controls, Pressure Sensors, Tubing, Fittings)	O
Electrical Supplies (Transformers, Contactors, Relays, Fuses, Speed Controllers, Disconnect Boxes, Whips, Motors, Capacitors)	P
Refrigeration (Tools, Instruments, Hoses, Gauges, Accessories, Welding Gases, Regulator & Blowgun Kits, Refrigerants, Liquid/Suction Line Dryers)	Q
Water Management (Water Venting, Pressure Reducing Station, Temperature & Flow Controls, Valves, Pumps)	R

General Merchandise

Tools (Power Tools, Accessories, Mirrors & Magnets, Hand Tools, Knives)	S
Fastening (Screws & Kits, Fastening Systems, Ductmate, Uni-Strut, Pin & Clip, Zip Ties, Hanger Strap)	T
Piping (PVC Pipe & Fittings, Rubatex, Soft Copper, Copper Fittings, Hard Copper, A/C Line Sets, Clamps, Flux & Solders)	U
Service (Chemicals, Lubricants, Aerosols, Sealants, Tapes, Ladders, Belts, Filter Draft Eliminator, Filters, Paints, Safety, Tie Downs)	V

Appendix

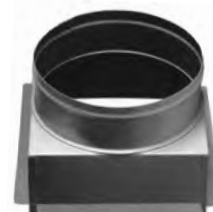
Alphabetical Index	W
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FEATURES:

- 24 Gauge galvanized steel construction
- 2.5" collar with raised bead
- Interior painted flat black
- Ceiling box is prefabricated with flanges



STR
Round Neck
Adapters



STRF
Ceiling Box

STR Size	Gauge	Diameter											
		04" SKU	05" SKU	06" SKU	07" SKU	08" SKU	09" SKU	10" SKU	12" SKU	14" SKU	16" SKU	18" SKU	20" SKU
6"x 6"	24	35 55219	35 55220	35 55221	-	-	-	-	-	-	-	-	-
8"x 8"	24	-	-	35 55222	35 55223	35 55224	-	-	-	-	-	-	-
9"x 9"	24	-	-	40 55225	-	40 55227	40 55228	-	-	-	-	-	-
10"x 10"	24	-	-	40 55229	40 55230	40 55231	40 55232	40 55233	-	-	-	-	-
12"x 12"	24	-	-	45 55234	45 55235	45 55236	45 55237	45 55238	45 55239	-	-	-	-
14"x 14"	24	-	-	-	-	50 55240	50 55241	50 55242	50 55243	50 55244	-	-	-
15"x 15"	24	-	-	-	-	55 55245	-	55 55247	55 55248	55 55249	-	-	-
16"x 16"	24	-	-	-	-	55 55250	-	55 55251	55 55252	55 55253	55 55254	-	-
18"x 18"	24	-	-	-	-	70 55255	-	70 55256	70 55257	70 55258	70 55259	70 55260	-
20"x 20"	24	-	-	-	-	80 55261	-	80 55262	80 55263	80 55264	80 55265	80 55266	80 55267
22"x 22"	24	-	-	90 55273	-	90 55274	90 55275	90 55276	90 55277	90 55278	90 55279	90 55280	90 55281
23.5"x 23.5"	24	-	-	90 55286	-	-	-	-	-	-	-	-	-
22"x 10"	24	-	-	75 55268	-	75 55270	-	75 55271	85 55272	-	-	-	-
23.5"x 11.5"	24	-	-	-	-	95 55282	95 55283	95 55284	95 55285	-	-	-	-
46" x 22"	24	(Square pan only – hole is field cut)											200 55199

STRF Size	Gauge	Diameter											
		04" SKU	05" SKU	06" SKU	07" SKU	08" SKU	09" SKU	10" SKU	12" SKU	14" SKU	16" SKU	18" SKU	20" SKU
6"x 6"	24	-	30 55294	30 55295	-	-	-	-	-	-	-	-	-
8"x 8"	24	-	35 55296	35 55297	35 55298	35 55299	-	-	-	-	-	-	-
10"x 10"	24	-	-	35 55300	35 55301	35 55302	35 55303	35 55304	-	-	-	-	-
12"x 12"	24	-	-	-	40 55305	40 55306	40 55307	40 55308	40 55309	-	-	-	-
14"x 14"	24	-	-	-	-	-	-	45 55319	45 55310	45 55311	-	-	-
16"x 16"	24	-	-	-	-	-	-	50 55312	50 55313	50 55253	50 55314	-	-
18"x 18"	24	-	-	-	-	-	-	-	55 55315	55 55316	55 55317	55 55318	-

PANCAKE REDUCER FEATURES:

- 24 Gauge galvanized steel construction
- 2.5" collar with raised bead
- Interior painted flat black

RTR
Pancake Reducer



RTR Size	Gauge	List Price	SKU
6" x 4"	24	25	55200
6" x 5"	24	25	55201
8" x 6"	24	25	55202
8" x 7"	24	25	55203
10" x 6"	24	35	55204
10" x 7"	24	35	55205
10" x 8"	24	35	55206
10" x 9"	24	35	55207
12" x 6"	24	35	55208
12" x 7"	24	35	55209

RTR Size	Gauge	List Price	SKU
12" x 8"	24	35	55210
12" x 9"	24	35	55211
12" x 10"	24	35	55212
14" x 10"	24	40	55213
14" x 12"	24	40	55214
16" x 12"	24	45	55215
16" x 14"	24	45	55216
18" x 14"	24	50	55217
18" x 16"	24	50	55218

TAPER REDUCERS


TRSF
Sure Fit



TR
Taper 8" High

SURE FIT TAPERS

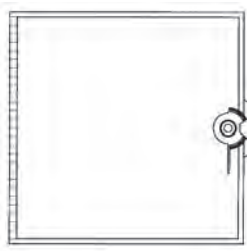
Size	Gauge	List Price	SKU
8" x 6"	26	30	71304
10" x 8"	26	35	71305
12" x 10"	26	40	71306
14" x 12"	24	55	71307
16" x 14"	24	80	71308

TAPERS

Size	Gauge	List Price	SKU
6" x 5"	26	15	71309
8" x 6"	26	20	71310
8" x 7"	26	20	71311
9" x 8"	26	25	71312
10" x 6"	26	30	71313
10" x 7"	26	30	71314
10" x 8"	26	30	71315
10" x 9"	26	30	71316
12" x 8"	26	35	71317
12" x 9"	26	35	71318
12" x 10"	26	35	71319
14" x 10"	24	40	71320
14" x 12"	24	40	71321
16" x 12"	24	50	71322
16" x 14"	24	50	71323
16" x 15"	24	50	71324

ADSM FEATURES:

- Full-length hinge
- Camlock closure
- Insulated
- Knock-over tabs



Front View



Section View

Square Size	List Price	SKU
6"x 6"	65	72111
8"x 8"	70	72112
10"x 10"	80	72113
12"x 12"	85	72114
14"x 14"	100	72115
16"x 16"	120	72116
18"x 18"	135	72117
24"x 24"	180	72118



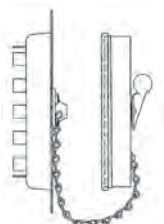
ADSM Square Duct Door

FLAT OVAL DUCT ACCESS DOORS

ADSO FEATURES:

- Easy install: Much faster than square doors
- Premium performance
- Ultra-low leakage
- Ergonomic sizing
- Insulated
- Knock-over tabs
- Safety chain

Oval Size	List Price	SKU
8"x 5"	65	72119
12"x 6"	80	72120
18"x 10"	140	72121
21"x 14"	225	72122
25"x 17"	310	72123



Section View



ADSO Flat Oval Duct Door

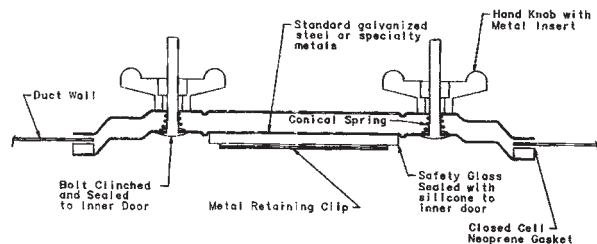
SPIRAL DUCT ACCESS DOORS

ADSD FEATURES:

- Insulated doors for round duct
- Sandwich design
- Bolt & Knob fastening
- Quick installation



ADSD Spiral Duct Door



Oval Size	Spiral Size	List Price	SKU
8"x 4"	4" – 6"	175	12752
8"x 4"	7" – 8"	175	12753
8"x 4"	9" – 10"	175	12754
8"x 4"	12"	185	12755
8"x 4"	14"	185	12756
10"x 6"	9" – 10"	200	12757
10"x 6"	12"	200	12758
10"x 6"	14"	200	12759
10"x 6"	16"	200	12760
10"x 6"	18"	210	12761
10"x 6"	20"	210	12762

ADSTI and ADSTO FEATURES:

- Zero leakage to 4" S.P.
- Full-length hinge with camlock closure
- Double wall with 1" fiberglass insulation
- Pre-drilled screw holes and self-adhesive backed flange for fast installation

ADSTI Size	List Price	SKU
6"x 6"	55	41353
8"x 8"	65	41354
10"x 10"	75	41355
12"x 12"	80	41356
14"x 14"	100	41357
16"x 16"	120	41358
18"x 18"	135	41359
24"x 24"	195	41360

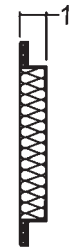
ADSTO Size	List Price	SKU
6"x 6"	55	41361
8"x 8"	65	41362
10"x 10"	75	41363
12"x 12"	80	41364
14"x 14"	100	41365
16"x 16"	120	41366
18"x 18"	135	41367
24"x 24"	195	41368



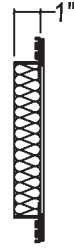
ADSTI



ADSTO



ADSTI FOR INTERNAL LINED DUCT



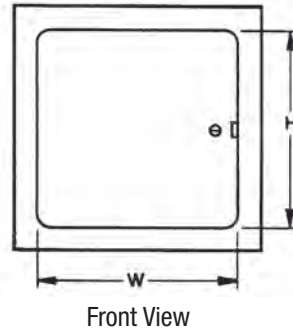
ADSTO FOR OUTSIDE WRAP

MULTI-USE ACCESS DOORS

ADMU FEATURES:

- For wallboard, plaster, wood or masonry surfaces
- Concealed, continuous piano hinge
- Screwdriver operated latch
- 14 gauge, galvanized steel with primecoat finish

Square Size	List Price	SKU
8"x 8"	80	72103
10"x 10"	95	72104
12"x 12"	100	72105
14"x 14"	125	72106
16"x 16"	140	72107
18"x 18"	160	72108
20"x 20"	205	72109
24"x 24"	225	72110



Front View



ADMU Multi-Use Access Door

FIRE RATED ACCESS DOORS

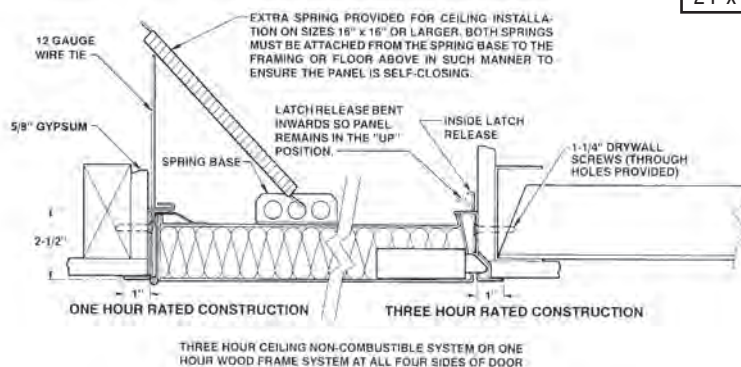
ADFR FEATURES:

- 1-1/2 hour fire rated
- UL Classified, File No. R-13067S
- California State Fire Marshall File No. 3330-1223: 100
- Warnock Hersey approved for ceiling applications

Square Size	List Price	SKU
12"x 12"	420	72100
14"x 14"	470	72101
24"x 24"	810	72102



ADFR Fire Rated Door



ADSH

Hinged door installs easily onto low pressure round duct providing convenient access. Strike and catch style closure and factory installed gasket ensure positive seal.

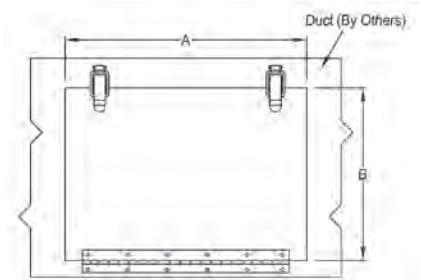
FEATURES:

- 16 gauge galvanized steel
- Zinc plated hinge
- Strike and catch zinc plated steel
- Polyethylene gasket



ADSH

Model	Duct Dia.	Dim. A	Dim. B	# of Hinges	List Price	SKU
ADSH 05	5"	7"	4"	2	105	41369
ADSH 06	6"	8"	5"	2	105	41370
ADSH 07	7"	9"	6"	2	110	41371
ADSH 08	8"	10"	7"	2	115	41372
ADSH 09	9"	11"	8"	2	120	41373
ADSH 10	10"	12"	9"	2	140	41374
ADSH 12	12"	14"	10"	2	175	41375
ADSH 14	14"	16"	12"	2	220	41376
ADSH 16	16"	16"	12"	3	225	41377
ADSH 18	18"	18"	14"	3	320	41378
ADSH 20	20"	18"	16"	3	385	41379
ADSH 24	24"	18"	16"	4	390	41380



Note: Field assembly of hinge and striker catch to duct required.

EYEBROWS, DRYER VENTS & TEE TOPS

EYEBROWS

Size	Gauge	List Price	SKU
4"	26	35	71151
6"	26	45	71152



EYEBROW



DRYER VENT

DRYER VENTS

Size	Gauge	List Price	SKU
4"	26	65	71120
5"	26	80	71121
6"	26	80	71122
8"	26	85	71123
10"	26	85	71124

TEE TOPS

Size	Gauge	List Price	SKU
4"	26	50	71325
5"	26	50	71326
6"	26	55	71362
7"	26	55	71327
8"	26	90	71328
10"	26	135	71329
12"	26	215	71330



TEE TOP

FEATURES:

- Galvanized
- Short radius

Size	Gauge	List Price	SKU
4"	26	10	71132
5"	26	10	71133
6"	26	15	71134
7"	26	15	71135
8"	26	20	71136
9"	26	20	71137

Size	Gauge	List Price	SKU
10"	26	20	71138
12"	26	35	71139
14"	24	50	71140
16"	24	70	71141
18"	24	85	71142
20"	24	100	71143



ELBOW
SHORT90 06

SADDLE TAPS
FEATURES:

- 45° Saddle Tap
- Galvanized
- Available on round or flat



SADDLE TAP FLAT



SADDLE TAP ROUND
(shown installed)

SADDLE TAPS ON ROUND

Size	Gauge	List Price	SKU
6" on 8"	26	50	71245
6" on 10"	26	50	71246
6" on 12"	26	50	71247
6" on 14"	26	50	71248
8" on 10"	26	60	71250
8" on 12"	26	60	71251
8" on 14"	26	60	71252
8" on 16"	26	60	71253
10" on 12"	26	70	71255
10" on 14"	26	70	71256
10" on 16"	26	70	71257
12" on 14"	26	70	71259
12" on 16"	26	70	71260
14" on 16"	24	95	71262
14" on 18"	24	95	71263

SADDLE TAPS ON FLAT

Size	Gauge	List Price	SKU
6" on Flat	26	55	71244
8" on Flat	26	70	71249
10" on Flat	26	85	71254
12" on Flat	26	75	71258
14" on Flat	26	80	71261

TEE WYES
FEATURES:

- 45° Tee Wyes
- Galvanized

TEE WYE


TEE WYES

Size	Gauge	List Price	SKU
6" x 4" x 4"	26	30	71333
8" x 6" x 6"	26	40	71336
8" x 8" x 8"	26	40	71337
9" x 7" x 7"	26	45	71338
10" x 8" x 6"	26	50	71339
10" x 8" x 8"	26	50	71340
10" x 10" x 8"	26	50	71341
10" x 10" x 10"	26	50	71342
12" x 8" x 8"	26	55	71343
12" x 10" x 8"	26	55	71344
12" x 10" x 10"	26	55	71345
12" x 12" x 8"	26	55	71346
12" x 12" x 10"	26	55	71347
12" x 12" x 12"	26	55	71348

TEE WYES

Size	Gauge	List Price	SKU
14" x 10" x 10"	24	60	71349
14" x 12" x 10"	24	60	71350
14" x 12" x 12"	24	60	71351
14" x 14" x 8"	24	60	71352
14" x 14" x 14"	24	60	71353
16" x 12" x 12"	24	80	71354
16" x 14" x 10"	24	80	71355
16" x 14" x 12"	24	80	71356
16" x 14" x 14"	24	80	71357
16" x 16" x 16"	24	80	71358
18" x 14" x 14"	24	105	71359
18" x 16" x 12"	24	105	71360
18" x 18" x 18"	24	105	71361

FLEXIBLE AIR DUCT – ALUMICORE & POLYCORE
FEATURES:

- UL 181 Class 1 Air Duct
- Metalized silver jacket
- R-4 Flex available
- California Title 24 compliant: R-6 Flex, R-8 Flex



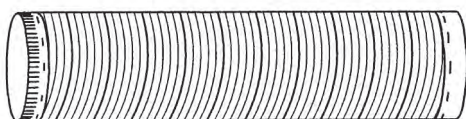
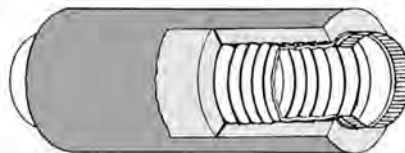
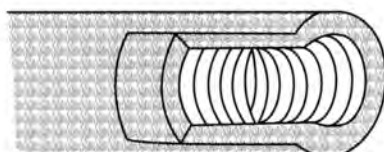
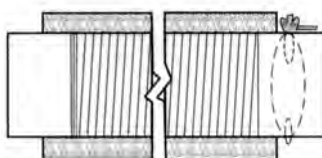
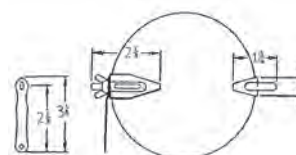
STR Size	TFA-Alumicore						TFP-Polycore											
	Bare		R-4.2		R-8		R-4.2				R-6				R-8			
	6 Ft. CBE		6 Ft. CBE		6 Ft. CBE		6 Ft. CBE		25 Ft. RAW		6 Ft. CBE		25 Ft. RAW		6 Ft. CBE		25 Ft. RAW	
	List	SKU	List	SKU	List	SKU	List	SKU	List	SKU	List	SKU	List	SKU	List	SKU	List	SKU
4"	35	73116	–	–	–	–	55	73167	–	–	65	73179	95	73236	–	–	–	–
5"	40	73117	65	73127	–	–	65	73168	95	73225	75	73180	115	73237	–	–	–	–
6"	45	73118	70	73128	95	73138	70	73169	105	73226	80	73181	130	73238	100	73193	160	73249
7"	50	73119	75	73129	–	–	75	73170	115	73227	90	73182	140	73239	–	–	180	73250
8"	55	73120	85	73130	120	73140	80	73171	125	73228	95	73183	145	73240	120	73195	195	73251
9"	65	73121	95	73131	135	73141	85	73172	140	73229	105	73184	170	73241	–	–	215	73252
10"	70	73122	105	73132	150	73142	100	73173	155	73230	115	73185	190	73242	150	73197	235	73253
12"	85	73123	125	73133	180	73143	115	73174	190	73231	135	73186	235	73243	175	73198	290	73254
14"	95	73124	140	73134	195	73144	145	73175	230	73232	160	73187	285	73244	210	73199	350	73255
16"	110	73125	165	73135	225	73145	160	73176	275	73233	180	73188	330	73245	235	73200	420	73256
18"	130	73126	185	73136	–	–	180	73177	325	73234	215	73189	375	73246	280	73201	455	73257
20"	–	–	–	–	–	–	215	73178	415	73235	255	73190	460	73247	330	73202	475	73258

Duct Size	Damper Kit	SKU
4"	15	71108
5"	16	71109
6"	17	71110
7"	19	71111
8"	20	71112
9"	21	71113

Duct Size	Damper Kit	SKU
10"	23	71114
12"	33	71115
14"	33	71116
16"	33	71117
18"	38	71118
20"	43	71119

Key to Abbreviations:
CBE = Collars Both Ends

RAW = Raw flex, no collars

Alumicore (Bare): TFA06B CBE

Alumicore (Wrapped): TFA06R CBE

Polycore: TFP25R RAW

Polycore: TFP06 CBE
(Damper kit sold separately)

Disc Damper Kit


SPIRAL PIPE FEATURES:

- 7-1/2 ft. lengths for job site elevator mobility
- UMC gauges
- Crimped one end
- 10 ft. lengths available upon request



SPIRAL PIPE

KD PIPE
FEATURES:

- 36" lengths
- Snap lock
- UMC gauges



"KD" PIPE

Size	Gauge	SPIRAL PIPE List Price	SKU	KD PIPE List Price	SKU
4"	26	45	71275	25	71159
5"	26	50	71276	25	71160
6"	26	60	71277	30	71161
7"	26	65	71278	35	71162
8"	26	75	71280	40	71163
9"	26	85	71281	45	71164
10"	26	95	71282	45	71165
12"	26	110	71283	60	71166
14"	26	130	71284	80	71167
16"	26	150	71285	85	71168
18"	24	225	71286	105	71169
20"	24	250	71287	120	71170

CAPS & COLLARS


CAP



START COLLAR

Size	Gauge	CAPS List Price	SKU	COLLARS List Price	SKU
4"	26	20	71230	5	71292
5"	26	20	71231	5	71293
6"	26	25	71232	7	71294
7"	26	30	71233	9	71295
8"	26	30	71234	9	71296
9"	26	35	71235	10	71297
10"	26	40	71236	11	71298
12"	26	45	71237	13	71299
14"	24	65	71238	14	71300
16"	24	75	71239	17	71301
18"	24	95	71240	20	71302
20"	24	115	71241	26	71303

FLAT STOCK
FEATURES:

- 36" x 36" square piece
- 26 gauge sheet metal
- Larger sizes available upon request



FLAT STOCK



CUSTOM SIZE FLAT STOCK

Model	Description	List Price	SKU
FLAT STOCK	36" x 36", 26 Gauge Flat Stock Sheet	55	71153

FEATURES:

- 10' Length
- Galvanized

Model	List Price	SKU
Drive 26GA	10	71242
S-Lock 26GA	15	71243
STANDING S 26GA	45	71291



S&D S Lock 26GA



S&D Drive 26GA



STANDING S 26GA

PLASTER GROUND

FEATURES:

- 10' Length
- Galvanized

Model	List Price	SKU
Plaster Ground 26GA	25	71179



PLASTER GROUND



AMERIVENT TYPE B-GAS VENT

FEATURES:

- Snap-Lock joints
- Lightweight with durable construction
- Adjustable components
- All UL listed parts
- Other sizes available



4M CAP



4M COLLAR



4M12



4M TEE

Model	Description	List Price	SKU
4EUAF	Universal Female Adapter	65	11287
4EUAM	Universal Male Adapter	65	11288
4M CAP	4" DIA, Type B-Gas Vent Cap	65	11289
4M COLLAR	4" DIA, Type B-Gas Vent, Storm Collar	15	11290
4M ELBOW	4" DIA, Type B-Gas Vent, Adjustable Elbow	95	11291
4M FLASHING	4" DIA, Type B-Gas Vent, Flashing	45	11292
4M TEE	4" DIA., Type B-Gas Vent, Tee	155	11293
4M12	4" DIA, Type B-Gas Vent, 12" Length	50	11294
4M18	4" DIA, Type B-Gas Vent, 18" Length	45	12135
4M24	4" DIA, Type B-Gas Vent, 24" Length	55	12136
4M FLEX 36	4" DIA, Type B-Gas Vent, Flexible 36" Length	170	12744
4M FLEX 60	4" DIA, Type B-Gas Vent, Flexible 60" Length	210	12743
4M6A	Universal Type B-Gas Vent Adapter, 6" Length	35	12140

FEATURES OF HVBP48:

- Thickness 5/16"
- Temperature range 60°F to 180°F
- Class A – Class 1 fire rating
- Reflects 97% of radiant heat
- Lower heating and cooling costs year-round
- Applications: Duct wrap, spiral duct wrap, linear pipe, radiant floor, crawl spaces, attics and basement wall applications



HVBP48

FEATURES OF FSK:

- Light weight and highly resilient
- Blanket type, foil backing
- ASTM C 1338 fungi resistant
- R-4.2, insulation rated



FSK 1.5



Wire 8GAHW01

Model	Description	List Price	SKU
4850	1-1/2" x 48" x 50' Duct Liner	1140	11341
DUCT WRAP ROLL	Yellow Microlite Roll, 1" x 36" x 150'	675	11346
DUCT WRAP SLIT	Yellow Microlite Roll, 1" x 9" x 150'	195	11347
FSK 1.5	Microlite Type 75, FSK, 1.5" x 48" x 100'	610	11343
FSK 2.0	Microlite Type 75, FSK, 2" x 48" x 75'	805	11344
HVBP48	Duct Wrap/Liner, 48" wide x 50' long	335	12204
WIRE 8GAHW01	16 Gauge Galvanized Hanger Wire 450 ft.	49	12093
WIRE 8GHW01	16 Gauge Black Stone Hanger Wire 450 ft.	49	12095

Related items

Tape – Page 168
Stick Pins – Page 168



DUCT CONNECTOR

FEATURES:

- Secures ductwork to unit
- Airtight, heavy-duty construction
- Commercial/residential 2"x 4"x 2"



Duct Connector



Installed Duct Connector

Model	Description	List Price	SKU
Duct Connector	Flexible Duct Connector, 100 ft. Roll, 2"x 4"x 2" (black)	675	12203
Duct Connector HT	Flexible Duct Connector, 100 ft. Roll, Hi-Temp., 3"x 3"x 3" (gray)	1465	12675

KMC CTE 1000/1100/5000 Series
FEATURES

- 24 Volt
- Single Setpoint
- Adjustable min./max. temperature limits at thermostat rather than at controller



CTE 1001 10

Model	Description	List Price	SKU
CTE 1001 10	Direct acting thermostat used with CEP/CEE/CSE	390	21244
CTE 1101 10	KMC direct acting thermostat	275	21245
CTE 5002 10	Direct acting and reverse acting thermostat, dual output	220	21506

Honeywell
THERMOSTATS
HONEYWELL T8775 Series
FEATURES:

- Backlit display
- Applicable for heating/cooling applications
- Non-programmable
- Digital
- 24 Volt



T8775C 1005

Model	Description	List Price	SKU
T8775C 1005	1H/1C system and auto-on fan switch	240	22202

Honeywell
THERMOSTATS
HONEYWELL T87 Series
FEATURES:

- Classic round design
- Adjustable heat anticipator
- Separate temperature setting and thermometer scale
- 40° to 90° temperature scale range
- Mercury free
- 24 Volt



T87N 1000

Model	Description	List Price	SKU
T87K 1007	Heat only round thermostat	145	22203
T87N 1000	1H/1C round thermostat	215	22204

HONEYWELL

FEATURES:

- Line voltage/120/240
- Single and dual-stage
- Light and heavy-duty



T651A 3018



T4039S 1016

Model	Description	List Price	SKU
H600A 1014	Humidity multi-voltage thermostat 20 to 80 RH	660	22151
T4039S 1016	Manual switching fan coil thermostat, 120/240V	355	22212
T651A 3018	Super Tradeline multi-voltage thermostat	285	22201



THERMOSTATS

JOHNSON CONTROLS

FEATURES:

- Line voltage/120/240
- System switch heat-off-cool
- Fan switch low-medium-high



T46SAA 1C

Model	Description	List Price	SKU
T46SAA 1C	Johnson Controls – Fan coil thermostat line voltage	285	21525



THERMOSTATS

ROBERTSHAW

FEATURES:

- Simple one-button programming
- Automatic short-cycle compressor protection
- Relay output for complete system compatibility



9600



9701I

Model	Description	List Price	SKU
9020I	Room sensor for 9701I	70	22195
9204H	24V millivolt, 2 wire horizontal thermostat	45	22196
9600	1H/1C, gas/electric system 5-2 day programmable thermostat	135	22198
9610	1 H/1 C, gas/electric, single-stage heat pump, 7 day programmable thermostat	180	22199
9701I	1H/1 C, gas/electric, auto changeover, back lit display, single-stage heat pump, 7 day programmable thermostat	385	22200

VISIONPRO TH8320U 1008

FEATURES:

- Large, touchscreen display with backlight
- Effortless, 7-day programmable
- Real time clock
- Armchair programming
- Easy-to-follow menu-driven programming
- Residential or commercial applications



TH8320U 1008

Model	Description	List Price	SKU
C7189U 1005	Wall mount sensor for VisionPro	125	22192
T7022A 1010	Remote temperature sensor, duct mount	300	22214
T7047C 1025	Remote temperature sensor, wall mount	300	22215
TH2110D 1009	1H/1C, 5-2 programmable digital thermostat	160	22205
TH4110D 1007	FocusPro 1H/1C, 5-2, gas / electric / millivolt thermostat	195	22206
TH5110D 1022	FocusPro thermostat, 1H/1C conventional & HT PMP	245	22207
TH5320U 1001	FocusPro 3H/2C non-programmable digital thermostat	370	22208
TH6320U 1000	FocusPro 3H/2C, 5-1-1 programmable thermostat	445	22209
TH8320U 1008	VisionPro 24V programmable thermostat	685	22211

BRAEBURN SYSTEMS THERMOSTATS

FEATURES:

- Digital, programmable
- Residential applications
- Large display with bright blue light
- Dual powered
- ENERGY STAR® qualified



5300

Model	Description	List Price	SKU
2000	1H/1C, heat pump, 5-2 day millivolt programmable thermostat	120	21488
2950	White, universal wall plate	35	12091
5200	Multi-stage 2H/2C, heat pump, 7 day programmable thermostat	195	21503
5300	Auto changeover, 2H/2C, conventional heat pump, 7 day programmable thermostat	270	21504
5390	Remote sensor for Braeburn 5300	70	21436

UNIVERSAL THERMOSTAT GUARDS

FEATURES:

- Available in both clear plastic as well as a heavy-duty steel
- Industry-standard thermostat guards
- Each guard is manufactured to precise tolerances
- Each guard includes a lock & 2 keys for security

Model	Description	List Price	SKU
13004	Clear plastic 5" Length, 4-3/4" Width, 2-7/8" Depth	60	12235
13008	Clear plastic 6-1/2" Length, 5-3/4" Width, 3-1/2" Depth	55	12236
13020	Clear plastic 7-3/4" Length, 4-3/4" Width, 3-1/2" Depth	65	12237
13012	Clear plastic 10" Length, 6-1/4" Width, 4-1/2" Depth	80	12240
13021	Metal 7-1/2" Length, 4-1/2" Width, 3-1/2" Depth	55	12238
5970	Braeburn – Clear plastic 6-1/2" Length, 8" Width, 2-1/4" Depth	85	12234
TG511A 1000	Honeywell – Clear plastic 6-1/2" Length, 7-1/2" Width, 3" Depth	100	12242
TG512A 1009	Honeywell – Clear plastic 7-1/4" Length, 9-3/4" Width, 3-1/4" Depth	105	12437



13004



13008



13020



13021



13012



5970



TG511A 1000



TG512A 1009

SIEMENS/POWERS 599-01000 Series

FEATURES:

- 24V or 0-10 VDC when used with SSB series actuator
- Low leakage rate (ANSI Class IV)
- Close-off less than 70 psi
- All valves NPT threaded
- Wide Cv range



599 01100

Model	Description	List Price	SKU
599 01100	1/2" NC, 0.4 Cv valve body	150	21682
599 01102	1/2" NC, 0.63 Cv valve body	195	21683
599 01104	1/2" NC, 1.0 Cv valve body	125	21684
599 01106	1/2" NC, 1.6 Cv valve body	130	21685
599 01108	1/2" NC, 2.5 Cv valve body	180	21686
599 01110	1/2" NC, 4.0 Cv valve body	130	21687
599 01112	3/4" NC, 6.3 Cv valve body	185	21688
599 01115	1/2" NO, 0.4 Cv valve body	125	21690
599 01117	1/2" NO, 0.63 Cv valve body	125	21691
599 01119	1/2" NO, 1.0 Cv valve body	125	21692
599 01121	1/2" NO, 1.6 Cv valve body	125	21693
599 01123	1/2" NO, 2.5 Cv valve body	125	21694
599 01129	3/4" NO, 6.3 Cv valve body	150	21695
599 01132	1/2" 3-way, 0.4 Cv valve body	150	21696
599 01133	1/2" 3-way, 0.63 Cv valve body	145	21697
599 01134	1/2" 3-way, 1.0 Cv valve body	145	21698
599 01135	1/2" 3-way, 1.6 Cv valve body	150	21699
599 01136	1/2" 3-way, 2.5 Cv valve body	150	21700
599 01138	3/4" 3-way, 6.3 Cv valve body	290	21701

SIEMENS/POWERS SSB Series

FEATURES:

- Plenum rated
- Use with 599-01000 series valve body
- UL listed for plenum installations
- Direct-coupled for installation without tools
- Fail-in-place
- Visual position indication



SSB81U

Model	Description	List Price	SKU
SSB61U	24V supply, receives a 0-10 VDC control signal, proportional	530	21194
SSB81U	24V supply, floating control signal, 3 position control	335	21195
SSC81U	24V Actuator for NSR/Powermite Valves	260	21196

SIEMENS/POWERS Zone Valve Bodies

FEATURES:

- 24V or 120V when used with SFA Series Actuator
- Female NPT
- Metal-to-metal seating
- ANSI class III leakage rating



599-00211

Model	Description	List Price	SKU
599 00211	1/2", 2.5 Cv zone valve body	90	21676
599 00212	3/4", 4.1 Cv zone valve body	95	21677
599 00213	1", 7.0 Cv zone valve body	120	21678
599 00231	1/2", 2.5 Cv, 3-Way zone valve body	145	21679
599 00232	3/4", 4.1 Cv, 3-Way zone valve body	95	21680
599 00233	1", 7.0 Cv, 3-Way zone valve body	210	21681

SIEMENS/POWERS Zone Valve Actuator

FEATURES:

- 2-position spring return
- Manual override
- UL and CUL approved
- Visual position indication



SFA11U

Model	Voltage	Action	List Price	SKU
SFA11U	120 Vac	Normally closed	210	21187
SFA71U	24 Vac	Normally closed	230	21188
SFP11U	120 Vac	Normally open	135	21189
SFP71U	24 Vac	Normally open	280	21190

NEPTRONIC ZV SERIES
FEATURES:

- NPT female threaded
- Small size allows easier installation
- Long stroke for optimal range of control
- High close off pressure



Model	Description	List Price	SKU
VALVE ZV A005YB1	Zone Valve Body 2-Way 1/2" 0.5 CV	145	74106
VALVE ZV A007YB1	Zone Valve Body 2-Way 1/2" 0.7 CV	145	74107
VALVE ZV A012YB1	Zone Valve Body 2-Way 1/2" 1.2 CV	145	74108
VALVE ZV A018YB1	Zone Valve Body 2-Way 1/2" 1.8 CV	145	74109
VALVE ZV B029YB1	Zone Valve Body 2-Way 3/4" 2.9 CV	195	74110
VALVE ZV B046YB1	Zone Valve Body 2-Way 3/4" 4.6 CV	195	74111

NEPTRONIC X SERIES
FEATURES:

- 24VAC/VDC
- Manual Override
- 1m long cable
- Operational status LED
- Direct or Reverse acting field selectable



Model	Description	List Price	SKU
ACTE XM000	Analog modulating actuator	360	74104
ACTE XT000	Digital 3 point floating actuator	360	74105

SIEMENS / POWERS

FEATURES:

- 24V direct-coupled damper actuators
- CAV or VAV applications
- Quiet operation
- Low power consumption
- NEMA 2 housing

(GDE131.1U)
Plastic housing
GDE & GLB



Model	Description	List Price	SKU
GDE131.1U	44 lb.-in. torque, 3 position, non-spring return, 3/8"-5/8" shaft	160	21152
GLB131.1P	88 lb.-in. torque, 3 position, non-spring return, 3/8"-5/8" shaft w/plenum cable	295	21155
GMA121.1U	62 lb.-in. torque, 2 position spring return, 3/8"-5/8" shaft	475	21156

HONEYWELL

FEATURES:

- Spring return; clockwise (CW) & counter clockwise (CCW)
- 15 second spring return timing
- 95 degree angle of rotation
- 120V motors



ML4115B 1008

Model	Description	List Price	SKU
ML4115B 1008	30 lb.-in. torque, 2 position, 120V, (CW) spring return	740	21174
ML4115A 1009	30 lb.-in. torque, 2 position, 120V, (CCW) spring return	725	22104
MS4309F 1005	80 lb.-in. torque, 2 position, 120V, (CCW) spring return	940	22105

HONEYWELL

FEATURES:

- 24V
- Direct-coupled actuator
- Manual clutch lever
- Underwriter Laboratories Inc., UL rating



ML6161A 2009

Model	Description	List Price	SKU
ML6161A 2009	35 lb.-in. torque, 90 second timing, SPDT, floating and 2 position	280	22162
ML6161A 2017	35 lb.-in. torque, 7 minute timing, SPDT, floating and 2 position	290	22163

KMC CONTROLS

FEATURES:

- Direct mounting to standard shaft sizes
- 18° / minute actuator
- Mounts directly to damper shaft



MEP 5061

Model	Description	List Price	SKU
MEP 5061	3 Wire Actuator, 24VAC 50 Inch-LB.	285	21171

HONEYWELL

FEATURES:

- Honeywell's popular thermostat wire is both UL and CUL approved
- Compact roll (up to 60% space savings)



55302 55 07

Model	Description	List Price	SKU
55302 55 07	18AWG. 2 Conductor Wire, 500' Therm-Brown	255	22264
55303 55 07	18AWG. 3 Conductor Wire, 500' Therm-Brown	390	22265
55304 55 07	18AWG. 4 Conductor Wire, 250' Therm-Brown	265	22266
55305 55 07	18AWG. 5 Conductor Wire, 250' Therm-Brown	355	22267
55306 55 07	18AWG. 6 Conductor Wire, 250' Therm-Brown	395	22268
55307 55 07	18AWG. 7 Conductor Wire, 250' Therm-Brown	520	22269
55308 55 07	18AWG. 8 Conductor Wire, 250' Therm-Brown	555	22270
55310 54 07	18AWG. 10 Conductor Wire, 250' Therm-Brown	745	22271
55502 05 23	18AWG. 2 Conductor Wire, 500' Plenum Rated	565	22272
55503 05 23	18AWG. 3 Conductor Wire, 500' Plenum Rated	580	22273
55504 04 23	18AWG. 4 Conductor Wire, 250' Plenum Rated	290	22274
55505 04 23	18AWG. 5 Conductor Wire, 250' Plenum Rated	555	22275
55506 04 23	18AWG. 6 Conductor Wire, 250' Plenum Rated	650	22276
55508 04 23	18AWG. 8 Conductor Wire, 250' Plenum Rated	820	22277
10700108	14AWG. 4 Conductor Wire, 250' Mini Split Cable	1245	22259

Honeywell

THERMOSTAT WIRE

HONEYWELL

FEATURES:

- Shielded plenum thermostat wire
- Designed to give you the benefits of both shielded cable and plenum cable



75902 05 23

Model	Description	List Price	SKU
75902 05 23	18AWG. 2 Conductor Wire, 500' Roll	550	22278
75903 05 23	18AWG. 3 Conductor Wire, 500' Roll	755	22279
75904 05 23	18AWG. 4 Conductor Wire, 500' Roll	900	22280
75906 05 23	18AWG. 6 Conductor Wire, 500' Roll	1025	22282
75908 05 23	18AWG. 8 Conductor Wire, 500' Roll	1310	22283

AUTOMATIC Round Damper (ARD)

FEATURES:

- 24V, spring return damper motor
- Power closed/spring return standard. Can be field converted to power open/spring return
- Galvanized steel construction with single blade damper and gasketed stop
- Rated to operate up to 1" WC



ARD 10

Model	Description	List Price	SKU
ARD 06	06 inch	555	22284
ARD 08	08 inch	570	22138
ARD 10	10 inch	600	22139
ARD 12	12 inch	630	22140
ARD 14	14 inch	700	22141
ARD 16	16 inch	805	22285
ARD 18	18 inch	860	22286

STATIC PRESSURE Regulating Damper (SPRD)

FEATURES:

- Single blade barometric damper for air bypass
- Counter-balanced weighted arm for bypass control
- Galvanized steel construction
- Recommended for low pressure systems



SPRD 10

Model	Description	List Price	SKU
SPRD 08	08 inch	380	22143
SPRD 10	10 inch	420	22144
SPRD 12	12 inch	455	22145
SPRD 14	14 inch	455	22146

FEATURES:

- Transfers heat through wall to adjoining room
- Transfers excess heat to another room through ceiling duct
- Boosts return air to gravity flow surface
- Installs in any shape duct (round, square, rectangular, even flex)
- All fans are 115V



Booster Fan

Model	Description	List Price	SKU
Fan 06	6" booster fan, 240 CFM	145	22111
Fan 08	8" booster fan, 420 CFM	165	22112
Fan 10	10" booster fan, 650 CFM	305	22113
Fan 12	12" booster fan, 975 CFM	405	12688
Fan 14	14" booster fan, 1350 CFM	515	12689



FURNACE IGNITORS & GAS FLEX LINES

ROBERTSHAW Ignitor 41-400 Series

FEATURES:

- 41-400 Series reaches ignition temperature within 17 seconds
- 18 gauge nickel chrome lead wires
- 41-400 Series ignitors are 120 VAC models



41 414

Model	Description	List Price	SKU
41 405	Furnace ignitor 5-1/2" Lead	125	22154
41 406	Furnace ignitor 10-1/2" Lead	110	22155
41 408	Furnace ignitor 4-1/2" Lead	110	22156
41 414	Furnace ignitor 5-1/4" Lead	140	22158
SSD4K 18	18" Gas Flex Line with 1/2" valve	105	12230
SSD4K 24	24" Gas Flex Line with 1/2" valve	115	12231
SSD4K 36	36" Gas Flex Line with 1/2" valve	135	12232



SSD4K 18

PHOTOELECTRIC

FEATURES:

- Versatile mounting options: Square or rectangular configuration
- Photoelectric, integrated low-flow technology
- Increased wiring space with a newly added 3/4" conduit knockout
- 24 VAC/DC or 120 VAC
- Air velocity rating from 100 to 4000 FPM
- One easy access test/reset button and improved LED status
- Interconnect up to 50 detectors



D4120 Closed



D4120W Closed



Sampling Tube DST 3



D4120W Side



D4120W Open

TEST STATION

FEATURES OF RTS:

- UL S2522
- Includes M02-04 test magnet
- Easy mounting – wall, ceiling or single gang box



RTS151



RTS151 Key

Model	Description	List Price	SKU
D4120	Duct Smoke Detector, Photoelectric Sensing	460	21817
D4120W	Duct Smoke Detector, Photoelectric Sensing, Nema 4 watertight housing	650	21818
DST 1.5	1.5' Sampling Tube	25	21819
DST 3	3' Sampling Tube	35	21820
DST 5	5' Sampling Tube	40	21821
DST 10	10' Sampling Tube	85	21822
RTS151	Remote test station for detectors	130	21467
RTS151 Key	Remote test station for detectors with key	210	21468
RTC100	Remote test coil kit for use with the low-profile B114LP bases	170	21466
SMOKEYS	Smoke emitter cartridges, 75 second burn time	80	12394
02105	Photoelectric Ionization tester "Smoke-in-a-Can"	100	11904

Related items

Fire Caulking – Page 164



HONEYWELL TP970 Series

FEATURES:

- Honeywell's best pneumatic thermostat
- Single set point
- Wide throttling range
- Mounts vertically or horizontally



TP970A 2145



CCT735A



CCT729A

Model	Description	List Price	SKU
14004406 910	Satin chrome cover for TP970/973	110	22103
CCT729A	Pneumatic gauge port needle adapter	55	22118
CCT735A	Thermostat cover removal/calibration tool, pneumatic	30	22119
TP970A 2145	Direct acting conversion kit, 2 pipe with satin chrome cover	385	22232
TP970B 2077	Reverse acting conversion kit, 2 pipe with satin chrome cover	405	22233
TP973A 2076	Direct acting thermostat body only, 1 or 2 pipe	295	22234
TP973B 2066	Reverse acting thermostat body only, 1 or 2 pipe	250	22235

SIEMENS

THERMOSTATS

SIEMENS/POWERS 192 Series

FEATURES:

- 2 pipe thermostat
- Factory-calibrated for accuracy
- Large 1/2" set point knob
- Powerstar retroline pneumatic thermostats



192 481



192 505

Model	Description	List Price	SKU
192 202	Direct acting thermostat without cover	300	21475
192 203	Reverse acting thermostat without cover	240	21476
192 256	Blank cover for pneumatic thermostats	75	21479
192 481	1/4" Tube with spring & thermostat adapter	30	21633
192 505	5/32" Tube with spring, barbed ends	30	21634
192 623	Pneumatic allen wrench tool	40	21612
192 840	Direct acting, conversion kit with beige cover	380	21481
192 840W	Direct acting, conversion kit with white cover	385	21482
192 841	Reverse acting, conversion kit with beige cover	375	21483
192 841W	Reverse acting, conversion kit with white cover	285	21484
192 868	Thermostat cover kit with over lays	75	21485
192 868W	Thermostat cover, white for 192-840/841	105	21486
832 178	Pneumatic tools for pneumatic thermostats	120	21615

JOHNSON CONTROLS T4002 Series

FEATURES:

- 2 pipe thermostat
- Single set point
- Fahrenheit dial



T4002 301



JC 5361



JC 5309



T4000 119

Model	Description	List Price	SKU
JC 5309	Flexible Allen head screwdriver	65	12050
JC 5361	Test probe assembly for Johnson Control pneumatic thermostats	110	21617
T4000 119	Calibration wrench for Johnson Controls thermostats	35	21618
T4000 2142	Beige cover (horizontal) for Johnson Controls thermostats	75	21299
T4002 301	Direct acting thermostat conversion kit with white cover	530	21520
T4002 302	Reverse acting thermostat conversion kit with white cover	425	21521
T4002 303	Direct acting thermostat conversion kit with beige cover	530	21522
T4002 304	Reverse acting thermostat conversion kit with beige cover	420	21523
T4002 201	Direct acting thermostat without cover	405	21518
T4002 202	Reverse acting thermostat without cover	355	21519
T4100 1	Low volume output pneumatic thermostat	370	21524



THERMOSTATS

INVENSYS (Robertshaw/Barber Colman/Siebe)

FEATURES:

- Proportional temperature control
- Attractive appearance
- Kits come with various metal overlays
- 2 pipe thermostat



20 881



22 138



TK-1001

Model	Description	List Price	SKU
20 881	Calibration wrench for Invensys pneumatic thermostats	30	21613
21 933	Cover for 2211/2212 series thermostats	85	21239
22 138	Gauge adapter for Invensys pneumatic thermostats	50	21614
2211 112	One pipe direct acting, thermostat	305	21491
2211 113	One pipe reverse acting, thermostat	310	21492
2212 118	Direct acting thermostat body only	370	21493
2212 119	Reverse acting thermostat body only	370	21494
TK 1001	Direct acting thermostat, 2 pipe with cover	400	21536
TK 1101	Reverse acting thermostat, 2 pipe with cover	415	21537

Related items

Pneumatic Tubing & Fittings – Page 129



SIEMENS/POWERS

599 02000 Series

FEATURES:

- Direct-coupled bonnet, no tools required for installation
- Low leakage (ANSI Class IV)
- ANSI Class 250 body
- Use with 599 01088 pneumatic actuator
- Wide range of psi



599 02000

Model	Description	List Price	SKU
599 02000	1/2" NC, 10-15 psi, 0.4 Cv	185	21702
599 02002	1/2" NC, 10-15 psi, 0.63 Cv	230	21703
599 02002B	1/2" NC, 3-8 psi .63 Cv	185	21704
599 02004	1/2" NC, 10-15 psi, 1.0 Cv	175	21705
599 02004C	1/2" NC, 8-13 psi 1.0 Cv	185	21706
599 02006	1/2" NC, 10-15 psi, 1.6 Cv	165	21707
599 02008	1/2" NC, 10-15 psi, 2.5 Cv	235	21708
599 02008B	1/2" NC, 3-8 psi 2.5 Cv	175	21709
599 02008C	1/2" NC, 8-13 psi, 2.5 Cv	185	21710
599 02010B	1/2" NC, 3-8 psi 4.0 Cv	225	21711
599 02010C	1/2" NC, 8-13 psi 4.0 Cv	165	21712
599 02012	3/4" NC, 10-15 psi, 6.3 Cv	205	21713
599 02012B	3/4" NC, 3-8 psi 6.3 Cv	205	21714
599 02012C	3/4" NC, 8-13 psi 6.3 Cv	290	21715
599 02030	1/2" NO, 3-8 psi, 0.4 Cv	220	21717
599 02032	1/2" NO, 3-8 psi, 0.63 Cv	225	21719
599 02032C	1/2" NO, 8-13 psi .63 Cv	165	21720
599 02034	1/2" NO, 3-8 psi, 1.0 Cv	225	21721
599 02034C	1/2" NO, 8-13 psi 1.0 Cv	175	21722
599 02036	1/2" NO, 3-8 psi, 1.6 Cv	225	21723
599 02036C	1/2" NC, 8-13 psi 1.6 Cv	165	21724
599 02038	1/2" NO, 3-8 psi, 2.5 Cv	235	21725
599 02038A	1/2" NC, 10-15 psi 2.5 Cv	235	21726
599 02038C	1/2" NC, 8-13 psi 2.5 Cv	235	21727
599 02044	3/4" NO, 8-13 psi, 6.3 Cv	270	21728
599 02044A	3/4" NO, 10-15 psi 6.3 Cv	205	21729
599 02044C	3/4" NC, 8-13 psi 6.3 Cv	205	21730
599 02064	1/2" 3-way, 8-13 psi, 0.4 Cv	200	21731
599 02065	1/2" 3-way, 8-13 psi, 0.63 Cv	280	21732
599 02066	1/2" 3-way, 8-13 psi, 1.0 Cv	260	21733
599 02066B	1/2" 3-way, 3-8 psi 1.0 Cv	275	21734
599 02067	1/2" 3-way, 8-13 psi, 1.6 Cv	205	21735
599 02068	1/2" 3-way, 8-13 psi, 2.5 Cv	280	21736
599 02068A	1/2" 3-way, 10-15 psi, 2.5 Cv	200	21737
599 02068B	1/2" 3-way, 3-8 psi, 2.5 Cv	260	21738

SIEMENS/POWERS 599-01088 Series

FEATURES:

- Low profile
- All metal housing
- Freely rotates to install pneumatic tubing
- Use with 599 series valve body
- Metal housing suitable for plenum applications



599 01088

Model	Description	List Price	SKU
599 01088	2" pneumatic valve actuator	330	21199

HONEYWELL V5011N & V5013N Series

FEATURES:

- 2-Way & 3-Way
- NPT threaded globe valves
- Light and heavy-duty
- Heating & cooling



V5011N 3020

Model	Description	List Price	SKU
V5011N 1040	Globe valve 1/2", 4.7 Cv, 2-Way D.A.	200	22254
V5011N 1057	Globe valve 3/4", 7.3 Cv, 2-Way D.A.	265	22255
V5011N 3020	Globe valve 3/4", 7.3 Cv, R.A.	290	22256
V5013N 1048	Globe valve 1/2", 4.7 Cv, 3-Way mixing	210	22257
V5013N 1055	Globe valve 3/4", 7.3 Cv, 3-Way mixing	290	22258
V5013N 1063	Globe valve 1", 11.7 Cv, 3-Way mixing	455	21646

HONEYWELL Pneumatic Value Actuators

FEATURES:

- Use with the V5011N & V5013N Series valve bodies
- 5" diameter, 8" diameter, 13" diameter
- Normal stem up
- 3/4" stroke



MP953C 1018

Model	Description	List Price	SKU
MP953C 1000	Pneumatic actuator, 2-7 psi, V5011 /V5013	250	22106
MP953C 1018	Pneumatic actuator, 8-12 psi, V5011 /V5013	470	22107
MP953C 1026	Pneumatic actuator, 4-11 psi, V5011 /V5013	230	22108

INVENSYS Pneumatic Valves

FEATURES:

- 2-Way & 3-Way
- Bronze globe valves
- Normally open / normally closed



VB7223 044

Model	Description	List Price	SKU
VB7213 046	Globe 3/4", 7.5 Cv, 2-Way, NC valve body	315	21750
VB7213 048	Globe 1", 14 Cv, 2-Way, NC, valve body	420	21751
VB7223 044	Globe 1/2", 4.4 Cv, 2-Way, NC, valve body	325	21753
VB7313 044	Globe 1/2", 3-Way, valve body	365	21757
VB7313 046	Globe 3/4", 7.5 Cv, 3-Way, NPT connections	410	21758
VB7314 046	Globe 3/4", 7.5 Cv, 3-Way, union sweat body	655	21759

HYDRAULIC/PNEUMATIC VALVE ACTUATORS

INVENSYS

MK 2690 FEATURES:

- Rugged die cast aluminum housing
- Compact size with 6 in.² (39cm²) effective area
- Use with VB7000 Series pneumatic valve body



MK 2690



MP 5213

Model	Description	List Price	SKU
AV 400	Linkage kit for MK 2690 actuator	75	21328
AV 401	Linkage kit for MK 4601 actuator	75	21329
MK 2690	Pneumatic valve actuator for VB7000 series	255	21207
MK 4601	Pneumatic actuator 3-6 psi	325	21208
MP 5213	Hydraulic actuator 24V	680	21178
MP 5410	Hydraulic actuator 120V	1130	21179

JOHNSON CONTROLS

FEATURES:

- Rugged die-cast actuator enclosure
- Fits VG7000 valves
- Controls fluid temperatures from 35° to 284°F
- Controls saturated steam up to 38 psig
- Maximum supply air pressure: 25 psig (172 kPa)
- ANSI Class 250
- Factory or field assembly



VG7241

Model	Description	List Price	SKU
VG7241ET+3008E	1/2" 2-Way, NO valve/actuator combo, 1.8Cv, 9-13 psi	745	21784
VG7441ET+3008E	1/2" 2-Way, NC valve/actuator combo, 1.8Cv, 9-13 psi	780	21788
VG7842ET+3008E	1/2" 3-Way mixing, valve/actuator combo, 1.8Cv, 9-13 psi	805	21789

VALVE SPRING RANGE ASSEMBLY KITS

JOHNSON CONTROLS

FEATURES:

- Complete family of 1/2" through 2" bronze valves, brass and stainless steel trim with several styles of electric and pneumatic actuators
- Standard bonnet and stem design
- Every valve tested for tight shut-off



VG7000 1001

Model	Description	List Price	SKU
VG7000 1001	Mounting spring kit linkage, 3-6 psi	130	21781
VG7000 1002	Mounting spring kit linkage, 4-8 psi	130	21782

PNEUMATIC VALVE BODIES

KMC CONTROLS

FEATURES:

- Single seat normally open
- Modulating plugs
- Stainless steel stems



61290232

Model	Description	List Price	SKU
61290232	1/2", 2-Way, NO, 2.3 Cv, 8-13 psi valve	555	21775

KMC CONTROLS
FEATURES:

- Allows gradual or two-position operation
- Variety of spring ranges, mounting brackets and linkages provide flexibility
- Internal spring



MCP 1030 3111



MCP 3631 3000

Model	Description	List Price	SKU
MCP 1030 3111	Pneumatic actuator 3" stroke, 5-10 psi	725	21201
MCP 1040 5211	Pneumatic actuator 4" stroke, 8-13 psi	620	21202
MCP 3631 3000	Rotary pneumatic actuator 5-10 psi	280	21204

Honeywell
PNEUMATIC ACTUATORS
HONEYWELL MP909 Series
FEATURES:

- Low-friction shaft bearing
- Pneumatic proportional control
- Close tolerance on operation range and stroke
- Versatile mounting and connecting hardware



MP909D 1219



MP909E 1018

Model	Description	List Price	SKU
MP909D 1219	2.4" stroke, 8 to 13 psi, ribbed aluminum body (beer can actuator)	155	22164
MP909D 1227	2.4" stroke, 5 to 10 psi, ribbed aluminum body	155	22165
MP909E 1018	4" stroke, 3 to 13 psi, with external mounting bracket and ball joint	470	22166
MP918B 1063	3.5 " stroke, 5 to 10 psi, with external mounting bracket	590	22167

HONEYWELL

FEATURES:

- Reverse acting
- Inline, wall or panel mounted with provided mounting clip
- Molded plastic construction with neoprene diaphragm



RP972A 1006

Model	Description	List Price	SKU
RP972A 1006	Wall, in-line, or panel mounted pneumatic reversing relay	185	22190

SIEMENS

PNEUMATIC REVERSE ACTING RELAY

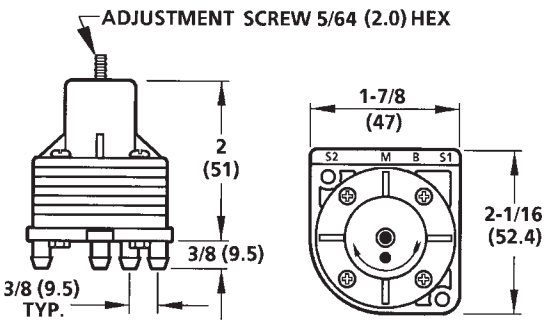
SIEMENS / POWERS 243 Series

FEATURES:

- Field adjustable spring range
- Can be mounted in any position
- Light weight and compact
- Internal relief provides fail-safe operation



243 0024



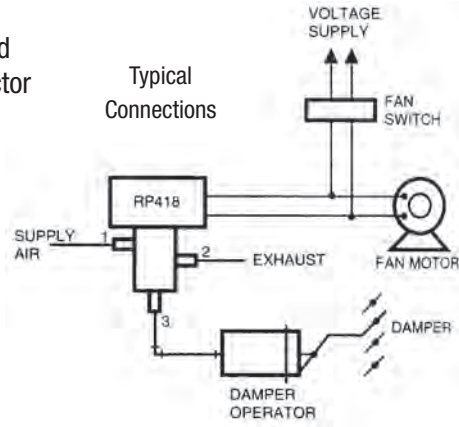
Dimensions shown in inches (mm)

Model	Description	List Price	SKU
243 0024	Reverse Acting Relay	290	21424

HONEYWELL RP418 Series

FEATURES:

- Mount and operate in any position
- 3-way valves – NO/NC/Common
- Pneumatic connectors: 1/4" barbed
- Usable as a diverting relay, a selector relay, or a stop and bleed relay



RP418A 1107



RP418B 1071

Model	Description	List Price	SKU
RP418A 1107	Surface mounting, 120 VAC, standard model, with splice box	110	22188
RP418B 1071	Panel mounting, 120 VAC standard model, open coil, no splice box	105	22189

SIEMENS

ELECTRIC TO PNEUMATIC RELAYS

SIEMENS / POWERS 265 Series

FEATURES:

- Valves may be mounted in any position
- Wide selection of AC voltages
- Pneumatic connectors: 1/4" barbed
- 3-Way valves – NO/NC/Common



265 1001

Model	Description	List Price	SKU
265 1001	2-Position 1/4" EP valve, barbed, 24V, 3-Way	145	21665
265 1002	2-Position 1/4" EP valve, barbed, 120V, 3-Way	170	21666
265 1003	2-Position 1/4" EP valve, barbed, 208V, 3-Way	140	21667
265 1005	2-Position 1/4" EP valve, barbed, 277V, 3-Way	205	21669

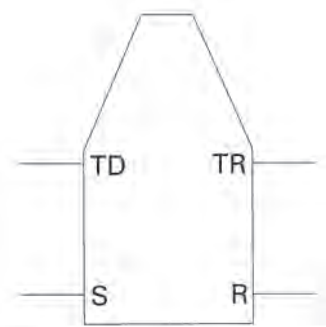
SIEMENS / POWERS 243 Series

FEATURES:

- Use for your most common applications (boo-boo relay)
- Internal relief mechanism for fail-safe operation
- Spring range 0 to 25 psi (0 to 172 kPa)
- Connections: Barbed for 1/4" (6mm) polyethylene tubing



243 0046



- R = output
- TD = direct acting input
- TR = reverse acting input
- S = air supply

Typical Connections

Model	Description	List Price	SKU
243 0046	Multi-purpose relay (commercial duty)	250	21425

JOHNSON CONTROLS

FEATURES:

- Positive air seal
- Compact and light weight
- 277V, 50/60HZ, 30 psi



V11HFA 100

Model	Description	List Price	SKU
V11HFA 100	3-Way Solenoid Air Valve, 277V, 30 psi	750	21636

Related items

Pneumatic Tubing & Fittings – Page 129



DWYER MAGNEHELIC GAUGES & ACCESSORIES

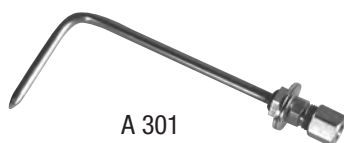

2001



2002



2003



A 301



A 302



A 605



A 432



A 350



2301

Model	Description	List Price	SKU
2001	Magnehelic gauge, 0-1.0 inch W.C.	445	21253
2002	Magnehelic gauge, 0-2.0 inch W.C.	405	21254
2003	Magnehelic gauge, 0-3.0 inch W.C.	375	21255
2301	Magnehelic gauge, -.5 - .5 inch W.C.	445	21257
A 301	Static pressure tip for 1/4" tubing	60	21258
A 302	Static pressure tip with 1/4" barbed end	55	21259
A 350	Squeeze Bulb pressure source	120	21260
A 432	Portable kit and Magnehelic case	225	21261
A 605	Magnehelic air filter kit	195	21263

JOHNSON CONTROLS

FEATURES:

- Universal mounting
- Full adjustability through all pressure ranges
- Long-life contact structure



P100AA 2C



P70AA 118C



P70CA 1C



P70MA 18C

Model	Switch Action	Range psi (kPa)	Differential psi (kPa)	Pressure Connector	List Price	SKU
P70AA 118C	Close High Open Low	100 to 400 (690 to 2758)	Min 35 (241) Max 200 (1379)	36" cap with 1/4" flare nut	210	21372
P70CA 1C	Open High Close Low	20 in. to 100 (-68 to 690)	Min 6 (41) Max 50 (345)	36" cap with 1/4" flare nut	225	21373
P70MA 18C	SPST	12 in. to 80 Low 100 to 500 High	Min 5 (34) Max 35 (241) Lockout	36" cap with 1/4" flare nut	390	21374
P100AA 2C	Open or Pressure drop	35-60	—	48" lead wire with 1/4" SAE female fit	175	21364
P100AA 4C	Open or Pressure Drop	170 - 250	—	48" lead wire with 1/4" SAE female fit	175	21366
P100CA 2C	Close High Open Low	325 - 425	—	48" lead wire with 1/4" SAE female fit	235	21367
P100DA 1C	Open or Pressure Drop	410 - Lockout Manual Reset	—	48" lead wire with 1/4" SAE female fit	225	21368
P100DA 2C	Open or Pressure Drop	475 - Lockout Manual Reset	—	48" lead wire with 1/4" SAE female fit	200	21369
170AA 400C	Close High Open Low	100 - 400	Min 35 (241) Max 200 (1379)	1/4" male flare connector	220	21370
P45NCA 12C	—	50 - 400	Min 7 Max 60	36" cap with 1/4" flare nut	440	21371

DIFFERENTIAL PRESSURE FLOW SENSORS

FEATURES of SSS:

- Used to sense and supply differential pressure signals
- Many insertion depths

SSS 1005



SSS 1002

Model	Insertion Depth	Sensing Points	List Price	SKU
SSS 1002	3-5/32"	1	95	21447
SSS 1003	5-13/32"	2	70	21448
SSS 1004	7-21/32"	3	85	21449
SSS 1005	9-29/32"	4	100	21450

Model	Description	List Price	SKU
CEP 4011	VAV Flow Controller, CW, with SSE-1001	1180	21223
CEP 4012	VAV Flow Controller, CW, with SSE-1002	1355	21224
CSC 2004	RA/NC Reset Volume Controller	385	21243
CSE 1102	Differential Pressure Switch	255	21212
SSE 1001	3 Wire Sensor for Analog Controller	185	21445
SSE 1002	Electric Sensor 8"	215	21446

HONEYWELL TUBING FEATURES:

- Fire retardant, self-extinguishing, prevents fire propagation, solid black

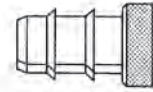
PARKER PNEUMATIC FITTINGS FEATURES:

- Convenient packs of 10
- Dubl-Barb® fittings
- Working pressures up to 150 psi
- Temperature range from -65°F to 90°F
- Compact, one-piece, push-on barbed fitting for a quick, economical connection to polyethylene tubing

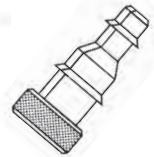
Model	Description	List Price	SKU
1219 13004	5/32" O.D. x .030 wall, 500' roll	235	22248
1219 130T4	Twin Tube, 5/32" O.D. x .030 wall, 500' roll	595	22249
1219 44003	1/4" O.D. x .040 wall, 250' roll	135	22250
1219 440T3	Twin Tube, 1/4" O.D. x .040 wall, 250' roll	470	22251
20 4	1/4" barbed plug 10 pk	35	11457
20 4 5/32	1/4"– 5/32" universal barbed plug 10 pk	75	11458
20 6	3/8" barbed plug 10 pk	40	11459
20 693	1/8" Tubing w/Spring for Pneumatic Thermostats	30	21635
22 4	1/4"x 1/4" barbed union 10 pk	35	11461
22 4 5/32	1/4"x 5/32" barbed union reducer 10 pk	40	11462
22 4 6	1/4"x 3/8" barbed union reducer 10 pk	50	11464
22 4 8	1/4"x 1/2" barbed union reducer 10 pk	105	11465
22 5/32	5/32"x 5/32" barbed union 10 pk	35	11466
22 6	3/8"x 3/8" barbed union 10 pk	45	11468
22 6 8	3/8"x 1/2" barbed union reducer 10 pk	100	11469
141 0601	Siemens Pneumatic Fitting Kit	1570	21282
224 4	1/4" barbed union tee 10 pk	95	11471
224 4 4 5/32	1/4"x 1/4"x 5/32" barbed union tee 10 pk	125	11472
224 5/32	5/32" barbed union tee 10 pk	110	11473
224 6	3/8" barbed union tee 10 pk	115	11474
224 6 6 4	3/8"x 3/8"x 1/4" barbed union tee 10 pk	85	11475
225 4 4	1/4" barbed union elbow 10 pk	90	11477
225 5/32	5/32" barbed union elbow 10 pk	125	11478
225 6 6	3/8" barbed union elbow 10 pk	145	11479
28 4 4	1/4" barbed to 1/4" pipe thread 10 pk	95	11482
28 6 4	3/8" barbed to 1/4" pipe thread 10 pk	90	11484
22BH 4 4	1/4" barbed bulkhead fitting 10 pk	130	11480
22CA 4 4	1/4" barbed to 1/4" comp. 10 pk	115	11481
62CA 6	3/8" Compression Union *sold as each	15	11485
220 4 2	Gauge Tee 1/8" female NPT, 1/4" barbed 10 pk	35	11470
832 177	Siemens Calibration Kit	785	21377
832 1000	Universal Pneumatic Calibration Kit	1005	21376
G97032	Pete's Plug Adapter, 1/4" male, 2-pack	235	11697
K335	Pneumatic In-Line Air Filter, 1/4"	40	21281
N7602	Petes Plug *sold as each	65	11699
R3710 3007	Restrictor tee, .007, 10 pk	55	21410



1219-44003



20 4



20 4 5/32



22 4



22BH 4 4



K335



832 177



141 0601

TRANSFORMERS

Model	VA	Primary Voltage	Secondary Voltage	List Price	SKU
T2401	40	120	24V	60	22240
T2402	40	277	24V	80	22241
T2404	40	120/208/240	24V	55	22243
T5401*	40	120	24V	85	22244
T5402	40	208/240	24V	75	22245
T5403	50	120/208/240	24V	30	22246
T7752	75	120/208/240/480	24V	185	22247
10041C	100	120/208/240/480	24V	185	21622
AT150F 1022	50	120/208/240	24V	130	22237
AT150F 1030	50	208/277/480	24V	125	22238



T2401



T2402



T2404



T5401*



T5402



T5403



T7752



10041C



AT150F 1022



AT150F 1030

FOOTNOTE:

* Transformer used in Titus control boxes

SQUARE D: Definite Purpose Contactors

Model	FLA	Coil VAC	Pole	List Price	SKU
DP30224	30	24V	2	60	22122
DP40224	40	24V	2	110	22126
DP60324	60	24V	3	435	22135



(DP30224)
Two Pole
Small Frame



(DP60324)
Three Pole
Large Frame

AUXILIARY CONTACTS

AUXILIARY CONTACTS: For 20-90 Amp 3-pole contactors

Model	Contacts	Amperage	Standard Pack	List Price	SKU
D10	1-NO	20-90	1	55	22120
D11	1-NO, 1-NC	20-90	1	105	22121

GENERAL PURPOSE RELAYS



Series 8400/9400



90 340

Series 8400

Model	Switching	Amps Res/IND	Coil Voltage	List Price	SKU
90 290Q	SPST, NO	16/8	24 VAC	55	22180
90 293Q	SPDT	8/8	24 VAC	55	22182

Series 9400

Model	Switching	Amps Res/IND	Coil Voltage	List Price	SKU
90 370	SPDT	18	24 VAC	60	22183
90 380	SPST, NO+NC	18	24 VAC	55	22185

General Purpose Switching Relay
Double Pole, Double Throw

Model	Coil Voltage	Terminal 1-2-3	Terminal 4-5-6	List Price	SKU
90 340	24 VAC	Power	Power	70	22177



623 Series

Model	Description	Standard Pack	List Price	SKU
623 001	Gray, #22 to 16 AWG	100/Box	18	12610
623 002	Blue, #22 to 16 AWG	100/Box	20	12612
623 003	Orange, #22 to 14 AWG	100/Box	250	12613
623 004	Yellow, #18 to 10 AWG	100/Box	30	12614
623 005	Red, #18 to 10 AWG	100/Box	35	12615

ELECTRICAL ACCESSORIES

Model	Description	List Price	SKU
PIGTAIL 8065	115V, 6 foot with 90° plug	25	21375
C4312050L	50 foot extension cord	345	11361
620 202	Electrical "J" box, 2-1/8" deep, 1/2" knockouts	15	12205
620 254	Flat blank cover 2"x 4" for electrical "J" box	5	12206
SWITCH 20A	20 Amp, On/Off toggle disconnect	60	61181
Wire Stripper	20-10 AWG Wire Stripper/Cutter	50	12611
Worklight	Heavy-duty Worklight, 25 foot	95	12098
PA25	450 Terminals (25 of each kind)	265	22218
6 T744	Pocket 4-in-1 mini Screw Driver, 5-1/8"	25	12512
6 in 1	6-in-1 Screw Driver	30	12017



C4312050L



PIGTAIL 8065



620 202/254



SWITCH 20A



Wire Stripper



PA25



Work light



6 in 1

COOPER BUSSMAN

Time-delay Class RK5 Fuse

Model	Ampere	Volt	List Price	SKU
HAS R 25	25A	600V	23	11530
HAS R 30	30A	600V	61	11531
HAS R 35	35A	600V	39	11532
HAS R 40	40A	600V	20	11533
HAS R 45	45A	600V	20	11534
HAS R 50	50A	600V	20	11535
HAS R 60	60A	600V	39	11536



HAS R 60

Time-delay Class RK5 Fuse

Model	Ampere	Volt	List Price	SKU
HAC R 20	20A	250V	14	12220
HAC R 25	25A	250V	12	12221
HAC R 30	30A	250V	12	12222
HAC R 35	35A	250V	19	12223
HAC R 40	40A	250V	20	12224
HAC R 45	45A	250V	19	12225
HAC R 50	50A	250V	19	12226
HAC R 60	60A	250V	24	12227
HAC R 80	80A	250V	25	11526



HAC R 60

Blade Type Fuse (Plug-In)

Model	Ampere	Volt	List Price	SKU
B3	3	32V	25	12217
B5	5	32V	25	12218



B5

SPEED CONTROLLER

Model	Description	List Price	SKU
SSC 06 AMP	6 Amp, solid-state speed controller, 120V	125	31439
SSC 06 AMP 230V	6 Amp, solid-state speed controller, 230V	150	31440
SSC 10 AMP	10 Amp, solid-state speed controller, 120V	175	31294
SSC 15 AMP	15 Amp, solid-state speed controller, 120V	250	31441



SSC 06 AMP

FEATURES:

- Class H fuse clips are provided (fuses not included)
- Fuses are installed behind the protective shield that cannot be removed until the pullout handle is removed
- On/Off control provided by pullout handle



8062



8063

Model	Description	List Price	SKU
8062	30 Amp fuse box with pullouts	70	21289
8063	60 Amp fuse box with pullouts	65	21290
DG321NRB	30 Amp 3PH NEMA 3R Disconnect	425	21291
DG322NRB	60 Amp 3PH NEMA 3R Disconnect	645	21293

FEATURES OF WHIPS:

- Liquid-tight flexible conduit system
- Used on A/C units, mini-splits, refrigeration, swimming pools, and outdoor lighting
- Three distinct colors for easy hook-up
- Non-metallic connectors



Whip 1/2



Liquid Tight 3/4C



SPP6



Liquid Tight 3/4E

Model	Description	List Price	SKU
SPP6	Hard Start Kit 2 Wire 390 Torque	90	22152
Whip 1/2	1/2" x 6', #10 THHN wire	65	12607
Whip 3/4	3/4" x 6', #10 THHN wire	95	12608
Liquid Tight 1/2	Liquid-Tight Conduit (sold per foot)	2	12274
Liquid Tight 1/2C	1/2" Liquid-Tight Conduit (100 foot roll)	260	12275
Liquid Tight 1/2E	1/2" Liquid-Tight non-met 90 Elbow	10	12276
Liquid Tight 1/2S	1/2" Liquid-Tight, non-met straight	5	12278
Liquid Tight 3/4	Liquid-Tight Conduit (sold per foot)	3	12279
Liquid Tight 3/4C	3/4" Liquid-Tight Conduit (100 foot roll)	355	12280
Liquid Tight 3/4E	3/4" Liquid-Tight non-met 90 Elbow	15	12281
Liquid Tight 3/4R	3/4" Liquid-Tight Conduit (50 foot roll)	190	12282
Liquid Tight 3/4S	3/4" Liquid-Tight, non-met straight	10	12283

DIRECT DRIVE, MULTIPLE HORSEPOWER, FURNACE BLOWER MOTORS

Model	HP	Voltage	Speed	List Price	SKU
WG840466	3/4, 1/2, 1/3, 1/4	115	1075/4	510	12118
WG840467	3/4, 1/2, 1/3, 1/4	208-230	1075/4	510	12119



WG840466

CONDENSER FAN MOTORS

Model	HP	Voltage	Speed	List Price	SKU
WG840468	1/2, 1/3, 1/4	208-230	1075/2	390	12143



WG840468

BRACKET

Model	Description	List Price	SKU
A60306K	3 Lug Mount Motor Bracket/48 Frame	50	12130



A60306K

CAPACITORS

Model	Description	List Price	SKU
37050H	Run Capacitor, 5 MFD	25	22114
37075H	Run Capacitor, 7.5 MFD	25	22115
37100H	Run Capacitor, 10 MFD	25	22116
37150H	Run Capacitor, 15 MFD	30	22117
CAP TURBO 200	Run Capacitor, 5/7.5/10-50 MFD	260	21222
CAP TURBO MINI	Run Capacitor, 2.5 – 12.5 MFD	45	11310
CAP TURBO JR	Start Capacitor, 23 – 43 MFD	180	13106

37050H



CAP TURBO 200



CAP TURBO MINI



CAP TURBO JR

HVAC-R SERVICE TOOLS AND ACCESSORIES

Model	Description	List Price	SKU
21986	72" long (red/yellow/blue) 3-pack, 1/4" Hose Set	238	12247
19109	Straight Quick Coupler	60	12245
18975	Charge value core remover	210	12454
T300	Universal fin comb with bicycle handle	70	12583
T 100	Multi-head fin tool	55	12582
41219	41-Series Manifold with 72" hoses	315	12250
60290	3/4" to 1-1/8" large flaring tool	460	12520
60380	5/8" to 7/8" copper tube bender	840	12521
60390	1/4", 5/16", 3/8" 3-in-1 tube bender	165	12522
60210	3/16" - 5/8" heavy-duty flaring tool	135	12519
19090	Snap-It quick coupler straight	145	12244
19173	5/16" female quick coupler x 1/4" male flare, R410A Coupler	65	12246
22986	1/4" low-loss hose set, 3 Pack	415	12248
29980	1/4" flexflow with ball valve, 3 Pack	280	12249
49001	, 2-1/2", 0-500 psi, RED manifold gauge	32	12251
49002	2-1/2", 30"-0-120 psi, BLUE manifold gauge	32	12252
49515	Liquid filled RED gauge, 0-500 psi	250	12258
49516	Liquid filled gauge, 30"-0-120 psi	250	12259
49977	R-22/R-410A manifold with liquid filled gauges and 60" hoses	795	12262



19173



18975



22986



29980



49515



60390



T300



T 100



69228



69522



69793



69096



69792



69080



60210



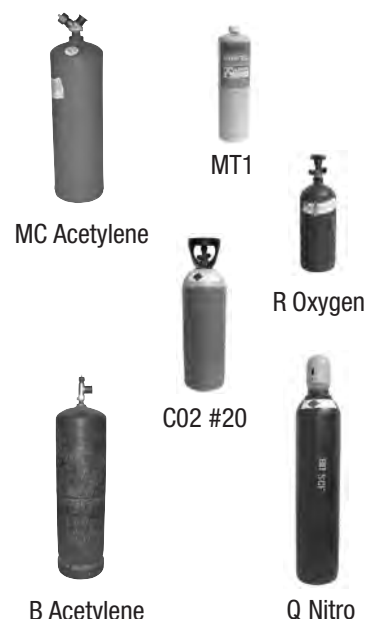
68802



93191

Model	Description	List Price	SKU
60210	Heavy-duty flaring tool, 3/16" - 5/8"	135	12519
68802	110 lb. electronic scale with case	830	12370
69080	Compact LCD vacuum gauge	525	12233
69096	Digital press. temperature chart	170	12529
69228	-40 ft. to 932 ft., pistol grip infrared	845	12263
69522	Adapter cord-test connector,120/240	105	12264
69792	Micro LED high-intensity clear lamp	20	12531
69793	Pouch for LED flashlight	25	12265
93191	Vacuum pump oil, 1-pint	15	12294
93092	Vacuum pump oil, 1-quart	33	12292
93094	Vacuum pump oil, 1-gallon	125	12293

Model	Description	List Price	SKU
MT1	MAPP Gas 16 oz. bottle	65	12228
PT1	Propane Gas 14.1oz. bottle	45	12229
R Oxygen EX	R Oxygen (20 CF) exchange bottle with gas	45	11554
R Oxygen Out	R Oxygen (20 CF) outright bottle with gas	470	11555
MC Acet EX	MC Acetylene exchange bottle with gas	92	11550
MCAcetOUT	MC Acetylene outright bottle with gas	340	11551
B Acet EX	B Acetylene exchange bottle with gas	175	11542
B Acet OUT	B Acetylene outright bottle with gas	470	11543
C02 10# EX	C02 (10#) exchange bottle with gas	60	11545
C02 10# Out	C02 (10#) outright bottle with gas	555	11546
C02 20# EX	C02 (20#) exchange bottle with gas	75	11548
C02 20# Out	C02 (20#) outright bottle with gas	750	11549
55 Nitro EX	55 Nitrogen (55 CF) exchange bottle with gas	65	11540
55 Nitro Out	55 Nitrogen (55 CF) outright bottle with gas	640	11541
Q Nitro EX	Q Nitrogen (80 CF) exchange bottle with gas	105	11552
Q Nitro Out	Q Nitrogen (80 CF) outright bottle with gas	875	11553



REHVAC MFG

REGULATOR & BLOWGUN KIT

FEATURES:

- CB-2 kit includes adjustable pressure regulator Multi-Gas CO₂/nitrogen connection 10 foot straight hose, blowgun, whip hose, 1/2" and 3/4" rubber cones, tire chuck and needle tip.

Model	Description	List Price	SKU
CB 2	Regulator & Blowgun kit	1055	11849



CB-2



REFRIGERANT

FEATURES:

- US manufactured product
- Meets all federal specs
- Savings on pallet lots
- Filling the needs of the HVAC-R industry



R22

Model	Description	List Price	SKU
R22 30	R22 Refrigerant 30 lb.	965	12341
R134A 30	R134A Refrigerant 30 lb.	615	12340
R401A 30	R401A Refrigerant 30 lb.	170	12342
R402A 27	R402A Refrigerant 27 lb.	1130	12343
R408A 24	R408A Refrigerant 24 lb.	450	12346
R409A 30	R409A Refrigerant 30 lb.	1165	12347
R410A 25	R410A Refrigerant 25 lb. (Puron)	1095	12348
17105	30 lb. Refillable Refrigerant Tank	465	12416
17506	50 lb. Refillable Refrigerant Tank	595	11991

A/C DRYERS



SLD 137SVHH



BF163S

Model	Description	List Price	SKU
053S	Liquid line dryer, 1 ton, 3/8" ODF	50	12191
083S	Liquid line dryer, 3 ton, 3/8" ODF	95	12193
163S	Liquid line dryer, 6 ton, 3/8" ODF	100	12195
BF163S	Bi-flow dryer, 3 ton, 3/8" ODF	190	12198
164S	Liquid Line Dryer, 6 Ton, 1/2" SWT	75	12196
SLD 137SVHH	Suction line dryer, 7 ton, 7/8" ODF	195	12202
Sight PSG 3S	Sight Glass Moisture Indicator, 3/8"	75	12390
DPCX48	High capacity dryer shell core	100	12200

MARSH INSTRUMENTS

GAUGES

PRESSURE GAUGES

1/4" NPT bottom connection



J4646

Model	PSI/kPa	Dial Size	List Price	SKU
J4646	0-60 psi	2-1/2"	35	11565
J4648	0-100 psi	2-1/2"	35	11566
J9046	0-60 psi	4-1/2"	35	11567

REFRIGERATION

0

GAUGES

PRESSURE GAUGES



JC 5310

Model	PSI/kPa	Dial Size	List Price	SKU
JC 5310	0-30 psi	1/8" NPT Back	110	21616

HOFFMAN

WATER MAIN VENT VALVE

FEATURES:

- For use on hot, cold, or glycol water mains and process applications with specific gravity greater than 0.7
- Built-in check valve
- Maximum temperature 250°F (121°C)
- Maximum operating pressure 75 psig (5.2 Bar)



#79

Model	Description	List Price	SKU
#79	Water main vent valve	550	21307

Bell & Gossett®

PRESSURE REDUCING STATION

FEATURES:

- Fast-fill feature reduces start-up time and labor
- Convenient cleanable strainer is designed to prevent dirt and sediment from entering the system
- Union connection available with male NPT thread and female sweat tail-piece for fast, flexible system connection
- Maximum operating pressure 125 psig



110197

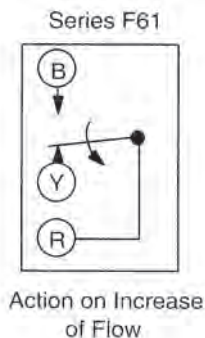
Model	Description	List Price	SKU
110197	Pressure reducing station	610	21662

JOHNSON CONTROLS

FLOW & TEMPERATURE CONTROLS

FEATURES OF THE F61 SERIES:

- Stainless steel paddle made in three segments for use in pipes from 1" to 6" diameter
- Paddle segments may be removed or trimmed as needed
- Use on lines carrying water or ethylene glycol



F61KB 11C



A419ABC 1C

Model	Description	List Price	SKU
F61KB 11C	Standard flow rate, NEMA 1 enclosure, 1" NPT	305	21278
A419ABC 1C	Temperature control with display -30° / 212°F	265	21592
A19ABC 24	Temperature control -30° / 100° F, 8" cap	150	21588
V46AC 1C	Water regulating valve 3/4" NPT	545	21746



“NPT” BALL VALVES

Model	Description	List Price	SKU
T5852	1/4" NPT, ball valve (full port)	55	11225
T5805	1/2" NPT, ball valve (full port)	39	11223
T5807	3/4" NPT, ball valve (full port)	54	11224
T58010	1" NPT, ball valve (full port)	65	11222



T5807



S5805

SWEAT BRASS BALL VALVES

Model	Description	List Price	SKU
S5805	1/2" sweat ball valve (full port)	35	11220
S5807	3/4" sweat ball valve (full port)	48	11221

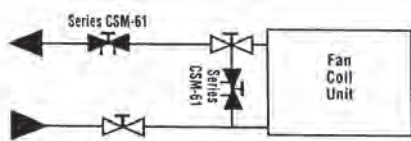


“ODF” BALL & CALIBRATED BALANCE VALVES

CALIBRATED BALANCE

VALVE FEATURES:

- Bi-directional flow
- Positive shut-off
- Safe “blowout” proof design
- Easy-to-use memory



CSM 61S 1/2

Model	Description	List Price	SKU
CSM 61S 1/2	1/2" sweat circuit setter	320	21232
CSM 61S 3/4	3/4" sweat circuit setter	345	21233
CSM 61S 1	1" sweat circuit setter	457	21234



CONDENSATE PUMPS

Model	Description	List Price	SKU
CP 22T	115V 22 ft. Lift, Cond. pump, with Tubing	250	22169
CP 22T 230	230V 22 ft. Lift, Cond. pump, with Tubing	330	22170
A2 SA 115V	115V Hi-Temp., 20 ft. Lift, max temp. 212°F	1280	11792
A2 SA 230V	High temperature Cond. pump, 230V, 212°F	1285	11793
CP 22LP	115V 22 ft. Lift, Cond. pump, Low Profile	270	22168
CP 22LP 230	230V 22 ft. Lift, Cond. pump, Low Profile	280	12337
KTP20X 2ULT	230V 20 ft. Lift, with Tubing	334	11795
DRAIN PAN 1838	18"x 38" A/C Cond. Drain Pan	90	12189
FLOAT VALVE 1/4	1/4" Float valve for flow control	85	11492
2038C	3/8" Clear Tubing, (sold per foot)	1	12600



KTP20X 2ULT



A2 SA 115V



CP 22LP

MAKITA USA, INC.

Power tools and accessories

- Ask for Makita Specials!

Model	Description	List Price	SKU
BDF452ZW	18V Cordless LXT, Driver (Tool Only)	530	11748
BHP451Z	18V Lithium-Ion Hammer Drill Kit (Tool Only)	660	11751
BTD142HW	18V Cordless Lithium-Ion Impact Kit	1330	11763
BTD144Z	18V Cordless LXT, Impact (Tool Only)	860	11762
BTL061Z	1/2" 18V LXT Angle Impact Drill (Tool Only)	860	11766
BTP140Z	18V LXT Hybrid Impact-Hammer Drill (Tool Only)	1130	11767
LCT200W	18V, Lithium-Ion Black/White Drill Kit	1595	11779
LCT300W	18V, 3-PC, Lithium-Ion, Black/White Combo Kit	1725	11780



BDF452ZW



BHP451Z



BTD144Z



BTD142HW



BTL061Z



BTP140Z



LCT200W



LCT300W

MAKITA USA, INC.

Power tools and accessories

- Ask for Makita Specials!

Model	Description	List Price	SKU
DA3010F	Angle Drill – 3/8", Angle Drill with light	805	11769
JS1300	Straight Shear – center cut to 18 gauge	1220	11777
BCL180ZW	Blower – 18V, cordless, no battery (Tool only)	395	13299
BCS550Z	18V Lithium-Ion Metal Cutting Saw (Tool only)	860	13182
BGA452	18V Lithium-Ion 4-1/2" Cut-Off Angle Grinder Kit	1445	11749
BGA452Z	18V Lithium-Ion 4-1/2" Grinder (Tool only)	530	11750
BHR240Z	18V Lithium-Ion Rotary Hammer (Tool only)	1700	11752
BJR182Z	18V Lithium-Ion Recipro Saw (Tool only)	530	13289
BJS130Z	18V Lithium-Ion, Cordless, Straight Shear (Tool only)	1660	11755
BMR100W	Jobsite Radio with 2 Auxillary Plug locations	530	11756
BPB180Z	18V Lithium-Ion Cordless Band Saw (Tool only)	1660	11758
BSS610Z	18V Lithium-Ion 6-1/2" Circular Saw (Tool only)	795	11759



DA3010F



JS1300



BCL180ZW



BCS550



BGA452



BHR240Z



BJR182Z



BJS130Z



BMR100W



BPB180Z



BSS610Z

MAKITA USA, INC.

Power tools and accessories

- Ask for Makita Specials!

Model	Description	List Price	SKU
193158 3	14V Battery, 2.6	450	13307
193157 5	12V Battery, 2.6	430	13306
193205 0	Interchangeable Battery Adapter	15	11113
194230 4	18 Volt Lithium-Ion Battery, 2 Pack	1000	11115
784211 A 250	Phillips Insert Bit	2	11149
784305 A	Phillips Power Bit, 3-1/2" Long	13	11151
784308 A	Phillips Power Bit, 6" Long	15	11152
785508 AA	9 pc. 3/8" Impact Socket Set	160	11156
792742 7	Right Side Blade for the JS1300	215	11148
792743 5	Left Side Blade for the JS1300	215	11157
792744 3	Center Blade for the JS1300	230	11158
DC1804	Battery Charger – 7.2 Volt thru 18 Volt	325	11174
DC1822	Automotive Battery Charger 7.2 Volt thru 18 Volt	325	11175
DC18RA	NI-MH/Lithium-Ion 7.2 Volt thru 18 Volt Battery Charger	575	11176



193158 3



193157 5



DC1822



DC18RA



DC1804

MAKITA USA, INC.

Power tools accessories

- Ask for Makita Specials!

Model	Description	List Price	SKU
192048 7	Drill Chuck – 9 Volt and 14 Volt impact	185	11108
711492 A	Step Drill Bit – 1/8" thru 1/2"	130	11138
711493 A	Step Drill Bit – 1/4" thru 3/4"	175	11139
711494 A	Step Drill Bit – 1/4" thru 1-1/4"	280	11140
714000 AA	Hole Saw Kit – 7 piece	145	11141
714171 A	Spade Bit Kit – 6 piece	55	11142
723019 K 2	Recipro Saw Blade – 4 inch (for metal)	15	11143
723066 A 5	6 inch, 18TPI Recipro Blade for metal	50	11144
723067 A 5	Recipro Saw Blade – 6 inch (for metal)	50	11145
723072 A 3	Recipro Saw Blade – 6 inch "Demolisher"	59	11146
723074 A 3	Recipro Saw Blade – 12 inch "Demolisher"	90	11147
784811 C	"Stubby" Finder/Driver	21	11153
784814 A	"Vision" Finder Driver	40	11154
784875 A	Drill Bit Kit – "Ultra Lock"	210	11155



192048 7



784811 C



714000 AA


 723072 A 3
723074 A 3


714171 A


 711493 A
711494 A

MAKITA USA, INC.

Power tools accessories

- Ask for Makita Specials!

Model	Description	List Price	SKU
251314 2	Set screw for metal belt clip	3	11118
324705	Metal belt clip for Makita drills	40	11119
821012 A	16" Heavy-duty Makita tool bag	175	11159
821013	24" Heavy-duty Makita tool bag	250	11106
A 90233	Light bulb for ML120/ML140, 2-pack	20	11162
A 90261	18V Lithium-Ion light, 2-pack	20	11163
A 90978	Light bulb for ML123/ML143	40	11164
BL1815 1	18V Lithium-Ion, black and white battery, single	350	11165
BL1815 2	18V Lithium-Ion, black and white battery, 2-Pack	700	11166
BML184	18V Lithium-Ion fluorescent flashlight	285	11167
BML185W	18V Lithium-Ion, black and white flashlight with no battery	280	11168
ML120	12V Flashlight with no battery	160	11177
ML121	12V Head flashlight with no battery	160	11178
ML123	12V Fluorescent flashlight with no battery	235	11179
ML140	14.4V Flashlight with no battery	215	11180
ML143	14.4V Fluorescent flashlight with no battery	265	11181
ML180	18V Flashlight with no battery	195	11182



821012 A



BL1815 2



BML184



ML120



ML143



A 90261

MAKITA USA, INC.

FEATURES:

- Titanium nitride coating reduces heat build-up and prolongs the life of the bit 6 times
- Industrial quality high-speed steel
- Drills through all metals, wood and plastics
- Drills more holes per charge in cordless drills for significant product gain



711368-A

Model	Description	List Price	SKU
711368 A	1/16" titanium nitride coated bit	15	11128
711376 A	3/16" titanium nitride coated bit	10	11130
711388 A	3/8" titanium nitride coated bit	35	11133

MAKITA USA, INC.

FEATURES:

- For drilling in soft, medium and hard masonry
- Fast spiral for smooth, efficient chip removal
- Tungsten carbide tipped for long-life



711101-A

Model	Description	List Price	SKU
711101 A	3/16" masonry bit	10	11122
711105 A	1/2" masonry bit	10	11125

Model	Description	List Price	SKU
10771	Locking Tradesman Utility Knife	90	12439
20144	12" x 18TPI Hacksaw Blades, 10-Pack	95	12458
20350	Utility Blade with Titanium edge, 5-Pack	10	12461
20918	High-tension Metal Hacksaw Frame	80	12475
20997	Trifold Saw for Drywall/Wood/Metal	135	12476
21008	1/8" to 5/8" Copper Tube Cutter	75	12477
21009	1/8" to 1" Copper Tube Cutter	70	12478
21010	1/8" to 1-1/8" Copper Tube Cutter	160	12479
21011	1/8" to 1-3/8" Copper Tube Cutter	220	12480
21062	9" x 6TPI Wood/Reciprocal Blades	140	12482
21170	MAPP Gas/Propane Torch with Swivel Tip	115	12590
21172	MAPP Gas/Propane Self-ignite Trigger	90	12591
21178	MAPP Gas/Propane Self-ignite Button	530	12592
21192	Copper Cutting Wheels, 2-Pack	80	12488
21193	Stainless Steel Cutting Wheels, 2-Pack	80	12489
22101	Aviation Snip, cuts to the left	110	12490
22102	Aviation Snip, cuts to the right	50	12491
22103	Aviation Snip, cuts straight	50	12492
22105	Bulldog Heavy-duty Snip, straight	65	12493
22206	Offset Aviation Snip, Cuts Left	130	12494
22207	Offset Aviation Snip, Cuts Right	130	12495
22208	3 Blade Crimper for Sheet Metal and Steel	110	12496
22210	3" Seamer for Sheet Metal and Steel	100	12498
22212	Snap Lock Punch for Sheet Metal and Steel	80	12500
23820	10" Cast Aluminum Pipe Wrench	95	12502
23822	14" Cast Aluminum Pipe Wrench	70	12503
23931	6-In-1 Screwdriver with Cushion Grip	45	12504
23932	9-In-1 Screwdriver with Cushion Grip	60	12505
30830	9 pc. Hole Saw Kit, 5/8" to 2-1/8"	545	12506
LX300PS	Mobile Torch System, Mapp/Propane, 3/8" Tip	595	12594
LX400PS	Mobile Torch System, Mapp/Propane, 1/2" Tip	595	12595



20918



20997



21011



21178



22207



22210



23820



22206



22101



22208



22212



30830



22105



LX300PS

Model	Description	List Price	SKU
DIVIDER18	18" Radius Nickel Plated Divider	90	12188
M2005	Bulldog, Notching & Trimming Snips	155	12555
N2	1 inch "V" Sheet Metal Notcher	260	12569
ND7K	7-Piece Nut Driver Set	290	12570
RRW316	3/16" Hex Key Wrench Adapter	40	12571
RRW516	5/16" Hex Key Wrench Adapter	40	12572
RTC829	5/16" to 1-1/8" Ratchet Tube Cutter	210	12573
RW274	Replacement Cutter Wheel for RTC829	50	12574
SC1	Single Blade Crimper with grips	120	12577
SL1	Snap Lock Punch for metal joining	290	12579
TY6	Zip Tie with Auto-Cut-Off Hand Tool	305	12588



M2005



ND7K



N2



RTC829



SC1

Model	Description	List Price	SKU
M1	1-1/4" Round Mirror extends to 18-1/4"	35	12287
M2	2-1/4" Round Mirror extends to 14"	40	12288
M3	3.5" x 2" Rectangular Glass Mirror, 12" long	40	12289
M4	7/8" Round Inspection Mirror, 6" long	30	12290
M5	1" X 2" Oval, extends to 8-1/2"	30	12291



M1



M2



M3



M5

FEATURES:

- Pulls blades or wheels without damage
- Sight holes for aligning puller on motor shaft
- Unique set screws can be used with both a wrench or hex key
- Accommodates 5/8" belt drive and 1/2" or less direct drive motor shafts
- Saves time and money

Model	Description	List Price	SKU
60590	Fan Blade, Pulley & Sheave Puller	350	12525



60590

Model	Description	List Price	SKU
12F	Sheet Metal Folding Tool, 12" long	90	12452
AV1	Aviation Snip, cuts left, red handle	84	12537
AV2	Aviation Snip, cuts right, green handle	84	12538
AV3	Aviation Snip, combo cut, yellow handle	80	12539
AV6	Offset Snips, cuts left, red handle	110	12540
AV7	Offset Snips, cuts right, green handle	105	12541
C5	Sheet Metal Pipe Crimper, 5 blade	165	12544
CB	Cutter Bit for Malco HC2 (Sold each)	60	12545
DS2	Off set Duct Stretcher	165	12546
DS3	Locking Duct Stretcher	185	12547
FDC1	Flex Duct Cutter & Wire Cutter	250	12548
FG1	Fiberglass Ductboard Hole Cutter	230	12549
HC2	Sheet Metal Hole Cutter, 2-20" Dia.	490	12550
KBHC	Replacement 1-1/2" Blade for FG1	60	12552
L24ATM	Magnetic Aluminum Level, 24" Length	270	12553
LNC6G	Needle Nose Pliers with Cushion Grip	90	12554
MC12NG	Combination Snips 12", Cuts R/L/S	215	12556
MND10S	Stubby Magnetic Nut Driver, 5/16" Hex	45	12557
MND12S	Stubby Magnetic Nut Driver, 3/8" Hex	45	12558
MND8S	Stubby Magnetic Nut Driver, 1/4" Hex	45	12559
S2	Hand Seamer 3"	175	12575
S3	Hand Seamer 3" off set	305	12576
SH3	Setting Hammer 18 oz.	285	12578
T425M	"Magnetic Tip" tape measure 1"x 25'	110	12584
Turbo Crimper	"Turbo Crimper" Drill Attachment	635	13297
TS1	"Turboshear" Drill Attachment	320	12388
TS1RB	"Turboshear" Replacement Blades	168	12389
WT9SG	Gripped Hex "T" key set, 8 hex keys	175	12589
HP18K	Hole punch Kit, 24 ga., 1/2" and 3/16"	525	12551



TS1



Turbo Crimper



C5



FDC1



S3



HC2



AV3



SH3



12F



AV7



L24ATM



MND10S



FG1



S2



DUCT KNIFE

FEATURES:

- Thumb guard
- 3mm stainless steel
- Cuts duct board and flex-duct
- Canvas sheath (included)



10136

10135

Model	Description	List Price	SKU
10135	Duct Knife with wooden handle and sheath	75	12003
10136	Duct Knife with cushion handle and sheath	75	12004



POWER PLIERS & FOLDING KNIVES



BBA 99



EL01



FF01



S62



TF2



TF3



TWI 8



REV7 & Case



AE06

Model	Description	List Price	SKU
AE06	"DIGI CAMO" knife with black blade	400	11907
BBA 99	Blink – Folding knife	195	11908
EL01	Kilowatt knife with wire stripper	215	11910
FF01	Contractor knife with level and stripper	135	11912
MICRON	Key Ring Ready knife, black oxide	60	11915
MICRON II	Key Ring Ready knife, black oxide	120	11916
REV7	Seal Revolver knife with saw position	405	11919
S62	PowerLock Multi-Tool	365	13226
REV7 B	Black Seal Revolver knife with saw position	400	11920
SH01	SOG sharpener	85	11929
SV68	Vision knife	1080	11930
TF2	Trident – Straight edge	335	11931
TF3	Trident – with tiger strip	365	11932
TWI 8	Twitch 2	235	11934



SH01



MICRON



DRILL CHUCKS

FEATURES:

- Magnetic drill chucks
- 6150 steel
- Lifetime warranty on workmanship



MSHL 1/4 4



MSH 1/4

Model	Description	List Price	SKU
MSH 1/4	1/4"x 2" long magnetic drill chuck	18	12560
MSHL 1/4 4	1/4"x 4" long magnetic drill chuck	45	12563
MSHL 1/4 6	1/4"x 6" long magnetic drill chuck	65	12564
MSHL 1/4 10	1/4"x 10" long magnetic drill chuck	60	12053
MSH 5/16	5/16"x 2" long magnetic drill chuck	18	12562
MSHL 5/16 4	5/16"x 4" long magnetic drill chuck	52	12566
MSHL 5/16 6	5/16"x 6" long magnetic drill chuck	74	12567
MSHL 5/16 10	5/16"x 10" long magnetic drill chuck	69	12056
MSH 3/8	3/8"x 2" long magnetic drill chuck	30	12565
MSHL 3/8 6	3/8"x 6" long magnetic drill chuck	64	12055
MSHL 3/8 10	3/8"x 10" long magnetic drill chuck	98	12054



TEK SCREWS

FEATURES:

- Hex head Tek screws
- Boxed in plastic cartons for easy storage and use
- Variety of sizes



HW8X3/4ZP

Model	Description	List Price	SKU
HW8X1/2ZP	1/4" X 1/2" Zip-In Screw, 7000 Count Pail	805	12380
HW8X1/2ZT	1/4" X 1/2" Zip-In Screw, 1000 Count Tub	120	12381
HW8X1ZT	1/4" X 1" Zip-In Screw, 500 Count Tub	95	12382
HW8X2ZT	1/4" X 2" Zip-In Screw, 250 Count Tub	85	12383
HW8X3/4ZP	1/4" X 3/4" Zip-In Screw, 5000 Count Pail	705	12384
HW8X3/4ZT	1/4" X 3/4" Zip-In Screw, 1000 Count Tub	155	12385

FEATURES:

- Clear reusable boxes
- Contractor kits



SB 832



EZ 5



FA 5016



NW 12



FA 316 FH



SB 1420

Model	Description	List Price	SKU
EZ 2	White Plastic Anchor Kit, Drywall	80	11885
EZ 5	Metal Anchor Kit – self drilling, for mounting to drywall, #8 x 1-1/4" screws	95	11886
FA 316 FH	Flanged Plastic Anchor Kit, with 3/16" masonry drill bit, 3/16" x 7/8" anchors	50	11887
FA 5016	Flanged Plastic Anchor Kit, with 5/16" masonry drill bit, 5/16" x 1-1/4" anchors	60	11888
HC 14	Hose Clamp Kit, 7/32" – 2 1/4"	65	11616
NW 12	Assorted Nuts and Washer Kit, #6-32 thru #3/8-16 hex nuts and "K" lock nuts included, washers and flat washers	65	11890
PS 8FHPH	#8 White-painted register screws, 1-1/2" & 2"	100	11895
SB 1420	Stove Bolt Kit, with 1/4" – 20" x assorted lengths 3/8" to 2", hex nuts and 1/4" washers	90	11896
SB 832	Stove Bolt Kit, #8-32 RHMS x assorted lengths 3/8" thru 2", hex nuts #8 SAE washers	85	11897



2314

Model	Description	List Price	SKU
2314	Wall Dog Oval Chrome, 100 Box	110	11891
2316	Wall Dog Pan Chrome, 100 Box	110	11892
2328	Wall Dog Oval White, 100 Box	110	11893
2330	Wall Dog Pan White, 100 Box	110	11894



1508SD



3RS25



RAM GUN



WS1422

Model	Description	List Price	SKU
12EMTSP78C	1/2" EMT Clip with 1" Pin	175	11824
1506SD	3/4" Washered Pin	70	11825
1508SD	1" Washered Pin	80	11826
1510SD	1-1/4" Washered Pin	75	11827
1512SD	1-1/2" Washered Pin	75	11828
1514SD	2" Washered Pin	75	11829
1644W	1/4" x 1" Threaded Stud	160	11831
3RS25	.25 Cal Green Strip Load, 100 Pack	70	11832
3RS27	.27 Cal Green Strip Load, 100 Pack	55	11833
4D60	.25 Cal Yellow Disc Load, 100 Pack	90	11834
4RS25	.25 Cal Yellow Strip Load, 100 Pack	80	11835
4RS27	.27 Cal Yellow Strip Load, 100 Pack	55	11836
5RS25	.25 Cal Red Strip Load, 100 Pack	70	11837
5RS27	.27 Cal Red Strip Load, 100 Pack	70	11838
RAM GUN	.27 (Powder Actuated Tool Kit)	1335	11840
HN1422	1/4" x 2-1/4" Sleeve Anchor	230	11842
WS1422	1/4" x 2-1/4" Wedge Anchor	210	11843
WS3830	3/8" x 3" Wedge Anchor, Box of 50	145	11844

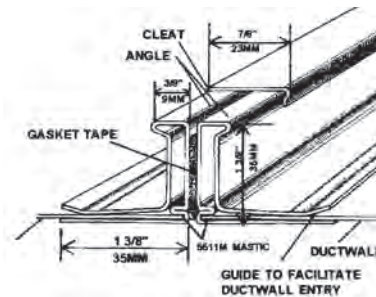


DUCTMATE 35 SYSTEM

DUCTMATE



AG2000



Model	Description	List Price	SKU
440	440 butyl gasket, 3/16" x 5/8", 25 ft. roll	25	11348
4703BA3	Round Duct Support BA3 3/8"	5	11349
AG2000	Corner alignment tool	275	11350
CBGA	Carriage bolt and nut, 3/8" x 1" galvanized	1	11351
CLEATER	Cleater 1 with Handle	215	11352
D3510GA	10 ft. length Ductmate 35, galvanized	70	11353
D3AGA	Corner piece bolt-on	5	11354
D3BGA	Corner piece clip-in	5	11355
D6CGA	Cleat, 6" galvanized	5	11356

WESANCO

FEATURES:

- Producers of channel systems
- Electro-galvanized finish
- Built to last



W5123



HEA SQN38

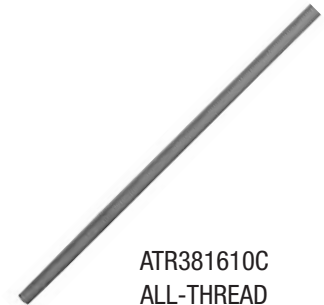


CEF3

Model	Description	List Price	SKU
ATR121310	All-thread rod 1/2" x 10 ft.	75	11948
ATR381610C	All-thread rod, 3/8" x 10 ft.	45	11949
CEF3	3/8" Ceiling Flange for All-thread	15	11950
CEF5	1/2" Ceiling Flange for All-thread	20	11951
HEA SQN12	1/2" Squeeze Nut, for Strut	3	11952
HEA SQN38	3/8" Squeeze Nut, for Strut	3	11953
POR242618	3/8" x 1-1/4" Hex Head Bolt	2	11957
W5425	Two Hole 45 Degree Open Angle	25	11973
W5445	Four Hole 45 Degree Open Angle	50	11974
W200SS	Channel, 1-5/8" x 1-5/8" x 12GA, 10 ft. w/slots	105	11967
W500SS	Channel, 13/16" x 1-5/8" x 14GA, 10 ft. w/slots	90	11970
W28	Channel nut 1/2" with spring for W-200SS	5	11968
W56	Channel nut 3/8" with spring for W-500SS	5	11975
W5103	Two hole end connector	7	11971
W5123	4-hole 90° corner angle	12	11972
W7125	Four hole end connector	45	11949
W7135	Rod coupler 3/8" for All-thread rod	10	11977
W7404	Hex head cap screw 3/8" x 1"	1	11978
W7410	Hex head cap screw 1/2" x 1"	2	11979
W7431	Lock washer 3/8"	1	11980
W7431A	3/8" Flat washer	1	11981
W7432A	1/2" Flat washer	1	11983
W7462	Hex nut 3/8"	2	11984
W7463	Hex nut 1/2"	2	11985



W500SS


ATR381610C
ALL-THREAD

UNI-STRUT ACCESSORIES

DOTTIE



SSW38B



SSW38S

Model	Description	List Price	SKU
SSM38BR	Metal 3/8" Rod Hanger, Bottom Mount	11	11958
SSM38SR	Metal 3/8" Rod Hanger, Side Mount	10	11959
SSW38B	Wood 3/8" Rod Hanger, Bottom Mount	10	11960
SSW38B UL	3/8"x 2-1/2" Rod Hanger, Bottom Mount	15	11961
SSW38S	Wood 3/8" Rod Hanger, Side Mount	10	11962
SSW38SUL	3/8" x 3/8"x 2-1/2" Side Mount, Rod Hanger	10	11963
TBC42	1/4" x 2" Toggle Bolt, 50 Box	85	11898
UNIB	Rod Hanger Installation Tool Bit	160	11964



UNIB

FEATURES:

- 12 Gauge
- 1-1/4" pin
- 100 pack



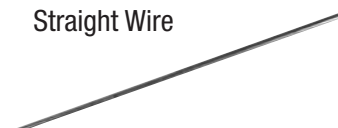
PC 06FT Pin & Clip

Model	Description	List Price	SKU
PC 06FT Pin & Clip	6 foot	370	11683
PC 08FT Pin & Clip	8 foot	410	11686
PC 10FT Pin & Clip	10 foot	560	11688

WIRE
FEATURES:

- 12 Gauge
- Straight wire
- 100 pack

Straight Wire



Model	Description	List Price	SKU
PC 06FT Wire	6 foot	265	11685
PC 08FT Wire	8 foot	350	11687
PC 10FT Wire	10 foot	435	11689

SCREWS


59250



PC LAG Screw

Model	Description	List Price	SKU
59250	Eye Lag Bit Holder, Heavy-duty	50	12016
PC Lag Screw	Eye Lag Screw, 1/4" x 3" (100 pk)	35	11693

POLES


PC Eye Wire Pole

Model	Description	List Price	SKU
PC Eye Lag Pole	Wire Tying Pole, Adjustable 6-12 ft.	945	11690
PC Eye Wire Pole	Tied Wire Pole, Adjustable 6-12 ft.	1025	11691

FEATURES:

- Heavy-duty nylon duct straps
- Accommodates up to 14" duct



CABLE TIE HOLDER



7 L300



ZIP 24 LONG

Model	Description	List Price	SKU
Zip 07 Long	7" Zip Tie, 100 Pack	35	12616
Zip 24 Long	24" long, bag of 50 (up to 6" duct)	60	12617
Zip 36 Long	36" long, bag of 50 (up to 10" duct)	75	12618
Zip 48 Long	48" long, bag of 50 (up to 14" duct)	105	12619
7 L300	Zip Tie Tensioning Hand Tool	130	12532
TY6	Zip Tie with Auto-Cut-Off Hand Tool	305	12588
CABLE TIE HOLDER	24" to 48" Zip Tie Holder/Carrier	90	12141

FEATURES:

- With dispenser box
- Galvanized
- With or without holes



STRAP 1.5 x 08NH



STRAP 1.5 x 080H



710 100



PLUMBERS TAPE 10'



MESH WIRE
NETTING

Model	Description	List Price	SKU
710 100	Strap, Polypropylene, 1.75 x 100 Yds.	30	12404
Strap 1.5 x 080H	Hanger strap, 1.5" x 80' with holes, 26 gauge	45	11944
Strap 1.5 x 08NH	Hanger strap, 1.5" x 80', no holes, 26 gauge	40	11945
Plumbers Tape 10'	Hanger Iron (Galv) 10' Roll, 28 gauge	15	12333
Mesh Wire Netting	12" x 50' Light weight steel netting	85	11674

Model	Description	List Price	SKU
1 45	1" PVC-40, 45° elbow slip	3	11799
1 90	1" PVC-40, 90° elbow slip	2	11800
1 COUPLING	1" PVC-40, coupling slip	2	11801
1 TEE	1" PVC-40, tee slip	5	11802
1/2 45	1/2" PVC-40, 45° elbow slip	2	11803
1/2 90	1/2" PVC-40, 90° elbow slip	1	11804
1/2 COUPLING	1/2" PVC-40, coupling slip	1	11805
1/2 TEE	1/2" PVC-40, tee slip	1	11807
1/2 PLUG	1/2" PVC-40 threaded plug	3	11806
3/4 45	3/4" PVC-40, 45° elbow slip	4	11808
3/4 90	3/4" PVC-40, 90° elbow slip	2	11809
3/4 BUSHING	3/4" x 1/2" PVC-40, bushing slip	1	11817
3/4 CAP	PVC-40 cap slip	2	11810
3/4 COUPLING	3/4" PVC-40, coupling slip	2	11811
3/4 FPT	3/4" x 3/4" Female Pipe thread adapter	2	11812
3/4 MPT	3/4" x 3/4" Male Pipe thread adapter	2	11813
3/4 PLUG	3/4" PVC-40 threaded plug	7	11815
3/4 TEE	3/4" PVC-40, tee slip	3	11816
3/4 P TRAP	3/4" PVC-40 P-Trap slip	25	11814
PIPE 1	1" PVC-40, 10 ft. length	20	11819
PIPE 1/2	1/2" PVC-40, 10 ft. length	10	11820
PIPE 3/4 20	3/4" PVC-40 Plug 20 ft. length	45	11822
PIPE CUTTER	1" O.D. cutting capacity PVC cutter	8	12339



3/4 45



3/4 CAP



3/4 BUSHING



3/4 90



3/4 PLUG



3/4 TEE



3/4 P TRAP



3/4 MPT



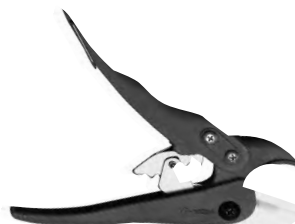
PIPE 3/4 20



3/4 FPT



3/4 COUPLING



PIPE CUTTER

RUBATEX/INSUL-TUBE

FEATURES:

- Pipe insulation
- Closed-cell elastomeric
- Nominal 3/8" wall
- Six foot lengths



Rubatex 1/2 3/4



Rubatex 1-1/8 3/4

Model	Description	List Price	SKU
GLUE 1/2 PBT	Insulation Glue	45	11622
Rubatex 3/8 3/4	3/8" x 6' Soft Copper Roll, 3/4" Wall	15	12362
Rubatex 1/2 3/4	1/2" x 6' Soft Copper Roll, 3/4" Wall	20	12360
Rubatex 5/8 3/4	5/8" x 6' Soft Copper Roll, 3/4" Wall	25	12364
Rubatex 7/8 3/4	7/8" x 6' Soft Copper Roll, 3/4" Wall	35	12366
Rubatex 1-1/8 3/4	1-1/8" x 6' Soft Copper Roll, 3/4" Wall	35	12359
Rubatex 7/8 1/2	7/8" x 6' Soft Copper Roll, 1/2" Wall	20	12365



SOFT COPPER TUBE

SOFT COPPER TUBE

FEATURES:

- Refrigeration service
- 50 foot coils



D04050

Model	Description	List Price	SKU
D04050	1/4" O.D. Soft Copper Roll	140	12350
D05050	5/16" O.D. Soft Copper Roll	185	12351
D06050	3/8" O.D. Soft Copper Roll	155	12352
D08050	1/2" O.D. Soft Copper Roll	325	12353
D10050	5/8" O.D. Soft Copper Roll	440	12354
D12050	3/4" O.D. Soft Copper Roll	555	12355
D18050	1-1/8" O.D. Soft Copper Roll	675	12357

HVAC-R, outer diameter sizes listed. For plumbing sizes please see inner diameter conversion table at the bottom of this page.

Model	Description	List Price	SKU
C45	C45 1/2" 45° sweat fitting	3	12304
C47	C47 7/8" 45° sweat fitting	8	12305
C95	C95 5/8" SR 90° sweat fitting	3	11702
CC0105	CC0105 1-1/8" x 5/8" reducing coupling	11	11704
CC0107	CC0107 1-1/8" x 7/8" reducing coupling	9	12312
CC05	CC05 5/8" sweat coupling with stop	3	12314
CC053	CC053 5/8" x 1/2" reducing coupling	4	12315
CC07	CC07 7/8" coupling with stop, sweat	4	12317
CC075	CC075 7/8" x 5/8" reducing coupling	8	12318
CF5	CF5 5/8" sweat x 1/2" female NPT	5	12321
CF7	CF7 7/8" sweat x 3/4" female NPT	13	12323
CFR53	CFR53 5/8" x 1/2" reducer bushing	6	11707
CM75	CM75 7/8" sweat x 1/2" male NPT	6	11709
CU5	CU5 5/8" union copper sweat	11	11715
CU7	CU7 7/8" union copper sweat	14	11716
VAX4	VAX4 1/4" flare male access fitting (4 pk)	50	12101
C9L10	C9L10 1-1/8" LR 90° sweat elbow	19	12306
C9L3	C9L3 3/8" LR 90° sweat elbow	7	12307
C9L34	C9L34 1/2" LR 90° sweat elbow	9	12308
C9L5	C9L5 5/8" LR 90° sweat elbow	8	12309
C9L7	C9L7 7/8" LR 90° sweat elbow	12	12310
CC010	CC010 1-1/8" coupling with stop, sweat	8	12311
CC03	CC03 3/8" sweat coupling with stop	2	12313
CC055	CC055 1/2" copper coupling sweat	2	12316
CC34	CC34 3/4" sweat with stop coupling	4	12319
CM107	CM107 1 1/8" sweat x 3/4" male NPT	11	11708
CM5	CM5 5/8" sweat x 1/2" male NPT	6	12324
CS92	CS92 1/2" LR ST 90° sweat elbow	4	12325
CS93	CS93 3/8" LR ST 90° sweat elbow	3	12326
CS95	CS95 5/8" LR ST 90° sweat elbow	5	12327
CS97	CS97 7/8" LR ST 90° sweat elbow	11	12328
CS98	CS98 1-1/8" LR ST 90° sweat elbow	19	12329
CT2	CT2 1/4" sweat copper tee fitting	11	11712
CT3	CT3 3/8" sweat copper tee fitting	11	12330
CT4	CT4 1/2" sweat copper tee fitting	10	12331
CT5	CT5 5/8" sweat copper tee fitting	10	11713
CT7	CT7 7/8" sweat copper tee fitting	10	12332



CC07



CF7



C95



CU7



CT5



C9L7



CS97



CT7



VAX4

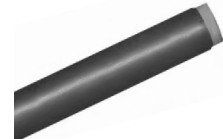
I.D./O.D. Conversion Table

Plumbing I.D.	HVAC-R O.D.
1/8" I.D.	1/4" O.D.
1/4" I.D.	3/8" O.D.
3/8" I.D.	1/2" O.D.
1/2" I.D.	5/8" O.D.
5/8" I.D.	3/4" O.D.
3/4" I.D.	7/8" O.D.
1" I.D.	1-1/8" O.D.

Model	Description	List Price	SKU
60100	Cutter wheel for #60101	35	12513
60101	Premium tube cutter 1/8" to 1-1/8"	145	12514
60120	Cutter wheel for cutter #60142	25	12515
60124	Cutter wheel for cutter #60139	45	12516
60139	Large tube cutter wheel, 3/8" to 2-5/8"	457	12517
60142	Mini tube cutter, 1/4" to 1-1/8"	168	12518
AC02030	3/8" O.D. ACR copper pipe 20 ft.	130	11855
AC03030	3/4" O.D. ACR copper pipe 20 ft.	375	11857
AC06030	7/8" O.D. ACR copper pipe 20 ft.	370	11860



60101



AC02030

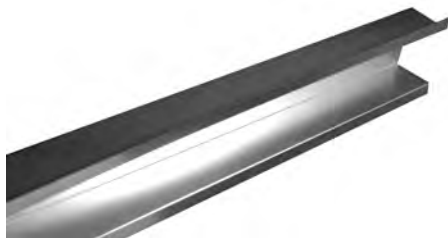
Cambridge-Lee Industries

LINESET

Model	Description	List Price	SKU
61220500	3/8" x 3/4" with (1/2" insulation thickness)	1075	12746
61420500	3/8" x 7/8" with (1/2" insulation thickness)	1385	12266
61430500	3/8" x 7/8" with (3/4" insulation thickness)	1630	12267
LINESET COVER	Metal lineset cover 3" high x 4" wide	95	71173



61420500



LINESET COVER

Model	Description	List Price	SKU
BEAMCLAMP BCL3	3/8" beam clamp with Locknut	10	11228
BEAMCLAMP BCL5	1/2" beam clamp with Locknut	15	11229
CUSHCLAMP 1-1/8	1-1/8" cushion clamp	20	12184
CUSHCLAMP 3/8	3/8" O.D. cushion clamp	15	12185
CUSHCLAMP 5/8	5/8" O.D. cushion clamp	15	12186
CUSHCLAMP 7/8	7/8" O.D. cushion clamp	12	12187


CUSHCLAMP 7/8

BEAMCLAMP BCL5
**PHOSPHORUS • COPPER • SILVER • CADMIUM •
 FREE SILVER • BRAZING ALLOYS**

Model	Description	Wire Size	List Price	SKU
41035	Stay-Silv 5	.050 x 1/8", 1 lb.	210	12398
61035	Stay-Silv 15	.050 x 1/8", 1 lb.	475	12400
76310	Safety-Silv 45	1/16", 1 troy oz. pack	95	12402
76313	Safety-Silv 45	1/16", 3 troy oz. pack	250	12403


41035

Model	Description	List Price	SKU
10028	50/50 Solder, 1 lb. Spool	60	12396
10030	95/5 Solder, 1 lb. Spool	95	12397
16500	18" x 18" Flame Barrier Drop Cloth	185	12212
40022	Stay-Silv white brazing flux	35	12213
40027	Stay-Clean paste soldering flux	15	12214
45535	Silicon brazing alloy for copper and brass	55	12399


10028

40027

204 & 208 PLASTIC ROOF CEMENT

FEATURES:

- Patch leaks in asphalt, metal, masonry and composition roofs
- Seal around chimneys, vents, skylights and flashings
- (204) Trowel-grade for use on dry surfaces; ASTM D2822-91 Type 1 Class 1
- (208) Repair leaks on wet and dry surfaces; ASTM D2822-91 Type 1 Class 11



204



208

Model	Description	List Price	SKU
HENRY 204	Plastic roof cement, one gallon pail	130	11611
HENRY 208	Wet patch roof cement, one gallon pail	150	11612

BOSS[®] PRODUCTS

SILICONE SEALANT

BOSS

FEATURES:

- Adheres to clean ductwork, other metals, and many types of wood
- Meets FDA and USDA requirements for use in Federally Inspected meat and poultry plants



37000



CAULKING GUN

Model	Description	List Price	SKU
37000	Clear silicone sealant 10 oz. tube	25	12122
37001	White silicone sealant 10 oz. tube	25	12123
37003	Aluminum silicone sealant 10 oz. tube	25	12124
CAULKING GUN	Standard duty caulking gun	20	12142

BOSS[®] PRODUCTS

FIRE CAULKING

BOSS

FEATURES:

- Designed to stop the passage of fire, smoke and fumes through fire-rated separations
- Provides an effective firestop between penetrating materials, such as metal pipes, conduit, cables, ducts and most common floor, wall, ceiling and joint construction, in any combination of wood, concrete, concrete block, steel and gypsum materials
- Forms a durable and flexible seal after curing



81610



81324

Model	Description	List Price	SKU
81324	Firestop expanding foam, 24 oz.	170	12126
81610	Intumescent firestop sealant, 10 oz.	50	12127
13605	Fire Block/Draftstop sealant, 10 oz.	30	12120

SPECIALTY CHEMICALS
FEATURES:

- Improves indoor air quality
- Regular use reduces energy costs



703 01



707 01



709 01



718 01



5 42272



PT200



PRO FLUSH KIT



HOSE H/DUTY



HOSE NOZZLE

Model	Description	List Price	SKU
181 06	Condensate Pan Treatment-Squares	100	12166
5 42272	Waterless Scrubs-In-A-Bucket hand wipes, 75 per tub	75	12386
703 01	Power Plus Evap/Coil Cleaner, 1 gallon	70	12168
707 01	Triple "D", 1 gallon	80	12170
707 32	Triple "D" spray, 1 quart	40	12171
709 01	D'Scale Acid Scale Remover for cooling towers, 1 gallon	60	12172
712 01	Foam Power Expanding Coil Cleaner, 1 gallon	65	12173
718 01	Super Foam Coil Cleaner, 1 gallon	70	12174
810 32	Coil & Drain Pan Disinfectant spray, 1 quart	70	12175
813 16	Non Toxic Odor Neutralizer Jar, 13 oz.	30	12176
833	Granular Foaming Condenser Cleaner, 2 gallon mix	35	12178
834	Granular Foaming Evap. Coil Cleaner, 2 gallon mix	35	12179
89200	Extra large Biggies waterless industrial wipes, 100 per tub	70	12129
HOSE H/DUTY	3/4" x 50' Gray Commercial Hose 5-Ply	285	11617
HOSE NOZZLE	Cushioned Pistol Grip Water Nozzle	50	11618
LATEX GLOVES	Latex Disposable Gloves	60	11647
PRO FLUSH KIT	HVAC-R Flushing Solvent System, 16 oz.	995	12334
PRO FLUSH REFILL	HVAC-R Flushing Solvent Refill, 16 oz.	325	12335
PT200	Condensate Pan Tabs, 200 Per Jar	90	12415

LUBRICANTS, DEGREASERS & SPRAYERS


LPS 40



LPS 9



370 16



436 20



ALL PURPOSE GLUE



1002



CL 2032



CR 1



DDT 10



LPS 728

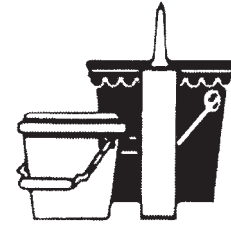


LPS 728A

Model	Description	List Price	SKU
01714	Canned spray foam, 12 oz.	30	12215
1002	Hand-held sprayer	75	12144
2602	Wand sprayer, 2 gallon	105	12145
33316	Polyurethane expanding foam, 12 oz.	25	12121
362 16	Contact cleaner, 14 oz.	70	12147
370 16	Belt dressing, 11 oz.	20	12148
436 20	Wasp and hornet killer, 14 oz.	40	12149
89115	Heavy-duty hand cleaner, 15 oz.	30	12128
ACID AWAY	Compressor burnout acid neutralizer	125	11319
ALL PURP. GLUE	All purpose clear cement for PVC & ABS	25	12107
CL 2032	Pro 2000 leak finder, 32 oz.	30	12153
COOL GEL	Heat dissipating non-toxic spray, 1 quart	65	12183
CR 1	Rust Buster with spout, 4 oz. tube	5	12285
DDT 10	White terry cloth towels, 10 per bag	60	12597
HCO 7	Smooth hand cleaner, 7.5 oz.	10	12156
HCP 7	Hand cleaner with pumice, 7.5 oz.	10	12157
LPS 728	Biodegradable degreaser, 28 oz.	65	12160
LPS 728A	Biodegradable degreaser aerosol can, 18 oz.	45	12161
LPS 40	All purpose lubricant, 11 oz.	35	12159
LPS 9	White lithium lubricant, 10 oz.	50	12163
PAN SEALER	Drain pan coating/sealer, 14 oz.	50	12150
ST 24	Red shop towels, 24 per bag	100	12599
WD40	WD40, 11 oz.	25	12606

FEATURES:

- Sealants and adhesives since 1985
- Industrial strength
- All sealants are water based



Model	Description	List Price	SKU
DP DP77	Industrial spray adhesive	45	11335
DP DP88	Edge Coating "Duct Butter" Repair	50	11336
DP DP1010	A smooth duct sealant – gray, high velocity UL 181 classified, 1 gallon	75	11327
DP DP1020	A fiber reinforced, duct sealant – gray, high velocity UL 181 classified, 1 gallon	75	11329
DP DP1010T	A smooth duct sealant – gray, high velocity UL 181 classified, 11 oz. tube	25	11328
DP DP1020T	A fiber reinforced, duct sealant – gray, high velocity UL 181 classified, 11 oz. tube	25	11330
DP DP3050	Lagging adhesive and protective coating, 1 gallon	75	11333
PUTTY KNIFE	1-1/2 Inch Putty Knife	30	11796

GLENKOTE

SEALANT

FEATURES:

- Industrial strength sealants for the HVAC-R industry, with excellent metal adhesion

Model	Description	List Price	SKU
11 500 9925	Glenkote tan stucco-like sealant, 1 gallon	145	11576



11 500 9925

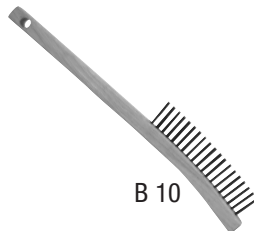
BRUSHES



Pads ACP 10



B 1



B 10



B 503

Model	Description	List Price	SKU
B 1	Acid brush 3/8", tin handle	3	12132
B 10	Steel curved handle scratch brush	20	12133
B 503	2" Chip brush	3	12134
Pads ACP 10	All purpose scrub pads, box of 10	50	12296

FEATURES:

- Quality tape for industry
- Many assorted styles



338FSK Foil (side view)



338FSK Foil



1581A Foil

Model	Description	List Price	SKU
338FSK Foil	Diamond-pattern foil/scrim/kraft tape, tear resistant, UL723	80	12427
1581A Foil	Printed aluminum foil backing, UL181, 2-1/2"	71	12423



1507 Black



1599 Silver



1577CWE



558CA

Model	Description	List Price	SKU
558CA	558CA Metalized, UL181-FX, 2"	92	12433
1507 Black	Line Set Tape, 2" Black, UV Resistant	35	12418
1556 Black	Waterproof Cloth Duct Tape Black	55	12419
1556 Silver	Waterproof Cloth Duct Tape Silver	55	12420
1577CWE	Cooler Repair Tape, 4" x 15 Yds.	103	12422
1599 Black	Black Flex Duct Tape, 2" x 120 Yds.	55	12424
1599 Silver	Silver Flex Tape, UL181B-FX, 2" x 120 Yds.	65	12425



1402



Stick Pin/Washer

Model	Description	List Price	SKU
1402	Duct Joint Sealing Tape, 3" x 100'	150	12417
Stick Pin/Washer 1	1-5/8" Self-Stick Pin/Washer, 100 Pack	95	11937
Stick Pin/Washer 2	2-1/2" Self-Stick Pin/Washer, 100 Pack	105	11938



ET22



TT5



6 330

Model	Description	List Price	SKU
6 330	Cork-tape, 1/8"x 2"x 30", black	45	12434
6 9718	Foam tape, 1/8"x 2"x 30"	36	12435
DP WRAP 24	24" x 200' Roll, Clear Duct Guard, 1 Roll	170	13205
DP WRAP 36	36" x 200' Roll, Clear Duct Guard, 1 Roll	265	13206
ET22	3M electrical tape	25	12436
TT5	Teflon tape 1/2"x 520' roll	5	12000

Model	Description	List Price	SKU
SC 10	1-1/2" x 10 yards, sanding cloth	30	12367
SC 25	1-1/2" x 25 yards, sanding cloth	45	12368
SCM 5	Open Mesh Sand Screen Cloth, 5 Yrds.	30	12369



SC 10



WERNER LADDER COMPANY

FEATURES:

- Type 1A – 300 lbs. duty rating
- Orange fiberglass rails
- Tool-Tra-Top® with drill holster, tool holder and small parts tray
- Top step is knee-braced
- Pinch-proof spreaders



6206

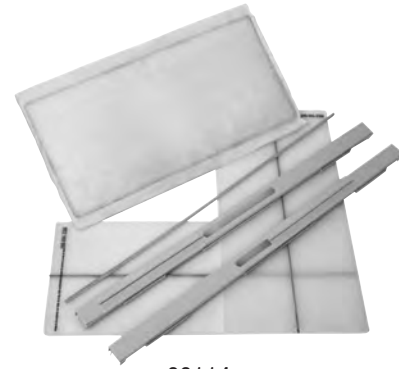


6208

Model	Description	List Price	SKU
6206	6200 Pro Series, 6 foot	665	11639
6208	6200 Pro Series, 8 foot	925	11640

FEATURES:

- Traps and kills 86.5% of all airborne microorganisms on contact
- Draft eliminator with anti-microbial filter
- Converts complaints into silence and comfort
- Ends dusty drafty office vents
- Preserves air volume and improves air flow while maintaining the system's balance
- Prevents ash from entering room during fire season



00114

Model	Description	List Price	SKU
00114	Control-A-Flow® kit with filter for T-bar ceiling	370	11323
11477	Control-A-Flow® replacement filter	95	11322



INDUSTRIAL BELTS

GATES

FEATURES:

- Industrial and commercial grade
- Oil and heat resistant
- Static conductive
- Flex-bonded cords
- Flex-weave cover



A39

TRUEFLEX BELTS

Model	List Price	SKU
2230	15	11230
2270	20	11232
2280	20	11233
2290	35	11234
2300	24	11235
2310	25	11236
2330	40	11238
2360	39	11240
2370	17	11241
2560	45	11248

HI-POWER V-BELTS

Model	List Price	SKU
A38	20	12115
A39	25	12116
A42	25	11253
A43	20	11254
A44	12	11255
A48	25	11258
A50	25	11260
A54	25	11262
A56	25	11264
A58	56	11265
A59	46	11266
A60	33	11267
A62	35	11268
A63	35	11269

AIR FILTER

FEATURES:

- Constructed with heavy-duty, premium-grade synthetic media
- One-piece frame design ensures integrity during handling and operation
- Made of durable high-strength chipboard that will stand up to harsh conditions
- MERV 7

1" Boxed Poly Filter

Model	Description	List Price	SKU
16x16x1BP	Boxed Poly Filter	7	11389
16x20x1BP	Boxed Poly Filter	10	11391
16x25x1BP	Boxed Poly Filter	8	11398
18x20x1BP	Boxed Poly Filter	8	11406
18x24x1BP	Boxed Poly Filter	10	11408
18x25x1BP	Boxed Poly Filter	11	11412
20x20x1BP	Boxed Poly Filter	8	11414
20x24x1BP	Boxed Poly Filter	11	11421
20x25x1BP	Boxed Poly Filter	9	11425
20x30x1BP	Boxed Poly Filter	16	11430
20x44x1BP	Boxed Poly Filter	20	11433
22x22x1BP	Boxed Poly Filter	12	11434
24x24x1BP	Boxed Poly Filter	10	11436
25x25x1BP	Boxed Poly Filter	10	11442
FILTER MEDIA	Poly Filter Roll	65	12209



16x20x1BP



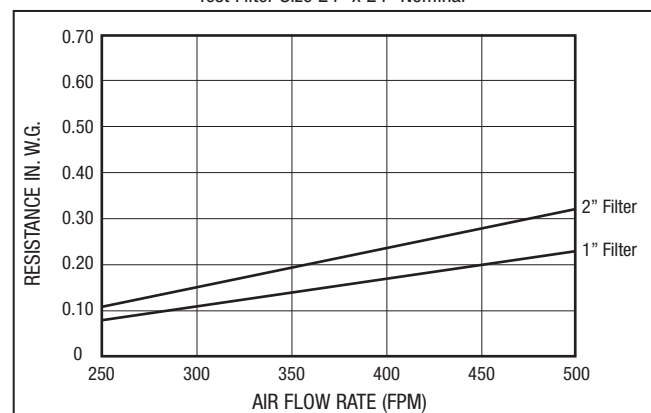
16x20x2BP

2" Boxed Poly Filter

Model	Description	List Price	SKU
16x20x2BP	Boxed Poly Filter	14	11393
16x25x2BP	Boxed Poly Filter	15	11400
18x24x2BP	Boxed Poly Filter	16	11410
20x20x2BP	Boxed Poly Filter	15	11416
20x24x2BP	Boxed Poly Filter	18	11423
20x25x2BP	Boxed Poly Filter	17	11427
24x24x2BP	Boxed Poly Filter	19	11438
25x25x2BP	Boxed Poly Filter	17	11444

Standard Pressure Drop

Test Filter Size 24" x 24" Nominal



Performance Data	PolyStrand Media
20 x 20 x 1: Initial Resistance (295 FPM)	.10" w.g.
20 x 20 x 2: Initial Resistance (295 FPM)	.14" w.g.

AIR FILTER

FEATURES:

- Maximum air flow
- Self-supporting Duraflex media; no wire support needed
- Support straps and pleat stabilizers ensure integrity
- MERV 8

1" Pleated Industrial Grade Filter

Model	Description	List Price	SKU
12x20x1C35	Pleated C35 Filter	18	11377
12x24x1C35	Pleated C35 Filter	19	11379
14x20x1C35	Pleated C35 Filter	24	11383
14x25x1C3	Pleated C35 Filter	26	11384
16x20x1C3	Pleated C35 Filter	18	11392
16x25x1C35	Pleated C35 Filter	19	11399
20x20x1C35	Pleated C35 Filter	20	11415
20x22x1C35	Pleated C35 Filter	37	11420
20x24x1C35	Pleated C35 Filter	21	11422
20x25x1C35	Pleated C35 Filter	22	11426
20x30x1C35	Pleated C35 Filter	22	11431
22x22x1C35	Pleated C35 Filter	23	11435
24x24x1C35	Pleated C35 Filter	24	11437
25x25x1C35	Pleated C35 Filter	24	11443



16x20x1 C35



16x20x2 C35

2" Pleated Industrial Grade Filter

Model	Description	List Price	SKU
12x20x2C35	Pleated C35 Filter	15	11378
12x24x2C35	Pleated C35 Filter	20	11380
16x20x2C35	Pleated C35 Filter	18	11394
16x25x2C35	Pleated C35 Filter	21	11401
18x24x2C35	Pleated C35 Filter	25	11411
18x25x2C35	Pleated C35 Filter	23	11413
20x20x2C35	Pleated C35 Filter	21	11417
20x24x2C35	Pleated C35 Filter	23	11424
20x25x2C35	Pleated C35 Filter	23	11428
20x30x2C35	Pleated C35 Filter	49	11432
24x24x2C35	Pleated C35 Filter	30	11439
25x25x2C35	Pleated C35 Filter	23	11445

PERFORMANCE DATA

Filter	Pleats per Lineal Foot	Rated Initial Resistance (in. w.g.)			Recommended Final Resistance (in. w.g.)	ASHRAE 52.2 MERV	Continuous Operating Temperature Limits	
		300FPM	500FPM	625FPM			°F	°C
Pleated C35 2"	10.0	.14	.30	.45	1.0	7	170°	77°
Pleated C35 1"	15.0	.20	.48	—	1.0	7	170°	77°



Assorted Paints



Flagging Tape



Paint Pen



Paint Holder

Model	Description	List Price	SKU
26 TITUS	White spray paint for Titus product	50	51768
799 010	All Purpose Orange Spray Paint	30	12297
799 032	All purpose spray paint, gloss black	35	12299
799 033	All purpose spray paint, flat black	25	12300
799 035	All purpose spray paint, gloss white	30	12301
799 036	All purpose spray paint, fire red	35	12302
799 025	All purpose spray paint, aluminum	35	12299
TCF Gray Paint	Gray spray paint for Twin City Fans	50	35770
Drop Cloth	Plastic Drop Cloth 10 ft. x 20 ft.	30	11339
Flagging Tape G	Green Flagging Tape, 150' x 1-3/16"	14	11488
Flagging Tape O	Orange Flagging Tape, 150' x 1-3/16"	14	11489
Flagging Tape R	Red Flagging Tape, 150' x 1-1/16"	14	11490
Paint Pen	White pen marker	16	12303
Paint Holder	Marking paint holder	175	11680
Paint Pistol	"Pistol Style" Paint Holder, 12"	165	11681



SAFETY EYEWEAR

FEATURES:

- OSHA approved safety glasses
- Bombers with foam have a patented floating design
- 100% UVA/UVB protection
- Polycarbonate Lens



H103



Z103



F104



R101

Model	Description	List Price	SKU
F103	Smoke with foam safety glasses	75	11272
F104	Amber with foam safety glasses	75	11273
F105	Mirror with foam safety glasses	75	11274
H103	Smoke safety glasses	45	11275
H105	Mirror safety glasses	45	11276
H106	Light brown safety glasses	45	11277
R101	Clear safety glasses	45	11278
R103	Smoke safety glasses	45	11280
R105	Mirror safety glasses	45	11281
R106	Light brown safety glasses	45	11282
Z101	Clear safety glasses	45	11283
Z103	Smoke safety glasses	45	11284



Airflow



Tacker

Model	Description	List Price	SKU
135M	Boxer, Medium	115	12642
135L	Boxer, Large	115	12641
144L	Builders, Large	85	12716
144XL	Builders, X-Large	85	12717
160L	Contractor, Large	85	12720
160XL	Contractor, X-Large	85	12721
177M	Heavy-duty, Medium	115	12651
177L	Heavy-duty, Large	115	12650
177XL	Heavy-duty, X-Large	115	12652
190L	Airflow, Large	85	12718
190XL	Airflow, X-Large	85	12719
GTA9KL	Tacker, Large	145	13247
GTA9K1L	Tacker, X-Large	145	13248
GTA9K12L	Tacker, XX-Large	145	13249



A370



Palmer L-TAC

Model	Description	List Price	SKU
GPL10YM	Palmer L-TAC, Medium	20	13236
GPL10YL	Palmer L-TAC, Large	20	13237
GPL10Y1L	Palmer L-TAC, X-Large	20	13238
A370M	Atlas flex gloves, Medium, Black/Gray	25	11588
A370L	Atlas flex gloves, Large, Black/Gray	25	11587
A370XL	Atlas flex gloves, X-Large, Black/Gray	25	11589
GPR6K1L	Palmer Nitrile, X-Large	25	13245
GPR6KL	Palmer Nitrile, Large	30	13244
GPR6KM	Palmer Nitrile, Medium	30	13246



Knee Pads 93081



First Aid Kit



TR1250



DUST MASK



NEOMASK

Model	Description	List Price	SKU
FORM HOLDER	2 compartment form holder	150	12216
FIRST AID Kit	First Aid/CPR Kit, waterproof case	125	11453
DUST MASK	Dust Mask, disposable	15	11360
KNEE PADS 93081	High density knee pads	50	11638
NEOMASK	Neoprene Mask, with ear plugs, washable	115	11677
SHOE COVERS 50PR	Disposable shoe covers, 50 pairs	110	11899
SHOE COVERS 5PR	Disposable shoe covers, 5 pairs	20	11900
TR1250	Truck rope 1/2" x 50', all-purpose/all-weather polyrope	65	11853

Model	Description	List Price	SKU
HS 30	Hanging Strap 31" Long	20	12408
HS 144	Lash-n-Strap with hooks, 12 ft.	130	12405
HS 192	Ratch-it Strap, 16' long	185	12407
RS 9	Rubber tie down, 9" long	10	12413
RS 15	Rubber tie down, 15" long	15	12409
RS 20	Rubber tie down, 20" long	15	12410
RS 31	Rubber tie down, 31" long	15	12411
RS 41	Rubber tie down, 41" long	20	12412
ST3	Black Utility Tie Down, 3' long	25	11946
WS02	Red Nylon tie down with buckle, 24" long	25	11947
CARGO NET	Bungee style cargo net, 6-1/2 ft. x 5 ft.	180	11311



RS 41



HS 144



CARGO NET



HS 192

FORMULAS & DEFINITIONS

VP	=	$(\text{FPM} / 4005)^2$
CFM	=	Cubic Feet per Minute
TP	=	Total Pressure
SP	=	Static Pressure
VP	=	Velocity Pressure
FPM	=	Feet per Minute
ΔP	=	Differential Pressure
ΔP_S	=	Static Differential Pressure
ΔP_T	=	Total Differential Pressure
Area Factor	=	Dimension in Square Feet
VP	=	TP – SP
TP	=	SP + VP
SP	=	TP – VP
CFM	=	FPM x Area Factor
ΔP_T	=	TP ₁ – TP ₂
ΔP_S	=	SP ₁ – SP ₂
FPM	=	CFM/Area Factor

WATER COILS

BTU	=	British Thermal Unit
MBH	=	1000's of BTU's per Hour
GPM	=	Gallons per Minute
ΔT	=	Temperature Differential
ΔT Air	=	927 x MBH/CFM
ΔT Water	=	2.04 x MBH/GPM

ELECTRIC COILS

KW	=	Kilowatts
KW	=	CFM x DT/3160
ΔT	=	KW x 3160/CFM

POWER

W	=	Watts
A	=	Amps
HP	=	Horsepower
V	=	Volts
E ₁	=	Efficiency
PF	=	Power Factor

Power D-C Circuits

W	=	V x A
A	=	W/V
HP	=	V x A x E/746
E	=	746 x HP/W

Power A-C Circuits (Single Phase)

PF	=	W/V x A
A	=	746 x HP/V x E x PF
E	=	746 x HP/V x A x PF
KW	=	V x A x PF/1000
HP	=	V x A x E x PF/746

Power A-C Circuits (3 Phase)

PF	=	W/V x A x 1.732
A	=	746 x HP/1.732 x V x E x PF
E	=	746 x HP/V x A x PF x 1.732
KW	=	V x A x PF x 1.732/1000
HP	=	V x A x 1.732 x E x PF/746

CONVERSION FACTORS
DIMENSIONS

Meters x 39.37	=	Inches
Meters x 3.280833	=	Feet
CM x 0.3937	=	Inches
MM x 0.03937	=	Inches

AIR VOLUME

M ³ /Hour x 0.5886	=	CFM
M ³ /Second x 2118.6	=	CFM

WATER VOLUME

Liters/Second x 15.850	=	GPM
------------------------	---	-----

VELOCITY

CM/S x 1.9685	=	FPM
---------------	---	-----

TEMPERATURE

(°C x 1.8) + 32	=	°F
-----------------	---	----

HEAT

KW x 3412	=	BTUH
-----------	---	------

WC PRESSURE

Pa (Pascals) x 0.0040	=	Inches
MM x 0.03937	=	Inches*

* To convert from Mercury (Hg) to Water Column, multiply a second time by 0.0734.
Example: SP MM Hg x 0.0394 x 0.0734 = SP In. WC

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Store Return Policy

For point-of-purchase sales

All returned merchandise is subject to inspection and acceptance.

Merchandise returned within 30 calendar days of original purchase, and found to be in new and saleable condition, will be accepted back and credited less a 15% restocking charge; subject to the following exceptions and exclusions:

Exceptions:

The 15% restocking charge will be waived for any returnable merchandise in new and saleable condition that is returned by 5 pm on the same day of purchase to the same store of purchase.

The 15% restocking charge will be waived if the return of the merchandise is necessitated by our shipping or service error. Claims for shipping or service error must be made within two business days of receipt of merchandise.

If the merchandise is returned to a branch or store other than where it was purchased, it will be subject to an additional 10% relocation charge.

Exclusions:

There are a number of products where sales are considered final and may only be returned if the product is defective. These include:

- **Power Tools, Hand Tools and Accessories**
- **Meters, Measuring Instruments and Gauges**
- **Vacuum pumps and condensate pumps**
- **Gases of any kind**

In addition, we cannot accept back any product that:

- **Has been installed**
- **Is damaged or altered**
- **Has been marked or tagged**
- **Has broken seals or damaged packaging**
- **Shows visible signs of jobsite handling or storage**
- **Was not returned within 30 calendar days of purchase**

(800) 867-6247
www.airhouse.com



Sales Branches and Store Locations

Los Angeles Sales Office & Airhouse

1708 Mahalo Place, Dominguez Hills, CA 90220
(310) 632-6000 Phone • (310) 632-8919 Fax
Hours: 6:00 am - 5:00 pm, Monday – Friday

Anaheim Sales Office & Airhouse

1654 S. Lewis St., Anaheim, CA 92805
(714) 939-9500 Phone • (714) 939-9800 Fax
Hours: 6:00 am - 5:00 pm, Monday – Friday

San Diego Sales Office & Airhouse

12215 Kirkham Road, Poway, CA 92064
(858) 270-1121 Phone • (858) 270-6820 Fax
Hours: 7:00 am - 5:00 pm, Monday – Friday

Glendale Sales Office & Airhouse

633 Ruberta Ave., Glendale, CA 91201
(818) 956-7511 Phone • (818) 956-0479 Fax
Hours: 6:00 am - 5:00 pm, Monday – Friday

Inland Empire Sales Office & Airhouse

301 S. California Ave., Beaumont, CA 92223
(951) 769-8676 Phone • (951) 769-8680 Fax
Hours: 7:00 am - 5:00 pm, Monday – Friday

Administrative Offices: 150 W. 6th Street, Suite 205, San Pedro, CA 90731 • (424) 672-4000 Phone • (424) 672-4010 Fax

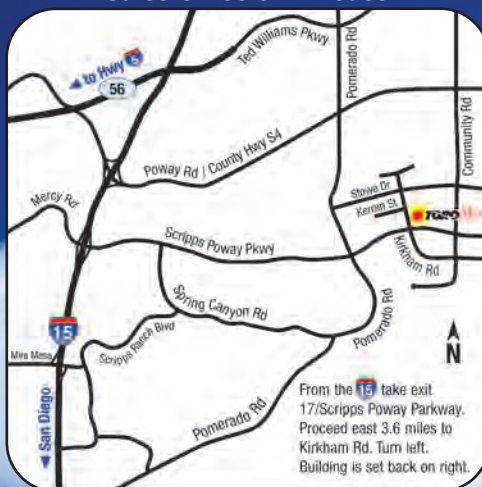
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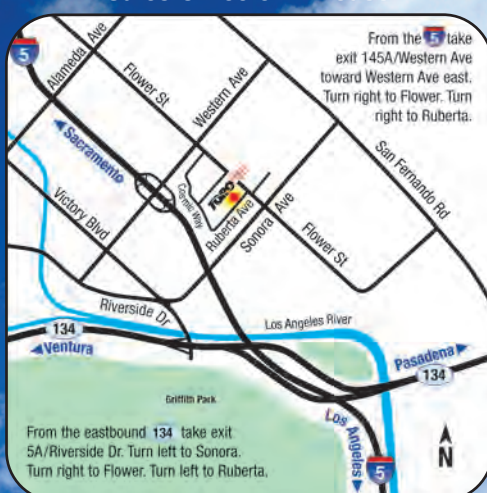
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