

2021 Stock Catalog and Price List

Rev. 2 (March 14, 2022)

Greensboro Warehouse (800) 334-0254

Columbia Warehouse (803) 451-8355



STEAM SPECIALTIES

Table of Contents

FANS/DAMPERS/CURBS	
Centrifugal Roof Exhausters	2-9
Sidewall Exhausters	8-9
Roof Curbs, Equipment Rails	10
Sidewall Propeller Fans & Accessories	11
Ceiling & Cabinet Fans & Accessories	12-17
Gravity Ventilators	
ASHRAE General Ventilation Design	18
In-Line Fans	
Backdraft Dampers	
Electrical Accessories	24
MAGNETIC STARTERS/AC DRIVES	
Magnetic Starters	
AC Drives	
REGISTERS/GRILLES/DIFFUSERS/TRANSITIONS	
Supply Registers	
Return Grilles & Registers	
Round Ceiling Diffusers	
Volume Control Dampers	
Steel Perforated Diffusers	
Louver Faced Ceiling Diffusers	
Tee-Bar Mounting Frame	
Door Grilles	
Cube Core Grilles	
Economy Registers & Diffusers	
Filter Grilles	
Spiral Grilles	
VAV Diffusers	
Slot Diffusers	
Square to Round Transitions	
Concentric Reducers	
VAV TERMINALS/HOT WATER COILS	
Control By Others Terminals	
Hot Water Coils	41



DAMPERS/LOUVERS/ACCESS DOORS/ACTUATORS	
Balancing Dampers	42
Control Dampers	43
Actuators	44
Smoke Detectors	44
Ceiling Radiation Dampers	45
Round Fire Dampers	46
Rectangular Fire Dampers	47
Lexington, Kentucky Direct Ship	48-49
Brick Vents	50
Stationary Louvers	51
Parsons, Kansas Direct Ship	52-53
Access Doors	54
Access Panels	55
FLEXIBLE DUCT/SNAPLOCK & ACCESSORIES	
Low, Medium & High Pressure Duct	
Stick-On Fittings	
Snaplock & Accessories	
Clamps, Tools, Tape, Wrap	
Pipe Portals Systems	63
SPIRAL PIPE & ACCESSORIES	
Spiral Pipe	
Spiral Fittings	
Hanging Systems, Blast Gates	
ELECTRIC HEATERS/FILTERS & ACCESSORIES	
Unit Heaters & Accessories	
Wall Heaters & Accessories	
Pleated Prefilters, Filter Rolls	
Cartridge Filters	
Filter Accessories	
Pressure Gauges & Manometers	
Side Access Filter Housings	/6
VIBRATION ISOLATION	
Steel Mountings	
Spring Hangers	
Elastomeric Pad	/9
STEAM SPECIALTIES 25 Series	00
Traps & Strainers	
Terms and Conditions	83

CENTRIFUGAL DIRECT DRIVE ROOF EXHAUSTERS

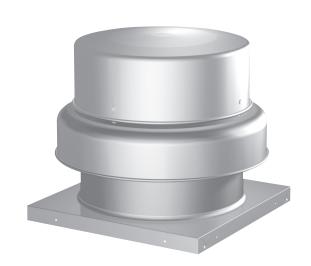


DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

FLEXIBLE DUCT / SNAPLOCK & ACC.

ELECTRIC HEATERS / FILTERS & ACCESSORIES



DIMENSIONAL DATA

Model	A	В	*C	D	100 Damper	Roof Opening
G-060, 070	17	19³/ ₈	12 ¹ /8	3	8 x 8	10 ¹ / ₂ x 10 ¹ / ₂
G-080, 090, 095	17	213/4	145/8	4	10 x 10	12 ¹ / ₂ x 12 ¹ / ₂
G-099, 103, 123, 133	19	243/8	233/4	43/8	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
G-143	22	283/8	233/4	43/8	16 x 16	18 ¹ / ₂ x 18 ¹ / ₂

*May vary depending upon motor size.

MODEL G

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

CONSTRUCTION FEATURES

- Spun aluminum hood and galvanized steel frame.
- · Easily removable cover for access to motor.
- Disconnect switch (standard).
- · Motors located out of airstream and cooled by ambient air.
- Thermal overload protection.
- · Vibration isolation for motor and wheel assembly.
- Three-speed motors standard on Model G-060 through G-095; field wired for either 1050, 1300 or 1550 RPM.
- · Wire mesh birdscreen.

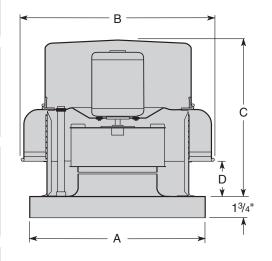
ACCESSORIES

- Roof curbs 12" high. See page 10.
- Backdraft damper, Model 100. See page 22.
- Speed controls. See page 24.

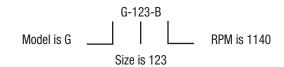
STOCK NOTES

- Units are stocked with 115/60/1 motors.
- All G units can be used with a speed control.
- Models G-060 through G-095 can be shipped UPS.
- Vari-Green® motor 80% turndown, 85% efficient. Available on select sizes.

The table below lists model designation suffixes for motor horsepower and fan RPM.



For direct drive units, the model number designates the model type, size and motor/fan RPM.



Direct	Drive
Suffix	Fan RPM
А	1725
В	1140
С	860
D	1550
G	1300
Е	1050



DRIVES & STARTERS

DIFFUSERS / TRANSITI	REGISTERS / GRILLE
SNOLLIS	LES/

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CCESS	DAMF
DOORS	ĔRS/
/ACTU	LOUVE
ATORS	8 8/

PERFORMANCE DATA AND PRICING **MODEL G**



					STATI	C PRESSURE I	N INCHES OF V	V.G. / CAPACIT	Y (CFM)		Price	12"	Curb	100 Da	amper
G-070 1/30 HP 3 Speed G-080 1/20 HP 3 Speed G-090 1/15 HP 3 Speed G-095 1/8 HP 3 Speed G-095-VG6X 1 G-099-VG4X 1 G-103-B 1/6 G-103-A 1/4 G-103-VG4X 1 G-123-B 1/6 G-123-A 1/2 G-123-B 1/6 G-123-A 1/2 G-123-B 1/6		0.014		0.000 0.100 0.125 0.250 0.375 0.500 0.625							Price Each	00		100 Bumpoi	
MODEL		KPM	TS	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP		Size	ADD	Size	AD
	_	1050	2234	138	90	73									
G-060 1/60 HP 3 Speed G-070 1/30 HP 3 Speed G-070 1/30 HP 3 Speed D 1 G-080 1/20 HP 3 Speed D 1 G-080 1/20 HP 3 Speed D 1 G-090 1/15 HP 3 Speed D 1 G-095 1/8 HP 3 Speed D 1 G-095 1/8 HP 3 Speed D 1 G-095 1/8 HP 1 G-095 1/8 HP 1 G-103-B 1/6 HP 1 G-103-B 1/6 HP 1 G-123-B 1/6 HP 1 G-123-B 1/6 HP 1 G-123-B 1/6 HP 1	1050	2234	1.9 .004	1.7 .005	1.7 .005										
	1200	0765	170	135	125					#201	17	07	0,40	φ.	
	l G	1300	2765	2.9 .008	2.6 .009	2.5 .009					\$391	17	\$87	8 x 8	\$5
3 Speeu		4550	0007	203	173	166	120								
	ע ן	1550	3297	4.3 .013	3.9 .014	3.9 .014	3.9 .016								
	_	1050	0004	253	196	179		,		İ					
	l F	1050	2234	2.5 .007	1.7 .008	1.5 .008									
	_			314	268	257	171								١.
	G	1300	2765		3.4 .015						\$398	17	\$87	8 x 8	\$
3 Speed				374	337	327	274	190							
	D	1550	3297	_	5.3 .024			4.2 .025							
	D 1550 44 D 1550 44 E 1050 29 D 1550 44 E 1050 29 D 1550 44 E 1050 29		335	268	249	134	112 1.020		<u> </u>						
	E 1050 2 BHP G 1300 2 Ped D 1550 3 E 1050 2 BHP G 1300 2 BHP G 1300 3 BHP G 1300	2990	3.8 .012												
G-060 1/60 HP 3 Speed D 1550 G-070 1/30 HP 3 Speed D 1550 G-080 1/20 HP 3 Speed D 1550 G-080 1/20 HP 3 Speed D 1550 G-090 1/15 HP 3 Speed D 1550 E 1050 G-090 1/15 HP 3 Speed D 1550 G-095 1/8 HP 1050 G-095 1/8 HP 1050 G-095 1/8 HP 1725 G-103-B 1/6 HP 1725 G-103-VG4X 1/4 HP 1725 G-123-B 1/6 HP 1140 G-123-A 1/2 HP 1725 G-123-VG5X 1/2 HP 1725 G-123-VG5X 1/2 HP 1725 G-133-B 1/6 HP 1140 G-123-A 1/2 HP 1725 G-123-VG5X 1/2 HP 1725 G-133-B 1/6 HP 1140 G-143-B 1/3 HP 1140			415	361	348	272	175								
	1300	3701	5.4 .022			5.4 .032	5.4 .033			\$434	17	\$87	10 x 10	\$57	
3 Speed				495	450	439	379	314	238						
G-060 1/60 HP 3 Speed G-070 1/30 HP 3 Speed G-080 1/20 HP 3 Speed D G-080 1/20 HP 3 Speed D G-090 1/15 HP 3 Speed D G-095 1/8 HP 3 Speed D G-095-VG6X 1/6 HP G-103-B 1/6 HP G-103-B 1/6 HP G-123-B 1/6 HP G-123-A 1/2 HP G-123-A 1/2 HP G-133-B 1/6 HP G-143-B 1/3 HP G-143-B 1/3 HP G-143-B 1/3 HP G-143-B 1/3 HP	D	1550	4413		7.4 .042			7.4 .055	7.4 .057						
				520	441	420	292	7.4 .000	7.4 .037						
	E	1050	2990												
G-090					3.7 .019		3.6 .024	070							
1/15 HP	G	1300	3701	644	580	565	478	373			\$443	17	\$87	10 x 10	\$
3 Speed				5.4 .027	5.4 .033			5.5 .045	4=0	000					
D	1550	4413	768	713	701	633	557	472	338						
			7.5 .046				7.4 .070	7.4 .076	7.4 .074						
	E	1050	2990	717	605	570	389								
G-095				4.9 .029	4.6 .034										
	G	1300	3701	888	801	780	640	493	184		\$443	17	\$87	10 x 10	\$
				7.4 .056				6.4 .071	6.4 .049		, , , ,		7		*
	ח	1550	4413	1059	986	969	863	745	623	474					
				9.6 .095		9.4 .103		8.2 .117							
G-095-VG6X	1/6 HP	1725	5052	1179	1114	1098	1013	903	800	688	\$707	17	\$87	10 x 10	\$
u ooo vaax	170 111	1720	0002	11.4 .13	11.4 .14		11.2 .15	10.9 .16	11.3 .16	11.3 .16	Ψίσι	.,,	ΨΟΊ	10 % 10	Ψ
G_000_VG4X	1// HP	1725	5052	1307	1280	1250	1192	1135	1076	1013	\$980	19	\$93	12 x 12	\$
u 055 vu+x	1/4 111	1720	3032	13.6 .23	13.6 .23	13.5 .23	13.4 .24	13.2 .24	12.9 .25	12.6 .25	ψυσο	13	Ψυυ	12 / 12	Ψ
G_103_R 1/	0 HP ed	3320	966	900	883	805	702	507		\$699	19	\$93	12 x 12	\$	
G-103-D 1/	O HF	1140	3320	6.6 .07	6.1 .07	6.0 .08	5.7 .09	5.1 .09	4.1 .08		φυσσ	19	φ93	12 X 12	φ
C 102 A 1	// LID	1705	5024	1483	1450	1427	1374	1321	1274	1219	\$732	19	\$93	12 x 12	\$(
G-103-A 1/	4 NF	1725	3024	12.5 .26	12.4 .27	12.1 .27	11.7 .28	11.5 .29	11.3 .30	10.6 .31	\$132	19	φ93	12 X 12	φ
C 102 VC4V	1 /4 LID	1705	EOEO	1462	1425	1405	1351	1298	1250	1193	¢1004	10	ტევ	10 v 10	φ.
J-103-VU4A	1/4 NP	1725	5052	12.2 .25	12.2 .25	11.9 .26	11.5 .27	11.2 .28	10.9 .29	10.3 .29	\$1024	19	\$93	12 x 12	\$
C 100 D 1	C LID	1140	3898	1383	1325	1300	1213	1112	993	831	ф 7 00	10	roo.	10 10	φ.
G-123-D 1/	о пр	1140	3090	8.4 .12	8.4 .12	8.4 .13	8.4 .14	8.1 .14	7.9 .14	7.8 .14	\$700	19	\$93	12 x 12	\$
0.400.44	(O LID	1705	5000	2093	2050	2038	1984	1928	1871	1810	φ 7 00	10	000	1010	_
G-123-A 1/	2 HP	1/25	5899	17.4 .40	17.3 .42	17.2 .42	17.0 .44	16.8 .45	16.7 .46	16.7 .47	\$790	19	\$93	12 x 12	\$
0.400.1/051/	4 /O LID	4705	5050	2093	2052	2038	1984	1928	1871	1810	6444	40	400	40 40	_
G-123-VG5X	1/2 HP	1/25	5052	17.4 .40	17.4 .40	17.2 .42	17.0 .44	16.8 .45	16.7 .46	16.4 .47	\$1114	19	\$93	12 x 12	\$
				1618	1560	1535	1444	1340	1211	1031					
G-133-B 1/	б НР	1140	3917	10.0 .15				9.2 .17	8.8 .17	8.5 .17	\$799	19	\$93	12 x 12	\$
				2115	2050	2008	1905	1792	1660	1488					
G-143-B 1/	3 HP	1140	4365		10.9 .30			10.4 .31	9.4 .31	10.4 .29	\$1069	22	\$102	16 x 16	\$
				2875	2830	2797	2719	2644	2566	2487					
G-143-VG7X	3/4 HP	1550	5935			18.0 .73					\$1316	22	\$102	16 x 16	\$
adal EM (C.A	mn) C-	lid Ctata C	nood O-	strol							0.40				
odel 5W (6 A	mp) – So	lid State S	Speed Cor	ntrol							\$49				

Performance shown is for Model G without ducts.



CENTRIFUGAL BELT DRIVE ROOF EXHAUSTERS



DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

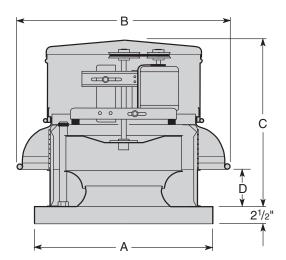
STEAM SPECIALTIES



DIMENSIONAL DATA

DIMENTOION LE DIVI						
Model	A	В	*C	D	100 Damper	Roof Opening
GB-071, 081	19	243/8	233/4	43/8	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-101, 121	19	243/8	233/4	43/8	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-131	19	283/8	233/4	4	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-141, 161	22	283/8	233/4	4	16 x 16	18 ¹ / ₂ x 18 ¹ / ₂
GB-180, 200	30	351/2	28	51/2	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
GB-240	34	423/4	31 ¹ / ₂	51/2	24 x 24	26 ¹ / ₂ x 26 ¹ / ₂
GB-300	40	50	36	81/4	30 x 30	32 ¹ / ₂ x 32 ¹ / ₂

*May vary depending upon motor size.



For direct drive units, the model number designates the model type, size and motor/fan RPM.

EXAMPLE:



MODEL GB

Model GB belt drive exhausters are designed for roof mounted applications exhausting relatively clean air. They feature a spun aluminum housing and a non-overloading backward inclined wheel. Motors are located out of the airstream with positive cooling by ambient air. Model GB fans are licensed to bear the AMCA Certified Ratings Seals for air and sound performance and are UL listed.

CONSTRUCTION FEATURES

- · Spun aluminum hood, aluminum wheel and galvanized steel frame.
- · Easily removable cover for access to motor.
- · Disconnect switch (standard).
- · Vibration isolation for entire motor and drive assembly.
- · Motors located out of airstream and cooled by ambient air.
- Rigid wire birdscreen.
- Thermal overload protection 1/4 HP through 3/4 HP single phase (Greensboro stock only).

ACCESSORIES

- Roof curbs 12" high. See page 10.
- Backdraft damper, Model 100. See page 22.
- · Magnetic starters. See page 25.

STOCK NOTES

- Motors 1/4 HP, 1PH are 115/60/1.
- Motors 1/3 & 1/2 HP, 1PH are 115/208-230/60/1 and wired for 115 volts.
- Motors 3/4 HP, 1PH are 115/208-230/60/1 and wired for 208-230 volts.
- Motors 3/4 HP, 3PH and larger are 208-230/460/60 are wired for 208-230 volts.
- Motors are constant speed, open drip proof. (Contact your salesman for other styles.)
- · Units are shipped preset for maximum RPM and are adjustable.
- · Units are also stocked less motor and drive for maximum flexibility. (QD stock only.)

The table below lists model designation suffixes for motor horsepower and fan RPM.

	Belt l	Drive	
Suffix	Motor HP	Suffix	Motor HP
4	1/4	10	1
3	1/3	15	1-1/2
5	1/2	20	2
7	3/4	30	3

PERFORMANCE DATA AND PRICING **MODEL GB**



						STATIC PRESSURE IN INCHES OF W.G. / CAPACITY (CFM)		Price	12" R	oof Curb	100 Damper		Starters				
MODI	EL	HP	PH	RPM	0.000 Sone BHP	0.125 Sone BHP	0.250 Sone BHP	0.375 Sone BHP	0.500 Sone BHP	0.625 Sone BHP	Each	Size	ADD	Model	ADD	STD	W/D
							339	316	297			3126	ADD	Wouei	AUU	עופ	W/D
GB-07	1-4	1/4	1	1725	376	353				273	\$763	19	\$93	12 x 12	\$60		\$20
								10.6 0.13									
GB-08	21_4	1/4	1	1725	864	821	793	756	719	679	\$763	19	\$93	12 x 12	\$60		\$20
GD 00	,, ,	17-4		1720	12.5 0.17	12.3 0.17	12.1 0.18	11.9 0.18	11.5 0.18	11.2 0.19	Ψίου	10	ΨΟΟ	12 × 12	ΨΟΟ		ΨΖ
00.40		4.4	.	1 100	1187	1100	1052	990	909	810	Φ700	10	000	1010	400		40/
GB-10	11-4	1/4	1	1400	8.9 .12	8.5 .13	8.1 .14	7.8 15	7.6 16	7.4 16	\$788	19	\$93	12 x 12	\$60		\$20
					1692	1625	1557	1484	1404	1315	1.						
GB-12	21-4	1/4	1	1395				12.2 0.25			\$867	19	\$93	12 x 12	\$60		\$20
					1866	1794					1						
GB-13	31-4	1/4	1	1315			1718	1637	1545	1435	\$1113	19	\$93	12 x 12	\$60		\$2
								12.1 0.25			1						
GB-13	1-5	1/2	1	1685	2391	2335	2279	2219	2158	2020	\$1192	19	\$93	12 x 12	\$60		\$2
GD 10	71 5	1/2	'	1000	16.9 0.47	16.6 0.48	16.3 0.50	16.0 0.51	15.7 0.52	15.4 0.53	Ψ1132	13	ψυυ	12 × 12	ΨΟΟ		ΨΖ
00.44		414	_	000	1595	1457	1304	1085			4040						
GB-14	11-4	1/4	1	860	7.1 0.12	7.1 0.13	6.7 0.13	6.1 0.13			\$916						
					2115	2008	1905	1800	1660	1488							
GB-14	11-3	1/3	1	1140							\$961	22	\$102	16 x 16	\$68		\$2
		\vdash						10.3 0.33			+						
GB-14	11-5	1/2	1	1360	2523	2433	2347	2259	2166	2062	\$976						
		.,_			14.6 0.48	14.3 0.50	13.9 0.51	13.5 0.52	13.1 0.52	12.7 0.52							
CD 10	1 5	1/0	,	1140	3367	3094	3072	2922	2761	2587	61270	20	¢100	16 4 10	¢ co		60
GB-16	01-0	1/2	1	1140	15.3 0.48	14.7 0.50	14.1 0.52	13.8 0.53	13.5 0.53	13.0 0.53	\$1379	22	\$102	16 x 16	\$68		\$2
					2839	2667	2469	2213	1882								
GB-18	80-4	1/4	1	730		7.1 0.15					\$1322						
									2275	2052			\$143	3 18 x 18	\$88		\$2
GB-18	30-3	1/3	1	810	3150	2997	2832	2624	2375	2053	\$1268						
						8.3 0.31	8.0 0.33										
GB-18	n_5	1/2	1	940	3655	3527	3388	3234	3052	2844	\$1285	30					\$200
GD 10	0 0	1/2	٠,	340	12.7 0.55	12.4 0.47	12.1 0.49	11.3 0.52	10.4 0.54	10.0 0.55	Ψ1203	50				\$639	
00.40		0/4	1	1055	4102	3989	3867	3742	3596	3432	\$1375						
GB-18	30-7	3/4	3	1055	16.2 0.77	15.7 0.67	14.9 0.68	14.4 0.72	14.0 0.74	13.5 0.76	\$1406						
					4608	4507	4401	4290	4179	4046	1						\$887
GB-180	0-10	1	3	1185				17.4 0.98			\$1964					φοσσ	ΨΟ
											1						
GB-20	0-5	1/2	1	770	4261	4013	3744	3477	3141	2643	\$1705						
								10.2 0.55			1						\$2
GB-20	n_7	3/4	1	860	4759	4548	4289	4068	3811	3504	\$1819						
UD-20	10-1	3/4	3	000	14.1 0.73	13.3 0.74	12.9 0.75	12.4 0.77	11.8 0.77	11.4 0.77	\$1860	20	61.40	10 410	ტიი		
05			Ţ		5340	5157	4927	4720	4520	4285	1.	30	\$143	18 x 18	\$88		
GB-200	0-10	1	3	965				15.0 1.08			\$2026					\$639	\$8
		\vdash	-		6032	5870	5682	5473	5301	5124	+					ΨΟΟΟ	ΨΟ
GB-200	0-15	1 ¹ /2	3	1090							\$2059						
							-	18.4 1.52			1						_
GB-240	0-10	1	3	730	6702	6427	6158	5861	5507	5077	\$2492						
GD 2-70		L '		. 50	15.8 0.96	15.0 1.01	14.3 1.05	13.8 1.05	13.4 1.06	13.1 1.06	Ψ2 102						
00.00	0 15	41.		005	7575	7331	7092	6844	6574	6261	ФО-00	0.4	# 4.00	0404	φ4.E-7	фосо	
GB-240	U-15	1 ¹ /2	3	825	19.7 1.39			17.2 1.51	16.8 1.52	16.4 1.54	\$2526	34	\$163	24 x 24	\$157	\$639	\$8
					8355	8134	7916	7700	7467	7215							
GB-240	0-20	2	3	910		23 1.92					\$2569						
			-							20 2.05	_						-
GB-30	0-7	3/4	1	475	7694	7197	6616	5955	5095		\$2950						\$2
00		J., .	3	0	11.4 0.72	10.6 0.75	9.6 0.77	8.8 0.77	8.1 0.74		\$2991						
CD OC	0.10		_	E00	8585	8149	7640	7094	6456	5668	φο ₄ []						
GB-300	U-1U	1	3	530	13.4 1.00	12.9 1.03	12.2 1.06	11.5 1.07	10.7 1.07	10.0 1.03	\$3157						
					9719	9334	8907	8446	7952	7388							
GB-300	0-15	1 ¹ /2	3	600				14.3 1.54			\$3190	40	\$192	30 x 30	\$198	\$639	60
		\vdash									+					φυσθ	\$8
GB-300	0-20	2	3	665	10772	10424	10060	9648	9228	8773	\$3233						
u_ 000			•	550	18.8 1.97	18.2 2.02	17.7 2.06	17.2 2.10	16.8 2.11	16.3 2.12	1 2200						
		l . T	3	760	12311	12007	11704	11357	10997	10629	\$3582						
GB-300		3					21.0 3.05					2					

BELT DRIVEN CENTRIFUGAL UPBLAST ROOF EXHAUSTERS



DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

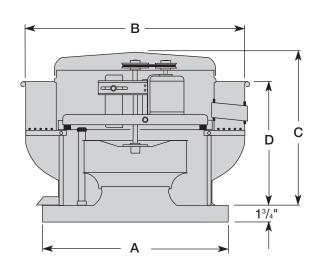
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

STEAM SPECIALTIES



DIMENSIONAL DATA

Model	A	В	С	D	100 Damper	Roof Opening
CUBE-101-121	19	247/8	281/4	17³/ ₈	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
CUBE-141	22	287/8	293/4	19³/ ₈	16 x 16	18¹/2 x 18¹/2
CUBE-161	22	287/8	293/4	19³/ ₈	16 x 16	18¹/2 x 18¹/2
CUBE-180	30	353/8	285/8	21	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
CUBE-200	30	353/8	285/8	21	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
CUBE-240	34	423/4	337/8	251/2	24 x 24	26 ¹ / ₂ x 26 ¹ / ₂
CUBE-300	40	50	36	29	30 x 30	32 ¹ / ₂ x 32 ¹ / ₂



MODEL CUBE

Model CUBE exhausters are designed for roof-mounted restaurant and commercial applications, exhausting dirty or grease laden air up and away from the roof line. All fans are UL 762 listed for restaurant applications and for operation with air temperatures up to 300°F. Model CUBE fans are licensed to bear the AMCA Certified Ratings Seals for air and sound performance and are UL listed.

CONSTRUCTION FEATURES

UL 762 Listed for Restaurant Applications

- · Spun aluminum hood, aluminum wheel and galvanized steel frame.
- · Easily removable cover for access to motor.
- · Disconnect switch (standard).
- · Vibration isolation for entire motor and drive assembly.
- Thermal overload protection 1/4 HP through 3/4 HP single phase.
- . Motors located out of airstream and cooled by ambient air.

ACCESSORIES

- Prefab roof curbs 12" high. See page 10.
- · Birdscreen kit.
- · Magnetic starters. See page 25.
- · Grease trap kit attaches to drain trough to collect grease.
- Backdraft damper, Model 100. (Not for use in grease applications) See page 22.
- Available from factory with coated wheels for heavy cooking applications.

STOCK NOTES

- Motors 1/4 HP, 1PH are 115/60/1.
- Motors 1/3 & 1/2 HP, 1PH are 115/208-230/60/1 and wired for 115 volts.
- Motors 3/4 HP, 1PH are 115/208-230/60/1 and are wired for 208-230
- Motors 3/4 HP, 3PH and larger are 208-230/460/60 are wired for 208-230 volts.
- Motors are constant speed, open drip proof. (Contact your salesman for other styles.)
- Units are stocked less motor and drive for maximum flexibility. (QD Stock Only)
- Vari-Green® motor 80% turndown, 85% efficient. Available on select sizes.



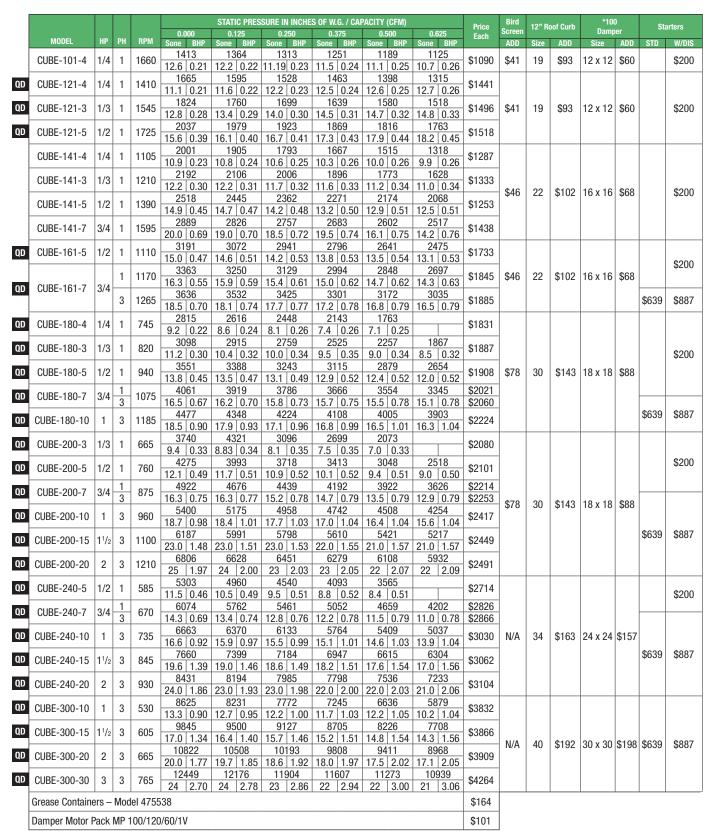
GREENHECK

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

PERFORMANCE DATA AND PRICING **MODEL CUBE**



^{*}Damper not for use in kitchen applications.

^{0 -} Orders received in Greensboro warehouse by 11:00 a.m. EASTERN TIME will normally ship within 24 hours. Call TOLL-FREE: 1-800-334-0254.

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES /

DIRECT DRIVE CENTRIFUGAL EXHAUST FANS



DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

VIBRATION ISOLATION



DIMENSIONAL DATA

Model	А	В	С	Damper	Opening
CUE-070	17	18³/ ₈	131/2	8 x 8	10 ¹ / _{2×} 10 ¹ / ₂
CUE-080, 090	19	21	13³/8	10 x 10	12 ¹ / _{2 x} 12 ¹ / ₂
CUE-095	19	21	15¹/₄	10 x 10	12 ¹ / _{2 x} 12 ¹ / ₂
CUE-101, 121	19	247/8	281/4	12 x 12	14 ¹ / _{2 x} 14 ¹ / ₂
CUE-141	22	287/8	293/4	16 x 16	18 ¹ / _{2 x} 18 ¹ / ₂

Α

MODEL CUE

Model CUE is a direct drive fan designed for roof or wall mounting where the exhaust air is directed away from the mounting surface. Constructed of a single piece, countinuously wedled housing, this fan is used for exhausting contaminated or grease laden air.

CONSTRUCTION FEATURES

- Spun aluminum hood and galvanized steel frame.
- Easily removable cover for access to motor.
- · Disconnect switch (standard).
- · Vibration isolation for entire motor and drive assembly.
- Thermal overload protection.
- · Motors located out of airstream and cooled by ambient air.
- · Models CUE-070 through CUE-095 are equipped with 3-speed motors, field wired for either 1050, 1300 or 1550 RPM.

ACCESSORIES

- Prefab roof curbs 12" high. See page 10.
- Magnetic starters. See page 25.
- Grease trap kit attaches to drain trough to collect grease.
- Backdraft damper. (Not for use in grease applications) See page 22-23.
- Speed controls. See page 24.

STOCK NOTES

- Model CUE
- Models 070-095 are UL 705 listed.
- Models 101-141 are UL 762 listed.
- Motors are 115/60/1
- Models CUE-070 through CUE-095 can be shipped by
- Vari-Green® motor 80% turndown, 85% efficient. Available on select sizes.



PERFORMANCE DATA AND PRICING MODEL CUE



		STATIC PRESSURE IN INCHES OF W.G. / CAPACITY (CFM)					Roof Curb		33		10													
			0.	000	0.1	100	0.1	25	0.2	250	0.3	75	0.5	600	0.6	625	Price Each	Wall Bracket	Roof	Curb	WALL DA	AMPER	ROOF D	AMPER
MODEL		RPM	Sone	ВНР	Sone	ВНР	Sone	ВНР	Sone	ВНР	Sone	ВНР	Sone	ВНР	Sone	ВНР		Bracket	Size	ADD	Size	ADD	Size	ADD
	_	1050	2	50	19	93	17	71																
	E	1050	2.5	.007	1.7	.008	1.5	.008																
CUE-070	G	1300	3	09	26	67	2	55	15	52							\$437	\$53	17	\$87	8 x 8	\$70	8 x 8	\$53
1/30 HP	u	1300	4.1	.013	3.4	.015	3.2	.015	2.7	.013							φ437	φυσ	17	φοι	0 X 0	\$10	0 X 0	φου
	D	1550	3	69	33	34	32	25	26	69	16	60												
		1330	5.6	.023	.53	.025	5.2	.025	4.7	.026	4.2	.021												
	Е	1050	3	25	26	35	24	17	13	33														
		1000	3.8	.012	3.6	.014	3.6	.015	3.5	.016												\$77	10 x 10	
CUE-080	G	1300	4	03	35	55	34	13	27	72	17	73					\$508	\$53	19	\$93	10 x 10			\$57
1/20 HP		1000	5.4	.022	5.4	.025	5.4	.026	5.4	.031	5.4	.031						φοσ	10	Ψ00	lo x io			
	D	1550	4	80	44	41	43	31	37	76	3	14	23	35										
			7.3	.037	7.4	.041	7.4	.042	7.4	.047	7.4	.053	7.4	.054										
	Е	1050	5	49	47	70	4	51	30)6														\$57
	_		3.8	.019	3.7	.023	3.7	.024	3.6	.027														
CUE-090	G	1300	6	80	6	16	60	00	51	17	39						\$508	\$53	19	\$93	10 x 10	\$77	10 x 10	
1/15 HP			5.4	.035	5.4		5.4	.042		.048							,	,		,				
	D	1550		11	75		74		67		60		50		-	47	-							
			7.5	.060	7.4					.076	7.4	.083	7.4	.088	7.4	.084						_		
	Е	1050		11	60			70	38								-							
			4.9	.032	4.6		4.6	.037	4.5	.037							-							\$57
CUE-095 1/8 HP	G	1300		80	79			74	64		48		19				\$521	\$53	19	\$93	10 x 10	\$77	10 x 10	
1/0 11			7.4	.061	6.9	l				.072		.071	6.4	.054		10	-							
	D	1550		100	98		96		86		74		6	_		12								
0115 005 1	1001/		9.6	.103	9.4		9.4		9.1	.117	90	.121	8.0			.106 30								
CUE-095-V 1/6 HP		1725	11.3		11.1		11.0		10.5		9.9		9.8	.17	9.6	.17	\$820	\$53	19	\$93	10 x 10	\$77	10 x 10	\$57
				168	14		14		13		13		12		9.0	.17								
CUE-101-V 1/4 HP		1725	13.3	.24	13.0		12.9	.26	11.5		12.0	.28	11.7	.29			\$1228	\$53	19	\$93	12 x 12	\$82	12 x 12	\$60
CUE 101 V	1050		20) 37	20	00	19	 70	19		18	60 60	18	16	17	63								\$60
CUE-121-V 1/2 HP		1725	15.6		15.8		16.1	.40	16.7	.41	17.3		17.9	_	18.2		\$1309	\$53	19	\$93	12 x 12	\$82	12 x 12	
CHE 141 V	IC7C			388		65	27		26		25		25		10.2									
CUE-141-V 3/4 HP		1550	18.7	.63	18.2	.63	17.8	.64	17.5		17.7	.68	14.9	.69			\$1563	563 \$58	22 5	\$102	16 x 16	\$97	16 x 16	\$68
Model 5V	V (6 A	mn) Sol									,						\$49							
WIOUCI JV	• (U A	p <i>)</i> 001	iu olal	o opec	u oon	JUILOI	(010-0	,55,									Ψ-5							

Performance shown is for Model CUE without ducts. Damper not for use in kitchen applications.

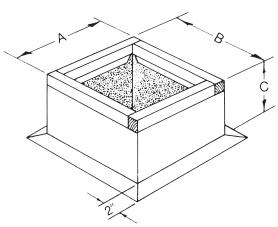


CURBS, RAILS AND ADAPTERS



STRAIGHT ROOF CURBS

Curbs are 12" high and are constructed of 18 gauge galvanized steel with welded seams. They have 1-1/2" thick, 3lb density rigid fiberglass insulation, 2" flashing strip and factory installed treated wood nailer strip.

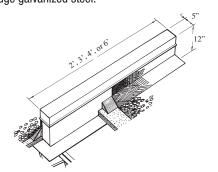


*Curb sizes 30 thru 58 must ship Motor Freight.

Curb Model	A	В	С	Maximum Load (lbs)	Price Each
12	12	12	12	1000	\$76
15	131/2	131/2	12	1000	\$81
17	151/2	151/2	12	1000	\$87
19	171/2	171/2	12	1000	\$93
22	201/2	201/2	12	1200	\$102
24	221/2	221/2	12	1200	\$112
26	241/2	241/2	12	1200	\$123
*30	281/2	281/2	12	1330	\$143
*34	321/2	321/2	12	1470	\$163
*40	381/2	381/2	12	1600	\$192
*46	441/2	441/2	12	1730	\$222
*52	50 ¹ / ₂	501/2	12	1870	\$252
*58	56 ¹ / ₂	561/2	12	2000	\$284

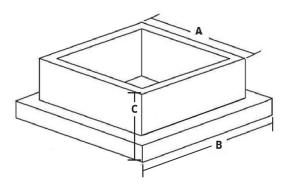
EQUIPMENT RAILS 12" TALL -NO CANT SURFACE MOUNT STYLE

The equipment rail construction is all welded unitized, 18 gauge galvanized steel shell and base, wood nailer, and flashing cap of 20 gauge galvanized steel.



Length	Price Each
2'	\$83
3'	\$125
4'	\$167
*6'	\$250

^{*}Must ship Motor Freight.



CURB ADAPTERS										
Model	A	В	С	Price Each						
850616	17	19	7	\$161						
850618	19	22	7	\$174						
823055	22	26	7	\$202						

DIRECT DRIVE SIDEWALL PROPELLER FANS





MODEL SE1

- · Direct drive sidewall design.
- Motor is constant speed, totally enclosed, U.L. labeled.
- Neoprene motor mounts.
- · Designed for relatively clean air and low pressure applications.
- Sizes SE1-8 thru SE1-12 include motor side guard.

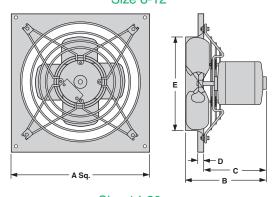
PERFORMANCE DATA AND PRICES

				STATIC PRE	SSURE/CFM		Price	320 D/	AMPER	WALL HOUSIING
Model	HP	RPM	0.000	0.100	0.125	0.250	Each	Size	ADD	ADD
SE1-8-440-D	1/25	1550	459	351	307	167	\$340	10 x 10	\$86	\$224
SE1-10-440-D	1/12	1550	924	800	763	624	\$351	12 x 12	\$92	\$224
SE1-12-432-D	1/8	1550	1449	1309	1271	1042	\$388	14 x 14	\$100	\$227
SE1-14-440-B	1/6	1160	1604	1406	1350	908	\$667	16 x 16	\$115	\$231
SE1-16-426-B	1/6	1160	2235	2058	2012	1710	\$686	18 x 18	\$121	\$243
SE1-18-429-B	1/4	1160	3238	2987	2908	2434	\$772	20 x 20	\$151	\$254
SE1-20-428-B	1/3	1160	4227	4030	3974	3621	\$887	22 x 22	\$184	\$265

Performance ratings are AMCA certified

For additional performance data, see Greenheck Catalog SB/S-1

Size 8-12



Size 14-20)
← A sq. →	$ \begin{array}{c} $
	E

DIMENSIONAL DATA

Model	A	В	С	D	E	Damper
SE1-8-440-D	13¹/8	7	5	1	83/8	10 x 10
SE1-10-440-D	15¹/8	83/4	5	1	10³/8	12 x 12
SE1-12-432-D	18¹/ ₈	10 ³ / ₄	81/4	1	12 ³ /8	14 x 14
SE1-14-440-B	201/8	11 ¹ / ₄	81/2	1	14 ³ / ₈	16 x 16
SE1-16-426-B	221/8	113/4	87/8	1	16³/ ₈	18 x 18
SE1-18-429-B	241/8	14	10 ⁷ /8	1	18³/ ₈	20 x 20
SE1-20-428-B	261/8	15	11	1	201/2	22 x 22

INS / DAMPERS /

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

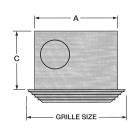
: FLEXIBLE DUCT / SNAPLOCK & ACC.

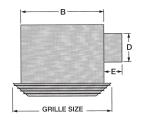
MODEL SP DOWNSIZE CEILING EXHAUST FANS



MODEL SP6

By Broan





Model SP-6 ceiling exhaust fans have steel housings, high strength polymer grilles with torsion springs for secure fit, integral backdraft dampers, and motors that are permanently lubricated, shaded pole with built in overload protection. A plug-in disconnect is provided inside the housing. Model SP-6 features adjustable steel mounting brackets and forward curved wheels.

DIMENSIONAL DATA

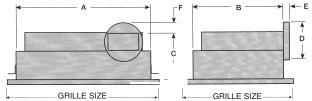
l	Model	A	В	C	D	E	Grille Size	Wt.
	SP-6	91/4	10	53/4	4	33/8	12 x 11 ³ /8	8

For complete dimensional information, see submittal drawings.

PERFORMANCE DATA

Model	RPM	AMP	Watts		CFM/STATIC PRESSURE IN INCHES OF W.G.								
Model	KPW	AIVIP	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	Each		
SP-6	1280	0.40	40	CFM	80	80	77	67	59		¢107		
5P-0	1200	0.40	43	Sones	2.0	2.0	2.3	2.6	2.9		\$127		

MODEL SP-B50 - B200



Models SP-B50 - B200 features corrosion resistant galvanized steel fan housing & scroll, white high impact polystyrene grille with two attachment screws, and a forward curved fan wheel that is dynamically balanced for vibration free operation. Motors are 115/60/1 with built in thermal overload protection. Angle mounting brackets can be adjusted to any typical ceiling material thickness.

DIMENSIONAL DATA



Model	A	В	*C	D	E	Std Grille	Decorative Grille	Unit Wt.
B50, 70, 80	13 ⁷ /8	11¹/2	7	6	1 ¹ /4	14 ⁷ /8 x 13 ¹ /4	15¹/4 sq.	9
B90, 110, 150, 200	13 ⁷ /8	11¹/2	7	6	1 ¹ /4	14 ⁷ /8 x 13 ¹ /4	15¹/4 sq.	10

For complete dimensional information, see submittal drawings

PERFORMANCE DATA

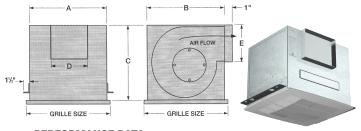
Model	RPM	AMP	Watts				CFM/ST	ATIC PRESSL	JRE IN INCHE	S OF W.G.				Price
Model	KPW	AMP	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	1.000	Each
CD DEO	COF	0.50	27.0	CFM	67	54	51	40	29					ф1 OC
SP-B50	625	0.50	37.8	Sones	1.2	1.4	1.4	2.0	3.0					\$106
CD D70	075	0.10	171	CFM	89	75	71	54	35					01.45
SP-B70	675	0.16	17.1	Sones	0.8	0.8	0.9	1.4	2.0					\$145
CD DOO	000	0.10	10.0	CFM	94	81	77	62	46					ф100
SP-B80	900	0.16	18.6	Sones	0.8	0.9	0.9	1.3	2.0					\$120
CD DOO	700	0.10	01.1	CFM	104	92	89	72	57					01.45
SP-B90	700	0.18	21.1	Sones	1.0	1.0	1.0	1.5	2.0					\$145
2D D440	050	4 4 4	00.0	CFM	133	114	110	97	95	94	91	85	50	010 F
SP-B110	950	1.14	80.2	Sones	1.5	1.5	1.5	2.0	2.0	2.0	3.0	3.5	4.5	\$135
CD D150	1050	1.70	100	CFM	160	156	155	154	152	149	147	138	92	ф170
SP-B150	1050	1.70	128	Sones	2.5	2.5	2.5	3.0	3.5	3.5	4.0	4.5	5.0	\$179
3D D000	1100	0.00	170	CFM	197	195	194	191	187	184	181	166	128	Φ1.70
SP-B200	1100	2.20	172	Sones	3.5	4.0	4.0	4.5	4.5	5.0	5.0	5.5	5.5	\$179
Model 5W	(6 Amp) So	lid State Sp	eed Controll	er (SP-6,	SP-B50 - B	-200, SP-A5	0 - A900)							\$49
Model 10V	N (10 Amp)	Solid State	Speed Conti	roller (SP-	A1050 - A1	550)								\$95

Performance shown is for Model SP exhaust for installation type B: Free Inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper in the airsteam Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type B: free inlet sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

MODEL SP CEILING EXHAUST FANS



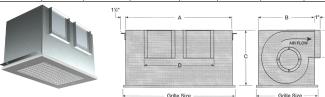
Model SP ceiling exhaust fans are whisper quiet centrifugal fans for offices, toilets and general ventilation. Housings are corrosion resistant galvanized steel with an interior lined with sound absorbing insulation for quiet operation. Grilles are white and attach to fan housing with two screws. Grilles for sizes A50-A390 are made of high impact polystyrene. Grilles for sizes A410-A1550 are constructed of aluminum coated with baked enamel. Fan wheels are double width forward curved centrifugal type in a single scroll for A50-A780. A900-A1550 have twin double width forward curved wheels in separate scrolls driven by a single motor. All wheels are dynamically balanced for vibration-free operation. Motors are 115/60/1 with built in thermal overload protection, sized to match fan loads and mounted on vibration isolators. The electrical access cover located on the housing exterior permits external wiring without removing the power assembly, saving installation time and cost.



<u>DIMENSIONAL D</u>	AIA		IV	<u>IUDEL</u>	SPAT	1U-A/8U	
Model	A	В	C	D	E	Grille Size	Unit Wt.
A50, 70, 90	13 ¹ / ₄	105/8	9	(3	14 ⁷ /8 x 13 ¹ / ₄	12
A110, 125, 190	13 ¹ / ₄	105/8	9	8	6	14 ⁷ /8 x 13 ¹ / ₄	17
A200, 250, 290, 390	14	11 ⁷ /8	11 ¹ / ₄	8	8	14 ⁷ /8 x 13 ¹ / ₄	24
A410, 510	18	143/8	141/2	8	8	19 ³ / ₈ x 16 ³ / ₈	31
A700	235/8	11 ⁵ /8	11 ⁵ /8	19 ¹ / ₂	8	25 ¹ / ₈ x 13 ¹ / ₂	34
A710, 780	18	14 ³ / ₈	141/2	10	8	193/8 x 163/8	34

PERFORMANCE DAT	Α
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Model	RPM	AMP	Watts				CF	M/STATIC P	RESSURE IN	INCHES OF	W.G.				Price
WOULI	111 141	AIVII	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	Each
SP-A50	790	0.33	25.9	CFM	89	66	61	31							\$184
SF-ASU	790	0.55	25.9	Sones	0.4	0.6	0.6	0.9							\$10
SP-A70	790	0.14	15.6	CFM	88	74	71	54							\$19
JI -AIU	730	0.14	13.0	Sones	0.3	0.3	0.3	0.3							φισ
SP-A90	870	0.14	16.9	CFM	114	101	98	80							\$19
3F-A90	070	0.14	10.9	Sones	0.3	0.3	0.3	0.4							φιε
SP-A110	950	0.16	19.4	CFM	130	119	115	98							\$19
SF-ATTU	930	0.10	19.4	Sones	0.3	0.3	0.3	0.5							φιε
SP-A125	1010	0.19	23	CFM	144	130	127	109							\$25
3F-A123	1010	0.19	23	Sones	0.4	0.4	0.4	0.6							φΖί
SP-A190	1400	0.45	54.2	CFM	229	214	210	186	156						\$26
3F-A190	1400	0.40	54.2	Sones	2.5	2.1	2.1	1.8	1.6						اعرب
SP-A200	900	0.47	56.1	CFM	267	246	242	224	199	162	109	68			\$20
3F-AZUU	900	0.47	30.1	Sones	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.5			اعق
SP-A250	1000	0.56	67	CFM	294	274	271	250	230	201	147	92			\$26
01 -A230	1000	0.50	07	Sones	2.5	2.5	2.5	3.0	3.5	4.0	5.0	5.0			ΨΖί
SP-A290	1050	0.72	80.7	CFM	315	293	287	257	231	207	175	124			\$29
3F-A290	1030	0.72	60.7	Sones	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.5			φ2:
SP-A390	1350	1.34	135	CFM	410	395	391	368	345	325	307	279			\$3
OI -M330	1000	1.54	155	Sones	4.5	4.5	4.5	4.5	5.0	5.0	5.5	5.5			ψυ
SP-A410	1000	1.74	121	CFM	443	413	405	351	306						\$33
3F-A410	1000	1.74	121	Sones	3.5	3.0	3.0	3.0	3.5						φοι
SP-A510	1070	3.30	224	CFM	557	512	501	439	392	325					\$40
01 -A010	1070	3.30	224	Sones	5.0	4.5	4.5	4.5	4.5	4.0					ΨΨ
SP-A700	1100	3.20	350	CFM	757	730	723	700	679	649	613	560	494	396	\$49
JI *A/UU	1100	3.20	330	Sones	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.5	6.5	6.5	943
SP-A710	1080	4.40	285	CFM	752	714	701	653	588	486	320				\$50
or-Ai IU	1000	4.40	200	Sones	6.0	6.0	6.0	6.0	6.0	5.5	5.5				ادھ
SP-A780	1600	3.30	348	CFM	812	782	775	741	704	665	625	581			\$5
DF -A7 OU	1000	3.30	340	Sones	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0			\$0



DIMENSIONA	<u>L DAIA</u>		MODEL SPA900-A1550							
Model	A	В	C	D	E	Grille Size	Wt.			
A900-A1550	233/4	14 ³ /8	14 ¹ / ₂	17 ⁷ / ₁₆	8	25 x 16 ³ / ₈	56			

PERFORMANCE DATA

Model	RPM	AMP	Watts	CFM/STATIC PRESSURE IN INCHES OF W.G.									Price									
Model		Aim	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	Each									
CD 4000	050	4.00	005	CFM	955	907	896	841	773	701			#700									
SP-A900	SP-A900 950 4.0	4.00	285	Sones	4.0	5.0	5.0	5.0	5.0	5.0			\$738									
SP-A1050	1005	0.00	400	CFM	1125	1059	1043	964	885	796	662		\$738									
5P-A1000	1095	6.30	6.30	6.30	6.30	6.30	0.30	0.30	0.30	0.30	0.30	420	Sones	6.0	6.0	6.0	6.0	5.5	5.5	5.5		\$738
CD 41410	1450	7.40	700	CFM	1455	1415	1404	1353	1307	1262	1218	1174	ሱ 700									
SP-A1410 1450	1450	1450	7.40	786	Sones	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	\$738								
CD A1FF0	1010	0.00	010	CFM	1607	1558	1558	1506	1449	1407	1369	1323	ው በተር									
SP-A1550	1610	8.60	818	Sones	10.5	10.0	10.0	10.0	10.0	10.5	11.5	13.0	\$816									

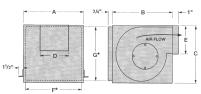
Performance shown is for Model SP exhaust for installation type B: Free Inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper in the airsteam Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type B: free inlet sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

MODEL CSP INLINE CABINET FANS





The Model CSP fan is designed for inline discharge, intake and air boosting applications with a duct system. The fan housing is constructed of corrosion resistant galvanized steel lined with sound absorbing insulation for quiet operation. Removable bottom housing panel allows easy access to the power assembly for inspection or service. Angle mounting brackets can be adjusted to any typical ceiling material thickness. Outlet duct connection with integral backdraft damper can be converted from horizontal to vertical discharge. Fan scroll is constructed of galvanized steel. Fan wheels are double width forward curved centrifugal type for CSP A-110-A780. CSP A900-A1550 have twin double width forward curved wheels in separate scrolls driven by a single motor. All wheels are dynamically balanced for vibration free operation. Motors for CSP A110-A1550 are 115/60/1. Motors are sized to match fan loads and mounted on vibration isolators. Power assemblies can be easily unplugged and removed for inspection or service.





CSP A110-A780

DIMENSIONAL DATA MODEL CSP B110-A780

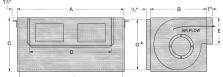
				Outlet		Inlet		
Model	Α	В	C	D	E		G	Wt.
B110, 150, 200	13 ⁷ /8	11 ¹ / ₂	7	6	1 ¹ / ₄	13 ¹ / ₂	31/4	10
A110, 125, 190	12 ⁷ /8	10 ⁵ /8	9	8	6	12	91/4	16
A200, 250, 290, 390	14	11 ⁷ /8	11 ¹ / ₄	8	8	12 ⁷ /8	10	23
A410, 510	18	14 ³ / ₈	14 ¹ / ₂	8	8	16 ⁷ /8	13 ¹ / ₄	36
A700	235/8	11 ⁵ /8	115/8	19 ¹ / ₂	8	225/8	10 ¹ / ₂	34
A710, 780	18	143/8	141/2	10	8	16 ⁷ /8	13¹/₄	36

PERFORMANCE DATA

For complete dimension	onal information, see submittal drawings
*Inlet Dimensions	**Optional Discharge Posititon

Model	RPM	AMP	Watts				CF	M/STATIC P	RESSURE IN	INCHES OF	W.G.				Price
Monei	nrw	AWIF	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	Each
CSP-B110	950	1.14	80	CFM	103	100	100	98							\$142
GOP-DITU	950	1.14	00	Sones	1.5	1.5	1.5	2.0							\$142
CSP-B150	1050	1.7	129	CFM	151	150	149	148							\$158
COF-0100	1030	1.7	129	Sones	2.0	2.0	2.0	2.0							\$100
CSP-B200	1100	2.2	173	CFM	186	184	184	182							\$177
001 -D200	1100	2.2	173	Sones	3.0	3.0	3.0	3.0							Ψ177
CSP-A110	950	0.62	20	CFM	124	112	110	102	77						\$225
001 -A110	330	0.02	20	Sones	0.8	0.8	0.8	0.9	0.9						Ψ223
CSP-A125	1100	0.63	33	CFM	138	126	124	114	91						\$225
001 -A123	1100	0.03	33	Sones	1.1	1.1	1.1	1.0	1.2						Ψ223
CSP-A190	1400	1.10	55	CFM	215	202	198	180	159	121					\$266
001 A130	1400	1.10	- 55	Sones	2.0	1.5	2.0	2.0	2.5	2.5					ΨΣΟΟ
CSP-A200	900	0.43	58	CFM	254	231	226	203	178	145	109	70			\$267
001 A200	300	0.40	30	Sones	0.6	0.4	0.5	0.9	1.0	1.3	1.5	1.5			ΨΖΟΊ
CSP-A250	1000	0.79	67	CFM	266	246	241	221	205	187	165	132			\$267
001 A230	1000	0.75	07	Sones	0.9	1.0	1.0	2.0	2.5	3.0	2.5	2.5			Ψ201
CSP-A290	1050	0.71	102	CFM	318	299	292	265	248	229	201	144			\$295
001 -A230	1030	0.71	102	Sones	1.1	1.2	1.3	2.0	2.5	3.5	3.0	3.0			Ψ233
CSP-A390	1350	1.33	161	CFM	412	400	397	382	363	339	324	309			\$312
001 A030	1000	1.00	101	Sones	2.0	2.0	2.0	2.5	3.0	4.0	4.5	4.5			ψ31Z
CSP-A410	1000	1.87	132	CFM	447	441	403	364	317	217					\$332
001 A+10	1000	1.07	102	Sones	1.5	1.5	1.5	2.0	2.0	2.0					Ψ332
CSP-A510	1070	3.11	218	CFM	545	514	506	464	405	324					\$403
001 A010	1070	0.11	210	Sones	2.5	2.0	2.0	2.0	2.0	2.5					ψ+00
CSP-A700	1100	3.20	352	CFM	766	755	752	739	726	702	678	635	549	418	\$494
001 A700	1100	3.20	002	Sones	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	4.0	φτστ
CSP-A710	1080	4.40	333	CFM	737	698	688	635	567	475	334				\$505
001 AI 10	1000	UF. F	000	Sones	2.5	2.5	2.5	2.5	2.0	2.0	2.0				Ψυσυ
CSP-A780	1600	3.77	496	CFM	813	784	777	742	707	672	638	603	567	527	\$505
001 A700	1000	0.77	730	Sones	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0			Ψ303





DIMENSIONAL	. Data	N M	ODEL	CSP A	1 <i>900-1</i>	4 <i>1550</i>)
Barrier I			_		_	_	

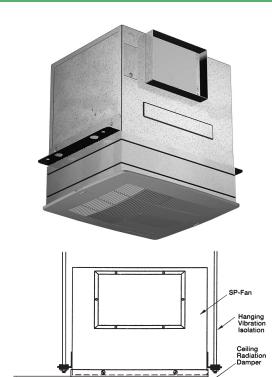
Model	A	В	C	D	E	F	G	Wt.
900, 1050, 1410, 1550	233/4	143/8	141/2	183/4	8	225/8	131/4	59

		*Inlet Dimensions **Optional Discharge Posititon
PERFORMANCE DATA	+ F*	For complete dimensional information, see submittal drawings.

EIII OIIII	17 1110E	271171														
Model	RPM	AMP	Watts		CFM/STATIC PRESSURE IN INCHES OF W.G.										Price	
Model		A	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	Each	
CSP-A900	950	4.87	205	CFM	908	852	841	782	715	631					\$738	
CSP-A900	950 4.6	950	4.07	335	Sones	1.4	1.4	1.4	2.0	2.5	3.0					\$738
CSP-A1050	1095	6.65	469	CFM	1182	1110	1093	1013	922	832	743				\$738	
G5P-A1000	1095	0.00	409	Sones	2.5	2.5	2.5	2.5	2.5	2.5	2.5				φι 30	
CCD 41410	1450	7.00	871	CFM	1584	1543	1533	1483	1439	1395	1345	1293	1238	1181	\$738	
CSP-A1410	1450 7.80	1400	7.80	8/1	Sones	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	\$738
CCD A1FF0	1610	8.32	913	CFM	1672	1618	1604	1543	1484	1427	1367	1307	1240	1172	\$816	
CSP-A1550	1010	8.32	913	Sones	5.0	4.5	4.5	4.5	4.5	4.0	4.0	4.5	4.5	4.5	фото	
Model 5W (6 Amp) Solid State Speed Controller (CSP-B110 - B200, CSP-A110 - A900)										\$49						
Model 10W (1	0 Amn) Soli	d State Spec	ed Controller (C	SP-A1050 - A1	550)										\$95	

SP AND CSP ACCESSORIES





CEILING RADIATION DAMPER

National Fire Protection Association (NFPA) Standard 90A requires that openings in fire rated ceiling/floor assemblies must be protected by appropriately rated ceiling radiation dampers.

As a result, many local codes require that fans installed in fire rated ceilings must also be protected by dampers which are insulated against both heat and flame.

The Greenheck SP (60 Series) ceiling radiation damper option protects fire rated ceilings and effectively blocks the spread of heat and flames through the building's ventilation system. This damper is U.L. Classified, rated at three to four hours fire resistance, and is available for SP fan sizes 50 through 1550. Its non-asbestos, ceramic blanket provides the required thermal barrier for fire rated ceilings while also protecting both the fan and the ductwork. The ceramic blanket stows compactly against the damper frame to permit maximum free area and eliminate performance losses.

Once the accumulation of heat in the airstream reaches the temperature limits of the fusible link, the closure mechanism is activated. Stainless steel closure springs draw the ceramic blanket securely over the damper opening. Standard fusible links activate at air temperatures of 165°F. Other links are available.

The galvanized steel frame of the ceiling radiation damper is sized to match the Model SP housing. This design saves space by allowing the damper to mount directly beneath the fan. The damper adds approximately 3" in height to the combined installation.

DIMENSIONAL DATA

SP Model	CRD Size	A	В	Material Gauge	Price Each
A50-A190	310	13 ¹ / ₂	11 ¹ /8	22	\$77
B50-B-200 A200-A390	320	14 ³ / ₈	12¹/₄	22	\$83
A410-A510 A710-A780	350	187/16	14 ¹⁵ / ₁₆	22	\$115

TERMS

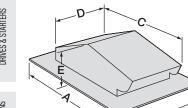


- CFM Cubic Feet Per Minute. A measure of air flow quantity.
- SP Static Pressure. Resistance to airflow measured in inches of water column.
- Sone A measure of loudness. One sone can be approximated as the loudness of a quiet refrigerator at adistance of 5 feet. Sones follow a linear scale, that is, 10 sones are twice as loud as 5 sones.
- BHP Brake Horsepower. A measure of power consumption. Used to determine the proper motor horsepower and wiring.
- HP Horsepower. Measure of a motor's power output. Used to indicate a fan's motor size.

- RPM Revolutions Per Minute. Measure of fan speed.
- TS Tip Speed. The speed of the tip of a fan wheel or prop measured in feet per minute.
- AMCA Air Movement and Control Association. A nationally recognized association which establishes standards for fan testing and performance ratings. Certifies air volume and sound ratings.
- U.L. Underwriters Laboratories. An organization which estalishes and operates product safety certification programs and tests products for safety.

SP AND CSP DISCHARGE ACCESSORIES



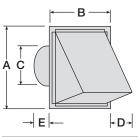


MODEL RJ Pitched Roof Cap

- Steel construction with black enamel finish
- · Integral flashing flange
- · Built in birdscreen and damper

Model	For use with sizes	А	В	С	D	E	Throat Dia.	Price Each
RJ-4	B50-B80	11	91/4	8 ¹ / ₄	55/16	41/2	4 in. Dia.	\$40
RJ-6x9	B90-B200 A50-A390	183/4	141/4	141/2	103/8	61/2	6 x 9	\$48
RJ-10x10	A410-A1050	18 ¹ / ₂	271/2	15³/ ₄	235/8	91/2	10 x 10	\$108

All dimensions in inches.

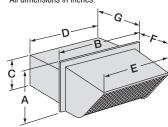


MODEL WC & SDWVA (Rounded Connection) Hooded Wall Cap

- Aluminum construction-Aluminum finish
- · For outside wall applications
- Built in damper
- Bird screen (not available on WC-4)

Model	For use with sizes	A	В	C	D	E	Price Each
WC-4	B50-B80	61/2	6	4	23/4	5	\$31
WC-6	B90-B200 A50-A190	8	8	6	41/8	5	\$38
WC-8	A200-A510	11	11	8	5 ¹ /8	31/2	\$59
SDWVA-10	10" Round	131/2	13	10	7	81/2	\$71
SDWVA-12	12" Round	141/2	14	12	9	81/2	\$84

All dimensions in inches

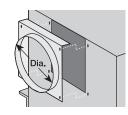


MODEL WC (Rectangular Connection) Hooded Wall Cap

- · Steel construction with black enamel finish
- For outside wall applications
- Built in damper
- · Built in birdscreen and damper

Model	For use with sizes	А	В	С	D	E	F	G	Price Each
WC-10x3	50-290	5 ¹ / ₂	12 ³ / ₄	31/2	101/4	11 ¹ /8	41/4	5	\$35
WC-8x8	200-510	10 ¹ / ₄	10 ¹ / ₄	81/4	81/4	81/4	63/4	5	\$66
WC-18x8	700-1550	10 ¹ / ₄	201/4	81/4	18 ¹ / ₄	18 ¹ / ₄	63/4	5	\$129

All dimensions in inches



MODEL RDC Round Duct Connector

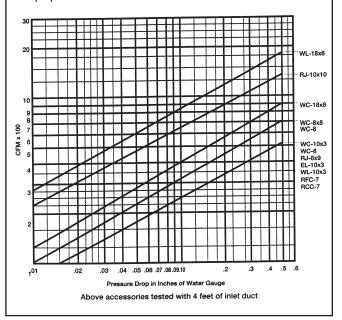
- Replaces the standard square discharge duct connector and damper
- Uses existing mounting holes
- · Galvanized steel construction
- RDC-8 does not include a damper

Model	For use with sizes	Dia.	Price Each
RDC-6	A110-A190	6	\$24
RDC-8	Δ200-Δ510	8	\$30

All dimensions in inches

ACCESSORY PRESSURE DROPS

The chart below can be used with all of the discharge accessories shown on these two pages. Specific pressure drop values for these accessories must be included in total system calculations for proper fan selection.



31/2" 91/2"

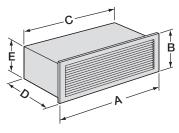
MODEL EL - 10X3

Elbow Discharge with Grille

- Designed for installation under roof eaves
- Painted steel louvered grille
- Built in damper
- For SP-C/SP-B/SP-A sizes 50-290
- For CSP-B/CSP-A sizes 110-290

Model	For use with sizes	Price Each
EL-10x3	50-290	\$56

All dimensions in inches.



MODEL WL Wall Louvered Discharge

- Anodized aluminum grille
- · Built in damper
- Not recommended for exterior applications exposed to severe weather conditions. An external wall louver is recommended for such applications.

Model	For use with sizes	Α	В	C	D	E	Price Each
WL-10x3	50-290	12	5 ¹ / ₄	10	73/4	31/2	\$168
WL-18x6	390-1550	193/4	8	18	9	6	\$227

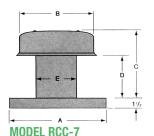
All dimensions in inches

STEAM SPECIALTIES

SP AND CSP ACCESSORIES



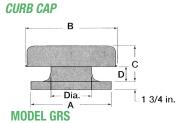
ROOF DISCHARGE ACCESSORIES



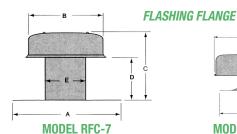
- Weathertight aluminum
- Built in curb capRequires roof curb

construction

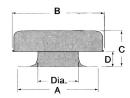
Integral birdscreen



- All aluminum exterior construction
- Galvanized steel internal supports
- · Integral birdscreen
- · Built in curb cap
- · Requires roof curb



- Weathertight aluminum construction
- · Integral birdscreen
- · Built in flashing flange



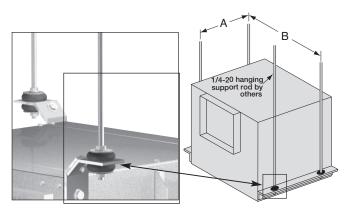
MODEL GRSF

- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built in flashing flange

		WIT	TH CURB (CAP			
Model	For use with sizes	A	В	С	D	Throat Dia.	Price Each
RCC-7	50-390	15	12	10	63/8	7	\$134
GRS-8	50-390	19	201/2	71/4	11/2	81/4	\$172
GRS-10	410-710	19	201/2	73/4	2	10 ¹ / ₄	\$188
GRS-12	780-1050	22	29	10	31/2	121/4	\$214
GRS-16	1410-2150	26	29	11	41/4	16 ⁵ / ₁₆	\$282
GRS-20	3600	30	351/2	11 ¹ / ₄	33/4	205/16	\$349

	WITH FLASHING FLANGE										
Model	For use with sizes	A	В	С	D	Throat Dia.	Price Each				
RFC-7	50-390	18	12	10	63/8	7	\$124				
GRSF-8	50-390	23	201/2	71/4	11/2	81/4	\$160				
GRSF-10	410-710	23	201/2	73/4	2	10¹/4	\$178				
GRSF-12	780-1050	26	29	10	31/2	12 ¹ / ₄	\$196				
GRSF-16	1410-2150	30	29	11	41/4	16 ⁵ / ₁₆	\$263				
GRSF-20	3600	34	351/2	11 ¹ / ₄	33/4	205/16	\$328				

HANGING VIBRATION ISOLATORS



Vibration isolator kits are available for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of ¹/4-20 threaded rod to be supplied by others. Fan mounting brackets include prepunched mounting holes for ease of installation.

SP/CSP Size	Α	В	Price Each
B50-B200	41/2	155/8	\$27
A50-A190	51/2	14 ⁵ /8	\$27
A200-A390	63/4	15 ¹ / ₂	\$27
A410, A510 A710, A780	91/4	195/8	\$27
A700	51/2	25 ¹ / ₈	\$27
A900-A1050 A1410-A1550	91/4	253/8	\$27

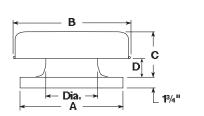
All dimensions in inches.

ROOF VENTILATORS



MODEL GRS GRAVITY INTAKE/RELIEF VENTILATOR

Model GRS is an aluminum ventilator designed to be used as an intake or relief unit on natural gravity or positive pressure systems. The GRS appearance blends with other Greenheck products and, with its low silhouette, avoids the problem of detracting from architectural aesthetics.



DIMENSIONAL DATA AND PRICES

	DIMENSIONAL DATA AND I HIGES												
MODEL	A	A B C D		D	Throat	Throat area	Price	12" Cu		100 Da Re	amper lief	410 Da Int	amper ake
					Dia.	(FT²)	Each	Model	ADD	Size	ADD	Size	ADD
GRS-8	19	201/2	71/4	11/2	81/4	0.37	\$172	19	\$93	8 x 8	\$53	8 x 8	\$96
GRS-10	19	201/2	73/4	2	101/4	0.57	\$188	19	\$93	10 x 10	\$57	10 x 10	\$98
GRS-12	22	29	10	31/2	121/4	0.82	\$214	22	\$102	12 x 12	\$60	12 x 12	\$98
GRS-15	22	29	10	31/2	141/4	1.12	\$272	22	\$102	16 x 16	\$68	16 x 16	\$127
GRS-16	26	29	11	41/4	165/16	1.45	\$282	26	\$123	16 x 16	\$68	16 x 16	\$127
GRS-18	30	351/2	73/4	13/4	201/4	1.83	\$339	30	\$143	18 x 18	\$88	18 x 18	\$154
GRS-20	30	351/2	11¹/₄	33/4	205/16	2.25	\$349	30	\$143	18 x 18	\$88	18 x 18	\$154
GRS-24	34	381/4	11	4	241/2	3.24	\$516	34	\$163	24 x 24	\$157	24 x 24	\$182

General Ventilation Design Ventilation Rates for Acceptable Indoor Air Quality

Ventulation hates for Acceptable mucor Air quanty												
Space	Outdoor Air Required (CFM/person)	Occupancy (People/ 1000 ft²)	Space	Outdoor Air Required (CFM/person)	Occupancy (People/ 1000 ft²)							
Auditoriums	15	150	Laboratories	20	30							
Ballrooms/Discos	25	100	Libraries	15	20							
Bars	30	100	Medical Procedure Rooms	15	20							
Beauty Shops	25	25	Office Spaces	20	7							
Classrooms	15	50	Pharmacies	15	20							
Conference Rooms	20	50	Photo Studios	15	10							
Correctional Facility Cells	20	20	Physical Therapy	15	20							
Dormitory Sleeping Rooms	15	20	Restaurant Dining Areas	20	70							
Dry Cleaners	30	30	Retail Facilities	15	20							
Gambling Casinos	30	120	Smoking Lounges	60	70							
Game Rooms	25	70	Sporting Spectator Areas	15	150							
Hardware Stores	15	8	Supermarkets	15	8							
Hospital Operating Rooms	30	20	Theaters	15	150							
Hospital Patient Rooms	25	10										

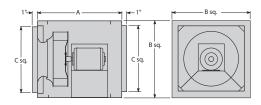
^{*}Adapted from ASHRAE Standard 62-1989 "Ventilation for Acceptable Indoor Air Quality".

INLINE CENTRIFUGAL FANS



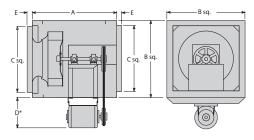


MODEL SO DIRECT DRIVE DIMENSIONS



Unit Size	A	В	C	E
SQ 80-95	16	15	11 ⁷ /8	1
SQ 100	21	17	13 ⁷ /8	1
SQ 120	21	19	15 ⁷ /8	1

MODEL BSQ BELT DRIVE DIMENSIONS



Unit Size	A	В	C	D*	E
BSQ 70-80-90	21	17 ¹ /8	13 ⁷ /8	9	1
BSQ 100	21	17¹/8	13 ⁷ /8	9	1
BSQ 120	21	19 ¹ /8	15 ⁷ /8	9	1
BSQ 140	22	23 ¹ /8	19 ⁷ /8	9	1
BSQ 160	26	26 ¹ /8	22 ⁷ /8	11	1
BSQ 180	28	271/8	237/8	11	1 ¹ /2

^{*}Varies with motor size.

MODEL SQ AND BSQ

Model SQ and BSQ inline duct fans are designed for intake, exhaust, return or makeup air systems that require high efficiency, mounting versatility, low sound levels and ease of service. The square, compact housing design permits mounting in any position, whether horizontal, vertical or at any angle. Two removable panels provide access for service. Models SQ and BSQ are licensed to bear the AMCA Certified Ratings Seals for sound and air performance. BSQ models with motors mounted and all SQ sizes are UL listed.

CONSTRUCTION FEATURES

- Galvanized steel housing.
- Two removable service panels.
- · Formed collars for duct connection at inlet and outlet.
- Flexible motor leads and combination junction box and disconnect switch (standard).
- BSQ motors, bearings and drives are mounted out of the airstream and are cooled by ambient air.

STOCK NOTES

• Model SQ Direct Drive

SQ motors are 115/60/1. All fans can be used with a speed control and offer thermal overload protection.

SQ-90 and 95 are equipped with 3-speed motors, field wired for either 1050, 1300 or 1500 RPM and can be shipped UPS.

SQ-90 and 95 are constant speed, totally enclosed. SQ100 are constant speed, open drip proof. (Contact your salesman for other styles.)

 \bullet Vari-Green® motor - 80% turndown, 85% efficient.

Available on select sizes.

Model BSQ Belt Drive

Motors 1/4 HP are 115/60/1.

Motors 1/3 & 1/2 HP, 1 PH are 115/208-230/60/1 and wired for 115 volts. Motors 1 HP, 3 PH and larger are 208-230/460/60/3 are wired for 208-230 volts

BSQ motors are constant speed, open drip proof. (Contact your salesman for other styles.)

Units are shipped preset for maximum RPM and are adjustable. BSQ sizes 70 through 90 are stocked with motors mounted and HP ratings as cataloged.

BSQ sizes 100, 120, 140, 160, 180 are stocked less motors and drives. See page 21.

Specify fan RPM, motor HP, voltage and phase required. Motor and drive will be shipped separate for field installation.



ANS / DAMPERS

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT /

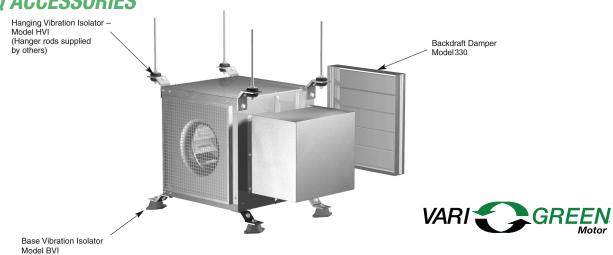
SPIRAL PIPE ACCESSORIES

PERFORMANCE DATA AND PRICING MODEL SQ

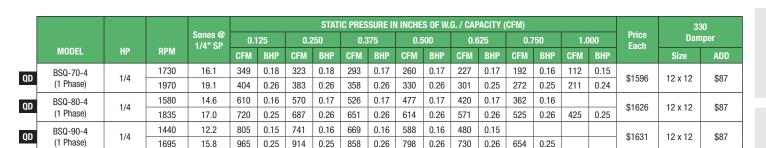


STATIC PRESSURE IN INCHES OF W.G. / CA								N.G. / CAPA	CITY (CFM)			33			
MODEL					Max.	0.000	0.100	0.125	0.250	0.375	0.500	0.625	Price Each	Dam	
MODEL		HP	RPM	TS	ВНР	Sones	Sones	Sones	Sones	Sones	Sones	Sones		Size	ADD
SQ-80-VG6X		1/6	1725	4412	.055	503	461	451	405	350	294		\$1138	12 x 12	\$82
5U-00-VG0X		1/0	1720	4412	.055	8.4	8.5	8.6	8.6	8.6	8.7		\$1130	12 X 12	Φ02
	Е	1/50	1050	2989	.020	500	399	369	188						
		1/30	1030	2303	.020	4.0	3.9	3.9	4.1						
SQ-90	G	1/25	1300	3701	.040	619	539	519	397	245			\$672	12 x 12	\$82
3Q-30	u	1/23	1300	3701	.040	5.4	5.4	5.4	5.5	5.6			ψυτΖ	12 1 12	ψυΖ
	D	1/10	1550	4412	.068	738	673	654	564	457	334				
	, D	1/10	1330	4412	.000	7.6	7.5	7.5	7.4	7.4	7.4				
	Е	1/30	1050	2989	.031	623	507	475	274						
		1/30	1030	2303	.031	4.9	4.5	4.5	4.5					2 12 x 12	\$82
SQ-95	G	1/15	1300	3701	.059	771	684	659	522	352			\$672		
3Q-93	u	1/13	1300	3701	.059	7.6	6.8	6.7	6.4	6.4			φ012	12 X 12	φυΖ
	D	1/8	1550	4412	.100	919	852	829	720	603	461	276			
		1/0	1000	4412	.100	9.6	9.4	9.3	8.7	8.1	7.6	7.1			
SQ-95-VG6X		1/6	1725	5050	.100	1024	1000	948	850	751	641	507	\$1188	12 x 12	\$82
3Q-33-VQ0X		1/0	1725	3030	.100	11.3	11.1	11.0	10.6	10.1	9.8	9.2	ψ1100	12 X 12	ψυΖ
SQ-100-A		1/4	1725	5052	.250	1454	1413	1402	1349	1292	1227	1156	\$962	14 x 14	\$89
3Q-100-A		1/4	1723	3032	.230	13.1	12.5	12.4	11.9	11.5	11.1	10.7	ψυυΖ	14 7 14	φυσ
SQ-120-VG5X		1/2	1725	5927	.41	1948	1897	1883	1818	1754	1692	1628	\$1672	16 x 16	\$97
0Q 120 V03X		1/2	1725	3321	.71	14.7	14.4	14.1	13.8	13.6	13.5	13.5	Ψ1072	10 x 10	ψυτ
BAS 1P Magnetic	BAS 1P Magnetic Starter W/DIS											- \$164			
Hanging Rubber Vibration Isolator Kit (HVI-250)										\$83					
Base Rubber Vibration Isolator Kit (BVI-250)										\$114					
Mounting Bracke	ets (80	0201)											\$53		
Model 5W (6 Am	p) Soli	d State S	peed Cor	itrol (thru	Size 100)							\$49		

SQ & BSQ ACCESSORIES



BSQ PERFORMANCE DATA - MOTORS & DRIVES FACTORY MOUNTED



BSQ PERFORMANCE DATA - MOTORS & DRIVES FIELD MOUNTED

				Sones				STAT	IC PRES	SURE II	N INCHE	S OF W.	G. / CAP	ACITY ((CFM)					33	0		
				@ 1/4"	0.1	25	0.2	50	0.3	375	0.5	i00	0.6	25	0.7	'50	1.0	000	Price Each	Dam	per	Sta	rters
MODEL	HP	PH	RPM	SP	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	Luon	Size	ADD	STD	W/DIS
	1/4	1	1610	15	1266	0.25	1207	0.26	1149	0.26	1089	0.26	1004	0.26	917	0.26			\$1636				\$200
BSQ-100	1/3	1	1765	16.3	1398	0.32	1345	0.33	1292	0.34	1240	0.34	1179	0.34	1101	0.34	924	0.34	\$1692	14 x 14	\$107		\$200
	1	3	2555	26	2065	0.96	2028	0.98	1991	0.99	1954	1.01	1917	1.02	1880	1.03	1809	1.05	\$2037			\$639	\$887
BSQ-120-4	1/4		1210	9.2	1283	0.17	1192	0.17	1098	0.18	992	0.18	860	0.18					#1700	1010	0117		0000
(1 Phase)	1/4		1370	11.0	1475	0.24	1395	0.25	1315	0.26	1230	0.26	1135	0.26	1025	0.26			\$1733	16 x 16	\$117		\$200
	1	3	1710	18	3160	0.95	3096	0.97	3029	0.98	2954	0.99	2879	1.00	2800	1.02	2637	1.05	\$2182				
BSQ-140	1 1/2	3	1960	24	3640	1.42	3584	1.44	3528	1.46	3469	1.48	3403	1.49	3338	1.50	3201	1.53	\$2215	20 x 20	\$143	\$639	\$887
	2	3	2135	29	3974	1.83	3923	1.85	3871	1.88	3820	1.90	3763	1.92	3703	1.93	3583	1.95	\$2258				
	1	3	1390	17.5	3920	0.90	3827	0.93	3734	0.95	3637	0.97	3525	1.00	3412	1.02	3157	1.05	\$2516				
BS0-160	1 1/2	3	1590	22	4509	1.34	4428	1.37	4346	1.41	4265	1.43	4184	1.45	4085	1.48	3887	1.53	\$2549	00 00	0174	0000	0007
BSQ-160	2	3	1750	27	4978	1.78	4904	1.81	4831	1.85	4757	1.88	4683	1.91	4609	1.93	4431	1.99	\$2592	23 x 23	\$174	\$639	\$887
	3	3	2000	38	5709	2.64	5645	2.68	5580	2.72	5516	2.77	5451	2.81	5386	2.83	5256	2.89	\$2942				
	1	3	1140	16.1	4544	0.94	4407	0.96	4264	0.99	4122	1.00	3944	1.03	3755	1.04	3282	1.04	\$2526				
D00 100	1 1/2	3	1310	19.6	5259	1.41	5445	1.44	5020	1.47	4896	1.50	4771	1.52	4629	1.54	4301	1.58	\$2559	04 04	0174	0000	0007
BSQ-180	2	3	1440	23	5802	1.87	5698	1.90	5589	1.93	5476	1.96	5363	1.99	5250	2.01	4979	2.07	\$2602	24 x 24	\$174	\$639	\$887
	3	3	1645	28	6656	2.78	6565	2.81	6474	2.84	6376	2.88	6277	2.92	6178	2.95	5980	3.01	\$2952				

ACCESSORIES



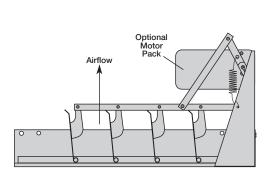
DESCRIPTION	Fan Size	Price Each
Hanging Rubber Vibration Isolator Kit HVI-250	BSQ 70-140	\$106
Hanging Rubber Vibration Isolator Kit HVI-440	BSQ 160-180	\$153
Base Rubber Vibration Islator Kit BVI-250	BSQ 70-140	\$145
Base Rubber Vibration Isolator Kit BVI-440	BSQ 160-180	\$191
Mounting Bracket 800201	SQ & BSQ	\$68

VAV TERMINALS / HOT WATER COILS

BACKDRAFT DAMPERS



All dampers feature a frame constructed of heavy gauge galvanized steel with prepunched mounting holes for ease of installation. Blades are fabricated with vinyl on the closing edge. Each blade pivots on nylon bushings to assure quiet and smooth operation. Optional 120V motor packs are available for field mounting.

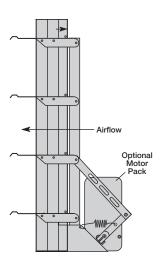


	Damper Size Sq.	Price Each	Add Motor Pack
	8 x 8	\$53	\$101
1	10 x 10	\$57	\$101
	12 x 12	\$60	\$101
	16 x 16	\$68	\$101
	18 x 18	\$88	\$101
	24 x 24	\$157	\$101
QD	30 x 30	\$198	\$101

Motor Pack is MP100/120/60/1V

MODEL 100

- Model 100 dampers are designed for use with all Greenheck roof mounted exhaust fans.
- Sizes 12 through 30 are spring assisted to aid in initial opening on gravity operated models.
- Sizes 8 through 30 can be shipped UPS.



Damper Size Sq.	Price Each	Add Motor Pack
10 x 10	\$86	\$193
12 x 12	\$92	\$193
14 x 14	\$100	\$193
16 x 16	\$115	\$193
18 x 18	\$121	\$193
20 x 20	\$151	\$193
22 x 22	\$184	\$193

Motor Pack is MP300/120/60/1V

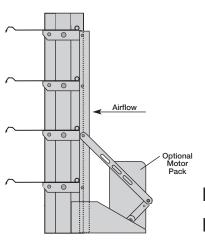
MODEL 320

- Model 320 dampers are designed for use with Greenheck sidewall propeller fans.
- A tie bar is added to assure uniform blade opening and to counter balance the weight of the blade assembly allowing the damper to open fully at minimal airflow.
- NOTE: 320 is exhaust only.
 Sizes 10 through 22 can be shipped UPS.

QD - Orders received in Greensboro warehouse by 11:00 a.m. EASTERN TIME will normally ship within 24 hours. Call TOLL-FREE: 1-800-334-0254.

BACKDRAFT DAMPERS





	Damper Size Sq.	Price Each	Add Motor Pack
	8 x 8	\$70	\$193
	9 x 9	\$77	\$193
	10 x 10	\$77	\$193
	12 x 12	\$82	\$193
	14 x 14	\$89	\$193
	16 x 16	\$97	\$193
QD	18 x 18	\$143	\$193
QD	20 x 20	\$143	\$193
QD	23 x 23	\$174	\$193
QD	24 x 24	\$174	\$193

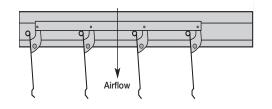
Motor Pack is MP300/120/60/1V

MODEL 330

- Model 330 dampers have been designed for application with Greenheck's SQ in-line fans and when a no flange damper is required. A balanced design affords minimal resistance to airflow.
- Sizes 8 through 24 can be shipped UPS.

I	10	D	E	4	1	0

- Model 410 non-motorized dampers are designed for use with Greenheck's model RSF and GRS supply fans, and Fabra Hoods.
- All sizes can be shipped UPS.



Damper Size Sq.	Price Each
8 x 8	\$96
10 x 10	\$98
12 x 12	\$98
16 x 16	\$127
18 x 18	\$154
24 x 24	\$182

NOTE: Actual damper size is 1/16" smaller than nominal size.

Orders received in Greensboro warehouse by 11:00 a.m. EASTERN TIME will normally ship within 24 hours. Call TOLL-FREE: 1-800-334-0254.

ELECTRICAL ACCESSORIES



DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

ELECTRIC HEATERS / FILTERS & ACCESSORIES

FAN SPEED CONTROL

GREENHECK

Vari-Speed

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

> Model 5W – For applications up to 6.0 AMPS. Requires 2 x 4 handy box by others.

Price Each: \$49.00

Model 10W - For applications up to 10.0 AMPS. Requires 2 x 4 handy box by others.

Price Each: \$95.00



MANUAL STARTER **SWITCH**

Manual motor starting switches are available in three models. All models are U.L. Listed, HP rated, specification grade and feature neoprene rockers for quiet operation. Model MS-16 includes a pilot light. All models require a handy box by others.





Model 867008- Vari Green Remote Dial Retrofit Kit. Requires 2 x 4 handy box by others.

Price Each: \$285.00

Speeds	Model	НР	Volts	PH	Price
1	MS-1	1/2	120	1	\$8
1	MS-16 w/pl	1/2	120	1	\$32
1	MS-4	2	200/277	1	\$18

TIME DELAY SWITCH



MODEL GTD

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

Price Each: \$118.00

DISCONNECT SWITCHES



For safety in servicing fans not equipped with factory mounted disconnects, switches are available in seven models. Each model includes a switch assembly, handy box and cover plate.

Weatherproof Disconnect Switches in NEMA rated waterproof boxes for positive electrical shutoff and safety in servicing fans. NEMA 3R toggle style switch models are listed below.

THERMOSTAT ETD9STS



Wall-mounted line voltage thermostat is designed for on/off control in cooling or heating applications. Recommended for fan and unit heater applications only. U.L. listed. Requires standard handy box (not included).

Temperature Range: 50 - 90 F **Electrical Rating:** 22 amps @ 125/277 VAC

3/4 hp @125 VAC, 1-1/2 hp @ 277 VAC

Price Each: \$31.00

Model	HP	Volts	PH	Price
STANDARD				
NITS -1	up to 1/2	120	1	\$10
NITS -2	3/4 to 1	120	1	\$14
NITS -3	1-1/2 to 2	120	1	\$39
NITS -4	1/4 to 2	200/277	1	\$18
NITS -6	up to 7-1/2	230/460	3	\$53
WEATHERPRO	00F			
N3RTS-1	1/4 to 2	120	1	\$99
N3RTS-6	up to 7-1/2	230/460	3	\$105

STEAM SPECIALTIES

MAGNETIC STARTERS



MODEL BAS1/MSAC

- UL Listed
- HOA Keypad
- BAS Compatible
- Fireman's Override
- Type 1 Enclosures

ADJUS [*]	TABLE OVERLOAD -	SINGLE PHASE W/DISC	CONNECT
Model	Price Each	120V	230V
BAS 1P	\$200	0.1 - 1 HP	0.1 - 1 HP

	ELECTRO	NIC OVERLOAD - I	NEMA 1 ENCLOSU	RES	
Model	Price Each		Three Phase		NEMA
IVIOUGI	I HUG Lacii	208V	230V	460V	Size
MSAC-1-9/J-40	\$639	2 HP	2 HP	5 HP	00
MSAC-1-18/J-40	\$678	5 HP	7.5 HP	10 HP	0
MSAC-1-32/J-40	\$717	7.5 HP	10 HP	20 HP	1

ELE	CTRONIC OVERL	OAD W/DISCONN	ECT - NEMA 1 EN	CLOSURES	
Model	Price Each		Three Phase		NEMA
IVIOUGI	FIICE Lacii	208V	230V	460V	Size
MSAC-1-9/J-G2.5-40	\$887	.5 HP	.5 HP	1 HP	00
MSAC-1-9/J-G4-40	\$887	.75 HP	.75 HP	2 HP	00
MSAC-1-9/J-G6-40	\$887	1 HP	1.5 HP	3 HP	00
MSAC-1-18/J-G8-40	\$926	2 HP	2 HP	5 HP	0
MSAC-1-18/J-G13-40	\$926	3 HP	3 HP	7.5 HP	0
MSAC-1-18/J-G17-40	\$926	3 HP	5 HP	10 HP	0
MSAC-1-32/J-G26-40	\$939	7.5 HP	7.5 HP	15 HP	1
MSAC-1-32/J-G32-40	\$939	7.5 HP	10 HP	20 HP	1

FANS / DAMPERS / CURBS

> RIABLE SPEED ES & STARTERS

AC DRIVES By ABB





MODEL ACH580 - 208 VOLT

- UL Listed
- HVAC Designed
- Full Graphic Display
- Type 1 Enclosures

	MODEL:	ACH580-01-BA	ASE DRIVE		
MODEL	HP	VOLTAGE	PH	AMPS	FRAME
ACH580-01-10A6-2	3	208	3	10.6	R1
ACH580-01-017A-2	5	208	3	16.7	R1
ACH580-01-024A-2	7.5	208	3	24.2	R2
ACH580-01-031A-2	10	208	3	30.8	R2
ACH580-01-046A-2	15	208	3	46.2	R3
ACH-AP-H	Control Panel	for All ACH580 D)rives		

Contact your local salesperson for pricing.



MODEL: ACH580-	VCR-W/ ELE	CTRONIC BYF	PASS & SERV	ICE SWITCH	
MODEL	HP	VOLTAGE	PH	AMPS	FRAME
ACH580-VCR-10A6-2+F267	3	208	3	10.6	R1
ACH580-VCR-017A-2+F267	5	208	3	16.7	R1
ACH580-VCR-024A-2+F267	7.5	208	3	24.2	R2
ACH580-VCR-031A-2+F267	10	208	3	30.8	R2
ACH580-VCR-046A-2+F267	15	208	3	46.2	R3
ACH-AP-H	Control Pan	el for All ACH	580 Drives		

Contact your local salesperson for pricing.

Please note: To extend your factory one (1) year warranty to a two (2) year warranty, Check, Test and Start is required by an authorized ABB specialist. Please contact your local salesperson for more information.

AC DRIVES By ABB



MODEL ACH580 - 460 VOLT

- UL Listed
- HVAC Designed
- Full Graphic Display
- Type 1 Enclosures

	MODEL:	ACH580-01-B/	ASE DRIVE		
MODEL	HP	VOLTAGE	PH	AMPS	FRAME
ACH580-01-03A0-4	1.5	460	3	3.0	R1
ACH580-01-04A8-4	3	460	3	4.8	R1
ACH580-01-07A6-4	5	460	3	7.6	R1
ACH580-01-012A-4	7.5	460	3	12	R1
ACH580-01-014A-4	10	460	3	14	R2
ACH580-01-023A-4	15	460	3	23	R2
ACH580-01-027A-4	20	460	3	27	R3
ACH580-01-034A-4	25	460	3	34	R3
ACH580-01-044A-4	30	460	3	44	R3
ACH580-01-052A-4	40	460	3	52	R4
ACH580-01-065A-4	50	460	3	65	R4
ACH-AP-H	Control Panel	for All ACH580 [)rives		

Contact your local salesperson for pricing.



MODEL: ACH580	-VCR-W/ ELEC	TRONIC BYPAS	SS & SERVICE	SWITCH	
MODEL	HP	VOLTAGE	PH	AMPS	FRAME
ACH580-VCR-04A8-4+F267	3	460	3	4.8	R1
ACH580-VCR-07A6-4+F267	5	460	3	7.6	R1
ACH580-VCR-012A-4+F267	7.5	460	3	12	R1
ACH580-VCR-014A-4+F267	10	460	3	14	R2
ACH580-VCR-023A-4+F267	15	460	3	23	R2
ACH580-VCR-027A-4+F267	20	460	3	27	R3
ACH580-VCR-034A-4+F267	25	460	3	34	R3
ACH580-VCR-044A-4+F267	30	460	3	44	R3
ACH580-VCR-052A-4+F267	40	460	3	52	R4
ACH580-VCR-065A-4+F267	50	460	3	65	R4
ACH-AP-H	Control Pane	I for All ACH580	O Drives		

Contact your local salesperson for pricing.

Please note: To extend your factory one (1) year warranty to a two (2) year warranty, Check, Test and Start is required by an authorized ABB specialist. Please contact your local salesperson for more information.

FANS / DAMPERS / CURBS



DRIVES & STARTERS **VARIABLE SPEED**

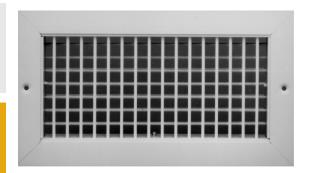
VAV TERMINALS / HOT WATER COILS

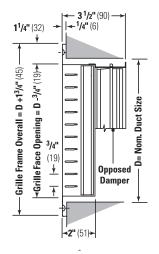
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

VIBRATION ISOLATION

STEAM SPECIALTIES

SUPPLY REGISTERS





MODEL 620D & MODEL 520D

- Surface Mount
- Double deflection design for full side spread and drop control
- Model 620D is manufactured from corrosion resistant extruded aluminum with an aluminum (B15) powder coat finish. Includes rollformed steel opposed blade damper
- Model 520D is manufactured from stamped steel components with a white (B12) powder coat finish. Includes rollformed steel opposed blade damper.
- Individually adjustable semi-airfoil blades
- · Vertical front blades
- Outer frames with corner inserts for hairline mitered seams on larger sizes

WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each	WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each	WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each
8 x 4	180	\$49	\$45	16 x 10	720	\$102	\$85	24 x 10	1300	\$128	\$113
8 x 6	260	\$56	\$52	18 x 6	480	\$86	\$75	24 x 12	1440	\$142	\$126
10 x 4	220	\$56	\$52	18 x 8	720	\$97	\$80	24 x 16	1720	\$173	\$150
10 x 6	340	\$63	\$52	18 x 10	855	\$109	\$91	30 x 8	1200	\$147	\$136
12 x 4	260	\$63	\$56	18 x 12	1070	\$121	\$103	30 x 10	1400	\$169	\$148
12 x 6	390	\$70	\$58	20 x 6	550	\$95	\$78	30 x 12	1800	\$189	\$169
12 x 8	480	\$79	\$68	20 x 8	750	\$107	\$89	30 x 16	2180	\$228	\$209
14 x 6	370	\$74	\$65	20 x 10	945	\$114	\$96	36 x 8	1440	\$174	\$150
14 x 8	550	\$84	\$72	20 x 12	1045	\$124	\$106	36 x 12	1950	\$216	\$192
16 x 6	415	\$83	\$68	24 x 6	750	\$104	\$85	36 x 16	2530	\$265	\$235
16 x 8	650	\$95	\$78	24 x 8	945	\$121	\$103	36 x 18	3000	\$290	\$263

*Columbia Stock Steel (B12) Only.

*Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

Touchup Paint.....\$26.00

12 oz aerosol can (White or Aluminum)

FANS / DAMPERS /

VARIABLE SPEED DRIVES & STARTERS

VAV TERMINALS / HOT WATER COILS

STEAM SPECIALTIES

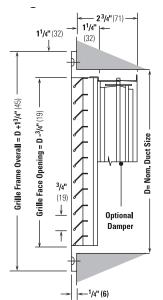
RETURN GRILLES AND REGISTERS





MODELS 630, 530, 630D, 530D

- Surface Mount
- Model 630 is constructed of extruded aluminum with an aluminum (B15) powder coat finish
- Model 530 is manufactured from rollformed steel components with a white (B12) powder coat finish
- Deflecting vanes are curved and set at 45°
- · Horizontal front vanes
- · Outer frames with corner inserts for hairline mitered seams on larger sizes
- Model 630D and 530D furnished with opposed blade damper



MODEL 630D & MODEL 530D 6 8 10 12

хН	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Ea	
x 6	125	\$51	\$44	
x 8	235	\$56	\$44	
x 10	370	\$66	\$52	
x 12	400	\$73	\$58	
		Alemainem	Charl	
W x H	Nominal CEM*	Aluminum (B15)	Steel (B12)	WxH

WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each	WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each	WxH	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each
6 x 6	125	\$38	\$28	14 x 14	710	\$59	\$45	24 x 18	1400	\$96	\$65
8 x 8	235	\$41	\$28	16 x 8	490	\$51	\$40	24 x 24	1700	\$114	\$78
10 x 6	240	\$41	\$28	16 x 10	550	\$58	\$44	30 x 12	1100	\$95	\$68
10 x 8	280	\$43	\$33	16 x 16	960	\$73	\$51	30 x 24	2150	\$141	\$103
10 x 10	370	\$46	\$37	18 x 12	805	\$63	\$49	30 x 30	3000	\$167	\$117
12 x 6	250	\$43	\$33	18 x 18	1000	\$81	\$58	36 x 18	2150	\$136	\$101
12 x 8	375	\$46	\$33	20 x 20	1300	\$91	\$63	36 x 24	2800	\$160	\$112
12 x 12	550	\$51	\$40	22 x 22	1600	\$102	\$72	36 x 30	3000	\$186	\$129
14 x 6	280	\$43	\$33	24 x 8	710	\$63	\$49	36 x 36	3600	\$210	\$148
14 x 8	420	\$46	\$37	24 x 12	925	\$76	\$52	48 x 24	3300	\$245	\$188

*Columbia Stock Steel (B12) Only.

*Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

Touchup Paint.....\$26.00

12 oz aerosol can (White or Aluminum)

FANS / DAMPERS / CURBS

DRIVES & STARTERS

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS

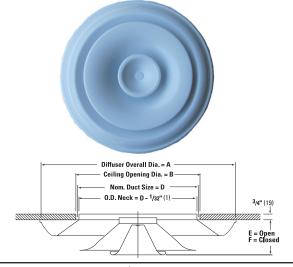


VAV TERMINALS / HOT WATER COILS

MODEL RCDE

- Steel construction with a white (B12) powder coat finish
- Two position adjustment
- · Easily adjustable without requiring special tools

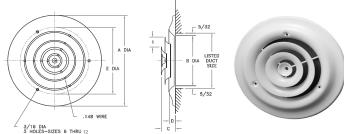
Size	Nominal CFM	Price Each	A	В	D	E	F
6	200	\$112	11 1/8	6 1/2	6	1 3/4	1 1/8
8	280	\$117	14 3/4	8 1/2	8	2 1/8	1 1/2
10	490	\$127	18 1/4	10 1/2	10	2 7/8	2 1/8
12	705	\$141	22	12 1/2	12	3 1/8	2 3/8



MODEL 16 ROUND CEILING DIFFUSER

- Steel construction with a white (B12) powder coat finish
- Low cost design
- Optional duct ring or damper
- Ideal for residential, apartment, light commercial applications

Size	Nominal CFM*	Grille Price Each	Duct Ring Price Each	Damper/w Duct Ring
6	135	\$22	\$17	\$29
8	225	\$25	\$19	\$30
10	345	\$32	\$24	\$37
12	500	\$42	\$30	\$51



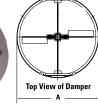
Size	A DIA	B DIA	C	D	E DIA					
6	9 –15/16	5 –11/16	1 –3/64	11/16	6 –1/2					
8	11–15/16	7–11/16	1-7/32	11/16	8–1/2					
10	13 –15/16	9 –11/16	1 –25/64	11/16	10 –1/2					
12	15 –15/16	11 –11/16	1 -9/16	11/16	12 –1/2					

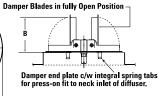
VOLUME CONTROL DAMPERS

- Model VCR8E butterfly style, steel construction
- Model VCR9 radial shutter style, steel construction, low profile for flex duct installations
- · Sizes match Price diffusers

Size	VCR8E	VCR9
6	\$19	\$21
8	\$21	\$23
10	\$21	\$26
12	\$23	\$28
14	\$35	\$40



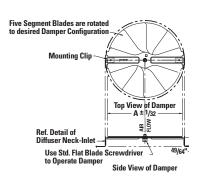




Model VCR8E







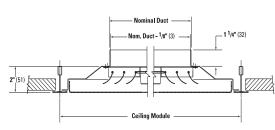
^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

PERFORATED STEEL CEILING DIFFUSERS



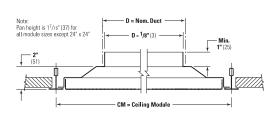
MODEL PDC TEE-BAR LAY-IN SUPPLY

- All steel construction with a white (B12) powder coat finish
- Flush mounting in 24 x 24 lay-in tee-bar ceilings
- · Approved for use in fire rated ceilings
- · Four-way, adjustable pattern controllers
- · Hinged, removable perforated face
- · One piece plenum with one inch integrally drawn inlet collar
- Matching Model PDDR returns in stock
- · Optional control damper. See page 30.



MODEL PDC SUPPLY ROUND NECK

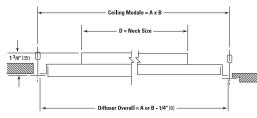
Neck Size	Nominal CFM*	Price Each
6	160	\$75
8	275	\$75
10	390	\$82
12	550	\$82
14	675	\$91
16	875	\$96



MODEL PDDR RETURN ROUND NECK

Neck Size	Nominal CFM*	Price Each
6	130	\$56
8	240	\$56
10	375	\$56
12	525	\$56
14	700	\$56
16	800	\$73





MODEL PDDR RETURN SQUARE NECK

Neck Size	Panel Size	Nominal CFM*	Price Each
22 x 22	24 x 24	2200	\$52
10 x 10	12 x 12	425	\$44

^{*}Nominal CFM based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

FANS / DAMPERS / CURBS



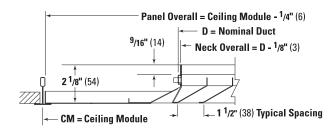
DRIVES & STARTERS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

LOUVER FACED CEILING DIFFUSERS

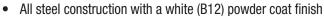


- All steel construction with a white (B12) powder coat finish
- Flush mounting in 24 x 24 lay-in tee-bar ceiling
- Four-way pattern cores with miter-cut corners
- Spring-loaded snap-out core
- Optional snap-in opposed blade damper

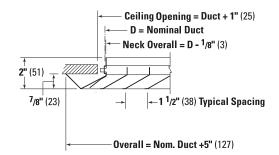


Neck Size	Nominal CFM*	SMD-D-TB (with damper) Price Each	SMD-TB (less damper) Price Each	Neck Size	Nominal CFM*	SMD-D-TB (with damper) Price Each	SMD-TB (less damper) Price Each
6 x 6	200	\$82	\$73	15 x 15	900	\$147	\$124
9 x 9	400	\$98	\$82	18 x 18	1200	\$148	\$125
12 x 12	600	\$120	\$103				

MODEL SMD SURFACE MOUNT



- Surface mounting
- Four-way pattern cores with miter-cut corners
- Spring-loaded snap-out core
- Optional snap-in opposed blade damper



Neck Size	Nominal CFM*	SMD-D (with damper) Price Each	SMD (less damper) Price Each	Neck Size	Nominal CFM*	SMD-D (with damper) Price Each	SMD (less damper) Price Each
6 x 6	200	\$63	\$54	15 x 15	900	\$126	\$103
9 x 9	400	\$78	\$63	18 x 18	1200	\$157	\$127
12 x 12	600	\$101	\$82				

*Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

LOUVER FACED CEILING DIFFUSERS

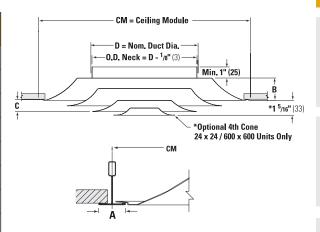




MODEL SCD TEE-BAR LAY-IN

- · All steel construction with a white (B12) powder coat finish
- Flush mounting in lay-in tee-bar ceilings
- Four-way pattern, removable cones
- Optional control damper. See page 30.
- · Center buttoned opening for damper adjustment
- Optional cosmetic center cone

Neck Size	Panel Size	Nominal CFM*	Price Each
6	24 x 24	250	\$85
8	24 x 24	400	\$85
10	24 x 24	575	\$85
12	24 x 24	775	\$85
14	24 x 24	975	\$85
6	12 x 12	235	\$59
8	12 x 12	350	\$59
AFI (R6) Insulation Blanket	12 x 12		\$18
AFI (R6) Insulation Blanket	24 x 24		\$19
Center Cone			\$15





MODEL SPD TEE-BAR LAY-IN

- All steel construction with a white (B12) powder coat finish
- Flush mounting in lay-in tee-bar ceilings
- · Face panel is easily installed and removed without special tools
- Satisfies both architectural appeal and engineering performance criteria

•		CM =	Ceiling Module		
•		Pane	I = CM - 1/4" (6)		
<u>↓</u> B			lom. Duct Dia. ·	Min. 1" (2	<u>↓</u> 25) †
		——— Diff	fuser Plaque		
	•	D	iffuser Size		

Neck Size	Panel Size	Nominal CFM*	Price Each
6	24 x 24	250	\$79
8	24 x 24	375	\$79
10	24 x 24	545	\$79
12	24 x 24	725	\$79
14	24 x 24	950	\$79
6	12 x 12	235	\$59
8	12 x 12	350	\$59
AFI (R6) Insulation Blanket	12 x 12		\$18
AFI (R6) Insulation Blanket	24 x 24		\$19

^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

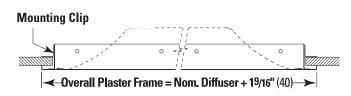
MISCELLANEOUS AIR DISTRIBUTION PRODUCTS





MODEL SPF MOUNTING FRAME

- Allows easy installation of lay-in diffusers in plaster or gypsum ceilings
- Steel construction with a white (B12) powder coat finish
- All necessary mounting hardware



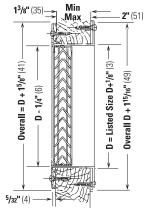
Size	Price Each
12 x 12	\$44
24 x 12	\$49
24 x 24	\$56



MODEL ATG DOOR GRILLE

- Extruded aluminum construction with 70° blades
- Inverted vee blades prevent clear line of sight
- Finished on both sides for door
- Fits doors or partitions as thin as 1-3/8 inch
- Aluminum (B15) powder coat finish

Size	Nominal CFM*	Price Each
12 x 12	250	\$104
18 x 12	350	\$119
18 x 18	500	\$166
24 x 24	700	\$268



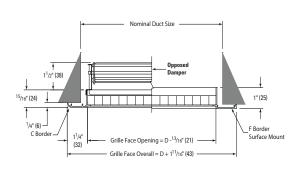
Auxiliary Frame Assembly

MODEL 80D CUBE CORE REGISTER

- Aluminum "egg crate" type 1/2 inch cube core for surface mounting
- Includes opposed blade damper
- White (B12) powder coat finish

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Size	Nominal CFM*	Price Each
6 x 6	225	\$44
8 x 8	400	\$47
10 x 10	650	\$56
12 x 12	900	\$64
14 x 14	1150	\$83



^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS

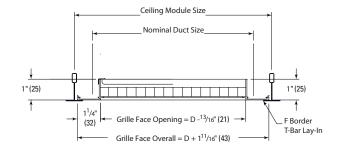




MODEL 80 CUBE CORE RETURN GRILLE

- Aluminum "egg crate" type 1/2 in. cube core for tee-bar lay-in ceilings
- White (B12) powder coat finish

Neck Size	Panel Size	Nominal CFM*	Price Each
22 x 10	24 x 12	1500	\$51
22 x 22	24 x 24	2700	\$86
46 x 22	48 x 24	4000	\$187

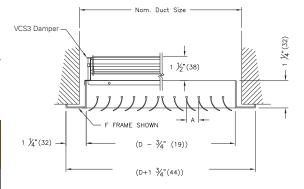




MODEL SCVD SUPPLY REGISTERS

- Surface Mount
- Four-way ceiling supply register
- All steel construction
- Curved blades and opposed blade damper
- White (B12) powder coat finish

Size	Nominal CFM*	Price Each	Size	Nominal CFM*	Price Each
6 x 6	130	\$63	10 x 10	350	\$80
8 x 8	225	\$65	12 x 12	450	\$91





Grille Face Opening = D - 3/4" (19) Grille Frame Overall = D + 13/4" (45)

MODEL 540 SUPPLY GRILLES

- Surface Mount
- Economical steel construction
- Single deflection
- Multi-shutter damper
- White (B12) powder coat finish

Size	Nominal CFM*	Price Each
10 x 4	375	\$30
12 x 4	415	\$33
10 x 6	500	\$35
12 x 6	550	\$37
12 x 8	700	\$40
14 x 8	800	\$42
16 x 8	900	\$44

^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

> VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

MISCELLANEOUS RETURN GRILLES

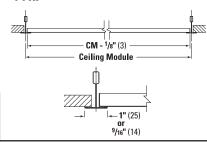




MODEL PFRF PERFORATED PANEL

- Matches PDC/PDDR series diffusers
- · Tee-Bar Lay-In
- · All steel construction with a white (B12) powder coat finish
- · Turned-up edges, no frame

PFRF



Panel Size	Nominal CFM*	Price Each
24 x 12	575	\$23
24 x 24	2550	\$33



MODEL 10A SURFACE MOUNT RETURN

- Aluminum core construction
- White (B12) powder coat finish
- Surface mounting

 	Nom. Size	→
	Nom ¹³ /16" (21)	1/4" (6) 11/8" (28)
	Perforated Face	
	Face Opening = D - 11/2" (38)	(32)
	Nom. + 1 ¹¹ /16" (43)	

Neck Size	Overall Face Size	Nominal CFM*	Price Each
6 x 6	7 ¹¹ / ₁₆ x 7 ¹¹ / ₁₆	185	\$42
8 x 8	8 ¹¹ / ₁₆ x 8 ¹¹ / ₁₆	275	\$47
10 x 10	11 ¹¹ / ₁₆ x 11 ¹¹ / ₁₆	425	\$56
12 x 12	13 ¹¹ / ₁₆ x 13 ¹¹ / ₁₆	635	\$64
14 x 14	15 ¹¹ / ₁₆ x 15 ¹¹ / ₁₆	830	\$78
16 x 16	17 ¹¹ / ₁₆ x 17 ¹¹ / ₁₆	1125	\$88
18 x 18	19 ¹¹ / ₁₆ x 19 ¹¹ / ₁₆	1450	\$98



MODEL 630-TB ALUMINUM RETURN MODEL 530-TB STEEL RETURN

- Tee-Bar Lay-In
- Available in steel or aluminum, white (B12) powder coat finish
- Fixed horizontal bars set at 45°

.	Listed Size 1/4	
1 1/4	mmmmm :	
1 1/4		
L-	-	
-	Overall Grille = T-Bar Spacing -1/4	
	Horizontal Deflection Vanes	

Neck Size	Panel Size	Nominal CFM*	Aluminum (B12) Price Each	Steel (B12) Price Each
22 x 10	24 x 12	800	\$55	\$49
22 x 22	24 x 24	1600	\$88	\$72
22 x 46	24 x 48	2750	\$181	\$155

^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

FILTER GRILLES





MODEL 80FF CUBE CORE LAY-IN TEE-BAR

- Egg crate face with 1/2" cube core design
- 80% free area
- Aluminum grid with a white (B12) powder coat finish

Neck Size	Panel Size	Panel Size Nominal CFM*	
20 x 20	24 x 24	2400	\$155

MODEL 10FF PERFORATED FACE LAY-IN

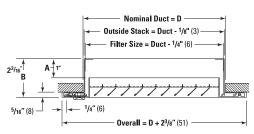
- · Perforated face for lay-in ceilings
- Steel construction with a white (B12) powder coat finish
- · Hinged core and latches for easy cleaning

Neck Size	Panel Size	Nominal CFM*	Price with Filter
20 x 20	24 x 24	2000	\$124



MODEL 630FF SURFACE MOUNT

- Extruded aluminum frame with a white (B12) powder coat finish
- 45° blades
- · Hinged core and latches for easy filter cleaning



Ceiling Module

— Nominal CM - 4"—— Filter Size = D -¹/4" (6) -

Overall = CM - 1/4" (6)

Ceiling Module

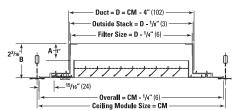
- Nominal CM - 4"-Filter Size = 1/4" (6)

Overall = CM + $\frac{1}{4}$ " (6)

Filter Size	Neck Size	Nominal CFM*	Price with Filter
12 x 12	12 ³ /8 x 12 ³ /8	575	\$86
20 x 20	20 ³ /8 x 20 ³ /8	1400	\$137
24 x 12	24 ³ /8 x 12 ³ /8	1000	\$121
24 x 24	24 ³ /8 x 24 ³ /8	1800	\$165



MODEL 630FF-TB LAY-IN



- Similar to 630FF above but for tee-bar lay-in ceilings
- Extruded aluminum frame with a white (B12) powder coat finish
- 45° blades
- · Hinged core and latches for easy filter change
- · Continuous frame without screw holes

Neck Size	Panel Size	Panel Size Nominal CFM*	
20 x 20	24 x 24	1400	\$145
20 x 44	24 x 48	3000	\$249

^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

VAV TERMINALS / HOT WATER COILS

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS



DRIVES & STARTERS



VARITHERM® MODEL VPD-HC

The Price Varitherm® is a thermally powered self-modulating diffuser featuring a specialized linkage design for optimal zone temperature control in a stand-alone package. The Varitherm® VPD-HC is available for heating and cooling modes with an automatic heating/cooling changeover.

- Designed for tee bar lay-in ceilings
- Steel backpan, faceplate and linkage for strength and durability
- Minimum airflow adjustment at diffuser
- Forced open made for system balancing
- Manual temperature set point adjustment
- Hinged plague with powerful magnetic closure
- White (B12) powder coat finish

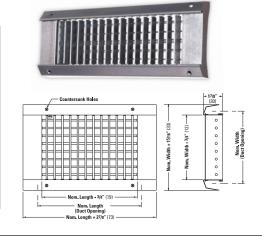
	← Ceiling Module — →
	←Nom. Duct
	→ Nom. Duct - 1/4" (3) →
3 ¹⁵ /16"	
(101)	2 1/2"
nt at di	ffuser Plaque —

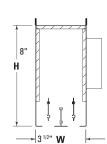
MODEL SDG SPIRAL GRILLE

- Surface mount
- Model SDG is constructed of galvanized steel (mill finish)
- Integral gasket seals grille tightly to duct
- · Built in extractor to allow accurate balancing

Inlet Size	Nominal CFM*	Noise Criteria	VPD-HC Price Each
8"	300	30	\$517
10"	400	30	\$517
12"	500	30	\$517

WXH	Min/Max Pipe Size	Nominal CFM	Price Each	WXH	Min/Max Pipe Size	Nominal CFM	Price Each
10 x 4	8/24	250	\$107	16 x 6	14/24	500	\$134
10 x 6	14/24	350	\$114	18 x 6	14/24	550	\$140
12 x 4	8/24	300	\$110	18 x 8	20/24	800	\$147
14 x 6	14/24	450	\$125	20 x 6	14/24	600	\$147
16 x 4	8/24	350	\$124	20 x 8	20/24	850	\$153
20 x 4	8/24	450	\$134	24 x 6	14/24	700	\$173
24 x 4	8/24	550	\$152	24 x 8	20/24	900	\$181







MODEL TBD1475 SLOT DIFFUSERS

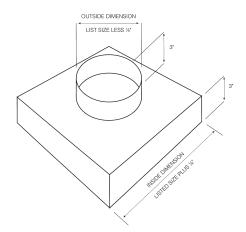
- Designed for tee bar lay-in ceilings
- Adjustable air pattern controllers with 3/4 in. slots
- Internally insulated with neoprene coated fiberglass insulation

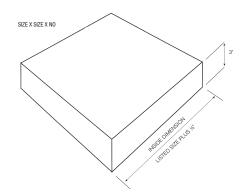
Length	A Width	Inlet	# of Slots	Nominal CFM*	Price Each
24"	3 1/2"	8" flat oval	2	160	\$131
48"	3 1/2"	8" flat oval	2	225	\$176
48"	3 1/2"	10" flat oval	2	275	\$176

^{*}Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS







MODEL F3SO SQUARE-TO-ROUND ADAPTERS

- · Constructed of 26 ga. galvanized steel
- Open square corners

Size	Price Each	Size	Price Each	Size	Price Each
6 x 6 x 5	\$11	12 x 12 x 12	\$16	20 x 20 x 14	\$37
6 x 6 x 6	\$11	15 x 15 x 10	\$24	20 x 20 x 16	\$37
8 x 8 x 6	\$13	15 x 15 x 12	\$24	20 x 20 x 18	\$37
8 x 8 x 7	\$13	15 x 15 x 14	\$24	*21 x 21 x N0	\$35
8 x 8 x 8	\$13	16 x 16 x 14	\$28	*22 x 22 x N0	\$37
9 x 9 x 6	\$13	18 x 18 x 12	\$30	22 x 22 x 6	\$40
9 x 9 x 7	\$13	18 x 18 x 14	\$30	22 x 22 x 8	\$40
9 x 9 x 8	\$13	18 x 18 x 16	\$30	22 x 22 x 10	\$40
9 x 9 x 9	\$13	18 x 18 x 18	\$30	22 x 22 x 12	\$40
10 x 10 x 8	\$15	*20 x 20 x N0	\$31	22 x 22 x 14	\$40
10 x 10 x 9	\$15	20 x 20 x 6	\$37	22 x 22 x 16	\$40
10 x 10 x 10	\$15	20 x 20 x 8	\$37	22 x 22 x 18	\$40
12 x 12 x 8	\$16	20 x 20 x 10	\$37		
12 x 12 x 10	\$16	20 x 20 x 12	\$37		

^{*}Square box with no openings.



CONCENTRIC REDUCERS

- Galvanized steel construction
- · Used to connect flexible duct to round neck diffusers

Size	Price Each	Size	Price Each
6" x 4"	\$8	10" x 9"	\$11
6" x 5"	\$8	12" x 8"	\$11
8" x 6"	\$9	12" x 10"	\$11
8" x 7"	\$9	14" x 10"	\$17
10" x 8"	\$11	14" x 12"	\$17

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

SINGLE DUCT VARIABLE VOLUME TERMINALS



CONTROLS BY OTHERS

Control Terminals are designed for use in low, medium or high pressure variable air volume, single duct systems.

This throttling-type terminal incorporates a single damper blade which operates through a 90° arc, providing throttling capability in all positions.

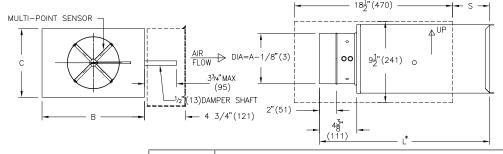
Controls by Others terminal incorporates many unique features. Most of these standard features are expensive options for other manufacturers. The Controls By Others incorporates the Patented FlowStar airflow sensor along with a Nema 1 enclosure and 120-volt transformer.

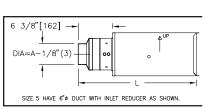
PERFORMANCE DATA AND PRICING

Size	Nom. CFM	Min. PS	*Controls by Others Each
5	250	.01	\$336
6	400	.08	\$336
8	600	.04	\$376
10	1100	.05	\$394
12	1800	.07	\$403
14	2300	.07	\$480

^{*}Terminal provided with controls enclosure (no controls) and 120V transformer.

CONTROLS BY OTHERS





	IMPERIAL UNITS inches				
UNIT SIZE	OUTLET		INLET	LENGTH	
	В	С	Α	L	S
5	10	8	5	22 1/8	
6	12		6		3 13/16
8	12	10	8	20 1/8	
10	14	12 1/2	10		
12	16	15	12		
14	20	17 1/2	14	23 5/8	5 5/16

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS /

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SINGLE DUCT VARIABLE VOLUME TERMINALS

Hot Water Coils



Part Number	Description	Price Each
WCSXV1R-5,6	1-Row Hot Water Coil with 1/2" O.D.Sweat Connection for 5" & 6" VAV Boxes	\$101
WCSXV1R-8	1-Row Hot Water Coil with 1/2" O.D.Sweat Connection for 8" VAV Boxes	\$101
WCSXV1R-10	1-Row Hot Water Coil with 1/2" O.D.Sweat Connection for 10" VAV Boxes	\$123
WCSXV1R-12	1-Row Hot Water Coil with 1/2" O.D.Sweat Connection for 12" VAV Boxes	\$167
WCSXV1R-14	1-Row Hot Water Coil with 1/2" O.D.Sweat Connection for 14" VAV Boxes	\$201
WCSXV2R-5,6	2-Row Hot Water Coil with 7/8" O.D.Sweat Connection for 5" & 6" VAV Boxes	\$135
WCSXV2R-8	2-Row Hot Water Coil with 7/8" O.D.Sweat Connection for 8" VAV Boxes	\$144
WCSXV2R-10	2-Row Hot Water Coil with 7/8" O.D.Sweat Connection for 10" VAV Boxes	\$182
WCSXV2R-12	2-Row Hot Water Coil with 7/8" O.D.Sweat Connection for 12" VAV Boxes	\$230
WCSXV2R-14	2-Row Hot Water Coil with 7/8" O.D.Sweat Connection for 14" VAV Boxes	\$322

BALANCING DAMPERS



VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMIN HOT WATER

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSOBIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES

MODEL MD-25/35 MANUAL BALANCING DAMPER

- 22 ga. galvanized steel construction
- 3/8 in. square plated steel shaft
- Includes hand quadrant and 2 in. standoff mounting bracket



Model	Size W x H	Price Each	Model	Size W x H	Price Each
MD-25	12 x 6	\$55	MD-25	24 x 12	\$77
MD-25	12 x 8	\$60	MD-35	14 x 14	\$105
MD-25	12 x 10	\$60	MD-35	18 x 18	\$135
MD-25	12 x 12	\$62	MD-35	24 x 18	\$140
MD-25	18 x 12	\$70	MD-35	24 x 24	\$157

MODEL MDRS-25 ROUND MANUAL BALANCING DAMPER



- · Factory-mounted stand-off with locking hand quadrant
- Designed for spiral duct balancing applications
- · Seal becomes part of ductwork



Model	Size	Frame Length	Price Each
MDRS-25	6	6"	\$56
MDRS-25	8	6"	\$61
MDRS-25	10	6"	\$65
MDRS-25	12	6"	\$68
MDRS-25	14	6"	\$72

CONTROL DAMPERS

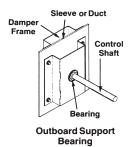


MODEL CD-36 LOW LEAKAGE CONTROL DAMPER



- 16 ga. galvanized steel construction, 6 in. opposed blades
- EPDM blade seals, metal compression jamb seals
- · Includes outboard support bearing and control shaft
- · Actuator or hand quadrant sold separately

Size W x H	Price Each	Size W x H	Price Each
12 x 12	\$133	30 x 24	\$266
18 x 12	\$146	36 x 24	\$278
24 x 12	\$154	30 x 30	\$334
14 x 14	\$164	36 x 36	\$389
18 x 18	\$211	42 x 42	\$496
24 x 18	\$218	48 x 48	\$556
24 x 24	\$245	Hand Quadrant (HQR050)	\$12



MODEL CDRS-25 ROUND LOW LEAKAGE CONTROL DAMPER



- · Easily installs in spiral duct
- · Polyethylene blade seal ensures low leakage
- Frame constructed of 20 ga. galvanized steel



Model	Size	Frame Length	Price Each
CDRS-25	6	6"	\$112
CDRS-25	8	6"	\$117
CDRS-25	10	6"	\$124
CDRS-25	12	6"	\$129
CDRS-25	14	6"	\$136
Hand Quadrant (HQR050)			\$12
2" Stand-off			\$6

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

DAMPER ACTUATORS



BELIMO DIRECT MOUNT ACTUATORS

- 24V/120V, 2 position, spring return
- For use on standard or low leakage dampers
- · Graduated position indicator and auxiliary SPDT switch
- · Direct mount on damper shaft; can be set for CW or CCW rotation
- Internal closure spring provides consistent closure torque

Model	Voltage	Max. Damper Size	Price Each
TFB-24-S	24V	4.5 FT ²	\$208
TFB-120-S	120V	4.5 FT ²	\$236
LF-24-S	24V	8 FT ²	\$247
LF-120-S	120V	8 FT ²	\$270
NFBUP-S	24V - 240V	15 FT ²	\$348
AFBUP-S	24V - 240V	33 FT ²	\$413

SMOKE DETECTORS





D4120 Smoke Detector

RTS151 Remote Test Station

SYSTEM SENSOR MODEL D4120

- Duct-mounted design
- Samples airstream for early detection of smoke in HVAC systems
- · Includes exhaust tube
- · Please select sampling tube from accessory listing below
- Price Each \$152.00



APA151 Annunciator



RTS2

Accessory	Description	Price Each
RTS151	Remote Test Station for testing remotely located smoke detector	\$41
APA151	Piezo Annunciator, audible signal appliance for alarm service, red alarm LED, green power LED, audible alarm	\$34
RTS2	Multi-signaling Duct Accessory with Audible Alarm	\$102
AOS	Add on strobe for RTS2	\$50
DST-1.5	Sampling Tube, 1 1/2 ft.	\$8
DST-3	Sampling Tube, 3 ft.	\$11
DST-5	Sampling Tube, 5 ft.	\$14

CEILING RADIATION DAMPERS

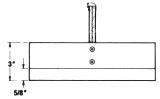


MODEL CFD CEILING RADIATION DAMPER

- UL classified radiation dampers
- 22 ga. galvanized blades with UL insulation
- 20 ga. galvanized frame

STANDARD FRAME

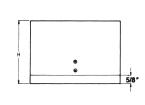




Model	Size*	Price Each	
CFD3.5	6 x 6	\$45	
CFD3.5	8 x 8	\$50	
CFD2	9 x 9	\$58	
CFD3.5	10 x 4	\$52	
CFD3.5	10 x 6	\$54	
CFD2	10 x 10	\$58	
CFD2	12 x 6	\$52	
CFD2	12 x 12	\$69	
CFD2	15 x 15	\$87	
CFD2	18 x 18	\$92	
CFD4	21 x 21	\$131	
CFD4	22 x 22	\$131	
CFD4	24 x 24	\$140	

EXTENDED FRAME





Model	Size*	Ext. Frame Height (H)	Price Each
CFD3.5	6 x 6	6"	\$52
CFD3.5	8 x 8	6"	\$57
CFD2	9 x 9	6"	\$68
CFD2	10 x 10	6"	\$68
CFD2	12 x 12	8"	\$82
CFD2	15 x 15	8"	\$102
CFD2	18 x 18	8"	\$108
CFD4	21 x 21	8"	\$154
CFD4	22 x 22	8"	\$154

^{*}Extended Frames are actual size

*Standard Frames – deduct 1/4 inch

MODEL CFDR ROUND CEILING RADIATION DAMPER



- UL 555 classified radiation dampers
- Designed for use with round neck diffusers
- Frame and blades are 20 ga. galvanized steel
- Stocked with extended frame only, actual size shown

Model	Size*	Frame Height	Price Each	Model	Size*	Frame Height	Price Each
CFDR3.5	6"	6 1/2"	\$55	CFDR2	12"	6 1/2"	\$82
CFDR3.5	8"	6 1/2"	\$60	CFDR2	14"	6 1/2"	\$90
CFDR3.5	10"	6 1/2"	\$65	CFDR2	16"	11 1/2"	\$102

Add for 24" x 24" insulation blanket (required by some codes for lay-in ceiling applications).

Blankets are cut in the field to fit the diffuser neck. \$26.00 each

Detailed drawings and installation instructions available at www.ruskin.com

FIRE DAMPERS



DRIVES & STARTERS **VARIABLE SPEED**

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

FLEXIBLE DUCT / SNAPLOCK & ACC.

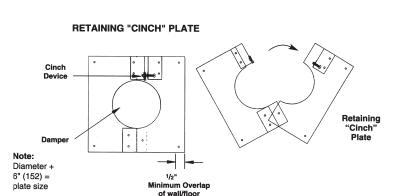
ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES

MODEL FDR25 ROUND FIRE DAMPER

- UL 555 classified damper with 1¹/₂ hour rating
- Approved for use in 2 hour fire partitions
- Galvanized steel construction, 212°F fusible link
- Retaining cinch plates and extended duct connections for adjustable installation
- Low pressure drop
- Vertical and horizontal closure spring operation for assured closure under air flow (fans on) in HVAC systems



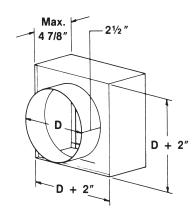
opening

Collar Diameter (in.)	Sleeve Length	Price Each	
6	14"	\$115	
8	14"	\$131	
10	14"	\$142	
12	14"	\$153	
14	14"	\$166	
16	14"	\$180	

Type FDR25 dampers are furnished 1/8 in. smaller than given collar dimensions

MODEL IBD2R/HV ROUND FIRE DAMPER

- Similar to IBD2A, except it includes a round duct attachment collar
- 11/2 hour rating for use in 2 hour rated partitions, 212°F fusible link
- Stocked dampers have closure spring and latches for horizontal or vertical installations
- Damper housings are square with 21/2 in. deep round collars
- Recommended for low pressure and low velocity applications only



Collar Diameter (in.)	Housing Size (in.)	Price Each	
6	8 x 8	\$86	
8	10 x 10	\$94	
10	12 x 12	\$108	
12	14 x 14	\$118	
14	16 x 16	\$154	

Type IBD2R dampers are furnished 1/4 in. smaller than given duct and collar dimensions.

Detailed drawings and installation instructions available at www.ruskin.com

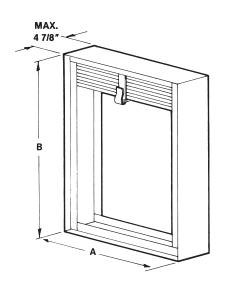
FIRE DAMPERS



MODEL IBD2A/HV RECTANGULAR FIRE DAMPER

- Curtain style fire damper with 11/2 hour UL rating
- · Approved for use in 2 hour fire partitions
- Galvanized steel construction, 212°F fusible link
- Stocked dampers have closure spring and latches for horizontal and vertical installations





Size A x B	Price Each	Size A x B	Price Each
6 x 6	\$33	12 x 12	\$44
8 x 6	\$33	14 x 12	\$55
10 x 6	\$33	16 x 12	\$55
12 x 6	\$33	18 x 12	\$60
14 x 6	\$42	20 x 12	\$65
8 x 8	\$38	24 x 12	\$65
10 x 8	\$38	14 x 14	\$62
12 x 8	\$38	16 x 14	\$62
14 x 8	\$44	18 x 14	\$67
16 x 8	\$44	20 x 14	\$73
18 x 8	\$51	24 x 14	\$73
20 x 8	\$58	16 x 16	\$62
10 x 10	\$42	20 x 16	\$73
12 x 10	\$42	24 x 16	\$73
14 x 10	\$51	18 x 18	\$76
16 x 10	\$51	24 x 18	\$84
18 x 10	\$58	20 x 20	\$89
20 x 10	\$62	24 x 24	\$89

Note: Type IBD2A dampers are furnished 1/4" smaller than given duct dimensions.

Detailed drawings and installation instructions available at $\begin{tabular}{l} www.ruskin.com \\ \end{tabular}$

^{*}More Sizes and styles available. See page 48.

> VARIABLE SPEED DRIVES & STARTERS

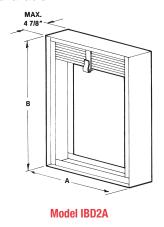
REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

FIRE DAMPERS-QUICK SHIP-24 HOURS



MODEL IBD2A AND IBD2B RECTANGULAR FIRE DAMPER

- Ships in 24 hours if order received in Greensboro by 11:00 a.m.
 Eastern time (Not Guaranteed)
- · Please allow 3 days for delivery
- 11/2 hour rating for use in 2 hour rated partitions
- Changes or cancellation cost 100% of order value.
- Other sizes available



MODEL IBD2A & IBD2B HORIZONTAL PRICING

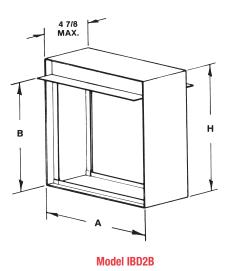
Style B prices are in bold print.

	WIDTH IN INCHES												
		12	16	20	24	28	32	36	40	44	48		
	6	61	77	101	101	115	127	131	139	147	155	6	
	U	71	90	118	118	133	147	152	161	170	179	U	
	8	69	81	107	107	123	131	139	151	155	163	8	
	O	80	94	124	124	142	152	161	175	179	189	U	
	10	77	93	115	115	131	135	147	155	163	171	10	
H	10	90	108	133	133	152	156	170	179	189	198	10	Н
E	12	81	101	119	119	135	143	151	163	171	183	12	E
Ţ	12	94	118	138	138	156	166	175	189	198	212	12	I
G	16	97	115	135	135	151	159	167	179	191	203	16	G
Н	10	113	133	156	156	175	184	193	207	221	235	10	Н
T	20	115	139	163	163	183	195	208	220	236	252	20	T
	20	133	161	189	189	212	226	241	255	274	293	20	
П	24	115	139	163	163	183	195	208	220	236	252	24	L
N	27	133	161	189	189	212	226	241	255	274	293	2-7	N
	28	127	147	183	183	195	224	244	260	276	296	28	
1	20	147	170	212	212	226	260	283	302	321	344	20	1
N	32	135	155	191	191	216	252	280	300	322	342	32	N
C	02	156	179	221	221	251	293	325	349	373	396	02	C
Н	36	143	163	203	203	236	280	318	342	366	390	36	Н
Ε		166	189	235	235	274	325	368	396	424	452	-	Ε
S	40	151	171	216	216	252	300	342	366	390	415	40	S
	70	175	198	251	251	293	349	396	424	452	481		
	44	159	183	228	228	272	322	366	390	415	439	44	
		184	212	265	265	316	373	424	452	481	509		
	48	171	195	244	244	292	342	390	415	439	463	48	
	.0	198	226	283	283	339	396	452	481	509	537	.0	

MODEL IBD2A & IBD2B VERTICAL PRICING

Style B prices are in bold print.

	WIDTH IN INCHES												
		12	16	20	24	28	32	36	40	44	48		
	6	42	53	69	69	78	86	89	94	100	105	6	
	U	51	65	85	85	96	106	110	116	123	130	٥	
	8	47	55	72	72	83	89	94	102	105	111	8	
	0	58	68	89	89	103	110	116	127	130	137	0	
	10	53	64	78	78	89	92	100	105	111	116	10	
Н	10	65	78	96	96	110	113	123	130	137	143	10	Н
Ε	12	55	69	81	81	92	97	102	111	116	124	12	Ε
1	12	68	85	100	100	113	120	127	137	143	154	12	1
G	16	66	78	92	92	102	108	113	122	130	138	16	G
Н	10	82	96	113	113	127	133	140	150	160	170	10	Н
T	20	78	94	111	111	124	133	141	150	161	171	20	T
	20	96	116	137	137	154	164	175	185	198	212	20	
1	24	78	94	111	111	124	133	141	150	161	171	0.4	1
N	24	96	116	137	137	154	164	175	185	198	212	24	N
	28	86	100	124	124	133	152	166	177	188	202	28	
1	20	106	123	154	154	164	188	205	219	232	249	20	1
N	32	92	105	130	130	147	171	191	204	219	232	32	N
C	32	113	130	160	160	181	212	235	252	270	287	32	C
Н	36	97	111	138	138	161	191	216	232	249	265	36	н
Ε	30	120	137	170	170	198	235	267	287	307	327	30	Ε
S	40	102	116	147	147	171	204	232	249	265	282	40	S
	40	127	143	181	181	212	252	287	307	327	349	40	
	44	108	124	155	155	185	219	249	265	282	299	44	
	44	133	154	192	192	229	270	307	327	349	369		
	48	116	133	166	166	199	232	265	282	299	315	40	
	48	143	164	205	205	246	287	327	349	369	389	48	



Available in Dynamic
Consult your Hoffman & Hoffman Salesperson for pricing

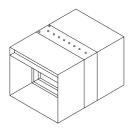
Detailed drawings and installation instructions available at www.ruskin.com

FIRE DAMPERS-QUICK SHIP-24 HOURS

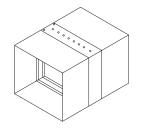


MODEL IBD20A & B INTEGRAL SLEEVE FIRE DAMPER

- No additional sleeve needed in most installations
- 11/2 hour rating for 2 hour rated fire partitions
- Galvanized steel construction
- UL listed 165°F fuse link standard. 212°F and 285°F fuse links available
- Available with springs and latches for horizontal or vertical installation (specify when ordering)
- Ships in 24 hours if order received in Greensboro by 11:00 a.m.
 Eastern time (Not Guaranteed)
- · Please allow 3 days for delivery
- Changes or cancellation cost 100% of order value.
- Other sizes available



Model IBD20B



Model IBD20A

IBD20/STYLE A AND B HORIZONTAL PRICES

Style B prices are in bold print.

	WIDTH IN INCHES											
		12	16	20	24	28	32	36	40	44		
	_	88	111	146	146	165	182	188	200	211	_	
	6	98	124	162	162	183	203	209	222	235	6	
	8	100	117	153	153	177	188	200	217	223	8	
	°	111	130	170	170	196	209	222	241	248	0	
Н	10	111	135	165	165	188	194	211	223	234	10	Н
Ε	10	124	150	183	183	209	215	235	248	260	10	Ε
1	12	117	146	171	171	194	205	217	234	246	10	1
G	12	130	162	190	190	215	228	241	260	273	12	G
Н	16	140	165	194	194	217	229	240	258	275	16	Н
T	16	156	183	215	215	241	254	267	286	305	16	T
	20	165	200	234	234	263	281	300	317	340	20	
1	20	183	222	260	260	293	312	333	352	378	20	1
N	24	165	200	234	234	263	281	300	317	340	24	N
	24	183	222	260	260	293	312	333	352	378	24	
1	28	182	211	263	263	281	323	352	375	398	20	1
N	20	203	235	293	293	312	359	391	416	442	28	N
C	32	194	223	275	275	311	363	404	433	463	22	C
н	32	215	248	305	305	346	404	449	481	514	32	н
Ε	36	205	234	292	292	340	404	457	492	527	36	E
s	30	228	260	325	325	378	449	508	547	585	30	S
	40	217	246	311	311	363	433	492	527	561	40	
	40	241	273	346	346	404	481	547	585	624	40	
	44	229	263	328	328	392	463	527	561	598	44	
	44	254	293	365	365	436	514	585	624	664	44	

IBD20/STYLE A AND B VERTICAL PRICES

Style B prices are in bold print.

	WIDTH IN INCHES											
		12	16	20	24	28	32	36	40	44		
		69	87	114	114	128	142	146	155	164	6	
	6	78	99	130	130	147	162	167	177	188	6	
		78	91	119	119	137	146	155	169	173		
	8	89	104	136	136	157	167	177	193	198	8	
Н	10	87	105	128	128	146	151	164	173	182	10	Н
Ε	10	99	120	147	147	167	172	188	198	208	10	Ε
1	12	91	114	133	133	151	160	169	182	191	12	1
G	12	104	130	152	152	172	183	193	208	219	12	G
Н	16	109	128	151	151	169	178	187	200	214	16	Н
T	10	125	147	172	172	193	203	213	229	244	10	T
	20	128	155	182	182	205	218	233	246	264	20	
1	20	147	177	208	208	234	250	266	282	302	20	1
N	24	128	155	182	182	205	218	233	246	264	24	N
	24	147	177	208	208	234	250	266	282	302	24	
1	28	142	164	205	205	218	251	273	291	309	28	1
N	20	162	188	234	234	250	287	313	333	354	20	N
C	32	151	173	214	214	242	282	314	336	360	32	C
Н	32	172	198	244	244	277	323	359	385	412	32	Н
Ε	36	160	182	227	227	264	314	356	383	410	36	Ε
S	30	183	208	260	260	302	359	406	437	468	30	S
	40	169	191	242	242	282	336	383	410	437	40	
	40	193	219	277	277	323	385	437	468	499	40	
	44	178	205	255	255	305	360	410	437	465	44	
	**	203	234	292	292	349	412	468	499	531	44	



PICTURE FRAME MOUNTING ANGLES

- Makes damper installation quick and easy
- · Proven savings in labor cost
- Precut and punched to fit damper exactly
- Add 50% to cost of damper
- Detailed drawings and installation instructions available at www.ruskin.com

Available in Dynamic

3

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

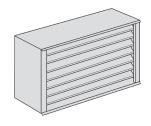
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

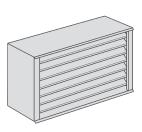
BRICK VENTS



MODEL LBV CAST ALUMINUM BRICK VENT

- 4 in. deep
- · Cast aluminum, load bearing construction
- · Includes water stop and insect screen

Model	Size	Price Each		
LBV88	8 x 7 3/4	\$161		
LBV168	16 x 7 3/4	\$179		



MODEL EX EXTRUDED ALUMINUM BRICK VENT

- 4 in. deep
- Extruded aluminum, load bearing construction
- Clear anodized finish
- Includes water stop and insect screen

Model	Size	Price Each
EX808	8 1/8 x 7 3/4	\$89
EX128	12 x 7 3/4	\$102
EX157	15 5/8 x 7 3/4	\$122



MODEL FL FLANGED EXTRUDED ALUMINUM BRICK VENT

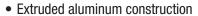
- 1 1/2 in. deep with 1 in. flange
- · Extruded aluminum, non-load bearing construction
- Includes water stop, storm drip blade and insect screen

Model	Size	Price Each	
FL808	8 1/8 x 7 3/4	\$89	
FL128	12 x 7 3/4	\$102	
FL1212	12 x 11 3/4	\$126	
FL157	15 5/8 x 7 3/4	\$122	

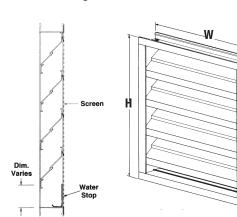
STATIONARY ALUMINUM LOUVERS



MODEL ELF211 THINLINE STATIONARY LOUVER



- 2 in. deep, .060 in. channel frame and blades
- Expanded aluminum birdscreen (on inside)
- · Standard mill finish
- More sizes available on 72 hr. shipment. See page 52.
- Flanged frames available on 72 hr. shipment. See page 52.



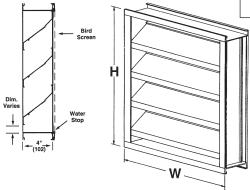
Size W x H	Free Area (Ft²)	Price Each	
12 x 12	0.26	\$159	
18 x 12	0.45	\$179	
24 x 12	0.76	\$197	



MODEL GFL800D STATIONARY LOUVER

- Extruded aluminum construction
- 4 in. deep, .080 in. channel frame with caulking slots
- Blades are .080 in., drainable
- Expanded aluminum birdscreen (on inside)
- Standard mill finish
- More sizes available on 72 hr. shipment. See page 53.
- Flanged frames available on 72 hr. shipment. See page 53.

Size W x H	Free Area (Ft²)	Price Each	Size W x H	Free Area (Ft²)	Price Each
18 x 18	0.67	\$218	30 x 30	2.59	\$457
24 x 18	0.93	\$249	36 x 30	3.15	\$507
24 x 24	1.49	\$275	36 x 36	3.85	\$549
30 x 24	1.90	\$302	42 x 42	5.18	\$672
36 x 24	2.31	\$333	48 x 48	7.10	\$799



NOTES — ALL LOUVERS:

- Screen adds 1/2 in. to depth.
- All louvers furnished 1/4 in. smaller than nominal opening size shown.

LOUVERS - 72 HOUR SHIPMENT



VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

> VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS ACCESS DOORS / ACTUAT

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

STEAM SPECIALTIES

MODEL ELF211, 2" DEEP LOUVERS AVAILABLE FOR SHIPMENT FROM THE FACTORY IN 72 HOURS.

- Orders must be placed by 10:30 a.m. for 72 hour shipment
- Orders over \$2,000.00 may take longer than 72 hours
- · Please allow 5 days for delivery

Price Matrix

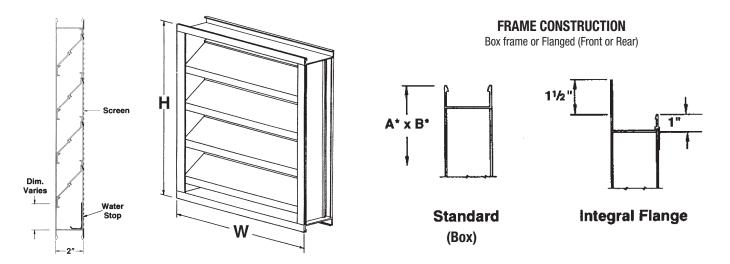
	WIDTH IN INCHES											
		12	18	24	30	36	42	48	54	60		
	12	206	233	256	279	303	323	352	451	483	12	
	16	233	259	288	317	343	372	410	526	567	16	
H E	20	256	288	323	358	393	422	466	602	649	20	H E
I G	24	273	314	355	396	436	474	524	675	730	24	I G
H	28	375	433	491	550	605	669	735	750	812	28	H
	32	399	468	535	596	660	730	805	820	896	32	_
I N	36	431	501	576	646	719	788	875	896	975	36	I N
	40	459	541	617	692	770	849	942	968	1053	40	
N	44	466	559	634	756	800	878	977	1038	1134	44	N
C H	48	506	590	677	765	855	940	1044	1108	1213	48	C H
E S	52	538	631	724	817	916	1003	1117	1181	1289	52	E S
•	56	576	675	765	870	977	1068	1186	1251	1358	56	3
	60	611	715	817	922	1030	1134	1251	1323	1437	60	

ORDERING INSTRUCTIONS

SCREEN: front □ rear □ bird □ insect □

FRAME: box front flange

SIZE: width___ height___ actual size □ deduct 1/4" □



For performance call your Hoffman & Hoffman Salesperson or consult www.ruskin.com

LOUVERS - 72 HOUR SHIPMENT



MODEL GFL800D, 4" DEEP LOUVERS AVAILABLE FOR SHIPMENT FROM THE FACTORY IN 72 HOURS.

- Orders must be placed by 10:30 a.m. for 72 hour shipment
- Orders over \$2,000.00 may take longer than 72 hours
- · Please allow 5 days for delivery

Price Matrix

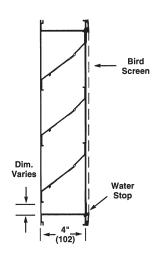
	WIDTH IN INCHES											
		12	18	24	30	36	42	48	54	60		
	12	168	183	203	224	241	259	282	358	387	12	
	16	183	206	227	253	276	294	326	416	451	16	
H	20	203	227	259	285	311	338	369	480	515	20	H E
I G	24	218	250	285	314	346	378	416	535	579	24	I G
Н	28	296	343	393	436	480	529	584	596	646	28	H
T	32	317	372	424	474	526	579	640	652	712	32	
I N	36	340	399	457	512	570	625	695	712	774	36	I N
	40	366	431	491	550	614	675	747	768	838	40	
N	44	369	445	506	567	637	698	777	826	902	44	N
C	48	401	468	538	608	680	745	829	881	963	48	C H
E S	52	428	503	573	649	730	794	887	937	1021	52	E S
	56	457	535	608	689	777	847	942	995	1076	56	
	60	486	567	649	733	817	902	995	1050	1138	60	

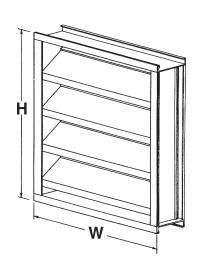
ORDERING INSTRUCTIONS

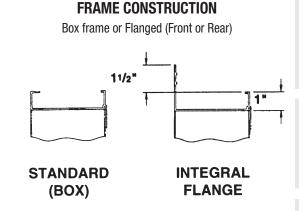
SCREEN: front □ rear □ bird □ insect □

FRAME: box □ front flange □

SIZE: width___ height___ actual size □ deduct 1/4" □







For performance call your Hoffman & Hoffman Salesperson or consult www.ruskin.com

> VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVER
ACCESS DOORS / ACTU

PIPE Sories

FLEXIBLE DUCT / SNAPLOCK & ACC.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES

ACCESS DOORS



MODEL ADC-14 CAM-TYPE ACCESS DOOR

- 24 ga. galvanized steel construction
- 1/2 in. insulation board, aluminum foil faced
- Neoprene gasket and cam locks for tight closure
- · Starter tab for easy installation

Nominal Size	Price Each	Nominal Size	Price Each
6" x 6"	\$15	14" x 14"	\$28
8" x 8"	\$16	16" x 16"	\$34
10" x 10"	\$20	18" x 18"	\$39
12" x 12"	\$22	24" x 24"	\$59



MODEL ADH-14 HINGED ACCESS DOOR

- · 24 ga. galvanized steel construction
- 1/2 inch insulation board, aluminum foil faced
- Neoprene gasket and cam locks for tight closure
- Starter tab for easy installation

Nominal Size	Price Each	Nominal Size	Price Each
6" x 6"	\$15	14" x 14"	\$28
8" x 8"	\$16	16" x 16"	\$34
10" x 10"	\$20	18" x 18"	\$39
12" x 12"	\$22	24" x 24"	\$59

MODEL RADI ROUND SPIRAL ACCESS DOOR

- Insulated construction with neoprene gaskets
- · Synthetic knobs with metal threaded inserts for ease of turning and prevention of thread stripping
- No need for tools to open

Duct Size (in.)	Opening Size (in.)	Door Size (in.)	Price Each
6	3 x 7	4 x 8	\$76
8-10	3 x 7	4 x 8	\$76
12-14	7 x 11	8 x 12	\$99
16-18	7 x 11	8 x 12	\$99
20-24	11 x 15	12 x 16	\$139



STEAM SPECIALTIES

ACCESS PANELS



STYLE K ACCESS PANEL

- For use in ceilings, masonry and dry walls
- · Convenient access to plumbing, heating and electrical systems
- Aluminum frame, 14 ga. steel panel

Door Size	Wall Opening	Overall Size	Depth	Price Each
8 x 8	8 3/8 x 8 3/8	10 5/8 x 10 5/8	1 1/2"	\$67
12 x 12	12 3/8 x 12 3/8	14 5/8 x 14 5/8	1 1/2"	\$84
18 x 18	18 3/8 x 18 3/8	20 5/8 x 20 5/8	1 1/2"	\$104
24 x 24	24 3/8 x 24 3/8	26 5/8 x 26 5/8	1 1/2"	\$200



STYLE FIRE-RATED ACCESS PANEL

- For use in fire-rated walls and ceilings
- Provided with masonry anchors, concealed hinges, turn knob or flush key hole
- 16 ga. steel frame, 20 ga. steel panel

Door Size	Wall Opening	Overall Size	Depth	Price Each
8 x 8	8 3/8 x 8 3/8	10 x 10	2 9/16"	\$167
12 x 12	12 3/8 x 12 3/8	14 x 14	2 9/16"	\$173
18 x 18	18 3/8 x 18 3/8	20 x 20	2 9/16"	\$222
24 x 24	24 3/8 x 24 3/8	26 x 26	2 9/16"	\$278



STYLE AHD ACCESS PANEL

- · For all surface types
- 16 ga. cold rolled steel
- · Screwdriver operated cam latch

Door Size	Wall Opening	Overall Size	Depth	Price Each
8 x 8	8 1/4 x 8 1/4	10 x 10	1 1/2"	\$38
12 x 12	12 1/4 x 12 1/4	14 x 14	1 1/2"	\$43
18 x 18	18 1/4 x 18 1/4	20 x 20	1 1/2"	\$65
24 x 24	24 1/4 x 24 1/4	26 x 26	1 1/2"	\$95

FLEXIBLE DUCT By Flexmaster

SUPERIOR QUALITY • MECHANICAL JOINED WITHOUT ADHESIVES



TYPE 1MR6 - INSULATED ACOUSTIC

A factory insulated, fully lined duct for use in low and medium pressure air distribution systems. The inner core is constructed of an acoustic material which allows sound waves to penetrate and be absorbed by the insulation. Solid mechanical union of fabric and corrosion resistant galvanized steel spiral helix creates an extraordinary durable seam. Thermally insulated to an R Value of 6.0 and supplied with a reinforced metalized protective barrier. Manufactured in 25' lengths and compressed for easy handling. Working pressure: +10" w.g.



Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length				
6	\$118	14	\$237				
8	\$143	16	\$283				
10	\$166	18	\$348				
12 \$197							
NS300 - 1-3/4 IN X 300 FT HANGING NOVA STRAP\$24							

TYPE 3MR6 - HIGH PRESSURE - INSULATED

A factory insulated, fully lined duct for use in high pressure air distribution systems. The core is fabricated of a trilaminate of aluminum foil, fiberglass and aluminized polyester mechanically locked into a corrosion resistant galvanized steel spiral helix. Thermally insulated to an R Value of 6.0 and supplied with a reinforced metalized protective barrier. Manufactured in 25' lengths and compressed for easy handling. Working pressure: +20" w.g.



Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length
6	\$168	12	\$284
8	\$202	14	\$333
10	\$242	16	\$397
NS300 – 1-3/4 IN X 300 FT HANGING NOVA STRAP\$24			

TYPE 3NI – HIGH PRESSURE – UNINSULATED

An uninsulated flexible duct suitable for high pressure systems. Type 3NI is constructed of a coated fiberglass fabric mechanically interlocked by a corrosion resistant galvanized steel spiral helix on the outside of the fabric. Working pressure: +20" w.g.



Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length
6	\$81	12	\$141
8	\$99	14	\$152
10	\$121		
NS300 – 1-3/4 IN X 300 FT HANGING NOVA STRAP\$24			

FLEXIBLE DUCT by JP Lamborn





TYPE MHP25R6 INSULATED DUCT

Flexible duct is constructed with a spring steel wire helix, encapsulated in a 2-ply, airtight inner core. Extra-thick insulation with a thermal value of R6 encompasses the core and a metalized, reinforced vapor barrier surrounds the entire duct. Positive pressure: 6" W.G. (4"-12") 4" W.G. (14"-20"). Negative pressure: 1" W.G. (4"-10") 1/2" W.G. (12"-20").

Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length
6	\$55	14	\$124
8	\$66	16	\$143
10	\$83	18	\$165
12	\$103	20	\$203
NS300 - 1 3/4 in x 300 ft Hanging NOVA Strap\$24			



TYPE MHP25R8 INSULATED DUCT

Flexible duct is constructed with a spring steel wire helix, encapsulated in a 2-ply, airtight inner core. Extra-thick insulation with a thermal value of R8 encompasses the core and a metalized, reinforced vapor barrier surrounds the entire duct. Positive pressure: 6" W.G. (4"-12") 4" W.G. (14"-20"). Negative pressure: 1" W.G. (4"-10") 1/2" W.G. (12"-20").

Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length
6	\$74	12	\$133
8	\$90	14	\$153
10	\$108	16	\$184
NS300 - 1 3/4 in x 300 ft Hanging NOVA Strap\$24			

FLEXMASTER STICK-ON FITTINGS



TYPE FLD-B03-SOG STICK-ON FITTING

- · Round takeoff to sheet metal duct
- · Quality adhesive backing for quick mounting
- Neoprene sponge gasket for low leakage
- Includes damper and hand quadrant with 2" build out
- 3/8" steel shaft
- · Galvanized steel construction

FLD-B03 Size	Diameter	Length	Price Each
6	5 7/8	7	\$16
8	7 7/8	7	\$19
10	9 7/8	7	\$22
12	11 7/8	7	\$26
14	13 7/8	7	\$28
16	15 7/8	7	\$35
18	17 7/8	7	\$48

TYPE FLDE-B03-SOG STICK-ON FITTING



- · Round takeoff to sheet metal duct
- · Quality adhesive backing for quick mounting
- Neoprene sponge gasket for low leakage
- Includes damper, hand quadrant with 2" build out and 45° extractor
- 3/8" steel shaft
- · Galvanized steel construction

FLDE-B03 Size	Diameter	Length	Price Each
6	5 7/8	7	\$21
8	7 7/8	7	\$23
10	9 7/8	7	\$27
12	11 7/8	7	\$31
14	13 7/8	7	\$33
16	15 7/8	7	\$41
18	17 7/8	7	\$55

TYPE STO-D-B03 SIDE TAKEOFF FITTING



- For use on sheet metal duct
- · Aerodynamic design improves performance
- Prepunched holes and adhesive coated gasket
- · Includes damper and hand quadrant with 2" build out
- 3/8" steel shaft
- Galvanized steel construction

STOD -B03 Size	Diameter	Length	Rectangle Opening	Price Each
6	5 7/8	13	5 x 9	\$31
8	7 7/8	13	6 x 12	\$35
10	9 7/8	13	8 x 14	\$41
12	11 7/8	13	10 x 16	\$49
14	13 7/8	13	12 x 18	\$58
16	15 7/8	13	14 x 20	\$67

SNAPLOCK PIPE AND ACCESSORIES



SNAPLOCK PIPE

Size	Description	Price Each
4	4" 5FT 26 GA	\$16
6	6" 5FT 26 GA	\$20
8	8" 5FT 26 GA	\$26
10	10" 5FT 26 GA	\$31
12	12" 5FT 26 GA	\$38
14	14" 5FT 26 GA	\$46



90° ADJUSTABLE ELBOWS

Size	Description	Price Each
4	4" 26 GA Elbow	\$6
6	6" 26 GA Elbow	\$6
8	8" 26 GA Elbow	\$9
10	10" 26 GA Elbow	\$13
12	12" 26 GA Elbow	\$16
14	14" 26 GA Elbow	\$22



END CAPS

Size	Description	Price Each
4	4" 28 GA End Cap	\$8
6	6" 28 GA End Cap	\$9
8	8" 28 GA End Cap	\$10
10	10" 28 GA End Cap	\$12
12	12" 28 GA End Cap	\$15
14	14" 28 GA End Cap	\$16





TAKEOFFS

Model	Size	Description	Price Each
ATD	4	4" Takeoff with Damper	\$14
ATD	6	6" Takeoff with Damper	\$12
ATD	8	8" Takeoff with Damper	\$14
ATD	10	10" Takeoff with Damper	\$21
ATD	12	12" Takeoff with Damper	\$28
ATD	14	14" Takeoff with Damper	\$32
ATSD	4	4" Takeoff with Damper & Scoop	\$23
ATSD	6	6" Takeoff with Damper & Scoop	\$23
ATSD	8	8" Takeoff with Damper & Scoop	\$25
ATSD	10	10" Takeoff with Damper & Scoop	\$33
ATSD	12	12" Takeoff with Damper & Scoop	\$45
ATSD	14	14" Takeoff with Damper & Scoop	\$57

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

SNAPLOCK PIPE ACCESSORIES



TEES

Size	Description	Price Each
4	4" 26 GA Tee	\$30
6	6" 26 GA Tee	\$33
8	8" 26 GA Tee	\$42
10	10" 26 GA Tee	\$48
12	12" 26 GA Tee	\$49
14	14" 26 GA Tee	\$54



WYES

Size	Description	Price Each
4	4" 28 GA Wye	\$21
6	6" 28 GA Wye	\$21
8	8" 28 GA Wye	\$21
10	10" 28 GA Wye	\$26
12	12" 28 GA Wye	\$40
14	14" 28 GA Wye	\$54

AIR-TITE STICK-ON SADDLE



- Round takeoff to round metal duct
- Polyethylene cross-linked fire retardant gasket
- 1 1/2" gasket and flange
- 26 gauge galvanized construction
- Includes damper and hand quadrant

Size	Fits Duct Sizes	Price Each
4	8-20	\$13
6	10-20	\$13
8	12-16	\$16
10	12-18	\$26
12	16-20	\$30
14	16-22	\$36

ACCESSORIES



Model	Description	Price Each
SUPERSEAL 1	UL 181-B 1 Gallon Duct Sealant	\$31
BB2	2 Inch Bristle Brush	\$2
BB3	3 Inch Bristle Brush	\$3
PPT10X1/2	Pro Point Screw (1000 Per Bucket)	\$50
PPT10X3/4	Pro Point Screw (1000 Per Bucket)	\$50
PPT10X1	Pro Point Screw (1000 Per Bucket)	\$51
DCL516	2 5/8" Long Chuck For 5/16" Hex Head	\$11

CLAMPS AND TOOLS



STAINLESS STEEL CLAMPS

- Worm drive, swivel action
- Suitable for high or low pressure, insulated or uninsulated

Diameter	Price Each	Diameter	Price Each
4-5"	\$3.15	12"	\$5.30
6"	\$3.45	14"	\$5.80
8-9"	\$4.25	16"	\$6.20
10"	\$4.60	18"	\$6.70
		20"	\$7.00



NYLON CLAMPS

- Self-locking, 175 lb. tensile strength
- 36 in. cone; join 2 together for larger diameters
- · Clamps are releasable until applied with tensioning tool

Price Each for 1 - 299	Price Each for 300 - 499	Price Each for 500 - up
\$.46	\$.45	\$.44



MODEL DIT-2 TENSIONING TOOL

- Heavy duty construction
- Mechanical advantage assures tight clamping action

Model	Price Each
DIT-2	\$75

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

STEAM SPECIALTIES

TAPE AND SEALANTS



DUCT TAPE

- PC857 Duct Tape UL 181-B-FX 82P4
- AF100-A HVAC Foil Tape UL 181-A-P/B-FX

Model	WxL	Price Each
PC857-2	2" x 60 yards	\$27
PC857-3	3" x 60 yards	\$41
AF100-A-2.5	2.5" x 60 yards	\$27

MASTIC TAPE

• SF686 Mastic Tape UL 181-B-FX



Model	WxL	Price Each
SF686-2	2" x 100 ft.	\$50
SF686-3	3" x 100 ft.	\$67

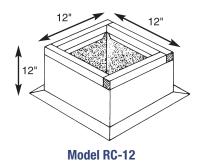
DYN-O-WRAP

- Durable and puncture resistant
- Self-adhesive inner surface
- Excellent for ductwork
- Easily removable without leaving residue



Model	Description	Price Each
DW24-200	24 inch DYN-O-WRAP	\$43

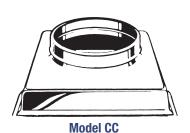
PIPE PORTAL SYSTEMS



PIPE FLASHING SYSTEM

This system is designed to allow both vertical and horizontal pipe movement, yet provides a maintenance free permanent installation which accommodates pipe sizes of 3/8" to 6". The system is offered in three parts: roof curb, curb cover, and rubber cap (1-pipe or 4-pipe). The curb cover is molded from ABS plastic with a laminated acrylic coating, which gives high resistance to both ozone and ultraviolet exposure. The caps are compression molded of EPDM rubber with conical shaped steps on the nipple for a taut weatherproof seal around the pipe. Caps include stainless steel clamps for added pipe seal protection.

Model	Price Each
RC-12 Curb	\$76
CC Curb Cover	\$87









Cap Model	Accommodates Pipe Sizes	Price Each
C-126 (1 pipe)	Single pipe 2" thru 6"	\$82
C-212 (4 pipe)	Two pipes 3/8" thru 1" Two pipes 1" thu 2"	\$82
C-481 (4 pipe)	Four pipes 3/8" thru 1"	\$82

SELF-FLASHING SYSTEM

Alumi-Flash for hot applied roof systems. In some installations, the Alumi-Flash may be used in lieu of a curb. The 8" diameter top accepts any of the rubber caps. Construction is spun aluminum.



Model	Price Each
Alumi-Flash	\$100

SELF-SEALING SPIRAL PIPE AND FITTINGS



VARIABLE SPEED DRIVES & STARTERS

Single wall spiral duct

All fittings have factory installed gaskets

Galvanized steel construction (ASTMA 527)

10

Prices **DO NOT** include freight

DIFFUSERS / TRANSITIONS

REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

VIBRATION ISOLATION

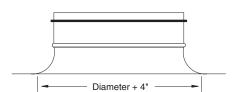
STEAM SPECIALTIES

By Eastern Sheet Metal



STRAIGHT PIPE 10 FT. LENGTHS

OTTIAIGHT THE TOT IL ELIGINO					
Duct Diameter	Wt. Each (lbs.)	Ga.	Price Per 10 Ft. Length		
3	8.1	26	\$30		
4	10.8	26	\$39		
5	13.5	26	\$47		
6	16.2	26	\$56		
8	21.6	26	\$73		
10	27.0	26	\$91		
12	32.4	26	\$108		
14	37.8	26	\$126		
16	43.2	26	\$143		
18	48.6	26	\$160		
20	54.0	26	\$177		
22	59.4	26	\$194		
24	64.8	26	\$215		
	Duct Diameter 3 4 5 6 8 10 12 14 16 18 20 22	Duct Diameter Wt. Each (lbs.) 3 8.1 4 10.8 5 13.5 6 16.2 8 21.6 10 27.0 12 32.4 14 37.8 16 43.2 18 48.6 20 54.0 22 59.4	Duct Diameter Wt. Each (lbs.) Ga. 3 8.1 26 4 10.8 26 5 13.5 26 6 16.2 26 8 21.6 26 10 27.0 26 12 32.4 26 14 37.8 26 16 43.2 26 18 48.6 26 20 54.0 26 22 59.4 26		



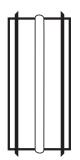
BELLMOUTH

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each	
PBT4	4	0.4	26	\$31	
PBT5	5	0.5	26	\$31	
PBT6	6	0.6	26	\$33	
PBT8	8	0.8	26	\$36	
PBT10	10	1.1	26	\$41	
PBT12	12	1.3	26	\$42	
PBT14	14	2.6	26	\$98	
PBT16	16	2.9	26	\$115	
PBT18	18	3.3	26	\$131	
PBT20	20	3.5	24	\$145	
PBT22	22	3.9	24	\$170	
PBT24	24	4.2	24	\$181	

STEAM SPECIALTIES

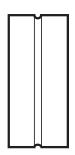
SELF-SEALING SPIRAL PIPE FITTINGS By Eastern Sheet Metal





PIPE COUPLING

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PCPT3	3	0.3	26	\$16
PCPT4	4	0.4	26	\$16
PCPT5	5	0.5	26	\$17
PCPT6	6	0.5	26	\$17
PCPT8	8	0.7	26	\$18
PCPT10	10	0.9	26	\$19
PCPT12	12	1.1	26	\$20
PCPT14	14	1.3	26	\$21
PCPT16	16	1.4	26	\$22
PCPT18	18	1.6	26	\$22
PCPT20	20	2.3	24	\$28
PCPT22	22	2.5	24	\$29
PCPT24	24	2.7	24	\$30



FITTING COUPLING

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
FCPT3	3	0.3	26	\$4
FCPT4	4	0.4	26	\$4
FCPT5	5	0.5	26	\$4
FCPT6	6	0.5	26	\$5
FCPT8	8	0.7	26	\$5
FCPT10	10	0.9	26	\$6
FCPT12	12	1.1	26	\$7
FCPT14	14	1.3	26	\$7
FCPT16	16	1.4	26	\$8
FCPT18	18	1.6	26	\$8
FCPT20	20	2.3	24	\$14
FCPT22	22	2.5	24	\$15
FCPT24	24	2.7	24	\$15

SELF-SEALING SPIRAL PIPE FITTINGS



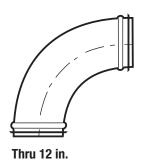
DRIVES & STARTERS

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

FLEXIBLE DUCT / SNAPLOCK & ACC.

By Eastern Sheet Metal







	OO DEGITEE EEDOTI					
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each		
PE90T3	3	1.1	26	\$45		
PE90T4	4	1.7	26	\$48		
PE90T5	5	2.5	26	\$53		
PE90T6	6	3.4	26	\$61		
PE90T8	8	5.5	26	\$74		
PE90T10	10	8.2	26	\$98		
PE90T12	12	11.1	26	\$119		
E90T14	14	12.0	26	\$135		
E90T16	16	15.3	26	\$155		
E90T18	18	19.1	26	\$191		
E90T20	20	29.7	24	\$248		
E90T22	22	42.9	24	\$284		
E90T24	24	50.0	24	\$335		



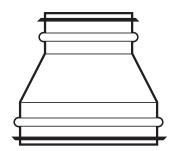


45 DEG. ELBOW

<u> </u>	40 DEGI EEDON						
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each			
PE45T3	3	0.6	26	\$41			
PE45T4	4	1.0	26	\$42			
PE45T5	5	1.4	26	\$45			
PE45T6	6	1.8	26	\$49			
PE45T8	8	3.0	26	\$56			
PE45T10	10	4.4	26	\$69			
PE45T12	12	6.0	26	\$78			
E45T14	14	6.6	26	\$84			
E45T16	16	8.4	26	\$94			
E45T18	18	10.3	26	\$108			
E45T20	20	16.0	24	\$139			
E45T22	22	19.0	24	\$158			
E45T24	24	22.3	24	\$172			

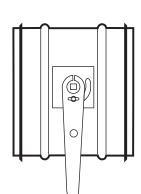
SELF-SEALING SPIRAL PIPE FITTINGS By Eastern Sheet Metal





CONCENTRIC REDUCER

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PRDT43	4 to 3	0.4	26	\$31
PRDT53	5 to 3	0.6	26	\$31
PRDT54	5 to 4	0.6	26	\$31
PRDT64	6 to 4	0.9	26	\$33
PRDT65	6 to 5	0.8	26	\$33
PRDT86	8 to 6	1.4	26	\$37
PRDT106	10 to 6	2.0	26	\$41
PRDT108	10 to 8	1.8	26	\$42
PRDT128	12 to 8	2.5	26	\$45
PRDT1210	12 to 10	2.2	26	\$45
RDT148	14 to 8	4.9	26	\$78
RDT1410	14 to 10	4.7	26	\$80
RDT1412	14 to 12	4.9	26	\$83
RDT1610	16 to 10	5.7	26	\$86
RDT1612	16 to 12	5.4	26	\$87
RDT1614	16 to 14	5.7	26	\$90
RDT1812	18 to 12	6.5	26	\$93
RDT1814	18 to 14	6.1	26	\$93
RDT1816	18 to 16	6.4	26	\$96
RDT2014	20 to 14	9.4	24	\$110
RDT2016	20 to 16	8.7	24	\$111
RDT2018	20 to 18	9.2	24	\$113
RDT2216	22 to 16	10.4	24	\$117
RDT2218	22 to 18	9.7	24	\$118
RDT2220	22 to 20	10.1	24	\$124
RDT2418	24 to 18	11.5	24	\$126
RDT2420	24 to 20	10.7	24	\$128
RDT2422	24 to 22	10.9	24	\$131



MODEL DT ROUND SPIRAL DAMPER

- 22 ga. galvanized construction
- · Factory-mounted stand-off with locking hand quadrant
- Designed for spiral duct balancing applications
- · Seal becomes part of ductwork

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
DT6	6	2.1	22	\$58
DT8	8	2.5	22	\$62
DT10	10	2.9	22	\$67
DT12	12	3.4	22	\$71
DT14	14	3.8	22	\$75



VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

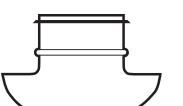
FLEXIBLE DUCT / SNAPLOCK & ACC.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES

SELF-SEALING SPIRAL PIPE FITTINGS	0
By Eastern Sheet Metal	

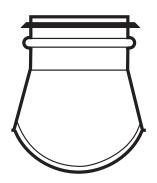


PRESSED TAP

Part Number	Tap Diameter	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PFTCT44	4	4	0.4	26	\$25
PFTCT46	4	6	0.4	26	\$25
PFTCT48	4	8	0.4	26	\$25
PFTCT410	4	10	0.5	26	\$25
PFTCT412	4	12	0.5	26	\$25
PFTCT66	6	6	0.8	26	\$27
PFTCT68	6	8	0.8	26	\$27
PFTCT610	6	10	0.8	26	\$27
PFTCT612	6	12	0.8	26	\$27
PFTCT614	6	14	0.8	26	\$27
PFTCT616	6	16	0.8	26	\$27
PFTCT88	8	8	1.2	26	\$31
PFTCT810	8	10	1.2	26	\$31
PFTCT812	8	12	1.2	26	\$31
PFTCT814	8	14	1.2	26	\$31
PFTCT816	8	16	1.2	26	\$31
PFTCT818	8	18	1.2	26	\$31
PFTCT820	8	20	1.2	24	\$31
PFTCT822	8	22	1.2	24	\$31
PFTCT824	8	24	2.1	24	\$31
PFTCT1010	10	10	2.1	26	\$39
PFTCT1012	10	12	2.1	26	\$39
PFTCT1014	10	14	2.1	26	\$39
PFTCT1016	10	16	2.1	26	\$39
PFTCT1018	10	18	2.1	26	\$39
PFTCT1020	10	20	2.1	24	\$39
PFTCT1022	10	22	2.1	24	\$39
PFTCT1024	10	24	2.1	24	\$39
PFTCT1212	12	12	2.7	26	\$42
PFTCT1214	12	14	2.7	26	\$42
PFTCT1216	12	16	2.7	26	\$42
PFTCT1218	12	18	2.7	26	\$42
PFTCT1220	12	20	2.7	24	\$42
PFTCT1222	12	22	2.7	24	\$42
PFTCT1224	12	24	2.7	24	\$42

SELF-SEALING SPIRAL PIPE FITTINGS By Eastern Sheet Metal

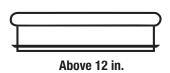




CONICAL TAP

Part Number	Tap Diameter	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
FTCT1414	14	14	11.5	26	\$50
FTCT1416	14	16	12.7	26	\$50
FTCT1418	14	18	13.9	26	\$50
FTCT1420	14	20	19.3	24	\$50
FTCT1422	14	22	20.8	24	\$50
FTCT1424	14	24	22.4	24	\$50
FTCT1616	16	16	13.8	26	\$53
FTCT1618	16	18	15.1	26	\$53
FTCT1620	16	20	20.9	24	\$53
FTCT1622	16	22	22.5	24	\$53
FTCT1624	16	24	24.2	24	\$53
FTCT1818	18	18	16.2	26	\$57
FTCT1820	18	20	22.5	24	\$57
FTCT1822	18	22	24.3	24	\$57
FTCT1824	18	24	26.0	24	\$57





END CAP

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PECT3	3	0.3	26	\$32
PECT4	4	0.4	26	\$32
PECT5	5	0.6	26	\$35
PECT6	6	0.7	26	\$35
PECT8	8	1.0	26	\$37
PECT10	10	1.4	26	\$47
PECT12	12	1.8	26	\$47
ECT14	14	2.6	26	\$56
ECT16	16	3.1	26	\$61
ECT18	18	3.7	26	\$65
ECT20	20	5.5	24	\$74
ECT22	22	6.4	24	\$80
ECT24	24	7.3	24	\$86

SELF-SEALING SPIRAL PIPE FITTINGS



DRIVES & STARTERS VARIABLE SPEED

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

FLEXIBLE DUCT / SNAPLOCK & ACC.

VIBRATION ISOLATION

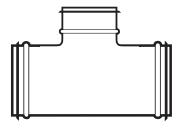
STEAM SPECIALTIES

By Eastern Sheet Metal





Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
YT3	3	1.6	26	\$72
YT4	4	2.4	26	\$78
YT5	5	3.3	26	\$86
YT6	6	4.4	26	\$93
YT8	8	6.8	26	\$111
YT10	10	9.8	26	\$132
YT12	12	13.3	26	\$153
YT14	14	17.4	26	\$177
YT16	16	22.0	26	\$201
YT18	18	27.1	26	\$227
YT20	20	41.7	24	\$287
YT22	22	49.5	24	\$324
YT24	24	58.0	24	\$375



TFF

<u> </u>				
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
TT3	3x3x3	1.4	26	\$50
TT4	4x4x4	2	26	\$52
TT5	5x5x5	3	26	\$56
TT6	6x6x6	3.2	26	\$59
TT8	8x8x8	4.5	26	\$67
TT10	10x10x10	6	26	\$75
TT12	12x12x12	7.8	26	\$86
TT14	14x14x14	9.6	26	\$98
TT16	16x16x16	11.7	26	\$108
TT18	18x18x18	13.9	26	\$119
TT20	20x20x20	20.8	24	\$170
TT22	22x22x22	24.1	24	\$184
TT24	24x24x24	27.6	24	\$199

SPIRAL HANGING SYSTEMS

GRIPPLE HANGING SYSTEMS

Gripple hangers incorporate a length of pre-cut cable with a pre-fabricated end fixing for maximum speed, efficiency and safety.



Gripple Lock



XP Loop Hanger



Duct Trapeze Loop Hanger



Cutter



Tensioning Tool

Part Number	Description	Length	* Price Per Hanger		
HF02-5	Loop Hanger Size 2 100 lbs	5 ft	\$10		
HF02-10	Loop Hanger Size 2 100 lbs	10 ft	\$12		
HF02-15	Loop Hanger Size 2 100 lbs	15 ft	\$13		
HF02-20	Loop Hanger Size 2 100 lbs	20 ft	\$15		
HF02-30	Loop Hanger Size 2 100 lbs	30 ft	\$19		
HF03-5	Loop Hanger Size 3 200 lbs	5 ft	\$12		
HF03-10	Loop Hanger Size 3 200 lbs	10 ft	\$14		
HF03-15	Loop Hanger Size 3 200 lbs	15 ft	\$16		
HF03-20	Loop Hanger Size 3 200 lbs	20 ft	\$19		
HF03-30	Loop Hanger Size 3 200 lbs	30 ft	\$23		
XP02-10	Loop Hanger Size 2 100 lbs with Button	10 ft	\$13		
XP02-20	Loop Hanger Size 2 100 lbs with Button	20 ft	\$16		
DT2-LG-10	Duct Trapeze Loop Hanger 100 lbs	10 ft	\$13		
DT2-LG-15	Duct Trapeze Loop Hanger 100 lbs	15 ft	\$15		
DT2-LG-20	Duct Trapeze Loop Hanger 100 lbs	20 ft	\$16		
DT2-LG-30	Duct Trapeze Loop Hanger 100 lbs	30 ft	\$21		
HF-SG-3/8-NO 2	Stud Hanger Size 2 100 lbs	10 ft	\$13		
HF-SG-3/8-NO 2	Stud Hanger Size 2 100 lbs	15 ft	\$15		
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	10 ft	\$15		
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	15 ft	\$17		
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	30 ft	\$25		
Cutter	Wire Rope Cutter		\$42		
TOOL-4-5BX	Tensioning Tool		\$142		
* Cable Kits Sold 10 Per Bag (Minimum Purchase 1 Bag)					

^{*} Cable Kits Sold 10 Per Bag (Minimum Purchase 1 Bag)

> VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS ACCESS DOORS / ACTUATO

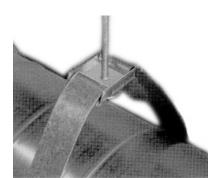
SPIRAL HANGING SYSTEMS AND BLAST GATES

DYNA-TITE CABLE SYSTEM



The Dyna-Tite CL23 cable lock and wire rope system is the newest, fastest, and most reliable way to secure ductwork and equipment. With this system the height of the unit can be adjusted without any tools. Galvanized construction.

Part Number	Description	Load Range	Price Each
CL12	Cable Lock	WC3	\$5
CL18	Cable Lock	WC4	\$7
CL23	Cable Lock	WC6	\$11
KV12	Bracket Assembly with CL12	WC3	\$6
WC3	3/32" Wire Rope 500 Ft. Roll	150 lb	\$248
WC4	1/8" Wire Rope 500 Ft. Roll	250 lb	\$278
WC6	3/16" Wire Rope 250 Ft. Roll	640 lb	\$330



STRAPPING SYSTEM

With this system the steel strap is hand bent into the bracket which is self loading. Can be used with 5/16" - 3/8" rod.

Part Number	Description	Load Range	Price Each
Strapping	1" Width 20 ga. 100 ft.	320 lb	\$77
Bracket	Accepts 5/16" - 3/8" Rod	660 lb	\$4



BLAST GATES

The standard FULL cut off is an aluminum cast housing to which collars have been "screwed". The screw is then ground off on the inside to keep it out of the air stream.

Part Number	Description	Price
C1032	3" Blast Gate	\$15
C1042	4" Blast Gate	\$17
C1062	6" Blast Gate	\$28
C1082	8" Blast Gate	\$46
C10102	10" Blast Gate	\$79
C10122	12" Blast Gate	\$102

ELECTRIC HEATERS By Markel



MARKEL SERIES 5100 UNIT HEATERS

Heaters are for vertical or horizontal mounting and include shock-proof finned tubular heating elements with built-in thermal cut-outs, individually adjustable outlet louvers and totally enclosed, permanently lubricated fan motors. Motors and line power supply are same voltage. Outward drawn discharge venturi enhances air flow. No disconnect.



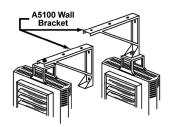
Model	KW	BTUH (000)	Heater Voltage	Control ⁽¹⁾ Voltage	Phase (2)	Price Each
HF2B5103	2.5/3.3	8.5/11.2	208/240	208/240	3/1	\$761
HF2B5105	3.7/5.0	12.8/17.1	208/240	208/240	3/1	\$795
HF2B5107CA1	5.6/7.5	19.2/25.6	208/240	24	3/1	\$1225
HF2B5110CA1	7.5/10.0	25.6/34.1	208/240	24	3/1	\$1351
G1G5103	3.3	11.2	277	277	1	\$761
G1G5105	5.0	17.1	277	277	1	\$795
P3P5103CA1	3.3	11.2	480	24	3	\$970
P3P5105CA1	5.0	17.1	480	24	3	\$1053
P3P5107CA1	7.5	25.6	480	24	3	\$1321
P3P5110CA1	10.0	34.1	480	24	3	\$1400
P3P5115CA1	15.0	51.2	480	24	3	\$2259
P3P5120CA1	20.0	68.3	480	24	3	\$2982

Notes:

- (1) 24-volt control units are supplied with low voltage control transformer and contactor.
- (2) Single or three-phase wiring on dual phase units is field interchangeable.

ACCESSORIES

Model	Description	For Use With:	Price Each
A5105	Horizontal Mounting Bracket	3.3 & 5.0 KW Heaters	\$116
A5120	Horizontal Mounting Bracket	7.5 - 20 KW Heaters	\$133
V5105	Vertical Mounting Bracket	3.3 - 5.0 KW Heaters	\$224
V5120	Vertical Mounting Bracket	7.5 - 20 KW Heaters	\$276
T5100	Field installed internal t'stat	for all except HF2B5103, 05 3 ph	\$141
T5102	Field installed internal t'stat	HF2B5103,05 3 ph	\$191
TW1512	HD line voltage wall t'stat	3 phase heaters	\$224
S2022H10AB	Line voltage wall t'stat	1 phase heaters	\$40
RK120EAA	Low voltage wall t'stat	24V control units	\$22
DCS202/5100	Power Disconnect Switch	2 Pole; 20 AMP; 120-277 VAC	\$152
DCS403/5100	Power Disconnect Switch	3 Pole; 40 AMP; 120-600 VAC	\$365
DCS603/5100	Power Disconnect Switch	3 Pole; 60 AMP; 600 VAC	\$500





MARKEL FAN FORCED ELECTRIC WALL HEATERS

Heavy duty heaters include finned tubular heating elements and tamper-proof grille with built-in overheat protection disconnect and thermostat. Rough-in dimensions are 14 3/16" wide x 19 15/16" high and 4" deep. Heater and wall box are packed and shipped together. Optional sleeve available for surface mounting.



Model	KW	втин	Voltage/Phase	Price Each
E3323	1.5	5120	120/1	\$711
HF3323	1.125/1.5	3840/5120	208/240/1	\$724
HF3324	1.5/2.0	5120/6284	208/240/1	\$724
HF3325	2.25/3.0	7763/10,350	208/240/1	\$724
HF3326	3.0/4.0	10,350/13,800	208/240/1	\$724
G3324	2.0	6284	277/1	\$723
G3325	3.0	10,350	277/1	\$723
G3326	4.0	13,800	277/1	\$723

ACCESSORIES

Model	Description	Price Each
3320EX33	Surface Mounting Sleeve	\$103
3310	Rough-In Box For Advance Installation	\$111

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

AIR FILTRATION



PLEATED PREFILTERS

- · Pleated design increases dust holding capacity
- Extended replacement intervals
- Increases service life of secondary filters

DIMENSIONAL DATA AND PRICES

Nominal Size	Actual Size	Filters Per Case	Price Each
20 x 20 x 1	19 ¹ / ₂ x 19 ¹ / ₂ x ³ / ₄	12	\$5
16 x 20 x 2	15 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	12	\$5
20 x 20 x 2	19 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	12	\$5
16 x 25 x 2	16 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	12	\$5
20 x 25 x 2	19 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	12	\$6
12 x 24 x 2	11 ³ / ₈ x 23 ³ / ₈ x 1 ³ / ₄	12	\$4
24 x 24 x 2	23 ³ / ₈ x 23 ³ / ₈ x 1 ³ / ₄	12	\$7
12 x 24 x 4	11 ³ / ₈ x 23 ³ / ₈ x 3 ³ / ₄	12	\$7
24 x 24 x 4	23 ³ / ₈ x 23 ³ / ₈ x 3 ³ / ₄	6	\$12



DIMENSIONAL DATA AND PRICES

Model	Nominal Size	Actual Size	Filters Per Case	Price Each
95PH	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	2	\$68
95PH	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	1	\$97

FILTER MEDIA ROLLS

Nominal Size	Description	Price Each
24 X 90 X ³ / ₄	Merv 7 Filter Media Roll	\$85
36 X 90 X ³ / ₄	Merv 7 Filter Media Roll	\$124
60 X 90 X 1	Merv 8 Filter Media Roll	\$228

FILTER FRAMES AND FASTENERS



- Universal holding frame accommodates wide range of filter sizes and types
- Variety of fasteners enables use with 1", 2" and 4" panel filters
- Galvanized construction
- Also accepts 6" and 12" deep cartridge filters

Frame Size	Price Each
12 x 24	\$38
24 x 24	\$42

Fastener Model No.	Upstream or Downstream	Fastener Used to Secure	Qty. Required per Filter	Price Each
CC611	Up or Down	1" or 2" deep filter	4	\$1
WF611	Up or Down	4" deep filter	4	\$2
PFC-2	Up	2" deep 30% as a prefilter to a cartridge (no header)	4	\$1
PFC-4	Up	4" deep 30% as a prefilter to a cartridge (no header)	4	\$1
PCA-2	Up or Down	2" deep filter	4	\$2
PCA-3	Up or Down	2" deep 30% as a prefilter to a cartridge	4	\$2
PCA-4	Up or Down	4" deep filter	4	\$2
PCA-5	Up or Down	4" deep 30% as a prefilter to a cartridge	4	\$2
12611	Up or Down	12" cartridge without prefilter	4	\$5

MAGNEHELIC PRESSURE GAUGES



DWYER SERIES 2000 MAGNEHELIC GAUGES

- 1/8" NPT plugs for duplicate pressure taps
- Includes rubber tubing adapters, flush mounting lugs and necessary screws
- Use accessory A-605 to convert for use as air filter gauge

Model No.	Range	Price Each
2001	0 - 1.0"	\$110
2002	0 - 2.0"	\$110
2006	0 - 6.0"	\$110
A-605	N/A	\$69

MANOMETERS





• Includes 8 ft. flexible, double column, plastic tubing, 2 connector fittings for 1/8" pipe thread, mounting screws, 3/4 oz. gauge oil

Model	Description	Price Each
Manometer No. 25	Manometer No. 25 Range .05 - 3"	
A-310A	3-way vent valve (2 per gauge)	\$33
A-101	Red Gauge Oil, .826 sp. gr.	\$15

> Variable speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

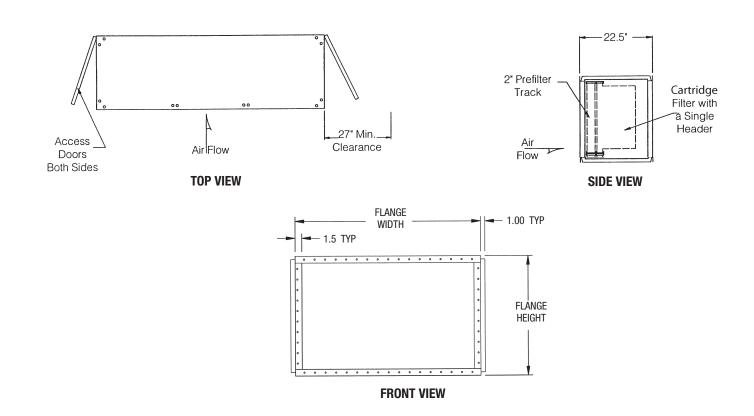
SIDE ACCESS FILTER HOUSINGS



- · Unprecedented versatility and ease of maintenance
- Two stage filtration using pleated pre-filters and high efficiency rigid filters
- Constructed of durable 16 ga. galvanized construction for indoor or outdoor installation
- Pressure capability up to 3 in. WG positive or negative
- Access doors on both sides of housing for filter changeout from either side
- · Fully gasketed doors and tracks
- Housing can accommodate both 6 in. cartridge filters (not stocked) and 12 in. cartridge filters (stocked)
- Filters slide into tracks. No need for holding frames or fasteners

DIMENSIONAL DATA AND PRICES

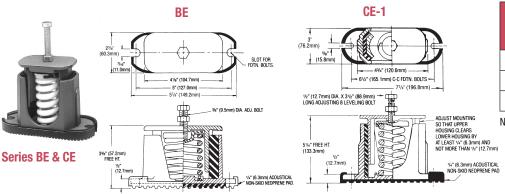
Model	Actual Size	Prefilters Required Per Unit	Cartridge Filters Required Per Unit	Price Each	S T O C K
1 x 1	23 ³ /8"W x 27 ¹ / ₄ "H	(1) - 24 x 24 x 2	(1) - 24 x 24 x 12	\$902	G
1 x 2	46 ³ / ₄ "W x 27 ¹ / ₄ "H	(2) - 24 x 24 x 2	(2) - 24 x 24 x 12	\$1235	G



VIBRATION MOUNTINGS

STEEL SPRING MOUNTINGS

Types BE & CE-1 are single spring mountings including enclosed cast housings and external adjustment bolt

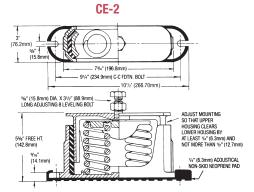


Туре	Spring Size	Price Each
BE	C50-C370	\$62
CE-1	D120-D510	\$86
CE-1	D675-D1360	\$95

Note: See Spring Chart on page 78 for maximum load.

• Type CE-2 mounts include two springs and maximum load is two times values in chart for a single spring

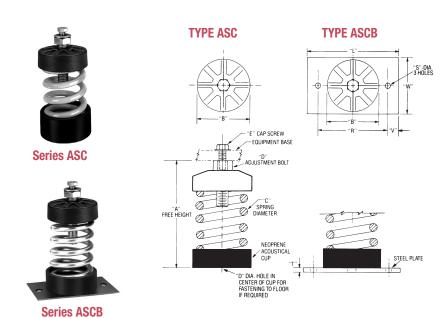




Туре	Spring Size	Price Each
CE-2	D510	\$134
CE-2	D675-D1360	\$152

Note: See Spring Chart on page 78 for maximum load.

- Type ASC is a free-standing, laterally stable spring mounting with built-in leveling bolt.
- The ASCB mount is similar to the ASC above except the bottom cup is bonded to a 4 1/2 x 2 1/2 steel plate.



Туре	Spring Size	Price Each
ASC	C50-C370	\$42
ASCB	C50-C370	\$48

Note: See Spring Chart on Page 78 for maximum load.

ASC & ASCB Dimensions: in. (mm)

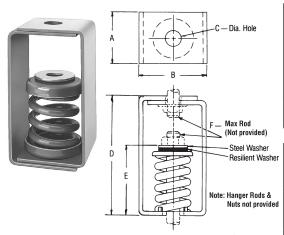
	to a contract of the contract							
A	В	C	D	E				
4 ¹ / ₂ " (114.3)	2 ³ /8" (60.3)	2" (50.8)	⁵ /8" (16.0)	³ / ₈ " (9.5)				
L	W	Т	R	s	V			
4 ¹ / ₂ " (114.3)	2 ¹ / ₂ " (63.5)	¹ / ₈ " (3.18)	3 ¹ / ₂ " (89.0)	⁷ / ₁₆ " (11.2)	¹ / ₂ " (12.7)			

> VARIABLE SPEED DRIVES & STARTERS

VIBRATION MOUNTINGS

MODEL HS SPRING-FLEX HANGERS

Type **HS** hangers incorporate a steel spring in series with a neoprene noise isolation washer. The **HS-1D** housings are 7" high and can accommodate up to 3/4" diameter hanger rods. The **HS-1B** housings (assembled) are 4 1/2" high and accommodate up to 3/8" diameter hanger rods. All other **HS-1C** housings are 5 1/2" high and can accommodate up to 5/8" diameter rods.



HS Dimensions: in. (mm)

TYPE & SIZE	A	В	С	D	E	F
HS-1B-B20-B85	21/4" (57.5)	23/4" (69.8)	⁹ /16" (14.2)	4 ¹ / ₂ " (114.3)	23/4" (69.8)	³ / ₈ " (9.5)
HS-1C-C50-C370	21/4" (57.5)	3" (76.2)	¹³ /16" (20.6)	5 ¹ /2" (139.7)	2 ¹⁵ / ₁₆ " (76.0)	⁵ /8" (15.8)
HS-1D-D120-D1360	3" (76.2)	31/4" (76.2)	1 ¹ / ₄ " (31.75)	7" (177.8)	4 ³ / ₈ " (114.0)	³ / ₄ " (19.0)

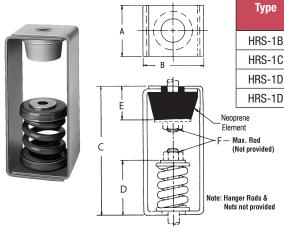
Туре	Spring Size	Price Each
HS-1B	B20-B85	\$23
HS-1C	C50-C370	\$32
HS-1D	D120-D510	\$41
HS-1D	D675-D1360	\$50

UNIVERSAL SPRING CHART

Spring Number	Spring Color	Size	Max Load Lbs.			
T1B-20	Blue	2 1/2"	20			
T1B-35	Black	2 1/2"	35			
T1B-50	Red	2 1/2"	50			
T1B-70	Green	2 1/2"	70			
T1B-85	Gray	2 1/2"	85			
T1C-50	Blue	2 3/4"	50			
T1C-100	Tan	2 3/4"	100			
T1C-150	Red	2 3/4"	150			
T1C-250	Black	2 3/4"	250			
T1C-370	Yellow	2 3/4"	370			
T1D-120	Black	4"	120			
T1D-175	Blue	4"	175			
T1D-250	Yellow	4"	250			
T1D-340	Red	4"	340			
T1D-510	Black	4"	510			
T1D-675	Purple	4"	675			
T1D-900	Green	4"	900			
T1D-1200	Gray	4"	1200			
T1D-1360	White	4"	1360			

MODEL HRS SPRING-FLEX HANGERS

Type **HRS** hangers combine a steel spring with a neoprene hanger element. The spring isolates low frequency mechanical vibration and the neoprene element provides excellent sound attenuation. **HRS-1D** housings are 10" high and can accommodate up to 3/4" hanger rods. **HRS-1B** housings (assembled) are 5 1/4" high and accommodate up to 3/8" diameter rods. All other **HRS-1C** housings are 7" high and can accommodate up to 5/8" diameter rods.



B B20-B85 \$31 C C50-C370 \$47 D D120-D510 \$73 D D675-D1360 \$82

Spring Size

Price

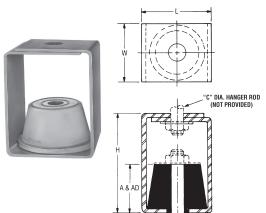
Each

HRS Dimensions: in. (mm)

TYPE & SIZE	A	В	C	D	E	F
HRS-1B-B20-B85	21/4"	23/4"	5 ¹ /4"	27/8"	¹⁵ /16"	3/8"
11113-111-1120-1103	(75.0)	(69.8)	(133.3)	(73.0)	(23.8)	(9.5)
HRS-1C-C50-C370	3"	31/4"	7"	3"	1 ¹¹ /16"	5/8"
1103-10-030-0370	(76.2)	(95.2)	(177.8)	(76.2)	(47.8)	(15.8)
HRS-1D-D120-D1360	3"	33/4"	10"	43/8"	21/8"	3/4"
11N3-10-0120-01300	(76.2)	(95.2)	(254.0)	(111.0)	(53.9)	(19.0)

VIBRATION MOUNTINGS

NEOPRENE-IN-SHEAR HANGERS

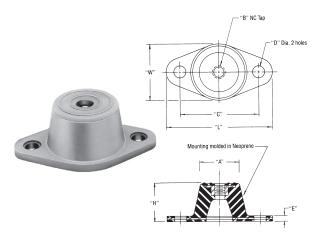


Туре	Max Load Blue	Max Load Black	Max Load Red	Max Load Green	Price Each
HR-A	35 lbs	45 lbs	75 lbs	120 lbs	\$13
HR-B	_	170 lbs	240 lbs	380 lbs	\$36

HR Dimensions: in. (mm)

Туре	L	w	н	A*	AD*	С
HR-A	2 ¹ /4" (57.2)	2" (50.8)	3" (76.2)	1 ¹ /8" (28.6)	1 ³ /8" (35.0)	³ / ₈ " (9.6)
HR-B	3" (76.2)	2 ¹ /4" (57.2)	4 ¹ / ₂ " (114.3)	1 ³ /8" (35.0)	1 ⁷ /8" (47.8)	⁵ /8" (16.0)

NEOPRENE-IN-SHEAR MOUNTINGS



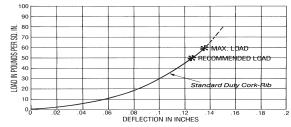
Туре	Max Load Blue	Max Load Black	Max Load Red	Max Load Green	Max Load Gray	Price Each
R-1	35 lbs	45 lbs	70 lbs	120 lbs	_	\$20
R-2	135 lbs	170 lbs	240 lbs	380 lbs	_	\$22
R-3	_	250 lbs	525 lbs	750 lbs	1100 lbs	\$51

R Dimensions: in. (mm)

Туре	L	W	Н	A	В	С	D	E
R-1	3 ¹ /8" (79.4)	1 ³ / ₄ " (44.4)	1" (25.4)	1 ¹ /4" (31.7)	⁵ / ₁₆ " (8.0)	2 ³ /8" (60.4)	¹¹ / ₃₂ " (8.8)	³ / ₁₆ " (4.8)
R-2	3 ⁷ /8" (98.6)	2 ³ /8" (60.4)	1 ¹ / ₄ " (31.7)	1 ³ / ₄ " (44.4)	³ / ₈ " (9.6)	3" (76.2)	¹¹ / ₃₂ " (8.8)	⁷ / ₃₂ " (5.6)
R-3	5 ¹ / ₂ " (139.7)	3 ³ / ₈ " (85.8)	1 ³ / ₄ " (44.4)	2 ¹ / ₂ " (63.5)	¹ / ₂ " (12.7)	4 ¹ / ₈ " (104.8)	⁹ / ₁₆ " (14.4)	1/4" (6.3)

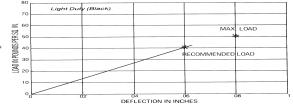
ELASTOMERIC & SHEAR-FLEX PADS





Size	Price Each
18" x 18" x 1"	\$180
6" x 6" x 1"	\$20
4" x 4" x 1"	\$9
2" x 2" x 1"	\$3

ELASTOMERIC PADS



SHEAR-FLEX PADS Size Price Each 18" x 18" x 3/8" \$105

DRIVES & STARTERS

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

SPIRAX SARCO PRESSURE REDUCING VALVES

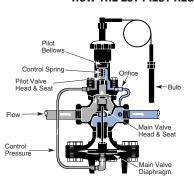
25 SERIES PILOT & TEMPERATURE OPERATED REGULATORS

Efficient, reliable and accurate, no other regulator contains as many quality features as the 25 Series. Whether it is used for regulating temperatures, pressure, or both, it is responsive and exact. Designed with the user in mind, it is more versatile than any regulator available to the industry.



Pressure Pilot Type	Downstream Pressure	Price Each
25-P Yellow	3-30 psig	\$669
25-P Blue	20-100 psig	\$669
25-P Red	80-250 psig	\$669

HOW THE 25T PILOT REGULATOR WORKS



The Spirax Sarco pilot operated temperature regulator works by converting the process temperature to a force which is balanced by the control spring. This modulates a small valve head over a seat (the pilot). The flow through this seat is directed in turn to the main valve diaphragm, where it modulates the main valve.

In order to achieve the most stable operating condition, the sensing bulb must be immersed entirely in the sensed medium. This allows the liquid in the bulb to expand through the capillary tubing into the bellows and throttles the pilot valve. This settles the pilot valve, allowing constant flow across the

When process temperature rises, the pilot valve closes, and pressure is released from the main valve diaphragm through the control orifice to close the main valve. Any variations in temperature will immediately be sensed on the bulb, which will act to adjust the position of the pilot and main valve, ensuring a constant process temperature.

HOW TO ORDER

When ordering a Spirax Sarco 25T temperature regulator, include all of the following:

- · Valve size by nominal pipe/flange size
- · Body material of cast iron or cast steel
- Type of senor 25T for thermostatic regulation
- · Style of thermostatic bulb
- · Length of capillary tubing
- · Temperature adjustment range
- Maximum steam supply pressure. Specify low pressure pilot when inlet pressure for flanged size is 15 psig or below
- Intended application

For example: Spirax Sarco 1" Cast Iron Temperature Regulator, Type 25T-2 with 8 feet of tubing, temperature range of 120° to 180°F, 75 psig steam, for storage water heater.

MAIN VALVE

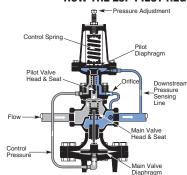
Main Valve Type	Size	Price Each
	1/2"	\$992
	3/4"	\$1079
25	1"	\$1215
25	1 1/4"	\$1486
	1 1/2"	\$1832
	2"	\$2361

TEMPERATURE PILOT



Temperature Pilot Type	Temperature Range	Price Each
	100-160°F	\$1578
T2	120-180°F	\$1578
	160-220°F	\$1578

HOW THE 25P PILOT REGULATOR WORKS



The Spriax Sarco pilot operated pressure regulator works by balancing the downstream pressure against a control spring. This modulates a small valve head over a seat (the pilot). The flow through this seat is directed, in turn, to the main valve diaphragm, where it modulates the main valve.

In order to achieve the most stable operating condition, an external pressure sensing line must be used. This allows downstream pressure to feed back to the underside of the diaphragm, balancing the spring force, causing the pilot valve to throttle. This settles the pilot valve, allowing a constant flow across the main diaphragm. This ensures that the main valve is also settled to give a stable downstream pressure.

When downstream pressure rises, the pilot valve closes, and pressure is released from the main valve diaphragm through the control orifice, to close the main valve. Any variations in load or pressure will immediately be sensed on the pilot diaphragm, which will act to adjust the position of the main valve, ensuring a constant downstream pressure.

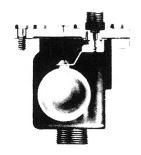
HOW TO ORDER

When ordering a Spirax Sarco 25P regulator, include all of the following:

- Valve size and connection type
- Body material, e.g. cast iron
- Set range for downstream pressure
- Steam supply pressure

For example: Spirax Sarco 1" Cast Iron Pressure Regulator, Type 25P for 150 psig inlet pressure, yellow spring for 3 to 30 psig reduced pressure, for 15 psig process heating.

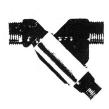
SPIRAX SARGO MISCELLANEOUS EQUIPMENT



TYPE 13WS AIR ELIMINATORS

Type 13WS air eliminators are for water heating and cooling systems. The body is cast iron; the float mechanism, float, valve and seat are stainless steel.

Size	Price Each
3/4"	\$254



TYPE IT PIPELINE STRAINERS

Type IT cast iron screwed strainers are for steam, gasses or liquids. Heavy-duty body is cast-iron reinforced with external rib for maximum strength. Standard screen is 20 mesh type 304 stainless steel

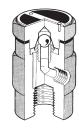
Size	Price Each	Size	Price Each
3/8"	\$53	1 1/4"	\$71
1/2"	\$44	1 1/2"	\$84
3/4"	\$46	2"	\$132
1"	\$55		



TYPE T-202 and TYPE VS-204 THERMOSTATIC AIR VENTS

Type T-202 has brass body and stainless steel internal parts. Type VS-204 has cast iron body and stainless steel internal parts.

Туре	Size	Price Each
T-202	3/8"	\$227
VS-204	1/2"	\$345



TYPE VB14 and VB21 VACUUM BREAKER

The VB14 and VB21 are designed to admit air to condensing vapor (steam) or liquid systems where vacuum formation may inhibit system drainage or operation.

Туре	Size	Price Each
VB14-Brass	1/2"	\$194
VB21-Stainless	1/2"	\$387

Please call the Greensboro warehouse or your Hoffman & Hoffman salesman for information on any non-stocked sizes or other Sarco products. Factory shipments for most items is less than two weeks.

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAX SARCO STEAM TRAPS



TYPE TD-52 THERMO-DYNAMIC STEAM TRAPS

Type TD-52 steam traps are all stainless steel and having only one moving part and are designed with a rugged simplicity providing efficiency and reliability unsurpassed in any steam trap of its type.

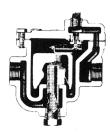
Size	Price Each
3/8"	\$280
1/2"	\$414
3/4"	\$529
1"	\$714



TYPE F & T FLOAT AND THERMOSTATIC STEAM TRAPS

Type F & T traps provide immediate and continuous discharge of condensate, air and non-condensables from a steam system as soon as they reach the trap.

Туре	Size	Price Each	Туре	Size	Price Each	Туре	Size	Price Each
FT-15	3/4"	\$287	FT-30	3/4"	\$357	FT-75	1"	\$548
FT-15	1"	\$355	FT-30	1"	\$389	FT-75	1 1/4"	\$839
FT-15	1 1/4"	\$432	FT-30	1 1/2"	\$740	FT-75	1 1/2"	\$848
FT-15	1 1/2"	\$610	FT-30	2"	\$1288	FT-125	3/4"	\$490
FT-15	2"	\$1153	FT-75	3/4"	\$486	FT-125	1"	\$548



TYPE B INVERTED BUCKET STEAM TRAPS

Type B traps provide high discharge capacities and quick action, made possible by the use of large valves and the Sarco Camlift mechanism.

Туре	Size	Price Each
B1-H-125	3/4"	\$200
B2-125	3/4"	\$419



TYPE FA FLOAT OPERATED DRAIN TRAPS

Type FA traps provide an automatic and continuous discharge which modulates with the liquid flow to efficiently remove condensate, or any unwanted liquid, from a compressed air or other pressurized gas system.

Туре	Size	Price Each
FA-150	3/4"	\$419

Please call the Greensboro warehouse or your Hoffman & Hoffman salesman for information on any non-stocked sizes or other Sarco products. Factory shipments for most items is less than two weeks.

TERMS AND CONDITIONS

"H&H" shall mean Hoffman & Hoffman, Inc., and its officers, employees, and agents. "Buyer" shall mean the person or entity entering into this Agreement with H&H to purchase goods and/or

- 1. Controlling Terms & Conditions: This Agreement, upon Buyer's acceptance, is limited to the terms and conditions stated herein, despite any additional or conflicting terms and conditions contained in any purchase order, any other document presented by Buyer, or any contract document between Buyer and any third-party (i.e. an owner, other contractor, etc.), all of which additional or conflicting terms are hereby rejected by H&H. No waiver of, or modification to, these Terms and Conditions shall be valid unless made in writing and signed by an authorized representative of H&H. H&H salespeople are not authorized to waive or modify any Terms and Conditions. The terms of any written proposal / quote made by H&H ("proposal") and these Terms and Conditions shall constitute the entire agreement of the parties. H&H rejects any revision of, addition to, or deletion of any term in this Agreement not specifically accepted by an authorized representative of H&H in writing.
- 2. Acceptance: Any H&H proposal expires if not accepted by Buyer within thirty (30) days from the date of the proposal. Prices are firm after acceptance provided the Buyer releases the order for production by written notice to H&H within sixty (60) days of placing the order. Otherwise, prices are subject to escalation. Typographical and clerical errors in quotations, orders and acknowledgments are subject to correction. Buyer is deemed to have accepted any H&H proposal to purchase goods or services, including these Terms and Conditions, when Buyer either (a) receives and retains an acknowledgement from H&H without written objection within ten (10) days, (b) accepts delivery of all or any part of the goods ordered, (c) provides to H&H delivery dates, shipping instructions, or other instructions evidencing acceptance, or (d) otherwise executes or assents to any proposal or these Terms and Conditions. If Buyer accepts any proposal, without the addition of any other terms and conditions or any other Buyer modification, Buyer's order shall be deemed acceptance of the proposal subject solely to H&H's terms and conditions. If Buyer's order is expressly conditioned upon H&H's acceptance or assent to terms and/or conditions other than those stated herein, return or acknowledgment of such order by H&H with H&H's Terms and Conditions attached or referenced serves as H&H's notice of objection to, and rejection of, Buyer's terms and as H&H's counter-offer to provide goods or services in accordance with the H&H proposal and H&H's Terms and Conditions. If thereafter Buyer does not reject or object in writing to H&H within ten (10) days by written notice to Legal@hoffman-hoffman.com, H&H's counter-offer will be deemed accepted by Buyer. In any event, Buyer's acceptance of all or any part of any goods ordered will constitute Buyer's acceptance of H&H's proposal subject to H&H's Terms and Conditions.
- 3. Terms of Payment / Taxes: Payment is due net thirty (30) days from the date of each H&H invoice to Buyer. Interest at the rate of 1 1/2% per month (or the highest interest rate allowed by applicable law, if lower) may be charged after the 30-day period until payment is received. H&H accepts credit card payments. If Buyer chooses to pay by credit card, Buyer is subject to an additional convenience fee of 3.0% of the total amount paid by credit card. Buyer shall pay all costs of collection incurred by H&H including, but not limited to, reasonable attorneys' fees, collection fees, and court costs. H&H may suspend all further services and transactions (regardless of their status) without liability if Buyer's account is more than thirty (30) days past due or if Buyer's credit, in the sole judgment of H&H, is impaired at any time. Partial invoices may be submitted for any portion of completed work and/or delivered materials. While risk of loss passes to Buyer, Seller will have a purchase-money security interest in all goods (including any accessories and substitutions) purchased under this Agreement to secure payment in full of all amounts due H&H, and the underlying proposal, together with these Terms and Conditions, form a security agreement (as defined by the UCC.) Buyer shall keep all goods purchased under this Agreement free of all taxes and encumbrances, shall not remove said goods from their original installation point and shall not assign or transfer any interest in said goods until all payments due H&H have been made. The purchase-money security interest granted herein attaches upon H&H's acceptance or acknowledgment of this Agreement and Buyer's receipt of said goods, but prior to installation. Buyer will have no rights to set off against any amounts which become payable to H&H under this Agreement or otherwise. Notwithstanding any Buyer form or document to the contrary, H&H shall not release any rights to make a lien and/or bond claim, or other claim for damages, in connection with goods purchased or services provided until H&H has obtained payment in full for such goods or services and any damages. Furthermore, Buyer is responsible to pay in full for the goods or services provided by H&H regardless of whether such goods or services are funded for Buyer pursuant to any extraneous contract and/or by an applicable project owner or contractor. Unless otherwise agreed by H&H in writing, Buyer shall pay to H&H, in addition to the contract price, all sales, use, excise, privilege or other taxes imposed by any local, state or federal taxing authority payable in connection with the goods or services furnished
- 4. Shipments / Claims: All shipments of goods are at Buyer's risk, f.o.b. factory, or if shipped from another location, f.o.b. point of shipment, with charges either allowed, added to invoice, or collected as noted. Any claims for damage or shortage or loss in transit must be filed by Buyer against the applicable carrier. If requested, H&H will reasonably assist the Buyer when making its claim for damages and/or losses while in transit. Claims against factory shortages will not be considered unless made within sixty (60) days after Buyer's receipt of the goods.
- 5. Approval: H&H shall not be liable in any way should any third party (such as a project architect, engineer, owner, etc.) fail to accept or approve equipment ordered by Buyer. H&H cannot guarantee to
- meet or equal specifications written around another make of equipment different than that purchased by Buyer.

 6. Warranties and Liability: Upon condition that H&H receives payment in full for all amounts owed, H&H extends to Buyer the manufacturer's warranty (a copy of which is available upon request), and manufacturer's warranty is in lieu of any warranties contained in any applicable project contract, conditions, plans, or specifications. H&H ITSELF MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE CONDITION OF THE EQUIPMENT, ITS MERCHANTABILITY, IMPLIED WARRANTIES OF DESIGN OR FITNESS FOR A PARTICULAR PURPOSE. H&H SHALL HAVE NO LIABILITY FOR ANY DIRECT DAMAGES BY REASON OF FAILURE OF THE EQUIPMENT TO OPERATE OR FAULTY OPERATION OR MISUSE OF THE EQUIPMENT, AND UNDER NO CIRCUMSTANCES SHALL H&H BE LIABLE TO BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, EXEMPLARY OR LIQUIDATED DAMAGES OR LOSSES, INCLUDING BUT NOT LIMITED TO, LOSS OF USE, INCOME, PROFIT OR PRODUCTION, LOST DATA, SPOILAGE, DELAY, OR INCREASED COST OF OPERATION. SAID EXCLUSIONS APPLY EVEN IF H&H HAS BEEN ADVISED OF SUCH POSSIBLE DAMAGES OR IF SUCH POSSIBLE DAMAGES WERE REASONABLY FORESEEABLE. Buyer acknowledges that H&H is not responsible for the design of goods or services purchased and did not participate in any project design in connection with such goods
- 7. <u>Limitation of Remedy</u>: H&H shall have no liability for any damage caused by negligence, accident, misuse, improper storage, improper installation, improper service, maintenance or operation of equipment by Buyer or any third party. To the extent H&H is liable to Buyer under any legal theory (whether under warranty, negligence, strict liability or contract), Buyer's sole and exclusive remedy is limited to one of the following, which H&H shall elect in its sole and absolute discretion: (a) repair or replacement of purchased equipment or its parts by H&H or its duly authorized representative or (b) refund of the purchase price. In no event shall H&H's liability exceed the purchase price paid by Buyer under this Agreement, and Buyer waives all other remedies at law or in equity. Furthermore, Buyer waives any claim with respect to quantity or quality of goods or services purchased, unless Buyer notifies H&H in writing within ten (10) days of the date Buyer discovered, or by reasonable inspection
- should have discovered, the basis for such claim. Under no event shall H&H owe any duty or have any obligation whatsoever to any customer or client of Buyer or to any other third party.

 8. <u>Hazards</u>: H&H is not responsible for the identification, detection, abatement, encapsulation or removal of hazardous substances, such as (without limitation) asbestos, products or materials containing asbestos, mold, fungi, mildew, or bacteria. At all times now and in the future, H&H takes no responsibility for and makes no representations or warranties concerning any existing or future hazardous substance or condition (i.e. mold) or the remedy or prevention thereof. Furthermore, Buyer has a duty to alert H&H of any known or likely potential hazards at any project site where H&H's representatives and affiliates may be present in connection with this Agreement.
- 9. Indemnification / Insurance: To the fullest extent permitted by law, Buyer shall indemnify, hold harmless and defend H&H and its officers, employees and agents from and against all claims, demands, liabilities, suits, judgments, awards, or expenses of any kind (including reasonable attorneys' fees and costs incurred defending such claims or demands, regardless of whether they result in legal action or are prosecuted to final judgment or award), which result or arise from Buyer's purchase, installation, or use of goods or services provided by H&H. Buyer shall indemnify H&H against, without limitation, liability arising from any acts or omissions whether deemed negligent, accidental or intentional, which is caused, in part, by the active or passive negligence or other fault of H&H. To the fullest extent permitted by law, the obligations of defense and indemnification set forth herein shall be binding upon Buyer no matter what the nature of the claim asserted may be (whether it be for negligence, warranty, strict liability, or otherwise) and shall be binding even if H&H is alleged or proven to have acted negligently; provided, however, that Buyer shall have no obligation to provide indemnification to H&H if the claim asserted arises in negligence and is finally adjudicated to have arisen solely from the negligence of H&H. Buyer shall also indemnify and hold harmless H&H from all liability for taxes owing in connection with Buyer's purchase of goods or services. The obligations and rights to indemnity herein shall not negate, abridge or reduce other such rights or obligations under law. This Agreement does not require Buyer to indemnify H&H for H&H's own negligent or intentional acts or omissions to the extent that doing so would violate applicable law. Buyer and H&H jointly authorize and request any court or arbitrator considering the enforceability of this paragraph to re-write this paragraph so that it requires Buyer to defend, indemnify, and hold H&H harmless to the fullest extent permitted by applicable law. Upon written request of Buyer, H&H shall only be required to name Buyer as an additional insured to the coverage types listed on H&H's standard Certificate of Insurance (available upon request). In no
- event does H&H waive any rights of subrogation.

 10. <u>Claims Resolution / Governing Law</u>: Unless H&H elects otherwise, all claims and disputes between Buyer and H&H arising out of or relating to performance of any agreement or breach thereof must be decided by binding arbitration in accordance with the Construction Industry Arbitration rules of the American Arbitration Association (AAA). Demand for Arbitration must be filed in the regional office of the AAA closest to Greensboro, North Carolina, and the filing party must serve such Notice upon the other party in accordance with AAA rules. The procedural and substantive law of the State of North Carolina must apply in and to all arbitration proceedings, and Greensboro, North Carolina, is designated as the sole and exclusive venue for such proceedings. Any award arising from such proceedings shall be final and binding upon the parties and enforceable in accordance with the Federal Arbitration Act. H&H and Buyer agree that their transactions involve interstate commerce. This Agreement shall be governed by and construed solely in accordance with the laws of the State of North Carolina, without regard to principles of conflicts of laws. H&H shall have the sole and exclusive right, at H&H's sole and absolute discretion, to waive the arbitration provision and to elect to litigate any claim or dispute in a court of appropriate jurisdiction. Unless H&H elects another court of appropriate jurisdiction in H&H's sole and absolute discretion, the state courts located in Greensboro, Guilford County, North Carolina, shall be the sole and exclusive forum for any litigation between H&H and Buyer. Buyer consents to the jurisdiction of the state and federal courts located in Greensboro, Guilford County, North Carolina.
- 11. <u>Delays / Penalties / Force Majeure</u>: Delivery dates are approximate and not guaranteed. In no event and under no circumstances whatsoever will H&H be liable for any damages or expenses caused by any failure or delay in making delivery of goods or in performing services hereunder. No penalty clause or liquidated damages of any kind (for delays or otherwise) apply to H&H unless pre-approved in writing by an H&H officer. Furthermore, in no event and under no circumstances whatsoever will H&H be liable under this Agreement for any event of force majeure, or an event or cause beyond H&H's
- 12. Cancellations / Returns: If an order is canceled through no fault of H&H, the Buyer shall reimburse H&H for all expenses, costs, damages and losses (including lost profits) incurred by H&H in with the order and its cancellation. Goods may not be returned except by written permission of a representative of H&H, and when so returned, shall be subject to handling and transportation charges. No warehouse goods returned after 90 days.
- 13. Equal Employment Opportunity / Affirmative Action Clause: H&H and Buyer shall abide by the requirements of 41 CFR 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.
- 14. Government Contracts / Disadvantaged Business Entities: If Buyer's purchase of goods or services is in any way connected to any federal, state, or local government project, which implicates or utilizes any Small, Minority or Disadvantaged Business incentives or qualifications (or other similar laws or regulations), Buyer represents and certifies to H&H that Buyer is performing a commercially useful function on such project.
- 15. <u>Trust Funds:</u> Buyer agrees that all funds Buyer receives that result from the labor, materials, and/or equipment furnished by H&H will be considered "Trust Funds." Buyer will hold all Trust Funds in trust for the sole and exclusive benefit of H&H. Buyer will segregate Trust Funds from other funds. Buyer will account for all Trust Funds and deliver all Trust Funds to H&H. Buyer will not use Trust Funds for any purpose other than paying H&H

Catalog Index

A		G		Spiral Grilles	
Access Doors 54		Gravity Ventilators 18		Spiral Pipe 6	
Access Panels 55		Н		Spring Vibration Mountings	77
Actuators 44		Hanging Systems	71-72	Spring Vibration Hangers	
ASHRAE Ventilation Design 18		Hot Water Coils	41	Square to Round Transitions	39
В		1		Starters	25
Backdraft Dampers	22-23	In-Line Fans	19-21	Stationary Louvers	51-53
Balancing Dampers	42, 67	L		Steam Regulators	80
Blast Gates	72	Louvered Ceiling Diffus	sers 32-33	Steam Strainers	81
Brick Vents 50		M		Steam Traps	82
С		Manometers	75	Stick-On Fittings	58
Cartridge Filters 74		P		T	
Ceiling & Cabinet Fans 12-17		Perforated Diffusers	31, 36	Table of Contents	1
Ceiling Radiation Dampers	15, 45	Pipe Portals Systems	63	Tape	62
Centrifugal Roof Exhausters	ŕ	Plaster Frames	34	Terms and Conditions	83
Clamps	61	Pleated Prefilters	74	Tools	61
Concentric Reducers 39		Pressure Gauges	75	U	
Control Dampers 43		R		Unit Heaters	73
Cube Core Grilles 34-35, 37		Rectangular Fire Damp	ers 47-49	V	
D		Registers 28	8-29, 34-35	VAV Diffusers	38
Door Grilles	34	Return Grilles	29, 36	VAV Terminals	40
		Roof Curbs	10	Volume Control Dampers	30
Drives 26-27		Round Ceiling Diffusers	s 30		
Duct Sealant 60		Round Fire Dampers	46		
E		S			
Elastomeric Pads 79		Sheet Metal Screws	60		
Electrical Accessories 24		Side Access Filter Housings 76			
Equipment Rails 10 Sidewall		Sidewall Exhausters	8-9		
F		Sidewall Propeller Fans	s 11		
Filter Accessories 75		Slot Diffusers	38		
Filter Grilles 37		Smoke Detectors	44		
Filter Media 74		Snaplock Pipe	59-60		
Fire Dampers 46-49		Spiral Access Doors	54		

Spiral Fittings

64-70

56-57

Flexible Duct



Warehouse Stock Equipment Orders
Call 800-334-0254 or 336-252-1710/1723
Fax to 336-252-1703
Email to warehouse@hoffman-hoffman.com

Replacement HVAC Equipment Parts
Call 800-332-2295 or 336-252-1707/1708
Fax to 336-252-1734
Email to parts@hoffman-hoffman.com

