









HOFFMAN & HOFFMAN, INC.

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Prices are included for estimating purposes only. All prices are subject to change without notice.

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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

1

VIBRATION ISOLATION

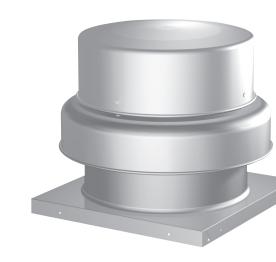
VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

2

CENTRIFUGAL DIRECT DRIVE ROOF EXHAUSTERS





DIMENSIONAL DATA

Model	A	В	*C	D	100 Damper	Roof Opening
G-060, 070	17	19 ³ /8	12 ¹ /8	3	8 x 8	10 ¹ / ₂ x 10 ¹ / ₂
G-080, 090, 095	17	21 ³ /4	14 ⁵ /8	4	10 x 10	12 ¹ / ₂ x 12 ¹ / ₂
G-099, 103, 123, 133	19	24 ³ /8	23 ³ / ₄	4 ³ /8	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
G-143	22	28 ³ /8	23 ³ /4	4 ³ /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.

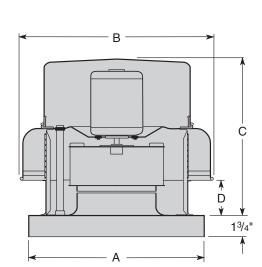
ACCESSORIES

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

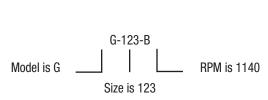
STOCK NOTES

- 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
C	860
D	1550
G	1300
E	1050



Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

VAV TERMINALS / HOT WATER COILS

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

PERFORMANCE DATA AND PRICING MODEL G

				0.000	STATI 0.100	C PRESSURE I 0.125	N INCHES OF V 0.250	N.G. / CAPAC 0.375	TY (CFM) 0.500	0.625	Price	12'	' Curb	100 D	amper
MODE	L	RPM	TS	0.000 Sone BHP	0.100 Sone BHP	0.125 Sone BHP	0.250 Sone BHP	0.375 Sone BHF			Each	Size	ADD	Size	ADD
		1050	0004	138	90	73									
G-060	E	1050	2234	1.9 .004	1.7 .005	1.7 .005									
1/60 HP	G	1300	2765	170	135	125					\$431	17	\$88	8 x 8	\$61
3 Speed		1000	2.00	2.9 .008	2.6 .009										φσι
	D	1550	3297	203	173 3.9 .014	166	120 3.9 .016				-				
				4.3 .013 253	196	179	3.9 .016								
	E	1050	2234	2.5 .007	1.7 .008						1				
G-070				314	268	257	171								
1/30 HP 3 Speed	G	1300	2765	4.1 .013	3.4 .015	3.2 .015	2.7 .015				\$431	17	\$88	8 x 8	\$61
5 Speeu	D	1550	3297	374	337	327	274	190							
		1000	5257	5.6 .002				4.2 .02	5						
	E	1050	2990	335	268	249	134				-				
G-080				3.8 .012	3.6 .015 361	3.6 .016	3.5 .017 272	175			-				
1/20 HP	G	1300	3701	415 5.4 .022					3		\$479	17	\$88	10 x 10	\$65
3 Speed				495	450	439	379	314	238		1				
	D	1550	4413	7.3 .038			7.4 .050				1				
	E	1050	2990	520	441	420	292								
G-090		1050	2990	3.8 .014			3.6 .024								
1/15 HP	G	1300	3701	644	580	565	478	373			\$479	17	\$88	10 x 10	\$65
3 Speed				5.4 .027	5.4 .033		5.5 .041	5.5 .04	_	000	-				+
	D	1550	4413	768 7.5 .046	713 7.4 .053	701	633 7.4 .063	557 7.4 .07	472) 7.4 .076	338 7.4 .074	-				
				7.5 .040	605	570	389	1.4 .07	J 7.4 .070	7.4 .074					
	E	1050	2990	4.9 .029	4.6 .034						1				
G-095	<u> </u>	1000	0701	888	801	780	640	493	184		¢ 470	17	¢00	10 10	¢.c.r
1/8 HP 3 Speed	G	1300	3701	7.4 .056	6.8 .061	6.8 .063	6.5 .069	6.4 .07	6.4 .049		\$479	17	\$88	10 x 10	\$65
0 00000	D	1550	4413	1059	986	969	863	745	623	474					
				9.6 .095	9.4 .101			8.2 .11		1					
i-095-VG6X	(1/6 HP	1725	5052	1179 11.4 .13	1114 11.4 .14	1098 11.4 .14	1013 11.2 .15	903 10.9 .16	800 11.3 .16	688 11.3 .16	\$780	17	\$88	10 x 10	\$65
				1307	1280	1250	11.2 .15	1135	1076	1013					
i-099-VG4X	(1/4 HP	1725	5052	13.6 .23	13.6 .23	13.5 .23	13.4 .24	13.2 .24			\$1079	19	\$95	12 x 12	\$69
C 100 D 1		1140	0000	966	900	883	805	702	507		¢770	10	¢or	1010	0 00
G-103-B 1	/U 11P	1140	3320	6.6 .07	6.1 .07	6.0 .08	5.7 .09	5.1 .09			\$770	19	\$95	12 x 12	\$69
G-103-A 1	/4 HP	1725	5024	1483	1450	1427	1374	1321	1274	1219	\$807	19	\$95	12 x 12	\$69
				12.5 .26	12.4 .27	12.1 .27	11.7 .28	11.5 .29			\$301				÷
i-103-VG4X	(1/4 HP	1725	5052	1462	1425	1405	1351	1298	1250	1193 10.3 .29	\$1128	19	\$95	12 x 12	\$69
				1383	1325	1300	1213	1112	993	831					
G-123-B 1	/6 HP	1140	3898	8.4 .12	8.4 .12	8.4 .13	8.4 .14	8.1 .14		-	\$772	19	\$95	12 x 12	\$69
C 100 A 1	/2 UD	1705	E000	2093	2050	2038	1984	1928	1871	1810	¢071	10	¢or	10 - 10	¢60
G-123-A 1	/2 HP	1725	5899	17.4 .40	17.3 .42	17.2 .42		16.8 .45	16.7 .46	16.7 .47	\$871	19	\$95	12 x 12	\$69
i-123-VG5X	(1/2 HP	1725	5052	2093	2052	2038	1984	1928	1871	1810	\$1227	19	\$95	12 x 12	\$69
			JUJE	17.4 .40		17.2 .42	1	16.8 .45		1	<i><i><i>v i L i</i></i></i>		\$00		\$00
G-133-B 1	/6 HP	1140	3917	1618 10.0 .15	1560 9.9 .15	1535	1444	1340	1211	1031	\$880	19	\$95	12 x 12	\$69
				2115	2050	9.8 .16 2008	9.6 .16 1905	9.2 .17 1792	8.8 .17 1660	8.5 .17 1488					
G-143-B 1	/3 HP	1140	4365	11.0 .28	10.9 .30			10.4 .31		10.4 .29	\$1178	22	\$103	16 x 16	\$78
		4550		2875	2830	2797	2719	2644	2566	2487			6 /00	10 15	A =0
i-143-VG7X	(3/4 HP	1550	5935							15.0 .78	\$1450	22	\$103	16 x 16	\$78
odel 5W (6	Amp) – So	lid State S	Speed Co	ntrol							\$57				
	• /		·								\$115				
imper Moto															

Performance shown is for Model G without ducts.



STEAM SPECIALTIES

VARI GREEN

3



CENTRIFUGAL BELT DRIVE ROOF EXHAUSTERS

GREENHECK Building Value in Air.

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

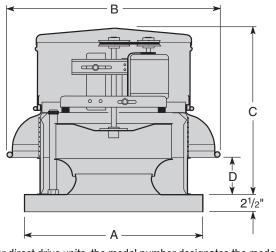




DIMENSIONAL DATA

Model	A	В	*C	D	100 Damper	Roof Opening
GB-071, 081	19	24 ³ /8	23 ³ /4	4 ³ / ₈	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-101, 121	19	24 ³ /8	233/4	4 ³ / ₈	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-131	19	28 ³ /8	233/4	4	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
GB-141, 161	22	28 ³ /8	23 ³ /4	4	16 x 16	18 ¹ / ₂ x 18 ¹ / ₂
GB-180, 200	30	351/2	28	5 ¹ /2	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
GB-240	34	42 ³ / ₄	31 ¹ / ₂	5 ¹ /2	24 x 24	26 ¹ / ₂ x 26 ¹ / ₂
GB-300	40	50	36	8 ¹ /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	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

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Fans / Dampers / Curbs

PERFORMANCE DATA AND PRICING MODEL GB

								S OF W.G. / CA		0.005	Price	12" R	loof Curb	1(Dan		Sta	arters
	MODEL	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/DIS
	00.071.4	- / 4	-	1705	376	353	339	316	297	273	¢0.41	10	фог	10 + 10	\$ 00		¢000
	GB-071-4	1/4	1	1725	11.1 0.13	11.0 0.13	11.0 0.13	10.6 0.13	10.3 0.13	10.0 0.13	\$841	19	\$95	12 x 12	\$69		\$209
	GB-081-4	1/4	-	1725	864	821	793	756	719	679	\$841	19	\$95	10 v 10	\$69		\$209
	UD-001-4	1/4	1	1725	12.5 0.17	12.3 0.17	12.1 0.18	11.9 0.18	11.5 0.18	11.2 0.19	φ041	19	4 90	12 x 12	4 09		φ20:
	GB-101-4	1/4	1	1400	1187	1100	1052	990	909	810	\$868	19	\$95	12 x 12	\$69		\$209
	ub-101-4	1/4	'	1400	8.9 .12	8.5 .13	8.1 .14		7.6 16	7.4 16	φυυυ	13	φ35	12 × 12	φ03		ψ20.
	GB-121-4	1/4	1	1395	1692	1625	1557	1484	1404	1315	\$937	19	\$95	12 x 12	\$69		\$20
	40 121 1	., .	<u> </u>	1000				12.2 0.25			φυσι	10					φ20
	GB-131-4	1/4	1	1315	1866	1794	1718	1637	1545	1435	\$1225	19	\$95	12 x 12	\$69		\$20
_		., .						12.1 0.25			¢0		400		<i>Q</i> UU		\$ 20
	GB-131-5	1/2	1	1685	2391	2335	2279	2219	2158	2020	\$1311	19	\$95	12 x 12	\$69		\$20
								16.0 0.51	15.7 0.52	15.4 0.53	, .	-			,		
	GB-141-4	1/4	1	860	1595	1457	1304	1085			\$1010						
	-				7.1 0.12		6.7 0.13				,						
	GB-141-3	1/3	1	1140	2115	2008	1905	1800	1660	1488	\$1059	22	\$103	16 x 16	\$78		\$20
								10.3 0.33									
	GB-141-5	1/2	1	1360	2523	2433	2347	2259	2166	2062	\$1076						
								13.5 0.52									
	GB-161-5	1/2	1	1140	3367	3094	3072	2922	2761	2587	\$1518	22	\$103	16 x 16	\$78		\$20
-								13.8 0.53		13.0 0.53							
	GB-180-4	1/4	1	730	2839 7.4 0.26	2667	2469	2213	1882		\$1465						
_							6.5 0.17 2832		0075	2052							\$20
	GB-180-3	1/3	1	810	3150	2997 8.3 0.31		2624 7.3 0.35	2375 7.6 0.35	2053	\$1397						
					3655	3527	3388	3234	3052	7.2 0.34 2844							
	GB-180-5	1/2	1	940				11.3 0.52			\$1416	30	\$145	18 x 18	\$101		\$20
			1		4102	3989	3867	3742	3596	3432	\$1521						ψΖ
	GB-180-7	3/4	3	1055				14.4 0.72									
_			0		4608	4507	4401	4290	4179	4046						\$768	\$10
	GB-180-10	1	3	1185				17.4 0.98			\$2162					φ. σσ	φισ
					4261	4013	3744	3477	3141	2643							
	GB-200-5	1/2	1	770				10.2 0.55			\$1876						\$20
			1		4759	4548	4289	4068	3811	3504	\$2002						
	GB-200-7	3/4	3	860				12.4 0.77									
			_		5340	5157	4927	4720	4520	4285		30	\$145	18 x 18	\$101		
	GB-200-10	1	3	965				15.0 1.08			\$2230					\$768	\$106
	00.000.45		_		6032	5870	5682	5473	5301	5124						,	
	GB-200-15	1 ¹ /2	3	1090				18.4 1.52			\$2266						
	CD 040 10	-	0	700	6702	6427	6158	5861	5507	5077	¢0740						
	GB-240-10	1	3	730	15.8 0.96	15.0 1.01	14.3 1.05	13.8 1.05	13.4 1.06	13.1 1.06	\$2743						
	CR 240 15	11/0	2	0.05	7575	7331	7092	6844	6574	6261	¢0770	24	¢165	24 4 24	¢170	¢700	¢100
	GB-240-15	1 ¹ /2	3	825	19.7 1.39	18.6 1.44	17.7 1.49	17.2 1.51	16.8 1.52	16.4 1.54	\$2779	34	\$165	24 x 24	\$179	\$768	\$106
	GB-240-20	2	3	910	8355	8134	7916	7700	7467	7215	\$2827						
	uD-240-20		5	510	24 1.86			21 2.02	21 2.03	20 2.05							
	GB-300-7	3/4	1	475	7694	7197	6616	5955	5095		\$3246						\$20
	ub 300-7	5/4	3	515	11.4 0.72	10.6 0.75		8.8 0.77	8.1 0.74		\$3291						
	GB-300-10	1	3	530	8585	8149	7640	7094	6456	5668	\$3474						
	ub-300-10		5	550	13.4 1.00	12.9 1.03		11.5 1.07		10.0 1.03	ψυ+/4						
	GB-300-15	1 ¹ /2	3	600	9719	9334	8907	8446	7952	7388	\$3510	40	\$194	30 x 30	\$217		
	ab 000-10	1 /2	5	000	15.9 1.45	15.4 1.49	14.9 1.52	14.3 1.54	13.8 1.55	13.2 1.55	ψυυτυ	υT	ψ134	00 x 00	Ψ217	\$768	\$10
	GB-300-20	2	3	665	10772	10424	10060	9648	9228	8773	\$3557						
	uD-300 - 20	2	5	000	18.8 1.97	18.2 2.02	17.7 2.06	17.2 2.10	16.8 2.11	16.3 2.12	ψυυυ/						
	GB-300-30	3	3	760	12311	12007	11704	11357	10997	10629	\$3941						
	00-000 - 00	J	5	100	23.0 2.94	22.0 3.00	21.0 3.05	21.0 3.09	21.0 3.13	20.0 3.14	ψ3341						

OD - 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 / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

GREENHECK Building Value in Air. 5

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STEAM SPECIALTIES

VIBRATION ISOLATION

FLEXIBLE DUCT / SNAPLOCK & ACC.

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

BELT DRIVEN CENTRIFUGAL UPBLAST ROOF EXHAUSTERS



VARIABLE SPEED DRIVES & STARTERS

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SNAPLOCK & ACC FLEXIBLE DUCT

SPIRAL PIPE & Accessories



STEAM SPECIALTIES



DIMENSIONAL DATA

DIMENSIONAL DA						
Model	A	В	C	D	100 Damper	Roof Opening
CUBE-101-121	19	247/8	28 ¹ /4	17 ³ /8	12 x 12	14 ¹ / ₂ x 14 ¹ / ₂
CUBE-141	22	287/8	29 ³ / ₄	19 ³ /8	16 x 16	18 ¹ /2 x 18 ¹ /2
CUBE-161	22	287/8	29 ³ /4	19 ³ /8	16 x 16	18 ¹ /2 x 18 ¹ /2
CUBE-180	30	35 ³ /8	285/8	21	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
CUBE-200	30	35 ³ /8	285/8	21	18 x 18	20 ¹ / ₂ x 20 ¹ / ₂
CUBE-240	34	42 ³ /4	33 ⁷ /8	25 ¹ /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

В

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

С

D

1³/4"

- 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 • 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 stocked less motor and drive for maximum flexibility. (QD Stock Only)
- Vari-Green® motor 80% turndown, 85% efficient. Available on select sizes.



Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Fans / Dampers / Curbs

PERFORMANCE DATA AND PRICING MODEL CUBE

				0.000	0.125	SURE IN INCHE 0.250	S OF W.G. / CA 0.375	0.500	0.625	Price	Bird Screen	12" R	oof Curb	*100 Damp		St	arters
MODEL	HP	PH	RPM	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Each	ADD	Size	ADD	Size	ADD	STD	W/DIS
CUBE-101-4	1/4	1	1660	1413	1364	1313	1251	1189	1125	\$1202	\$48	19	\$95	12 x 12	\$69		\$209
				12.6 0.21 1665	12.2 0.22	11.19 0.23 1528	11.5 0.24	11.1 0.25 1398	10.7 0.26	+	+		+		+		+=++
CUBE-121-4	1/4	1	1410	11.1 0.21				12.6 0.25		\$1586							
CUBE-121-3	1/3	1	1545	1824	1760	1699	1639	1580	1518	\$1647	\$48	19	\$95	12 x 12	\$69		\$209
OODE TET O	1/0		1040	12.8 0.28				14.7 0.32		φτοτη	φτο	10	φυυ	12 1 12	φυυ		φ20
CUBE-121-5	1/2	1	1725	2037	1979 16.1 0.40	1923	1869	1816 17.9 0.44	1763	\$1670							
CUBE-141-4	1/4	1	1105	2001	1905	1793	1667	1515	1318	\$1418							
GODE-141-4	1/4	-	1105		10.8 0.24			10.0 0.26		φ1410							
CUBE-141-3	1/3	1	1210	2192	2106 12.2 0.31	2006	1896	1773 11.2 0.34	1628	\$1469							
CUBE-141-5	1/2	1	1390	2518	2445	2362	2271	2174	2068	\$1377	\$53	22	\$103	16 x 16	\$78		\$209
GODE-141-3	1/2		1390	14.9 0.45				12.9 0.51		φ13/7							
CUBE-141-7	3/4	1	1595	2889	2826 19.0 0.70	2757	2683	2602	2517	\$1584							
	1/0	4	1110	3191	3072	2941	2796	2641	2475	¢1007							
CUBE-161-5	1/2		1110	15.0 0.47				13.5 0.54		\$1907							\$209
		1	1170	3363	3250 15.9 0.59	3129	2994	2848 14.7 0.62	2697	\$2031	\$53	22	\$103	16 x 16	\$78		
CUBE-161-7	3/4	2	1005	3636	3532	3425	3301	3172	3035	¢2074						¢700	¢100
		3	1265	18.5 0.70				16.8 0.79	16.5 0.79	\$2074						\$7 68	\$106
CUBE-180-4	1/4	1	745	2815 9.2 0.22	2616 8.6 0.24	2448 8.1 0.26	2143 7.4 0.26	1763 7.1 0.25		\$2015							
	1/0	-	000	3098	2915	2759	2525	2257	1867	#0070							
CUBE-180-3	1/3		820		10.4 0.32		9.5 0.35			\$2076							\$209
CUBE-180-5	1/2	1	940	3551	3388 13.5 0.47	3243	3115	2879 12.4 0.52	2654	\$2100	\$86	30	\$145	18 x 18	\$101		
	0/4	1	1075	4061	3919	3786	3666	3554	3345	\$2224							
CUBE-180-7	3/4	3	1075		16.2 0.70			15.5 0.78		\$2267							
CUBE-180-10	1	3	1185	4477	4348 17.9 0.93	4224	4108 16.8 0.99	4005	3903 16.3 1.04	\$2447						\$768	\$106
CUBE-200-3	1/3	1	665	3740	4321	3096	2699	2073	10.0 1.01	\$2289							
00DL-200-3	1/3	-	005		8.83 0.34		7.5 0.35		0510	ψ2203							
CUBE-200-5	1/2	1	760	4275	3993 11.7 0.51	3718 10.9 0.52	3413	3048 9.4 0.51	2518 9.0 0.50	\$2312							\$209
CUBE-200-7	3/4	1	875	4922	4676	4439	4192	3922	3626	\$2436							
00DL-200-7	5/4	3	075		16.3 0.77			13.5 0.79		\$2479	\$86	30	\$145	18 x 18	\$101		
CUBE-200-10	1	3	960	5400 18.7 0.98	5175 18.4 1.01	4958	4742	4508 16.4 1.04	4254	\$2659							
CUBE-200-15	1 ¹ / ₂	3	1100	6187	5991	5798	5610	5421	5217	\$2695						\$768	\$106
00DE 200 10	1 /2	-	1100		23.0 1.51		1			φ2000							
CUBE-200-20	2	3	1210	6806 25 1.97	6628 24 2.00	6451 23 2.03	6279 23 2.05	6108 22 2.07	5932 22 2.09	\$2742							
CUBE-240-5	1/2	1	585	5303	4960	4540	4093	3565		\$2986							
00DL 240 3	1/2		505		10.5 0.49		8.8 0.52 5052	8.4 0.51 4659	4000								\$209
CUBE-240-7	3/4	1	670	6074 14.3 0.69	5762 13.4 0.74	5461 12.8 0.76			4202	\$3110 \$3154							
CUBE-240-10	1	3	735	6663	6370	6133	5764	5409	5037	\$3334	N/A	34	\$165	24 x 24	\$179		
0002 210 10	<u> </u>	-		16.6 0.92 7660	15.9 0.97 7399	15.5 0.99 7184	15.1 1.01 6947	14.6 1.03 6615	13.9 1.04 6304	\$666		0.	\$100		¢170	¢760	\$106
CUBE-240-15	1 ¹ / ₂	3	845		19.0 1.46					\$3369						φ100	φιυυ
CUBE-240-20	2	3	930	8431	8194	7985	7798	7536	7233	\$3416							
	-	-		24.0 1.86 8625	23.0 1.93 8231	23.0 1.98	22.0 2.00	6636	21.0 2.06								
CUBE-300-10	1	3	530		12.7 0.95					\$4216							
CUBE-300-15	1 ¹ / ₂	3	605	9845	9500	9127	8705	8226	7708	\$4254							
				17.0 1.34	16.4 1.40 10508	15.7 1.46	<u>15.2 1.51</u> 9808	9411	14.3 1.56 8968		N/A	40	\$194	30 x 30	\$217	\$768	\$106
CUBE-300-20	2	3	665	20.0 1.77		18.6 1.92		17.5 2.02		\$4302							
CUBE-300-30	3	3	765	12449	12176	11904	11607	11273	10939	\$4692							
Grease Contain				24 2.70	24 2.78	23 2.86	22 2.94	22 3.00	21 3.06	\$188							
Damper Motor	Park	IMP 1	00/120	1/60/1V						\$115							

7 FANS / DAMPERS / CURBS

> 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

GREENHECK Building Value in Air.

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

OD - 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.

STEAM SPECIALTIES

VIBRATION ISOLATION

DIRECT DRIVE CENTRIFUGAL EXHAUST FANS

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

> VAV TERMINALS / HOT WATER COILS

> DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS



DIMENSIONAL DATA

DIMENSIONAL DATA					
Model	A	В	C	Damper	Opening
CUE-070	17	18 ³ /8	13 ¹ /2	8 x 8	10 ¹ / _{2x} 10 ¹ / ₂
CUE-080, 090	19	21	13 ³ /8	10 x 10	12 ¹ / _{2 x} 12 ¹ / ₂
CUE-095	19	21	15 ¹ /4	10 x 10	12 ¹ / _{2 x} 12 ¹ / ₂
CUE-101, 121	19	247/8	28 ¹ /4	12 x 12	14 ¹ / _{2 x} 14 ¹ / ₂
CUE-141	22	287/8	29 ³ /4	16 x 16	18 ¹ /2 x 18 ¹ /2

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES

STEAM SPECIALTIES

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.

GREENHECK

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 UPS.
- Vari-Green® motor 80% turndown, 85% efficient. Available on select sizes.



PERFORMANCE DATA AND PRICING MODEL CUE

					S	TATIC P	RESSU	IRE IN	INCHES	5 OF W.	.G. / CA	PACIT	Y (CFM)					Roof Curb		330		10								
			0.0	000	0.1	100	0.1	25	0.2	250	0.3	75	0.5	00	0.6	25	Price Each	Wall Bracket	KUUI	CUID	WALL D	AMPER	ROOF D	AMPER							
MODEL		RPM	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP			Size	ADD	Size	ADD	Size	ADD							
	Е	1050	2	50	19	93	17	71																							
	L	1030	2.5	.007	1.7	.008	1.5	.008																							
CUE-070	G	1300	3	09	2	67	25	55	15	52							\$482	\$61	17	\$88	8 x 8	\$80	8 x 8	\$61							
1/30 HP		1000	4.1	.013	3.4	.015	3.2	.015	2.7	.013							\$10L	φσι	.,	φοσ		φυυ		φΟι							
	D	1550	3	69	-	34		25	26		16	60																			
			5.6	.023	.53	.025	5.2	.025	4.7	.026	4.2	.021																			
	E	1050	3	25	2	65	24	47	13																						
			3.8	.012		.014	3.6	.015		.016																					
CUE-080	G	1300	4	03	-	55	-	43	27		17	'3					\$560	\$62	19	\$95	10 x 10	\$88	10 x 10	\$65							
1/20 HP			5.4	.022		.025				.031	5.4	.031																			
	D	1550	<u> </u>	80		41	43		37		3-		23																		
			7.3	.037		.041	7.4			.047	7.4	.053	7.4	.054																	
	E	1050	<u> </u>	49		70	4		30																						
		3.8	.019	3.7		3.7	.024		.027																						
CUE-090	1 6 1 1	1300	680 616		60		51		39						\$560	\$62	19	\$95	10 x 10	\$88	10 x 10	\$65									
1/15 HP G		5.4	.035	5.4		5.4	.042		.048	5.5	.052																				
	D	1550	<u> </u>	11		57	74		67		60		50		34																
			7.5	.060	7.4					.076	7.4	.083	7.4	.088	7.4	.084															
	E	1050	<u> </u>	11		03	-	70	38									-	-	-	-	_	-	-							
			4.9	.032		.036	4.6			.037			10																		
CUE-095 1/8 HP	G	1300		80		97		74	64		48		19				\$574	\$62	19	\$95	10 x 10	\$88	10 x 10	\$65							
1/0111			7.4	.061	6.9	1	6.8			.072		.071	6.4 61	.054		10															
	D	1550	9.6)49 .103		83 .109		54 .111	86	.117	74 82	.121	-	.121		12 .106															
	1002			67		08		93	10		90.2		80		68																
CUE-095-V 1/6 HP		1725	11.3		11.1	1	11.0		10.5		9.9	.17	9.8	.17	9.6	.17	\$903	\$62	19	\$95	10 x 10	\$88	10 x 10	\$65							
				168		40		22	13		13		12		0.0	.17															
CUE-101-V 1/4 HP		1725	13.3	.24	13.0	-	12.9	.26	11.5	-	12.0	.28	11.7	.29			\$1353	\$62	19	\$95	12 x 12	\$94	12 x 12	\$69							
			20)37)00	19		19		18		18		17	63															
CUE-121-V 1/2 HP		1725	15.6	.39		.39	16.1	.40	16.7		17.3	.43	17.9		18.2		\$1443	\$62	19	\$95	12 x 12	\$94	12 x 12	\$69							
	1070					/ .00 /65		43	26		25		25		10.2																
CUE-141-V 3/4 HP		1550	18.7	.63	18.2	1	17.8	-	17.5		17.7	.68	14.9				\$1722	\$67	22	\$103	16 x 16	\$111	16 x 16	\$78							
			id Stat	.00	10.2			.04		.00			1 1.0	.00																	

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



9

Fans / Dampers / Curbs

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

Flexible duct / Snaplock & Acc.

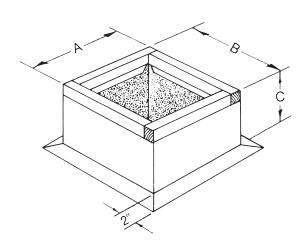
SPIRAL PIPE & Accessories





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.



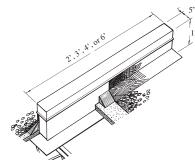
Curb Model	A	В	C	Maximum Load (lbs)	Price Each
12	12	12	12	1000	\$77
15	13 ¹ / ₂	13 ¹ /2	12	1000	\$82
17	15 ¹ /2	15 ¹ /2	12	1000	\$88
19	17 ¹ / ₂	17 ¹ / ₂	12	1000	\$95
22	20 ¹ / ₂	20 ¹ / ₂	12	1200	\$103
24	22 ¹ / ₂	22 ¹ / ₂	12	1200	\$114
26	24 ¹ / ₂	24 ¹ / ₂	12	1200	\$124
*30	28 ¹ / ₂	28 ¹ / ₂	12	1330	\$145
*34	32 ¹ / ₂	32 ¹ / ₂	12	1470	\$165
*40	381/2	38 ¹ / ₂	12	1600	\$194
*46	44 ¹ / ₂	44 ¹ / ₂	12	1730	\$225
*52	50 ¹ / ₂	50 ¹ / ₂	12	1870	\$255
*58	56 ¹ /2	56 ¹ /2	12	2000	\$287

*Curb sizes 30 thru 58 must ship Motor Freight.

18" tall curbs and rails now available from our Charlotte warehouse.

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'	\$84
3'	\$126
4'	\$168
*6'	\$252

*Must ship Motor Freight.

Model	A	В	C	Price Each
850616	17	19	7	\$162
850618	19	22	7	\$176
823055	22	26	7	\$204

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

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.

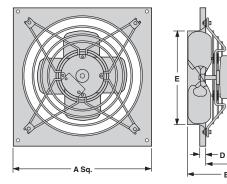
PERFORMANCE DATA AND PRICES

				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	\$373	10 x 10	\$98	\$255
SE1-10-440-D	1/12	1550	924	800	763	624	\$385	12 x 12	\$105	\$255
SE1-12-432-D	1/8	1550	1449	1309	1271	1042	\$426	14 x 14	\$114	\$259
SE1-14-440-B	1/6	1160	1604	1406	1350	908	\$731	16 x 16	\$131	\$264
SE1-16-426-B	1/6	1160	2235	2058	2012	1710	\$752	18 x 18	\$138	\$277
SE1-18-429-B	1/4	1160	3238	2987	2908	2434	\$846	20 x 20	\$173	\$290
SE1-20-428-B	1/3	1160	4227	4030	3974	3621	\$972	22 x 22	\$209	\$302

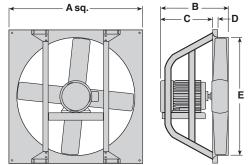
Performance ratings are AMCA certified

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

Size 8-12



Size 14-20



DIMENSIONAL DATA

Model	A	В	C	D	E	Damper
SE1-8-440-D	13	7	5	1	8 ³ /8	10 x 10
SE1-10-440-D	15	8 ³ / ₄	5	1	103/8	12 x 12
SE1-12-432-D	18	10 ³ /4	8 ¹ / ₄	1	12 ³ /8	14 x 14
SE1-14-440-B	20	11 ¹ / ₄	8 ¹ / ₂	1	14 ³ /8	16 x 16
SE1-16-426-B	22	11 ³ /4	87/8	1	16 ³ /8	18 x 18
SE1-18-429-B	24	14	107/8	1	18 ³ /8	20 x 20
SE1-20-428-B	26	17	11	1	20 ¹ /2	22 x 22

STEAM SPECIALTIES

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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DRIVES & STARTERS VARIABLE SPEED



VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

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.

DIMENSIONAL DATA											
Model	Α	В	C	D	E	Grille Size	Wt.				
SP-6 9 ¹ /4 10 5 ³ /4 4 3 ³ /8 12 x 11 ³ /8 8											
For complete dimensional information, see submittal drawings											

PERFORMANCE DATA

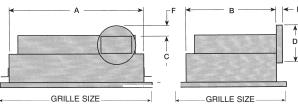
GRILLE SIZE

MODEL SP6

By Broan

Madal	DDM		Watts		CI	FM/STATIC PI	RESSURE IN I	NCHES OF W.	.G.		Price
Model	del RPM AMP ((Input)		0.000	0.100	0.125	0.250	0.375	0.500	Each
CD C	CD C 1000 0.44	0.40	40	CFM	80	80	77	67	59		\$128
SP-6	P-6 1280 0.40		43	Sones	2.0	2.0	2.3	2.6	2.9		\$120

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.

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

D

GRILLE SIZE

DIMENSIONAL DA	JIMENSIONAL DATA												
Model	A	В	*C	D	E	Std Grille	Decorative Grille	Unit Wt.					
B50, 70, 80	13 ⁷ /8	11 ¹ /2	7	6	1 ¹ /4	14 ⁷ /8 x 13¹/4	15 ¹ /4 sq.	9					
B90, 110, 150, 200	13 ⁷ /8	11 ¹ /2	7	6	1 ¹ /4	14 ⁷ /8 x 13¹/4	15 ¹ /4 sq.	10					

For complete dimensional information, see submittal drawings

PERFORMANCE DATA

Model	RPM	AMP	Watts				CFM/ST	ATIC PRESSU	RE IN INCHE	S OF W.G.				Price			
WOUCI	nrivi	AWI	(Input)		0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	1.000	Each			
SP-B50	625	0.50	37.8	CFM	67	54	51	40	29					\$125			
3F-D30	025	0.50	37.0	Sones	1.2	1.4	1.4	2.0	3.0					φ125			
SP-B70	675	0.16	17.1	CFM	89	75	71	54	35					\$154			
3P-D/U	070	0.10	17.1	Sones	0.8	0.8	0.9	1.4	2.0					\$154			
SP-B80	900	0.16	18.6	CFM	94	81	77	62	46					\$127			
3P-D00	900	0.10	10.0	Sones	0.8	0.9	0.9	1.3	2.0					φ127			
SP-B90	700	0.18	0.18	0.18	0.18	21.1	CFM	104	92	89	72	57					\$154
3P-D90			21.1	Sones	1.0	1.0	1.0	1.5	2.0					\$154			
SP-B110	950	1.14	80.2	CFM	133	114	110	97	95	94	91	85	50	\$142			
5P-DI10	900	1.14	00.2	Sones	1.5	1.5	1.5	2.0	2.0	2.0	3.0	3.5	4.5	\$142			
SP-B150	1050	1.70	128	CFM	160	156	155	154	152	149	147	138	92	\$189			
3F-B130	1050	1.70	120	Sones	2.5	2.5	2.5	3.0	3.5	3.5	4.0	4.5	5.0	\$109			
SP-B200	1100	2.20	172	CFM	197	195	194	191	187	184	181	166	128	¢100			
36-9200	1100	2.20	172	Sones	3.5	4.0	4.0	4.5	4.5	5.0	5.0	5.5	5.5	\$190			
Model 5W (6 Amp) Solid State Speed Controller (SP-6, SP-B50 - B-200, SP-A50 - A900)												\$57					
Model 10	Model 10W (10 Amp) Solid State Speed Controller (SP-A1050 - A1550) \$108																

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.

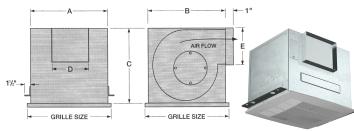
Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Fans / Dampers / Curbs

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.

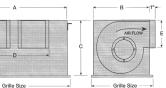


DIMENSIONAL D	ATA		N	IODEL	SPA1	10-A780	
Model	Α	В	C	D	E	Grille Size	Unit Wt.
A50, 70, 90	13 ¹ /4	105/8	9	6	3	14 ⁷ /8 x 13 ¹ /4	12
A110, 125, 190	13 ¹ /4	105/8	9	8	6	14 ⁷ /8 x 13 ¹ /4	17
A200, 250, 290, 390	14	117/8	11 ¹ /4	8	8	14 ⁷ / ₈ x 13 ¹ / ₄	24
A410, 510	18	14 ³ /8	14 ¹ /2	8	8	19 ³ /8 x 16 ³ /8	31
A700	235/8	115/8	115/8	19 ¹ / ₂	8	25 ¹ /8 x 13 ¹ /2	34
A710, 780	18	14 ³ /8	14 ¹ /2	10	8	19 ³ /8 x 16 ³ /8	34

PERFORMANCE DATA

Model	RPM	AMP	Watts				CF	M/STATIC P	RESSURE IN	I INCHES OF	W.G.				Price
mouci		~~~	(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							\$229
SP-A50	790	0.33	25.9	Sones	0.4	0.6	0.6	0.9							\$225
SP-A70	790	0.14	15.6	CFM	88	74	71	54							\$20
5P-A/U	790	0.14	15.0	Sones	0.3	0.3	0.3	0.3							\$20
SP-A90	870	0.14	16.9	CFM	114	101	98	80							\$21
3F-A90	070	0.14	10.9	Sones	0.3	0.3	0.3	0.4							φΖΙ
SP-A110	950	0.16	19.4	CFM	130	119	115	98							\$21
SF-ATTU	900	0.10	19.4	Sones	0.3	0.3	0.3	0.5							φΖΙ
SP-A125	1010	0.19	23	CFM	144	130	127	109							\$26
SF-ATZJ	1010	0.19	23	Sones	0.4	0.4	0.4	0.6							φ20
*SP-A190	1400	0.45	54.2	CFM	229	214	210	186	156						\$28
31-A130	1400	0.45	54.2	Sones	2.5	2.1	2.1	1.8	1.6						φ20
SP-A200	900	0.47	56.1	CFM	267	246	242	224	199	162	109	68			\$28
31 -A200	300	0.47	50.1	Sones	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.5			φ20
SP-A250	1000	0.56	67	CFM	294	274	271	250	230	201	147	92			\$28
31-A230	1000	0.50	07	Sones	2.5	2.5	2.5	3.0	3.5	4.0	5.0	5.0			φ20
*SP-A290	1050	0.72	80.7	CFM	315	293	287	257	231	207	175	124			\$31
01 71200	1050	0.72	00.7	Sones	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.5			φσι
SP-A390	1350	1.34	135	CFM	410	395	391	368	345	325	307	279			\$33
01-A030	1330	1.54	155	Sones	4.5	4.5	4.5	4.5	5.0	5.0	5.5	5.5			φ.0.5
SP-A410	1000	1.74	121	CFM	443	413	405	351	306						\$35
01-74410	1000	1.74	121	Sones	3.5	3.0	3.0	3.0	3.5						φ33
SP-A510	1070	3.30	224	CFM	557	512	501	439	392	325					\$43
01-A010	1070	5.50	224	Sones	5.0	4.5	4.5	4.5	4.5	4.0					φ43
SP-A700	1100	3.20	350	CFM	757	730	723	700	679	649	613	560	494	396	\$52
	1100	0.20		Sones	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.5	6.5	6.5	ψ02
SP-A710	1080	4.40	285	CFM	752	714	701	653	588	486	320				\$54
	1000	40	205	Sones	6.0	6.0	6.0	6.0	6.0	5.5	5.5				ψυ4
SP-A780	1600	3.30	348	CFM	812	782	775	741	704	665	625	581			\$54
	1000	0.00	540	Sones	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0			φ.04





NA	l data		М	DEL SI	PA900-	A1550	
		_		_	_		

DIMENSIONA		MODEL SPA900-A1550					
Model	Α	В	C	D	E	Grille Size	Wt.
A900-A1550	23 ³ /4	14 ³ /8	14 ¹ /2	17 ⁷ /16	8	25 x 16³/8	56

Standard 301, Values are for installation type B: free inlet sone levels.

The AMCA Certified Ratings Sound Seal applies to sone ratings only.

PERFORMANCE DATA

Model	RPM	AMP	Watts			CF	M/STATIC PR	M/STATIC PRESSURE IN INCHES OF W.G.						
Mouci	111 111		(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	950	4.00	285	Sones	4.0	5.0	5.0	5.0	5.0	5.0			\$790	
SP-A1050	1095	0.00	400	CFM	1125	1059	1043	964	885	796	662		\$790	
5P-A1000	1095	6.30	420	Sones	6.0	6.0	6.0	6.0	5.5	5.5	5.5		\$790	
CD 41410	1450	7.40	700	CFM	1455	1415	1404	1353	1307	1262	1218	1174	¢700	
SP-A1410	1450	7.40	786	Sones	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	\$790	
SP-A1550	1610	0.00	818	CFM	1607	1558	1558	1506	1449	1407	1369	1323	\$873	
5P-A1000	1610	8.60	818	Sones	10.5	10.0	10.0	10.0	10.0	10.5	11.5	13.0	\$873	

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

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Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

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 guiet 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.

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

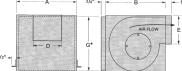
VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

DRIVES & STARTERS VARIABLE SPEED



CSP A110-A780



CSP B110-B200

IMENSIONAL DAT	MENSIONAL DATA MOD					DEL CSP B110-A780						
				Outlet		Inlet						
Model	Α	В	C	D	E	F	G	Wt.				
B110, 150, 200	13 ⁷ /8	11 ¹ / ₂	7	6	1 ¹ /4	13 ¹ /2	3 ¹ / ₄	10				
A110, 125, 190	127/8	105/8	9	8	6	12	9 ¹ / ₄	16				
A200, 250, 290, 390	14	117/8	11 ¹ /4	8	8	127/8	10	23				
A410, 510	18	14 ³ /8	14 ¹ / ₂	8	8	16 ⁷ /8	13 ¹ /4	36				
A700	235/8	115/8	115/8	19 ¹ /2	8	225/8	101/2	34				
A710, 780	18	14 ³ /8	14 ¹ /2	10	8	167/8	13 ¹ /4	36				

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

PERFORMANCE DATA **CFM/STATIC PRESSURE IN INCHES OF W.G.** Watts Price Model RPM AMP Fach (Input) 0.000 0.100 0.125 0.250 0.375 0 500 0 625 0.750 0.875 1.000 CFM 103 100 100 98 950 1.14 80 \$152 *CSP-B110 1.5 1.5 2.0 Sones 1.5 CFM 151 150 149 148 *CSP-B150 1050 1.7 129 \$169 2.0 2.0 2.0 Sones 2.0 CFM 186 184 184 182 *CSP-B200 1100 2.2 173 \$190 3.0 3.0 3.0 3.0 Sones CFM 124 112 110 102 77 CSP-A110 950 0.62 20 \$241 0.9 0.8 0.8 0.8 0.9 Sones CEM 138 126 124 114 91 CSP-A125 1100 0.63 33 \$241 Sones 1.1 1.1 1.1 1.0 1.2 215 198 180 159 121 CFM 202 *CSP-A190 1400 1.10 55 \$285 2.0 1.5 2.0 2.0 2.5 2.5 Sones 226 109 254 203 178 145 70 CFM 231 CSP-A200 900 0.43 58 \$286 Sones 0.6 0.4 0.5 0.9 1.0 1.3 1.5 1.5 CFM 246 241 205 187 165 266 221 132 67 CSP-A250 1000 0.79 \$286 0.9 1.0 1.0 2.0 2.5 3.0 2.5 2.5 Sones CFM 292 248 318 299 265 229 201 144 *CSP-A290 0.71 1050 102 \$316 Sones 1.1 1.2 1.3 2.0 2.5 3.5 3.0 3.0 CFM 412 400 397 382 363 339 324 309 CSP-A390 1350 1.33 161 \$335 2.0 2.0 2.0 2.5 3.0 4.0 4.5 4.5 Sones CFM 447 403 364 317 441 217 CSP-A410 1000 1.87 132 \$356 Sones 1.5 1.5 1.5 2.0 2.0 2.0 CFM 545 514 506 464 405 324 CSP-A510 1070 218 3.11 \$432 Sones 2.5 2.0 2.0 2.0 2.0 2.5 678 635 549 CFM 766 755 752 739 418 726 702 CSP-A700 1100 3.20 352 \$529 2.5 2.0 2.5 40 Sones 2.0 2.0 2.0 2.0 2.0 2.0 CFM 737 698 688 635 567 475 334 CSP-A710 1080 4.40 333 \$541 2.5 2.5 2.5 2.5 2.0 2.0 2.0 Sones 742 CFM 813 784 777 707 672 638 603 567 527 CSP-A780 3.77 496 \$541 1600 Sones 3.0 3.0 3.0 3.0 3.0 2.0 3.0 3.0 ontinued Item - Available only while supplies last



PERFORMANCE DATA

DIMENSIONAL DATA

MODEL CSP A900-A1550

900 1050 23³/4 14³/8 14¹/2 18³/4 8 225/8 131/4 59 1410, 1550

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

Model	RPM	AMP	Watts		CFM/STATIC PRESSURE IN INCHES OF W.G.									Price	
mouor			(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	335	CFM	908	852	841	782	715	631					\$790
63P-A900	950	4.07	335	Sones	1.4	1.4	1.4	2.0	2.5	3.0					\$790
CSP-A1050	1095	6.65	469	CFM	1182	1110	1093	1013	922	832	743				\$790
03P-A1030	1095	0.00	409	Sones	2.5	2.5	2.5	2.5	2.5	2.5	2.5				\$190
CSP-A1410	1450	7.80	871	CFM	1584	1543	1533	1483	1439	1395	1345	1293	1238	1181	\$790
65P-A1410	1450	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	\$790
CCD 41550	1610	8.32	913	CFM	1672	1618	1604	1543	1484	1427	1367	1307	1240	1172	\$873
CSP-A1550	1610	8.32	913	Sones	5.0	4.5	4.5	4.5	4.5	4.0	4.0	4.5	4.5	4.5	\$07 S
Model 5W (6	Amp) Solid S	State Speed	Controller (CSP	-B110 - B200,	CSP-A110 - A	4900)									\$57
Model 10W (10 Amp) Solid State Speed Controller (CSP-A1050 - A1550)									\$108						

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Fans / Dampers / Curbs

SP AND CSP ACCESSORIES



15



CEILING RADIATION DAMPER

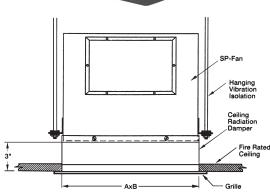
National Fire Protection Association (NFPA) Standard 90A requires that openings in fire rated ceiling/floor assemblies must be protected by appropriately rated ceiling radiation dampers.

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

DIMENSIONAL DA					
SP Model	CRD Size	A	В	Material Gauge	Price Each
A50-A190	310	13 ¹ /2	11 ¹ /8	22	\$86
B50-B-200 A200-A390	320	14 ³ /8	12 ¹ /4	22	\$92
A410-A510 A710-A780	350	18 ⁷ /16	14 ¹⁵ / ₁₆	22	\$129

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.

GREENHECK Building Value in Air.

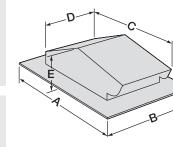
- RPM Revolutions Per Minute. Measure of fan speed.
- TS Tip Speed. The speed of the tip of a fan wheel or prop measured in feet per minute.
- AMCA Air Movement and Control Association. A nationally recognized association which establishes standards for fan testing and performance ratings. Certifies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

IPERS / S

Variable speed Drives & Starters

SP AND CSP DISCHARGE ACCESSORIES



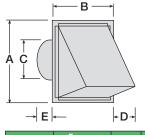


MODEL RJ

- **Pitched Roof Cap**
- Steel construction with black enamel finish
- Integral flashing flange
- Built in birdscreen and damper

Model A RJ-4 9¹/₄ 8¹/4 5⁵/16 B50-B80 11 $4^{1}/_{2}$ 4 in Dia \$82 B90-B200 RJ-6x9 18³/4 14¹/4 14¹/2 103/8 $6^{1/2}$ 6 x 9 \$138 A50-A390 20 20 RJ-10x10 $15^{3}/_{4}$ 11 10 x 10 \$146 A410-A1050 6

All dimensions in inches.

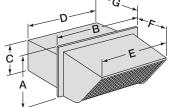


MODEL WC & SDWVA (Rounded Connection) Hooded Wall Cap

- 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	6 ¹ /2	6	4	2 ³ /4	5	\$34
WC-6	B90-B200 A50-A190	8	8	6	4 ¹ /8	5	\$41
WC-8	A200-A510	11	11	8	5 ¹ /8	3 ¹ /2	\$64
SDWVA-10	10" Round	13 ¹ /2	13	10	7	81/2	\$86
SDWVA-12	12" Bound	14 ¹ /2	14	12	9	8 ¹ /2	\$101

All dimensions in inches.

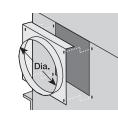


MODEL WC (Rectangular Connection) Hooded Wall Cap

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

Model	For use with sizes	A	В	C	D	E	F	G	Price Each
WC-10x3	50-290	5 ¹ / ₂	12 ³ /4	3 ¹ /2	10 ¹ /4	11 ¹ /8	4 ¹ / ₄	5	\$82
WC-8x8	200-510	101/4	101/4	81/4	81/4	81/4	63/4	5	\$71
WC-18x8	700-1550	10 ¹ /4	20 ¹ /4	8 ¹ /4	18 ¹ /4	18 ¹ /4	6 ³ /4	5	\$138

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

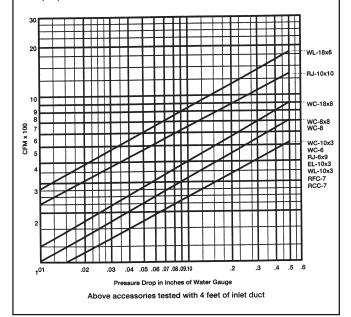
Model	For use with sizes	Dia.	Price Each
RDC-6	A110-A190	6	\$26
RDC-8	A200-A510	8	\$32

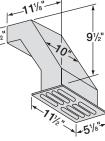
All dimensions in inches

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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.





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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
- ModelFor use with sizesPrice EachEL-10x350-290\$60

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	3 ¹ / ₂	\$181
WL-18x6	390-1550	19 ³ /4	8	18	9	6	\$244

b

All dimensions in inches

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

> SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

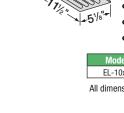
STEAM SPECIALTIES

/ Dampers / Curbs

DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VARIABLE SPEED



SP AND CSP ACCESSORIES



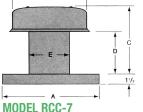
Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

17

CURB CAP



Weathertight aluminum construction

- Integral birdscreen
- Built in curb cap
- Requires roof curb
- Built in curb capRequires roof curb

construction

Integral birdscreen

MODEL GRS

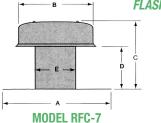
- Dia. ---

· All aluminum exterior

Galvanized steel internal supports

L c D↓↓

L 1 3/4 in.



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

B D D

MODEL GRSF

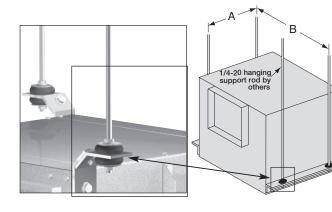
- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built in flashing flange

	WITH CURB CAP									
Model	For use with sizes	A	В	C	D	Throat Dia.	Price Each			
RCC-7	50-390	15	12	10	6 ³ /8	7	\$143			
GRS-8	50-390	19	20 ¹ /2	7 ¹ /4	1 ¹ / ₂	8 ¹ /4	\$190			
GRS-10	410-710	19	20 ¹ /2	7 ³ /4	2	101/4	\$208			
GRS-12	780-1050	22	29	10	3 ¹ / ₂	12 ¹ /4	\$230			
GRS-16	1410-2150	26	29	11	4 ¹ / ₄	16 ⁵ /16	\$311			
GRS-20	3600	30	35 ¹ /2	11 ¹ / ₄	33/4	20 ⁵ /16	\$385			

•

		WITH FL	ASHING	FLANGE			
Model	For use with sizes	A	В	C	D	Throat Dia.	Price Each
RFC-7	50-390	18	12	10	6 ³ /8	7	\$133
GRSF-8	50-390	23	20 ¹ / ₂	7 ¹ /4	1 ¹ / ₂	8 ¹ /4	\$177
GRSF-10	410-710	23	20 ¹ /2	7 ³ /4	2	10 ¹ /4	\$196
GRSF-12	780-1050	26	29	10	31/2	12 ¹ /4	\$211
GRSF-16	1410-2150	30	29	11	4 ¹ / ₄	16 ⁵ /16	\$290
GRSF-20	3600	34	35 ¹ /2	11 ¹ /4	33/4	205/16	\$362

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	А	В	Price Each
B50-B200	4 ¹ / ₂	155/8	\$31
A50-A190	5 ¹ /2	145/8	\$31
A200-A390	6 ³ /4	15 ¹ /2	\$31
A410, A510 A710, A780	9 ¹ / ₄	195/8	\$31
A700	5 ¹ /2	25 ¹ /8	\$31
A900-A1050 A1410-A1550	9 ¹ / ₄	25 ³ /8	\$31

All dimensions in inches.

ROOF VENTILATORS

С

13/4"

DĴ↓



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													
MODEL	A	в	C	D	Throat	Throat area	Price	12" Cu	Roof Irb	100 Da Re	amper lief		amper ake
					Dia.	(FT ²)	Each	Model	ADD	Size	ADD	Size	ADD
GRS-8	19	201/2	71/4	1 ¹ / ₂	81/4	0.37	\$190	19	\$95	8 x 8	\$61	8 x 8	\$110
GRS-10	19	20 ¹ / ₂	7 ³ /4	2	101/4	0.57	\$208	19	\$95	10 x 10	\$65	10 x 10	\$112
GRS-12	22	29	10	31/2	12 ¹ /4	0.82	\$230	22	\$103	12 x 12	\$69	12 x 12	\$112
GRS-15	22	29	10	31/2	141/4	1.12	\$300	22	\$103	16 x 16	\$78	16 x 16	\$145
GRS-16	26	29	11	4 ¹ / ₄	16 ⁵ /16	1.45	\$311	26	\$124	16 x 16	\$78	16 x 16	\$145
GRS-18	30	351/2	93/4	13/4	201/4	1.83	\$374	30	\$145	18 x 18	\$101	18 x 18	\$176
GRS-20	30	35 ¹ / ₂	11 ¹ / ₄	33/4	205/16	2.25	\$385	30	\$145	18 x 18	\$101	18 x 18	\$176
GRS-24	34	38 ¹ /4	11	4	24 ¹ / ₂	3.24	\$569	34	\$165	24 x 24	\$179	24 x 24	\$208

General Ventilation Design Ventilation Rates for Acceptable Indoor Air Quality

Space	Outdoor Air Required (CFM/person)	Occupancy (People/ 1000 ft ²)	Space	Outdoor Air Required (CFM/person)	Occupancy (People/ 1000 ft ²)
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".

18

в

Dia.

A

VAV TERMINALS / HOT WATER COILS

INLINE CENTRIFUGAL FANS



Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

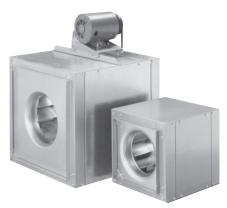
VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

19

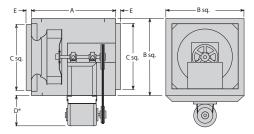


MODEL SO DIRECT DRIVE DIMENSIONS

1" > < A→ <u> </u> <1"	⊢−−−− B sq. −−−− →
C sq.	

Unit Size	Α	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	Α	В	C	D*	E
BSQ 70-80-90	21	17 ¹ /8	13 ⁷ /8	9	1
BSQ 100	21	17 ¹ /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	27 ¹ /8	23 ⁷ /8	11	1 ¹ /2

*Varies with motor size

MODEL SO AND BSO

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.)

• 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.



PERFORMANCE DATA AND PRICING MODEL SQ



							STATIC PR	ESSURE IN I	INCHES OF V	N.G. / CAPA	CITY (CFM)				
					Max.	0.000	0.100	0.125	0.250	0.375	0.500	0.625	Price Each	33 Dam	
MODEL		HP	RPM	TS	BHP	Sones	Sones	Sones	Sones	Sones	Sones	Sones	Luon	Size	ADE
SQ-80-VG6X		1/6	1725	4412	.055	503	461	451	405	350	294		\$1248	12 x 12	\$ 94
3Q-00-V00A		1/0	1725	4412	.055	8.4	8.5	8.6	8.6	8.6	8.7		φ1240	12 X 12	\$9 [,]
	Е	1/50	1050	2989	.020	500	399	369	188						
		1030	2303	.020	4.0	3.9	3.9	4.1							
SQ-90	G	1/25	1300	3701	.040	619	539	519	397	245			\$736	12 x 12	\$94
00 00	u u	1/20	1000	5/01	.040	5.4	5.4	5.4	5.5	5.6			φ/30	12 1 12	ψυ
	D	1/10	1550	4412	.068	738	673	654	564	457	334				
		1/10	1550	4412	.000	7.6	7.5	7.5	7.4	7.4	7.4				
	Е	1/30	1050	2989	.031	623	507	475	274						
	L	1/30	1030	2909	.031	4.9	4.5	4.5	4.5						
SQ-95	G	1/15	1300	3701	.059	771	684	659	522	352			\$736	12 x 12	\$9
30-90	u	1/15	1300	3701	.059	7.6	6.8	6.7	6.4	6.4			\$730	12 X 12	ወሮ
	D	1/8	1550	4412	.100	919	852	829	720	603	461	276			
		D 1/0	1550	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	\$1303	12 x 12	\$9
20-90-VGOV		1/0	1725	5050	.100	11.3	11.1	11.0	10.6	10.1	9.8	9.2	\$1303	12 X 12	\$9
SQ-100-A		1/4	1725	5052	.250	1454	1413	1402	1349	1292	1227	1156	\$1054	14 x 14	\$10
3Q-100-A		1/4	1725	3032	.230	13.1	12.5	12.4	11.9	11.5	11.1	10.7	ψ1034	14 X 14	φι
SQ-120-VG5X		1/2	1725	5927	.41	1948	1897	1883	1818	1754	1692	1628	\$1833	16 x 16	\$1
3Q-120-V03A		1/2	1725	J921	.41	14.7	14.4	14.1	13.8	13.6	13.5	13.5	φ1055	10 × 10	φı
BAS 1P Magneti	c Start	er										W/DIS	- \$209		
Hanging Rubber	Vibrati	ion Isolat	or Kit (HV	I-250)									\$139		
Base Rubber Vib	ration	Isolator k	Kit (BVI-25	50)									\$173		
Mounting Bracke	ets (80	0201)											\$61		
Model 5W (6 Am	p) Soli	d State S	peed Con	trol (thru	Size 100)							\$57		

SPIRAL PIPE & ACCESSORIES

STEAM SPECIALTIES

SQ & BSQ ACCESSORIES



Fans / Dampers / Curbs

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

BSQ PERFORMANCE DATA - MOTORS & DRIVES FACTORY MOUNTED

								STAT	IC PRES	SURE IN	INCHE	S OF W.	G. / CAF	PACITY (CFM)					33	30
				Sones @ 1/4" SP	0.1	25	0.2	250	0.3	75	0.5	500	0.6	625	0.7	/50	1.0	000	Price Each	Dan	ıper
	MODEL	HP	RPM		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	Laun	Size	ADD
QD	BSQ-70-4	1/4	1730	16.1	349	0.18	323	0.18	293	0.17	260	0.17	227	0.17	192	0.16	112	0.15	\$1746	12 x 12	\$95
ųυ	(1 Phase)	1/4	1970	19.1	404	0.26	383	0.26	358	0.26	330	0.26	301	0.25	272	0.25	211	0.24	\$1740	12 X 12	\$ 90
QD	BSQ-80-4	1/4	1580	14.6	610	0.16	570	0.17	526	0.17	477	0.17	420	0.17	362	0.16			\$1779	12 x 12	\$95
QD	(1 Phase)	1/4	1835	17.0	720	0.25	687	0.26	651	0.26	614	0.26	571	0.26	525	0.26	425	0.25	φ1 <i>11</i> 9	12 X 12	4 90
QD	BSQ-90-4	1/4	1440	12.2	805	0.15	741	0.16	669	0.16	588	0.16	480	0.15					\$1784	12 x 12	\$95
ųυ	(1 Phase)	1/4	1695	15.8	965	0.25	914	0.25	858	0.26	798	0.26	730	0.26	654	0.25			 φ1/04	12 X 12	\$ 90

BSQ PERFORMANCE DATA - MOTORS & DRIVES FIELD MOUNTED

				Sones				STAT	IC PRES	SURE II	N INCHE	S OF W.	G. / CAF	PACITY ((CFM)					330			
				@ 1/4"	0.1	25	0.2	50	0.375		0.5	0.500		625	0.7	′50	1.0	000	Price Each	Dam	per	Starters	
MODEL	HP	PH	RPM	SP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	Laon	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			\$1789				\$209
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	\$1851	14 x 14	\$118		\$209
	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	\$2229			\$768	\$106
BSQ-120-4		1	1210	9.2	1283	0.17	1192	0.17	1098	0.18	992	0.18	860	0.18							.		
(1 Phase)	1/4	1	1370	11.0	1475	0.24	1395	0.25	1315	0.26	1230	0.26	1135	0.26	1025	0.26			\$1896	16 x 16	\$128		\$20
	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	\$2387	20 x 20	\$157	\$768	\$1066
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	\$2423				
	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	\$2471	1			
	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	\$2753				
	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	\$2789				
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	\$2836	23 x 23	\$190	\$768	\$106
	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	\$3219	-			
	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	\$2763				
	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	\$2799	1			
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	\$2847	24 x 24	\$190	\$768	\$10
	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	\$3229	1			

ACCESSORIES

DESCRIPTION	Fan Size	Price Each
Hanging Rubber Vibration Isolator Kit HVI-250	BSQ 70-140	\$169
Hanging Rubber Vibration Isolator Kit HVI-440	BSQ 160-180	\$169
Base Rubber Vibration Islator Kit BVI-250	BSQ 70-140	\$211
Base Rubber Vibration Isolator Kit BVI-440	BSQ 160-180	\$211
Mounting Bracket 800201	SQ & BSQ	\$74

0D - 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.

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.



VIBRATION ISOLATION

ELECTRIC HEATERS / FILTERS & ACCESSORIES

GREENHECK

GREENHECK

Building Value in Air

Building Value in Air

21

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

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.

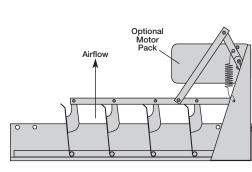
VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES



	Damper Size Sq.	Price Each	Add Motor Pack
	8 x 8	\$61	\$115
η	10 x 10	\$65	\$115
	12 x 12	\$69	\$115
	16 x 16	\$78	\$115
	18 x 18	\$101	\$115
	24 x 24	\$179	\$115
QD	30 x 30	\$217	\$115
	Motor Pack is MI	P100/120/60/1V	

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.

~	° °
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· · ·
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Airflow Optional Motor
~	Pack

Damper Size Sq.	Price Each	Add Motor Pack
10 x 10	\$98	\$220
12 x 12	\$105	\$220
14 x 14	\$114	\$220
16 x 16	\$131	\$220
18 x 18	\$138	\$220
20 x 20	\$173	\$220
22 x 22	\$209	\$220

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.

Motor Pack is MP300/120/60/1V

STEAM SPECIALTIES

0D - 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.

Fans / Dampers / Curbs

VARIABLE SPEED DRIVES & STARTERS

BACKDRAFT DAMPERS





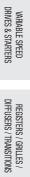
Sizes 8 through 24 can be shipped

resistance to airflow.

•

•

UPS.



VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

Flexible Duct / Snaplock & Acc.

9	2
1	FAN
2	3
C C	5
Í	P
Ī	5

Airflow 0 Optional Motor Pack 0

	Damper Size Sq.	Price Each	Add Motor Pack
	8 x 8	\$80	\$220
	9 x 9	\$88	\$220
	10 x 10	\$88	\$220
	12 x 12	\$94	\$220
	14 x 14	\$102	\$220
	16 x 16	\$111	\$220
QD	18 x 18	\$157	\$220
QD	20 x 20	\$157	\$220
QD	23 x 23	\$190	\$220
QD	24 x 24	\$190	\$220
	Motor Pack is MP300	/120/60/11/	

Motor Pack is MP300/120/60/1V

9 Airflow

Damper Size Sq.	Price Each
8 x 8	\$110
10 x 10	\$112
12 x 12	\$112
16 x 16	\$145
18 x 18	\$176
24 x 24	\$208

MODEL 410

- 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. •

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

00 - 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.

Fans / Damper

ELECTRICAL ACCESSORIES

GREENHECK Building Value in Air.

FAN SPEED CONTROL

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



Model 5W – For applications up to 6.0 AMPS. Requires 2 x 4 handy box by others. **Price Each: \$57.00**

Model 10W – For applications up to 10.0 AMPS. Requires 2 x 4 handy box by others. **Price Each: \$108.00**



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: \$327.00**

Speeds	Model	HP	Volts	РН	Price
1	MS-1	1/2	120	1	\$10
1	MS-16 w/pl	1/2	120	1	\$37
1	MS-4	2	200/277	1	\$21

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: \$132.00**

Price Each: \$132.0

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: \$37.00**

Model	HP	Volts	PH	Price		
STANDARD						
NITS -1	up to 1/2	120	1	\$12		
NITS -2	3/4 to 1	120	1	\$16		
NITS -3	1-1/2 to 2	120	1	\$45		
NITS -4	1/4 to 2	200/277	1	\$21		
NITS -6	up to 7-1/2	230/460	3	\$61		
WEATHERPRO	WEATHERPROOF					
N3RTS-1	1/4 to 2	120	1	\$113		
N3RTS-6	up to 7-1/2	230/460	3	\$120		

FANS / DAMPERS / CURBS

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

VIBRATION ISOLATION

MAGNETIC STARTERS



MODEL BAS1/MSAC

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

ADJUSTABLE OVERLOAD - SINGLE PHASE W/DISCONNECT						
Model Price Each 120V 230V						
BAS 1P	\$209	0.1 - 1 HP	0.1 - 1 HP			

ELECTRONIC OVERLOAD - NEMA 1 ENCLOSURES							
Model Price Each Three Phase							
INIOUEI	FILCE EACH	208V	230V	460V	Size		
MSAC-1-9/J-40	\$768	2 HP	2 HP	5 HP	00		
MSAC-1-18/J-40	\$815	5 HP	7.5 HP	10 HP	0		
MSAC-1-32/J-40	\$862	7.5 HP	10 HP	20 HP	1		

ELECTRONIC OVERLOAD W/DISCONNECT - NEMA 1 ENCLOSURES							
Model	Price Each		Three Phase		NEMA		
Mouci	FILE LAGI	208V	230V	460V	Size		
MSAC-1-9/J-G2.5-40	\$1066	.5 HP	.5 HP	1 HP	00		
MSAC-1-9/J-G4-40	\$1066	.75 HP	.75 HP	2 HP	00		
MSAC-1-9/J-G6-40	\$1066	1 HP	1.5 HP	3 HP	00		
MSAC-1-18/J-G8-40	\$1113	2 HP	2 HP	5 HP	0		
MSAC-1-18/J-G13-40	\$1113	3 HP	3 HP	7.5 HP	0		
MSAC-1-18/J-G17-40	\$1113	3 HP	5 HP	10 HP	0		
MSAC-1-32/J-G26-40	\$1129	7.5 HP	7.5 HP	15 HP	1		
MSAC-1-32/J-G32-40	\$1129	7.5 HP	10 HP	20 HP	1		

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

FANS / DAMPERS / CURBS

25

AC DRIVES By ABB



Variable Speed Drives & Starters DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

10 ----

MODEL ACH580 - 208 VOLT

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

MODEL: ACH580-01-BASE 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	ACH-AP-H Control Panel for All ACH580 Drives						

Contact your local salesperson for pricing.

FLEXIBLE DUCT / SNAPLOCK & ACC.

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES



MODEL: ACH580-VCR-W/ ELECTRONIC BYPASS & SERVICE 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.

VIBRATION ISOLATION

AC DRIVES By ABB





MODEL ACH580 - 460 VOLT

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

MODEL: ACH580-01-BASE 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 D)rives				

Contact your local salesperson for pricing.



MODEL: ACH580-VCR-W/ ELECTRONIC BYPASS & 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 ACH58) 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.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

SUPPLY REGISTERS





11/4" (32)

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

3/4" (19) _↓

1

≺2" (51)→

31/2" (90)

Nom. Duct Size

Opposed | Damper |

-1/4" (6)

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

W x H	Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each	W x H	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	\$51	\$47	16 x 10	720	\$106	\$89	24 x 10	1300	\$133	\$118
8 x 6	260	\$58	\$55	18 x 6	480	\$89	\$78	24 x 12	1440	\$148	\$130
10 x 4	220	\$58	\$55	18 x 8	720	\$101	\$84	24 x 16	1720	\$179	\$156
10 x 6	340	\$66	\$55	18 x 10	855	\$114	\$94	30 x 8	1200	\$153	\$141
12 x 4	260	\$65	\$58	18 x 12	1070	\$126	\$107	30 x 10	1400	\$175	\$154
12 x 6	390	\$72	\$60	20 x 6	550	\$99	\$82	30 x 12	1800	\$196	\$176
12 x 8	480	\$82	\$71	20 x 8	750	\$111	\$93	30 x 16	2180	\$236	\$217
14 x 6	370	\$77	\$67	20 x 10	945	\$118	\$100	36 x 8	1440	\$180	\$156
14 x 8	550	\$87	\$75	20 x 12	1045	\$128	\$111	36 x 12	1950	\$224	\$199
16 x 6	415	\$87	\$71	24 x 6	750	\$108	\$89	36 x 16	2530	\$275	\$244
16 x 8	650	\$99	\$82	24 x 8	945	\$125	\$107	36 x 18	3000	\$301	\$273

*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.....\$28.00

12 oz aerosol can (White or Aluminum)

Fans / Dampers / Curbs

ES / VARIABLE SPEED TIONS DRIVES & STARTERS

REGISTERS / GF DIFFUSERS / TRAI

VAV TERMINALS / HOT WATER COILS

DAMPERS /LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

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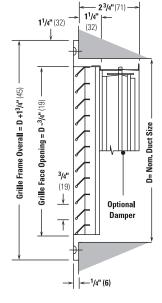
RETURN GRILLES AND REGISTERS



	*
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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



CFM*

125

235

240

280

370

250

375

550

280

420

*Columbia Stock Steel (B12) Only.

WxH

6 x 6

8 x 8

10 x 6

10 x 8

10 x 10

12 x 6

12 x 8

12 x 12

14 x 6

14 x 8

MODEL 630D & MODEL 530D								
Nominal CFM*	Aluminum (B15) Price Each	Steel (B12) Price Each						
125	\$54	\$46						
235	\$59	\$46						
370	\$68	\$55						
550	\$76	\$60						
	Nominal CFM* 125 235 370	Nominal CFM*Aluminum (B15) Price Each125\$54235\$59370\$68						

(B15)

Price Each

\$61

\$53

\$61

\$76

\$66

\$84

\$95

\$106

\$66



(B15)

Price Each

\$100

\$119

\$99

\$147

\$173

\$141

\$166

\$193

\$218

\$254

LOCK & ACC.	IBLE DUCT /

STEAM SPECIALTIES

Touchup Paint..... ..\$28.00

Nominal

CFM*

1400

1700

1100

2150

3000

2150

2800

3000

3600

WxH

24 x 18

24 x 24

30 x 12

30 x 24

30 x 30

36 x 18

36 x 24

36 x 30

36 x 36

\$79 \$55 48 x 24 3300 *Performance based on a sound level of approximately NC 30. For more specific performance

Steel

(B12)

Price Each

\$47

\$42

\$46

\$53

\$51

\$60

\$66

\$75

\$51

12 oz aerosol can (White or Aluminum)

Variable speed Drives & Starters

3 / GRILLES / 7 TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SNAP

Steel

(B12)

Price Each

\$67

\$82

\$71

\$107

\$121

\$105

\$116

\$134

\$154

\$195

Steel

(B12)

Price Eacl

\$29

\$29

\$29

\$35

\$38

\$35

\$35

\$42

\$35

\$38

information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

WxH

14 x 14

16 x 8

16 x 10

16 x 16

18 x 12

18 x 18

20 x 20

22 x 22

24 x 8

24 x 12

CFM*

710

490

550

960

805

1000

1300

1600

710

925

Aluminum

(B15)

\$40

\$43

\$43

\$45

\$48

\$45

\$48

\$53

\$45

\$48

29

FANS / DAMPERS /

CURBS

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS

Price

MODEL RCDE

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

-

VAV TERMINALS / HOT WATER COILS

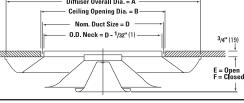
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

Siz	e	Nominal CFM	Price Each	А	В	D	E	F
6		200	\$116	11 1/8	6 1/2	6	1 3/4	1 1/8
8		280	\$121	14 3/4	8 1/2	8	2 1/8	1 1/2
10)	490	\$132	18 1/4	10 1/2	10	2 7/8	2 1/8
12)	705	\$147	22	12 1/2	12	3 1/8	2 3/8





5/32

L 5/32

1 - 3/64

1-7/32

1 - 25/64

1 - 9/16

11/16

11/16

11/16

11/16

E DIA

6 -1/2

8-1/2

10 - 1/2

12-1/2

VCR9

\$22

\$24

C

3/16 DIA 3 HOLES-SIZES 6 THRU 12

Size

6

8

10

12

.148 WIRE

A DIA

9 –15/16

11-15/16

13 –15/16

15 –15/16

Model VCR9

B DIA

5 –11/16

7-11/16

9-11/16

11 –11/16

Size

6

8

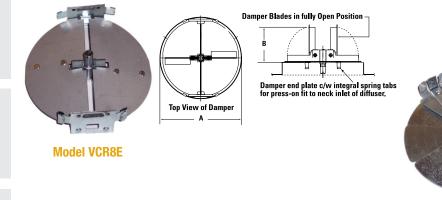
MODEL 16 ROUND CEILING DIFFUSER

- 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	\$25	\$19	\$33
8	225	\$28	\$21	\$33
10	345	\$35	\$27	\$41
12	500	\$47	\$34	\$56

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

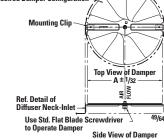


	Five to de	Segment Blades are rotate sired Damper Configuratic	ed
14		\$37	\$42
12		\$24	\$29
10		\$22	\$28

VCR8E

\$20

\$22



STEAM SPECIALTIES

VIBRATION ISOLATION

*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

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Fans / Dampers / Curbs

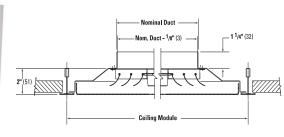
> VARIABLE SPEED DRIVES & STARTERS

PERFORATED STEEL CEILING DIFFUSERS



MODEL PDC TEE-BAR LAY-IN SUPPLY

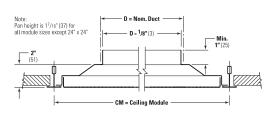
- All steel construction with a white (B12) powder coat finish
- Flush mounting in 24 x 24 lay-in tee-bar ceilings
- Approved for use in fire rated ceilings
- Four-way, adjustable pattern controllers
- Hinged, removable perforated face
- One piece plenum with one inch integrally drawn inlet collar
- 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	\$76				
8	275	\$76				
10	390	\$82				
12	550	\$82				
14	675	\$91				
16	875	\$96				

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS



Ceiling Module = A x E

MODEL PDDR RETURN ROUND NECK

Neck Size	Nominal CFM*	Price Each
6	130	\$58
8	240	\$58
10	375	\$58
12	525	\$58
14	700	\$58
16	800	\$76



*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

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

MODEL PDDR RETURN Square Neck

Neck Size	Panel Size	Nominal CFM*	Price Each
22 x 22	24 x 24	2200	\$55
10 x 10	12 x 12	425	\$46

FANS / DAMPERS / VARIABLE SPEED CURBS DRIVES & STARTERS

31

VAV TERMINALS / HOT WATER COILS

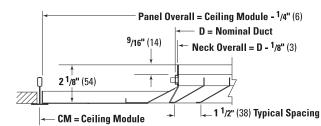
LOUVER FACED CEILING DIFFUSERS





MODEL SMD-TB TEE-BAR LAY-IN

- 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	\$85	\$76	15 x 15	900	\$152	\$129
9 x 9	400	\$102	\$85	18 x 18	1200	\$154	\$129
12 x 12	600	\$125	\$107				

FLEXIBLE DUCT / SNAPLOCK & ACC.

> SPIRAL PIPE & Accessories

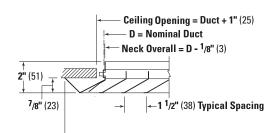
> ELECTRIC HEATERS / FILTERS & ACCESSORIES

> DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS



MODEL SMD SURFACE MOUNT

- All steel construction with a white (B12) powder coat finish
- 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	\$66	\$56	15 x 15	900	\$130	\$107
9 x 9	400	\$82	\$66	18 x 18	1200	\$163	\$132
12 x 12	600	\$105	\$85				

*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

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Fans / Dampers / Curbs

VARIABLE SPEED DRIVES & STARTERS

VIBRATION ISOLATION

REGISTERS / DIFFLISERS / T

> VAV TERMINALS / HOT WATER COILS

LOUVER FACED CEILING DIFFUSERS

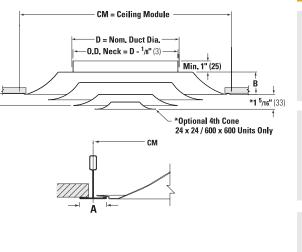




MODEL SCD TEE-BAR LAY-IN

- · 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	\$89
8	24 x 24	400	\$89
10	24 x 24	575	\$89
12	24 x 24	775	\$89
14	24 x 24	975	\$89
6	12 x 12	235	\$62
8	12 x 12	350	\$62
AFI (R6) Insulation Blanket	12 x 12		\$25
AFI (R6) Insulation Blanket	24 x 24		\$27
Center Cone			\$16



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

Panel Size

24 x 24

12 x 12

12 x 12

12 x 12

24 x 24

Nominal CFM*

250

375

545

725

950

235

350

Price Each

\$82

\$82

\$82

\$82

\$82

\$62

\$62

\$25

\$27

Neck Size

6

8

10

12

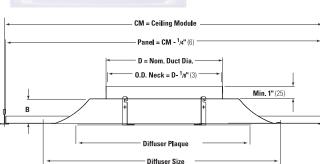
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8

AFI (R6) Insulation Blanket

AFI (R6) Insulation Blanket



	Dillasti bizt	
*Performa	ance based on a sound level of approximately NC 30. I	For more specific performance
informatio	on, consult your Hoffman & Hoffman representative or	visit www.price-hvac.com

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

STEAM SPECIALTIES

FANS / DAMPERS /

CURBS

Variable speed Drives & Starters

REGISTERS / GRILLES DIFFUSERS / TRANSITIO

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

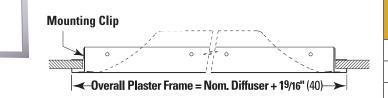
FLEXIBLE DUCT / SNAPLOCK & ACC.

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

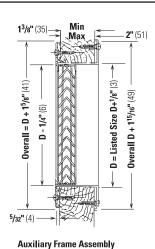


Size	Price Each
12 x 12	\$46
24 x 12	\$51
24 x 24	\$58

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

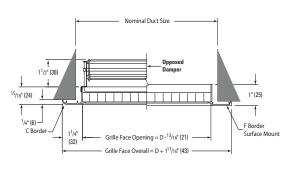
Size	Nominal CFM*	Price Each
12 x 12	250	\$109
18 x 12	350	\$124
18 x 18	500	\$173
24 x 24	700	\$278



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

Size	Nominal CFM*	Price Each
6 x 6	225	\$46
8 x 8	400	\$49
10 x 10	650	\$58
12 x 12	900	\$67
14 x 14	1150	\$86



*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

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FANS / DAMPERS / CURBS

> VARIABLE SPEED DRIVES & STARTERS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS

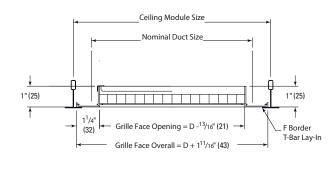
FANS / DAMPERS / VARIABLE SPEED CURBS DRIVES & STARTERS



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

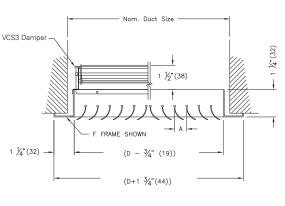
Neck Size	Panel Size	Nominal CFM*	Price Each
22 x 10	24 x 12	1500	\$53
22 x 22	24 x 24	2700	\$89
46 x 22	48 x 24	4000	\$194





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

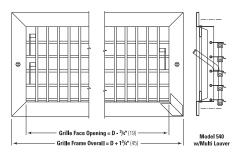


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VAV TERMINALS / HOT WATER COILS

Size	Nominal CFM*	Price Each	Size	Nominal CFM*	Price Each
6 x 6	130	\$66	10 x 10	350	\$84
8 x 8	225	\$67	12 x 12	450	\$94





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	\$31
12 x 4	415	\$35
10 x 6	500	\$37
12 x 6	550	\$38
12 x 8	700	\$42
14 x 8	800	\$44
16 x 8	900	\$46

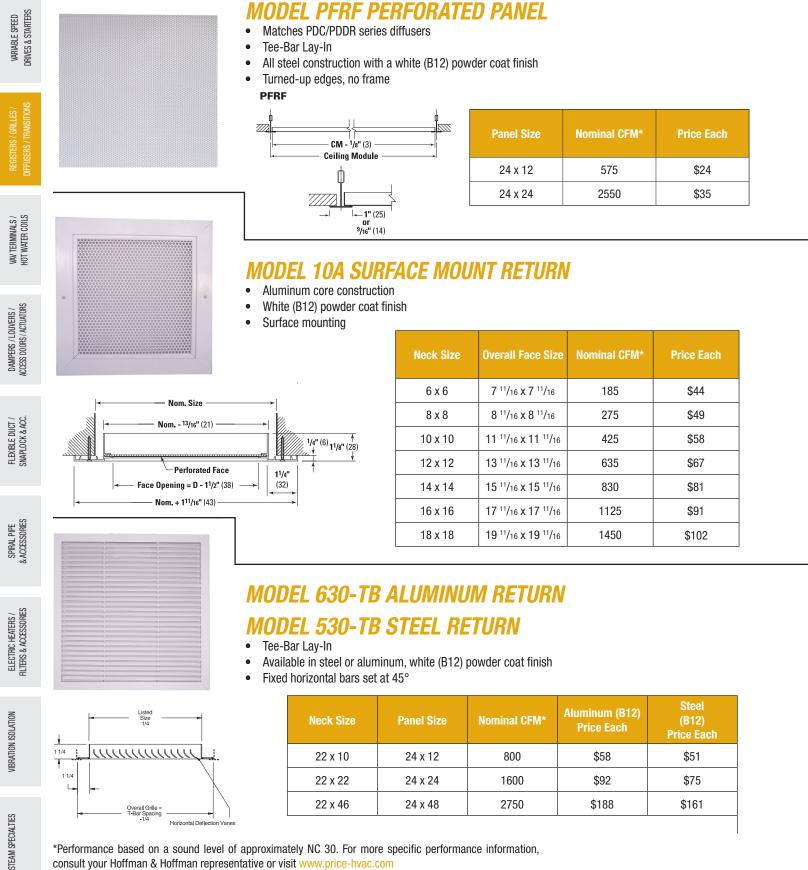
*Performance based on a sound level of approximately NC 30. For more specific performance information, consult your Hoffman & Hoffman representative or visit www.price-hvac.com

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SPIRAL PIPE & ACCESSORIES

MISCELLANEOUS RETURN GRILLES





consult your Hoffman & Hoffman representative or visit www.price-hvac.com

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FANS / DAMPERS / CURBS



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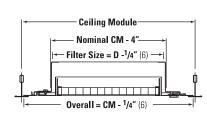
FANS / DAMPERS /

CURBS

VAV TERMINALS / HOT WATER COILS

Flexible duct / Snaplock & Acc.

MODEL 80FF CUBE CORE LAY-IN TEE-BAR



Ceiling Module

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

Overall = CM + 1/4" (6)

- 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	Nominal CFM*	Price with Filter
20 x 20	24 x 24	2400	\$161

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

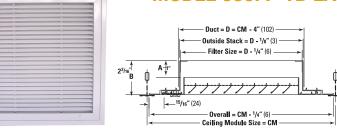
Neck Size	Panel Size	Nominal CFM*	Price with Filter
20 x 20	24 x 24	2000	\$129

MODEL 630FF SURFACE MOUNT

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

✓ Nominal Duct = D ✓ Outside Stack = Duct - 1/8" (3) ✓ Filter Size = Duct - 1/4" (6)	Filter Size	Neck Size	Nominal CFM*	Price with Filter
2 ³ / ₁₆ [†] A [†] ₁ "	12 x 12	12 ³ /8 x 12 ³ /8	575	\$89
	20 x 20	20 ³ /8 x 20 ³ /8	1400	\$142
5/16" (8) → ← 1/4" (6)	24 x 12	24 ³ /8 x 12 ³ /8	1000	\$126
← Overall = D + 2 ³ /8″ (51) →	24 x 24	24 ³ /8 x 24 ³ /8	1800	\$171

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	Nominal CFM*	Price with Filter
20 x 20	24 x 24	1400	\$150
20 x 44	24 x 48	3000	\$259

*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

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MISCELLANEOUS AIR DISTRIBUTION PRODUCTS



2¹/2"_ (64)

DRIVES & STARTERS VARIABLE SPEED

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

VARITHERM[®] MODEL VPD-HC

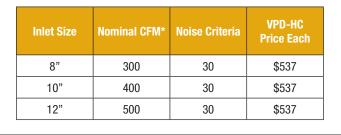
The Price Varitherm[®] is a thermally powered self-modulating diffuser featuring a specialized linkage design for optimal zone temperature control in a stand-alone package. The Varitherm® VPD-HC is available for heating and cooling modes with an automatic heating/cooling changeover.

- Designed for tee bar lay-in ceilings
- Steel backpan, faceplate and linkage • for strength and durability
- 3 15/16" (101) Minimum airflow adjustment at diffuser
- Forced open made for system balancing •
- Manual temperature set point adjustment at diffuser
- Hinged plaque with powerful magnetic closure •
- White (B12) powder coat finish



- 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

W X H	Min/Max Pipe Size	Nominal CFM	Price Each	W X H	Min/Max Pipe Size	Nominal CFM	Price Each
10 x 4	8/24	250	\$113	16 x 6	14/24	500	\$140
10 x 6	14/24	350	\$119	18 x 6	14/24	550	\$147
12 x 4	8/24	300	\$115	18 x 8	20/24	800	\$153
14 x 6	14/24	450	\$131	20 x 6	14/24	600	\$153
16 x 4	8/24	350	\$130	20 x 8	20/24	850	\$160
20 x 4	8/24	450	\$140	24 x 6	14/24	700	\$181
24 x 4	8/24	550	\$159	24 x 8	20/24	900	\$189

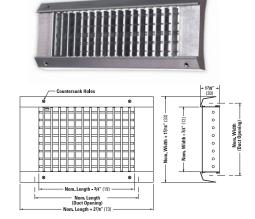


Ceiling Module

Nom. Duct

Nom. Duct - 1/4" (3)

Diffuser Plagu



8' н

- 31

STEAM SPECIALTIES

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ODEL TBDI475 SLOT DIFFUSERS

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

ţ	Length	A Width	Inlet	# of Slots	Nominal CFM*	Price Each
, * _	24"	3 1/2"	8" flat oval	2	160	\$136
V	48"	3 1/2"	8" flat oval	2	225	\$182
	48"	3 1/2"	10" flat oval	2	275	\$182

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FANS / DAMPERS / CURBS

MISCELLANEOUS AIR DISTRIBUTION PRODUCTS



Price Each

\$11

\$12

\$12

\$18

\$18

Variable Speed Drives & Starters

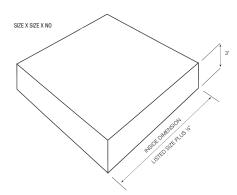
REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

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MODEL F3SO SQUARE-TO-ROUND ADAPTERS

- 26 ga. galvanized steel
- orners

Size	Price Each	Size	Price Each	Size	Price Each
6 x 6 x 5	\$14	12 x 12 x 12	\$23	20 x 20 x 14	\$46
6 x 6 x 6	\$14	15 x 15 x 10	\$30	20 x 20 x 16	\$46
8 x 8 x 6	\$16	15 x 15 x 12	\$30	20 x 20 x 18	\$46
8 x 8 x 7	\$16	15 x 15 x 14	\$30	*21 x 21 x N0	\$36
8 x 8 x 8	\$16	16 x 16 x 14	\$33	*22 x 22 x N0	\$39
9 x 9 x 6	\$18	18 x 18 x 12	\$39	22 x 22 x 6	\$53
9 x 9 x 7	\$18	18 x 18 x 14	\$39	22 x 22 x 8	\$53
9 x 9 x 8	\$18	18 x 18 x 16	\$39	22 x 22 x 10	\$53
9 x 9 x 9	\$18	18 x 18 x 18	\$39	22 x 22 x 12	\$53
10 x 10 x 8	\$18	*20 x 20 x N0	\$33	22 x 22 x 14	\$53
10 x 10 x 9	\$18	20 x 20 x 6	\$46	22 x 22 x 16	\$53
10 x 10 x 10	\$18	20 x 20 x 8	\$46	22 x 22 x 18	\$53
12 x 12 x 8	\$23	20 x 20 x 10	\$46		
12 x 12 x 10	\$23	20 x 20 x 12	\$46		

*Square box with no openings.

•

•

6" x 4"

6" x 5"

8" x 6"

8" x 7"

10" x 8"

CONCENTRIC REDUCERS

Price Each

\$8

\$8

\$10

\$10

\$11

Used to connect flexible duct to round neck diffusers

10" x 9"

12" x 8"

12" x 10"

14" x 10"

14" x 12"

Galvanized steel construction

SPIRAL PIPE & ACCESSORIES

Flexible Duct / Snaplock & Acc.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES



Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.	

UTSIDE DIMENSION	MODEL I St
LIST SIZE LESS 1/4"	Constructed of
3"	Open square co

SINGLE DUCT VARIABLE VOLUME TERMINALS

VARIABLE SPEED Drives & Starters

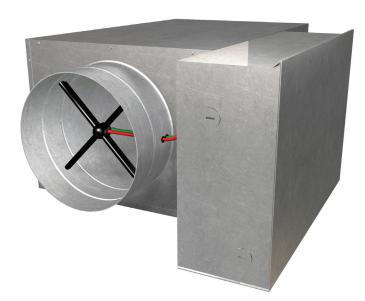
REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / Hot water coils

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES



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.

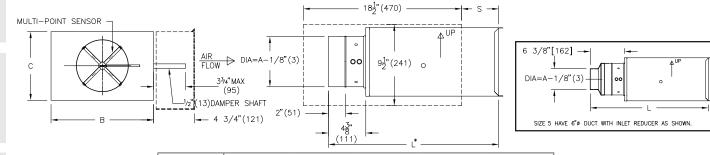
Controls by Others terminal incorporates many unique features. Most of these standard features are expensive options for other manufacturers. The Controls By Others incorporates the Patented FlowStar airflow sensor along with a Nema 1 enclosure and 120-volt transformer.

PERFORMANCE DATA AND PRICING

Size	Nom. CFM	Min. PS	*Controls by Others Each
5	250	.01	\$344
6	6 400 .08		\$344
8	600	.04	\$384
10	1100	.05	\$403
12	1800	.07	\$413
14	2300	.07	\$491

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

CONTROLS BY OTHERS



	IMPERIAL UNITS inches						
UNIT SIZE	OUTLET		INLET	LEN	GTH		
	В	С	Α	L	S		
5	10	0	5	22 1/8			
6	12	8	6	20 1/8	3 13/16		
8	12	10	8				
10	14	12 1/2	10				
12	16	15	12				
14	20	17 1/2	14	23 5/8	5 5/16		

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Fans / Dampers / Curbs

VIBRATION ISOLATION

SINGLE DUCT VARIABLE VOLUME TERMINALS Hot Water Coils



Part Number	Description	Price Each
WCSXV1R-5,6	1-Row Hot Water Coil with 1/2" 0.D.Sweat Connection for 5" & 6" VAV Boxes	\$105
WCSXV1R-8	1-Row Hot Water Coil with 1/2" 0.D.Sweat Connection for 8" VAV Boxes	\$105
WCSXV1R-10	1-Row Hot Water Coil with 1/2" 0.D.Sweat Connection for 10" VAV Boxes	\$128
WCSXV1R-12	1-Row Hot Water Coil with 1/2" 0.D.Sweat Connection for 12" VAV Boxes	\$174
WCSXV1R-14	1-Row Hot Water Coil with 1/2" 0.D.Sweat Connection for 14" VAV Boxes	\$210
WCSXV2R-5,6	2-Row Hot Water Coil with 7/8" 0.D.Sweat Connection for 5" & 6" VAV Boxes	\$140
WCSXV2R-8	2-Row Hot Water Coil with 7/8" 0.D.Sweat Connection for 8" VAV Boxes	\$150
WCSXV2R-10	2-Row Hot Water Coil with 7/8" 0.D.Sweat Connection for 10" VAV Boxes	\$189
WCSXV2R-12	2-Row Hot Water Coil with 7/8" 0.D.Sweat Connection for 12" VAV Boxes	\$239
WCSXV2R-14	2-Row Hot Water Coil with 7/8" 0.D.Sweat Connection for 14" VAV Boxes	\$334

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FANS / DAMPERS / CURBS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

STEAM SPECIALTIES

BALANCING DAMPERS

MODEL MD-25/35 MANUAL BALANCING DAMPER



VARIABLE SPEED DRIVES & STARTERS





Model	Size W x H	Price Each	Model	Size W x H	Price Each
MD-25	12 x 6	\$59	MD-25	24 x 12	\$83
MD-25	12 x 8	\$64	MD-35	14 x 14	\$112
MD-25	12 x 10	\$64	MD-35	18 x 18	\$144
MD-25	12 x 12	\$67	MD-35	24 x 18	\$149
MD-25	18 x 12	\$74	MD-35	24 x 24	\$168

VAV TERMINALS / HOT WATER COILS

DAMPERS /LC (CCESS DOORS / LC

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

MODEL MDRS-25 ROUND MANUAL BALANCING DAMPER

- 20 ga. galvanized construction
- · 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"	\$60
MDRS-25	8	6"	\$66
MDRS-25	10	6"	\$69
MDRS-25	12	6"	\$73
MDRS-25	14	6"	\$77

VIBRATION ISOLATION



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FANS / DAMPERS / CURBS

CONTROL DAMPERS



RUSKIN

www.ruskin.com

	DRIVES & STARTERS	VARIABLE SPEED
	DIF	-

REGISTERS / GRILLES / NFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATOR

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

	Sleeve or Duct
Damper	· ha
Frame	
	Control
	Shaft
	T III
	$ \downarrow \rangle$
	Bearing
	Bearing
	oard Support
	Bearing

Size W x H	Price Each	Size W x H	Price Each
12 x 12	\$142	30 x 24	\$283
18 x 12	\$155	36 x 24	\$296
24 x 12	\$165	30 x 30	\$356
14 x 14	\$175	36 x 36	\$414
18 x 18	\$225	42 x 42	\$528
24 x 18	\$233	48 x 48	\$591
24 x 24	\$261	Hand Quadrant (HQR050)	\$13

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"	\$120
CDRS-25	8	6"	\$125
CDRS-25	10	6"	\$132
CDRS-25	12	6"	\$137
CDRS-25	14	6"	\$144
Hand Quadrant (HQR050)			\$13
2" Stand-off			\$7



Hand Quadrant (sold separately)

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Fans / Dampers / Curbs

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	\$254
TFB-120-S	120V	4.5 FT ²	\$288
LF-24-S	24V	8 FT ²	\$301
LF-120-S	120V	8 FT ²	\$329
NFBUP-S	24V - 240V	15 FT ²	\$427
AFBUP-S	24V - 240V	33 FT ²	\$510

SMOKE DETECTORS

D4120

RTS2

Smoke Detector

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

SM

STEAM SPECIALTIES

	RTS151 Remote Test Station		Please select sPrice Each
		Accessory	
		RTS151	Remote Test Station for
	APA151	APA151	Piezo Annunciator, audit green power LED, audib
	Annunciator	RTS2	Multi-signaling Duct Acc
Test S		AOS	Add on strobe for RTS2
IOKE		DST-1.5	Sampling Tube, 1 1/2 ft.
	=	207.0	0 11 71 0/1

SYSTEM	SENSOR	MODEL	D4120
---------------	---------------	-------	-------

- Duct-mounted design •
- Samples airstream for early detection of smoke in HVAC systems
- Includes exhaust tube
- sampling tube from accessory listing below
- ...\$172.00

Accessory	Description	Price Each
RTS151	Remote Test Station for testing remotely located smoke detector	\$51
APA151	Piezo Annunciator, audible signal appliance for alarm service, red alarm LED, green power LED, audible alarm	\$46
RTS2	Multi-signaling Duct Accessory with Audible Alarm	\$124
AOS	Add on strobe for RTS2	\$58
DST-1.5	Sampling Tube, 1 1/2 ft.	\$11
DST-3	Sampling Tube, 3 ft.	\$14
DST-5	Sampling Tube, 5 ft.	\$20

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FANS / DAMPERS / CURBS

DRIVES & STARTERS VARIABLE SPEED

DIFFUSERS / TRANSITIONS

REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS ACCESS DOORS / ACTUAT(

CEILING RADIATION DAMPERS



Fans / Dampers / Curbs

45

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

5/8

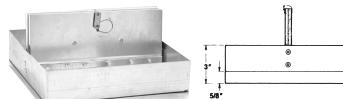
ELECTRIC HEATERS / FILTERS & ACCESSORIES

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MODEL CFD CEILING RADIATION DAMPER

- UL classified radiation dampers •
- 22 ga. galvanized blades with UL insulation •
- 20 ga. galvanized frame ٠

STANDARD FRAME



Model	Size*	Price Each
CFD3.5	6 x 6	\$49
CFD3.5	8 x 8	\$54
CFD2	9 x 9	\$62
CFD3.5	10 x 4	\$56
CFD3.5	10 x 6	\$58
CFD2	10 x 10	\$62
CFD2	12 x 6	\$56
CFD2	12 x 12	\$74
CFD2	15 x 15	\$93
CFD2	18 x 18	\$99
CFD4	21 x 21	\$140
CFD4	22 x 22	\$140
CFD4	24 x 24	\$150

*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"	\$59	CFDR2	12"	6 1/2"	\$87
CFDR3.5	8"	6 1/2"	\$64	CFDR2	14"	6 1/2"	\$97
CFDR3.5	10"	6 1/2"	\$70	CFDR2	16"	11 1/2"	\$109

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. **\$28.00 each**

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

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

EXTENDED FRAME



Model	Size*	Ext. Frame Height (H)	Price Each
CFD3.5	6 x 6	6"	\$56
CFD3.5	8 x 8	6"	\$61
CFD2	9 x 9	6"	\$73
CFD2	10 x 10	6"	\$73
CFD2	12 x 12	8"	\$87
CFD2	15 x 15	8"	\$109
CFD2	18 x 18	8"	\$116
CFD4	21 x 21	8"	\$164
CFD4	22 x 22	8"	\$164
*Extended Frames are ad	ctual size.		

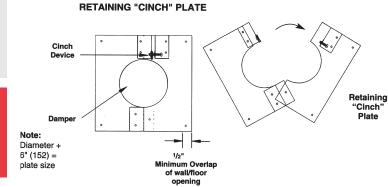
FIRE DAMPERS





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

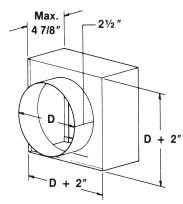


Collar Diameter (in.)	Sleeve Length	Price Each
6	14"	\$123
8	14"	\$140
10	14"	\$151
12	14"	\$164
14	14"	\$178
16	14"	\$192

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



Housing Size (in.)	Price Each
8 x 8	\$92
10 x 10	\$101
12 x 12	\$115
14 x 14	\$126
16 x 16	\$164
	8 x 8 10 x 10 12 x 12 14 x 14

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

Fans / Dampers / Curbs

DIFFUSERS / TRANSITIONS

REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

DAMPERS /LOUVERS / CCESS DOORS / ACTUATOR

Flexible DUCT / Snaplock & Acc.



ELECTRIC HEATERS / FILTERS & ACCESSORIES

STEAM SPECIALTIES



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	\$36	12 x 12	\$48
8 x 6	\$36	14 x 12	\$59
10 x 6	\$36	16 x 12	\$59
12 x 6	\$36	18 x 12	\$65
14 x 6	\$45	20 x 12	\$69
8 x 8	\$41	24 x 12	\$69
10 x 8	\$41	14 x 14	\$67
12 x 8	\$41	16 x 14	\$67
14 x 8	\$48	18 x 14	\$72
16 x 8	\$48	20 x 14	\$79
18 x 8	\$55	24 x 14	\$79
20 x 8	\$62	16 x 16	\$67
10 x 10	\$45	20 x 16	\$79
12 x 10	\$45	24 x 16	\$79
14 x 10	\$55	18 x 18	\$81
16 x 10	\$55	24 x 18	\$90
18 x 10	\$62	20 x 20	\$95
20 x 10	\$67	24 x 24	\$95

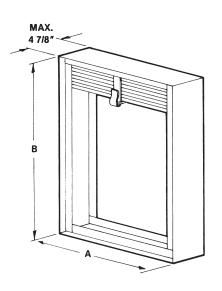
Note: Type IBD2A dampers are furnished 1/4" smaller than given duct dimensions.

VIBRATION ISOLATION

STEAM SPECIALTIES

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





*More Sizes and styles available.

See page 48.

CCESS DOORS / ACTUATOR DAMPERS / LOUVERS

Flexible DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & ACCESSORIES

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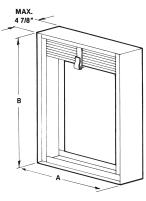
Fans / Dampers / Curbs

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

MODEL IBD2A & IBD2B HORIZONTAL PRICING

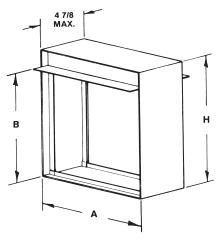
Style B prices are in bold print.

					WI	DTH II	N INCH	IES					
		12	16	20	24	28	32	36	40	44	48		
	6	61	77	101	101	115	127	131	139	147	155	6	
	0	71	90	118	118	133	147	152	161	170	179	U	
	8	69	81	107	107	123	131	139	151	155	163	8	
	0	80	94	124	124	142	152	161	175	179	189	0	
	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	Η
E	12	81	101	119	119	135	143	151	163	171	183	12	E
	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
H	10	113	133	156	156	175	184	193	207	221	235	10	H
Т	20	115	139	163	163	183	195	208	220	236	252	20	Τ
	20	133	161	189	189	212	226	241	255	274	293	20	
1	24	115	139	163	163	183	195	208	220	236	252	24	I.
Ν	24	133	161	189	189	212	226	241	255	274	293	24	Ν
	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
Ν	32	135	155	191	191	216	252	280	300	322	342	32	Ν
C	32	156	179	221	221	251	293	325	349	373	396	32	C
Н	36	143	163	203	203	236	280	318	342	366	390	36	н
E	30	166	189	235	235	274	325	368	396	424	452	30	E
s	40	151	171	216	216	252	300	342	366	390	415	40	s
	40	175	198	251	251	293	349	396	424	452	481	40	
	44	159	183	228	228	272	322	366	390	415	439	44	
	44	184	212	265	265	316	373	424	452	481	509	44	
	40	171	195	244	244	292	342	390	415	439	463	40	
	48	198	226	283	283	339	396	452	481	509	537	48	

	WIDTH IN INCHES												
		12	16	20	24	28	32	36	40	44	48		
	c	42	53	69	69	78	86	89	94	100	105	c	
	6	51	65	85	85	96	106	110	116	123	130	6	
	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	
H	10	65	78	96	96	110	113	123	130	137	143	10	H
E	12	55	69	81	81	92	97	102	111	116	124	12	Ε
I.	12	68	85	100	100	113	120	127	137	143	154	12	Т
G	10	66	78	92	92	102	108	113	122	130	138	10	G
H	16	82	96	113	113	127	133	140	150	160	170	16	H
T	20	78	94	111	111	124	133	141	150	161	171	20	Τ
	20	96	116	137	137	154	164	175	185	198	212	20	
I.	24	78	94	111	111	124	133	141	150	161	171	24	I.
Ν	24	96	116	137	137	154	164	175	185	198	212	24	Ν
	28	86	100	124	124	133	152	166	177	188	202	28	
I.	20	106	123	154	154	164	188	205	219	232	249	20	T
Ν	32	92	105	130	130	147	171	191	204	219	232	32	Ν
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
E	30	120	137	170	170	198	235	267	287	307	327	30	Е
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	44	
	40	116	133	166	166	199	232	265	282	299	315	40	
	48	143	164	205	205	246	287	327	349	369	389	48	

MODEL IBD2A & IBD2B VERTICAL PRICING

Style B prices are in bold print.



Model IBD2B

Available in Dynamic Consult your Hoffman & Hoffman Salesperson for pricing Detailed drawings and installation instructions available at www.ruskin.com

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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Fans / Dampers / Curbs

DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

VARIABLE SPEED

ELECTRIC HEATERS / FILTERS & ACCESSORIES

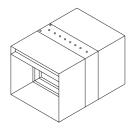
VIBRATION ISOLATION

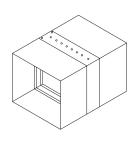
FIRE DAMPERS-QUICK SHIP-24 HOURS



MODEL IBD20A & B INTEGRAL SLEEVE FIRE DAMPER

- No additional sleeve needed in most installations
- $1^{1/2}$ 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

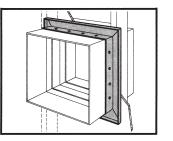
Style B prices are in bold print.

					WIDTI	H IN II	ICHES				
		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
	•	100	117	153	153	177	188	200	217	223	•
	8	111	130	170	170	196	209	222	241	248	8
H	10	111	135	165	165	188	194	211	223	234	10
E	10	124	150	183	183	209	215	235	248	260	10
	10	117	146	171	171	194	205	217	234	246	10
G	12	130	162	190	190	215	228	241	260	273	12
H	10	140	165	194	194	217	229	240	258	275	10
T.	16	156	183	215	215	241	254	267	286	305	16
	00	165	165 200 234 234 263 28	281	300	317	340	00			
	20	183	222	260	260	293	312	333	352	378	20
Ν	04	165	200	234	234	263	281	300	317	340	
	24	183	222	260	260	293	312	333	352	378	24
I.	00	182	211	263	263	281	323	352	375	398	00
Ν	28	203	235	293	293	312	359	391	416	442	28
C		194	223	275	275	311	363	404	433	463	
H	32	215	248	305	305	346	404	449	481	514	32
E		205	234	292	292	340	404	457	492	527	
s	36	228	260	325	325	378	449	508	547	585	36
	40	217	246	311	311	363	433	492	527	561	40
	40	241	273	346	346	404	481	547	585	624	40
		229	263	328	328	392	463	527	561	598	
	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.

					-						-	-
					WIDTI	H IN IN	ICHES					
		12	16	20	24	28	32	36	40	44		
	•	69	87	114	114	128	142	146	155	164		
	6	78	99	130	130	147	162	167	177	188	6	
	•	78	91	119	119	137	146	155	169	173	•	1
	8	89	104	136	136	157	167	177	193	198	8	
Н	40	87	105	128	128	146	151	164	173	182	10	ŀ
E	10	99	120	147	147	167	172	188	198	208	10	E
1	10	91	114	133	133	151	160	169	182	191	10	
G	12	104	130	152	152	172	183	193	208	219	12	6
Н	10	109	128	151	151	169	178	187	200	214	16	ŀ
T	16	125	147	172	172	193	203	213	229	244	10	1
	20	128	155	182	182	205	218	233	246	264	20	1
1		147	177	208	208	234	250	266	282	302	20	
Ν	24	128	155	182	182	205	218	233	246	264	24	Ν
	24	147	177	208	208	234	250	266	282	302	24	
1	28	142	164	205	205	218	251	273	291	309	28	
Ν	20	162	188	234	234	250	287	313	333	354	20	Ν
C	32	151	173	214	214	242	282	314	336	360	32	0
Н	32	172	198	244	244	277	323	359	385	412	32	ŀ
Е	36	160	182	227	227	264	314	356	383	410	36	E
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	
	44	203	234	292	292	349	412	468	499	531		



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

Fans / Dampers / Curbs

Variable speed Drives & Starters

> REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / Hot water coils

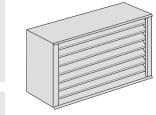
SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

Consult your Hoffman & Hoffman Salesperson for pricing

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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	\$163		
LBV168	16 x 7 3/4	\$182		

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	\$90
EX128	12 x 7 3/4	\$104
EX157	15 5/8 x 7 3/4	\$124

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	\$90
FL128	12 x 7 3/4	\$104
FL1212	12 x 11 3/4	\$128
FL157	15 5/8 x 7 3/4	\$124

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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FANS / DAMPERS / CURBS

VARIABLE SPEED DRIVES & STARTERS

> REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

FLEXIBLE DUCT / SNAPLOCK & ACC.

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

STEAM SPECIALTIES

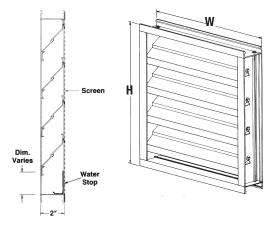
STATIONARY ALUMINUM LOUVERS



MODEL ELF211 THINLINE STATIONARY LOUVER

- Extruded aluminum construction
- 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.



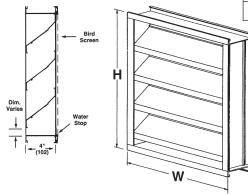


Size W x H	Free Area (Ft ²)	Price Each
12 x 12	0.26	\$173
18 x 12	0.45	\$195
24 x 12	0.76	\$214

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	\$237	30 x 30	2.59	\$496
24 x 18	0.93	\$271	36 x 30	3.15	\$550
24 x 24	1.49	\$298	36 x 36	3.85	\$596
30 x 24	1.90	\$328	42 x 42	5.18	\$729
36 x 24	2.31	\$362	48 x 48	7.10	\$866



NOTES — ALL LOUVERS:

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

FLEXIBLE DUCT / SNAPLOCK & ACC.

> SPIRAL PIPE & ACCESSORIES

STEAM SPECIALTIES

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Fans / Dampers / Curbs

Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

LOUVERS – 72 HOUR SHIPMENT



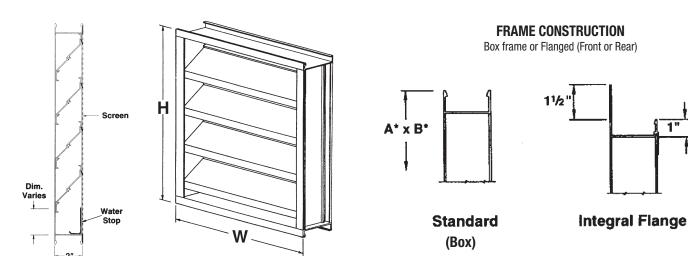
MODEL ELF211, 2" DEEP LOUVERS AVAILABLE FOR SHIPMENT FROM THE FACTORY IN 72 HOURS.

- 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	221	249	274	298	324	346	376	482	517	12	
	16	249	277	308	339	367	398	439	563	607	16	
H E	20	274	308	346	383	420	451	498	644	694	20	H E
l G	24	292	336	380	423	467	507	560	722	781	24	l G
H	28	402	464	526	588	647	716	787	803	868	28	H
1	32	426	501	572	638	706	781	862	877	958	32	
I N	36	461	536	616	691	769	843	937	958	1043	36	I N
	40	491	579	660	741	824	909	1008	1036	1127	40	
Ν	44	498	598	678	809	856	940	1046	1111	1213	44	N
C H	48	542	631	725	818	915	1005	1117	1186	1298	48	C H
E S	52	576	675	775	874	980	1073	1195	1263	1379	52	E S
	56	616	722	818	931	1046	1142	1269	1338	1453	56	
	60	654	765	874	987	1102	1213	1338	1416	1537	60	

ORDERING INSTRUCTIONS

SCREEN: front a rear bird insect FRAME: box front flange * Add 40% To Cost Of Louver For Flange* SIZE: width____ height____ actual size deduct 1/4" a



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

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATOI

FLEXIBLE DUCT / SNAPLOCK & ACC.

> SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

STEAM SPECIALTIES

Fans / Dampers / Curbs

LOUVERS – 72 HOUR SHIPMENT



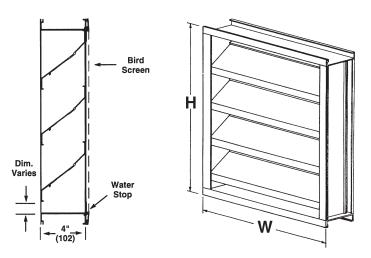
MODEL GFL800D, 4" DEEP LOUVERS AVAILABLE FOR SHIPMENT FROM THE FACTORY IN 72 HOURS.

- 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	180	196	218	239	258	277	302	383	414	12	
	16	196	221	242	271	295	314	349	445	482	16	
H E	20	218	242	277	305	333	361	395	513	551	20	H E
l G	24	233	268	305	336	370	405	445	572	619	24	l G
Н	28	317	367	420	467	513	566	625	638	691	28	H
T	32	339	398	454	507	563	619	684	697	762	32	
I N	36	364	426	488	548	610	669	744	762	828	36	l N
	40	392	461	526	588	657	722	800	821	896	40	
N	44	395	476	542	607	681	747	831	883	965	44	N
C H	48	429	501	576	650	728	797	887	943	1030	48	C H
E S	52	458	539	613	694	781	850	949	1002	1092	52	E S
->	56	488	572	650	738	831	906	1008	1064	1151	56	
	60	520	607	694	784	874	965	1064	1124	1217	60	

ORDERING INSTRUCTIONS

SCREEN: front a rear bird insect FRAME: box front flange *Add 40% To Cost Of Louver For Flange* SIZE: width____ height____ actual size deduct 1/4" a



FRAME CONSTRUCTION Box frame or Flanged (Front or Rear)

FLANGE

(BOX)

VIBRATION ISOLATION

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

Fans / Dampers / Curbs

Variable speed Drives & Starters

ACCESS DOORS



DIFFUSERS / TRANSITIONS

REGISTERS / GRILLES /

VAV TERMINALS / HOT WATER COILS

DAMPERS /LOUVERS / (CCESS DOORS / ACTUATOR

FLEXIBLE DUCT / SNAPLOCK & ACC.

Fans / Dampers / Curbs



MODEL ADC-14 CAM-TYPE ACCESS DOOR

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

Nominal Size	Price Each	Nominal Size	Price Each
6" x 6"	\$16	14" x 14"	\$29
8" x 8"	\$17	16" x 16"	\$35
10" x 10"	\$20	18" x 18"	\$40
12" x 12"	\$22	24" x 24"	\$60

MODEL ADH-14 HINGED ACCESS DOOR

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

Nominal Size	Price Each	Nominal Size	Price Each
6" x 6"	\$16	14" x 14"	\$29
8" x 8"	\$17	16" x 16"	\$35
10" x 10"	\$20	18" x 18"	\$40
12" x 12"	\$22	24" x 24"	\$60

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	\$82
8-10	3 x 7	4 x 8	\$82
12-14	7 x 11	8 x 12	\$108
16-18	7 x 11	8 x 12	\$108
20-24 11 x 15		12 x 16	\$151



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SPIRAL PIPE & ACCESSORIES

> ELECTRIC HEATERS / FILTERS & ACCESSORIES

STEAM SPECIALTIES

VIBRATION ISOLATION

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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"	\$76
12 x 12	12 3/8 x 12 3/8	14 5/8 x 14 5/8	1 1/2"	\$95
18 x 18	18 3/8 x 18 3/8	20 5/8 x 20 5/8	1 1/2"	\$117
24 x 24	24 3/8 x 24 3/8	26 5/8 x 26 5/8	1 1/2"	\$226

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"	\$185
12 x 12	12 3/8 x 12 3/8	14 x 14	2 9/16"	\$193
18 x 18	18 3/8 x 18 3/8	20 x 20	2 9/16"	\$254
24 x 24	24 3/8 x 24 3/8	26 x 26	2 9/16"	\$318

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"	\$40
12 x 12	12 1/4 x 12 1/4	14 x 14	1 1/2"	\$48
18 x 18	18 1/4 x 18 1/4	20 x 20	1 1/2"	\$71
24 x 24	24 1/4 x 24 1/4	26 x 26	1 1/2"	\$102





Variable speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

Dampers / Louvers / Access Doors / Actuators

SPIRAL PIPE & Accessories

STEAM SPECIALTIES

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.**

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories



Inside Dimension Inches	Price per 25' Length	Inside Dimension Inches	Price per 25' Length
6	\$144	14	\$289
8	\$174	16	\$345
10	\$203	18	\$424
12	\$240		
NS300 – 1-3/4 IN X 300 FT HANGING NOVA STRAP\$26			

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	\$204	12	\$345
8	\$247	14	\$406
10	\$295	16	\$483
NS300 – 1-3/4 IN X 300 FT HANGING NOVA STRAP\$26			

ELECTRIC HEATERS / FILTERS & ACCESSORIES

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	\$90	12	\$157
8	\$110	14	\$169
10	\$134		
NS300 – 1-3/4 IN X 300 FT HANGING NOVA STRAP\$26			

FANS / DAMPERS / CURBS

VARIABLE SPEED DRIVES & STARTERS

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	\$65	14	\$144
8	\$77	16	\$166
10	\$97	18	\$192
12	\$120	20	\$236
NS300 - 1 3/4 in x 300 ft Hanging NOVA Strap\$26			



SPIRAL PIPE & ACCESSORIES



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	\$79	12	\$143
8	\$97	14	\$165
10	\$116	16	\$198
NS300 - 1 3/4 in x 300 ft Hanging NOVA Strap\$26			

ELECTRIC HEATERS / FILTERS & ACCESSORIES

STEAM SPECIALTIES

Fans / Dampers / Curbs



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	\$20
8	7 7/8	7	\$23
10	9 7/8	7	\$27
12	11 7/8	7	\$32
14	13 7/8	7	\$34
16	15 7/8	7	\$43
18	17 7/8	7	\$59

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	\$26
8	7 7/8	7	\$29
10	9 7/8	7	\$33
12	11 7/8	7	\$38
14	13 7/8	7	\$41
16	15 7/8	7	\$50
18	17 7/8	7	\$67

ELECTRIC HEATERS / FILTERS & ACCESSORIES

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	\$35
8	7 7/8	13	6 x 12	\$40
10	9 7/8	13	8 x 14	\$47
12	11 7/8	13	10 x 16	\$56
14	13 7/8	13	12 x 18	\$65
16	15 7/8	13	14 x 20	\$75

Fans / Dampers / Curbs

> 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

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

VIBRATION ISOLATION

SNAPLOCK PIPE AND ACCESSORIES



SNAPLOCK PIPE

Size	Description	Price Each
4	4" 5FT 26 GA	\$16
6	6" 5FT 26 GA	\$21
8	8" 5FT 26 GA	\$27
10	10" 5FT 26 GA	\$32
12	12" 5FT 26 GA	\$39
14	14" 5FT 26 GA	\$47



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	\$23

Fans / Dampers / Curbs

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REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS





TAKEOFFS

Model	Size	Description	Price Each
ATD	4	4" Takeoff with Damper	\$14
ATD	6	6" Takeoff with Damper	\$13
ATD	8	8" Takeoff with Damper	\$15
ATD	10	10" Takeoff with Damper	\$22
ATD	12	12" Takeoff with Damper	\$28
ATD	14	14" Takeoff with Damper	\$33
ATSD	4	4" Takeoff with Damper & Scoop	\$24
ATSD	6	6" Takeoff with Damper & Scoop	\$24
ATSD	8	8" Takeoff with Damper & Scoop	\$26
ATSD	10	10" Takeoff with Damper & Scoop	\$34
ATSD	12	12" Takeoff with Damper & Scoop	\$47
ATSD	14	14" Takeoff with Damper & Scoop	\$58



END CAPS

Size	Description	Price Each
4	4" 28 GA End Cap	\$9
6	6" 28 GA End Cap	\$10
8	8" 28 GA End Cap	\$11
10	10" 28 GA End Cap	\$13
12	12" 28 GA End Cap	\$15
14	14" 28 GA End Cap	\$17

SNAPLOCK PIPE ACCESSORIES

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS



TEES

Size	Description	Price Each
4	4" 26 GA Tee	\$31
6	6" 26 GA Tee	\$34
8	8" 26 GA Tee	\$43
10	10" 26 GA Tee	\$49
12	12" 26 GA Tee	\$50
14	14" 26 GA Tee	\$56



WYES

Size

4

6

8

10

12

14

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	\$27
12	12" 28 GA Wye	\$41
14	14" 28 GA Wye	\$55

Fits Duct

Sizes

8-20

10-20

12-16

12-18

16-20

16-22

Price Each

\$14

\$14

\$17

\$27

\$31

\$37

AIR-TITE STICK-ON SADDLE



SPIRAL PIPE & ACCESSORIES

STEAM SPECIALTIES



ACCESSORIES

· Round takeoff to round metal duct

• 26 gauge galvanized construction

• Includes damper and hand quadrant

• Polyethylene cross-linked fire

retardant gasket1 1/2" gasket and flange

Model	Description	Price Each
SUPERSEAL 1	UL 181-B 1 Gallon Duct Sealant	\$38
BB2	2 Inch Bristle Brush	\$3
BB3	3 Inch Bristle Brush	\$4
PPT10X1/2	Pro Point Screw (1000 Per Bucket)	\$61
PPT10X3/4	Pro Point Screw (1000 Per Bucket)	\$61
PPT10X1	Pro Point Screw (1000 Per Bucket)	\$63
DCL516	2 5/8" Long Chuck For 5/16" Hex Head	\$14

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FANS / DAMPERS / CURBS

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"	\$4.50	12"	\$8.00
6"	\$5.00	14"	\$9.00
8-9"	\$6.00	16"	\$9.00
10"	\$7.00	18"	\$10.00
		20"	\$10.00



- 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
\$.56	\$.55	\$.54



MODEL DIT-2 TENSIONING TOOL

- Heavy duty construction
- · Mechanical advantage assures tight clamping action

Model	Price Each
DIT-2	\$87



ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION

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Fans / Dampers / Curbs

TAPE AND SEALANTS

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS



DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS





ELECTRIC HEATERS / FILTERS & ACCESSORIES

z



STEAM SPECIALTIES

Shurtape

SI

SF 686

rtape

🖲 Shur<mark>tape</mark>

(UL)

181B-FX

Shurtape[®]

DUCT TAPE

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

Model	W x L	Price Each
PC857-2	2" x 60 yards	\$34
PC857-3	3" x 60 yards	\$50
AF100-A-2.5	2.5" x 60 yards	\$40

MASTIC TAPE

• SF686 Mastic Tape UL 181-B-FX

Model	W x L	Price Each
SF686-2	2" x 100 ft.	\$61
SF686-3	3" x 100 ft.	\$81

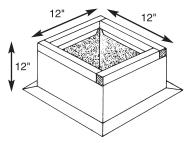
DYN-O-WRAP

- 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-0-WRAP	\$52

FANS / DAMPERS / CURBS

PIPE PORTAL SYSTEMS



Model RC-12

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	\$77
CC Curb Cover	\$99

Model CC

C-126

		Cap Model	Accommodates Pipe Sizes	Pı
		C-126 (1 pipe)	Single pipe 2" thru 6"	
G-212	6-481	C-212 (4 pipe)	Two pipes 3/8" thru 1" Two pipes 1" thu 2"	
6-212	U-401	C-481 (4 pipe)	Four pipes 3/8" thru 1"	

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	\$113



Model	Price Each
Alumi-Flash	\$113

VIBRATION	
ISOLATION	

Fans / Dampers / Curbs

Variable speed Drives & Starters

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

Flexible Duct / Snaplock & Acc.

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

rice Each

\$93

\$93

\$93



- Single wall spiral duct
- All fittings have factory installed gaskets
- Galvanized steel construction (ASTMA 527)
- Prices DO NOT include freight



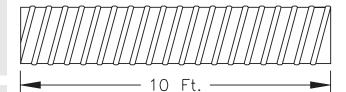
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

Flexible DUCT / Snaplock & Acc.

SPIRAL PIPE ACCESSORIES

ELECTRIC HEATERS / FILTERS & ACCESSORIES

VIBRATION ISOLATION



Diameter + 4'

STRAIGHT PIPE 10 FT. LENGTHS

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Per 10 Ft. Length
ESSP3	3	8.1	26	\$33
ESSP4	4	10.8	26	\$42
ESSP5	5	13.5	26	\$51
ESSP6	6	16.2	26	\$57
ESSP8	8	21.6	26	\$74
ESSP10	10	27.0	26	\$92
ESSP12	12	32.4	26	\$109
ESSP14	14	37.8	26	\$126
ESSP16	16	43.2	26	\$153
ESSP18	18	48.6	26	\$171
ESSP20	20	54.0	26	\$189
ESSP22	22	59.4	26	\$208
ESSP24	24	64.8	26	\$229

BELLMOUTH

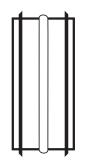
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PBT4	4	0.4	26	\$33
PBT5	5	0.5	26	\$33
PBT6	6	0.6	26	\$36
PBT8	8	0.8	26	\$38
PBT10	10	1.1	26	\$44
PBT12	12	1.3	26	\$46
PBT14	14	2.6	26	\$105
PBT16	16	2.9	26	\$123
PBT18	18	3.3	26	\$140
PBT20	20	3.5	24	\$156
PBT22	22	3.9	24	\$181
PBT24	24	4.2	24	\$194

STEAM SPECIALTIES

FANS / DAMPERS / CURBS

VARIABLE SPEED DRIVES & STARTERS





PIPE COUPLING

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PCPT3	3	0.3	26	\$18
PCPT4	4	0.4	26	\$18
PCPT5	5	0.5	26	\$18
PCPT6	6	0.5	26	\$18
PCPT8	8	0.7	26	\$18
PCPT10	10	0.9	26	\$20
PCPT12	12	1.1	26	\$21
PCPT14	14	1.3	26	\$22
PCPT16	16	1.4	26	\$24
PCPT18	18	1.6	26	\$24
PCPT20	20	2.3	24	\$30
PCPT22	22	2.5	24	\$32
PCPT24	24	2.7	24	\$32

FITTING COUPLING

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
FCPT3	3	0.3	26	\$5
FCPT4	4	0.4	26	\$5
FCPT5	5	0.5	26	\$5
FCPT6	6	0.5	26	\$6
FCPT8	8	0.7	26	\$6
FCPT10	10	0.9	26	\$7
FCPT12	12	1.1	26	\$7
FCPT14	14	1.3	26	\$8
FCPT16	16	1.4	26	\$9
FCPT18	18	1.6	26	\$9
FCPT20	20	2.3	24	\$15
FCPT22	22	2.5	24	\$16
FCPT24	24	2.7	24	\$17

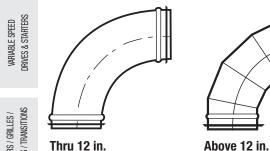


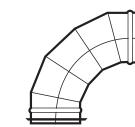
VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

STEAM SPECIALTIES







90 DEGREE ELBOW

45 DEG. ELBOW

Duct

Diameter

3

4

5

6

8

10

12

14

16

18

20

22

24

Part

Number

PE45T3

PE45T4

PE45T5

PE45T6

PE45T8

PE45T10

PE45T12

E45T14

E45T16

E45T18

E45T20

E45T22

E45T24

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PE90T3	3	1.1	26	\$49
PE90T4	4	1.7	26	\$51
PE90T5	5	2.5	26	\$57
PE90T6	6	3.4	26	\$61
PE90T8	8	5.5	26	\$75
PE90T10	10	8.2	26	\$98
PE90T12	12	11.1	26	\$119
E90T14	14	12.0	26	\$135
E90T16	16	15.3	26	\$166
E90T18	18	19.1	26	\$204
E90T20	20	29.7	24	\$265
E90T22	22	42.9	24	\$303
E90T24	24	50.0	24	\$358

Wt. Each

(lbs.)

0.6

1.0

1.4

1.8

3.0

4.4

6.0

6.6

8.4

10.3

16.0

19.0

22.3

Ga.

26

26

26

26

26

26

26

26

26

26

24

24

24

Price Each

\$45

\$46

\$48

\$49

\$57

\$70

\$79

\$84

\$101

\$115

\$149

\$169

\$184

DIFFUSERS / TRANSITIONS REGISTERS / GRILLES /

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FANS / DAMPERS / CURBS

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS



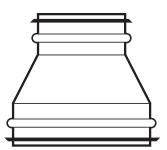
ELECTRIC HEATERS / FILTERS & ACCESSORIES

Thru 12 in.

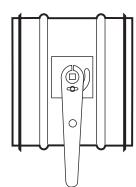


Above 12 in.





<u>CONCENT</u>	<u>RIC REDU</u>	<u>CER</u>		
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PRDT43	4 to 3	0.4	26	\$33
PRDT53	5 to 3	0.6	26	\$33
PRDT54	5 to 4	0.6	26	\$33
PRDT64	6 to 4	0.9	26	\$36
PRDT65	6 to 5	0.8	26	\$36
PRDT86	8 to 6	1.4	26	\$39
PRDT106	10 to 6	2.0	26	\$45
PRDT108	10 to 8	1.8	26	\$45
PRDT128	12 to 8	2.5	26	\$48
PRDT1210	12 to 10	2.2	26	\$49
RDT148	14 to 8	4.9	26	\$84
RDT1410	14 to 10	4.7	26	\$85
RDT1412	14 to 12	4.9	26	\$89
RDT1610	16 to 10	5.7	26	\$92
RDT1612	16 to 12	5.4	26	\$93
RDT1614	16 to 14	5.7	26	\$96
RDT1812	18 to 12	6.5	26	\$100
RDT1814	18 to 14	6.1	26	\$100
RDT1816	18 to 16	6.4	26	\$103
RDT2014	20 to 14	9.4	24	\$118
RDT2016	20 to 16	8.7	24	\$118
RDT2018	20 to 18	9.2	24	\$121
RDT2216	22 to 16	10.4	24	\$126
RDT2218	22 to 18	9.7	24	\$127
RDT2220	22 to 20	10.1	24	\$132
RDT2418	24 to 18	11.5	24	\$135
RDT2420	24 to 20	10.7	24	\$137
RDT2422	24 to 22	10.9	24	\$141



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	\$62
DT8	8	2.5	22	\$66
DT10	10	2.9	22	\$72
DT12	12	3.4	22	\$76
DT14	14	3.8	22	\$81

ELECTRIC HEATERS / FILTERS & ACCESSORIES

Fans / Dampers / Curbs



PRESSED	TAP				
Part Number	Tap Diameter	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PFTCT44	4	4	0.4	26	\$27
PFTCT46	4	6	0.4	26	\$27
PFTCT48	4	8	0.4	26	\$27
PFTCT410	4	10	0.5	26	\$27
PFTCT412	4	12	0.5	26	\$27
PFTCT66	6	6	0.8	26	\$29
PFTCT68	6	8	0.8	26	\$29
PFTCT610	6	10	0.8	26	\$29
PFTCT612	6	12	0.8	26	\$29
PFTCT614	6	14	0.8	26	\$29
PFTCT616	6	16	0.8	26	\$29
PFTCT88	8	8	1.2	26	\$33
PFTCT810	8	10	1.2	26	\$33
PFTCT812	8	12	1.2	26	\$33
PFTCT814	8	14	1.2	26	\$33
PFTCT816	8	16	1.2	26	\$33
PFTCT818	8	18	1.2	26	\$33
PFTCT820	8	20	1.2	24	\$33
PFTCT822	8	22	1.2	24	\$33
PFTCT824	8	24	2.1	24	\$33
PFTCT1010	10	10	2.1	26	\$42
PFTCT1012	10	12	2.1	26	\$42
PFTCT1014	10	14	2.1	26	\$42
PFTCT1016	10	16	2.1	26	\$42
PFTCT1018	10	18	2.1	26	\$42
PFTCT1020	10	20	2.1	24	\$42
PFTCT1022	10	22	2.1	24	\$42
PFTCT1024	10	24	2.1	24	\$42
PFTCT1212	12	12	2.7	26	\$45
PFTCT1214	12	14	2.7	26	\$45
PFTCT1216	12	16	2.7	26	\$45
PFTCT1218	12	18	2.7	26	\$45
PFTCT1220	12	20	2.7	24	\$45
PFTCT1222	12	22	2.7	24	\$45
PFTCT1224	12	24	2.7	24	\$45

Variable Speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / Hot water coils

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

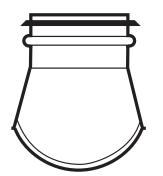
Flexible duct / Snaplock & Acc.

> & SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES

Fans / Dampers / Curbs





CONICAL	TAP				
Part Number	Tap Diameter	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
FTCT1414	14	14	11.5	26	\$54
FTCT1416	14	16	12.7	26	\$54
FTCT1418	14	18	13.9	26	\$54
FTCT1420	14	20	19.3	24	\$54
FTCT1422	14	22	20.8	24	\$54
FTCT1424	14	24	22.4	24	\$54
FTCT1616	16	16	13.8	26	\$57
FTCT1618	16	18	15.1	26	\$57
FTCT1620	16	20	20.9	24	\$57
FTCT1622	16	22	22.5	24	\$57
FTCT1624	16	24	24.2	24	\$57
FTCT1818	18	18	16.2	26	\$61
FTCT1820	18	20	22.5	24	\$61
FTCT1822	18	22	24.3	24	\$61
FTCT1824	18	24	26.0	24	\$61

CONICAL TAD

END CAP

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Thru 12 in.

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Above 12 in.

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
PECT3	3	0.3	26	\$35
PECT4	4	0.4	26	\$35
PECT5	5	0.6	26	\$38
PECT6	6	0.7	26	\$38
PECT8	8	1.0	26	\$38
PECT10	10	1.4	26	\$48
PECT12	12	1.8	26	\$48
ECT14	14	2.6	26	\$57
ECT16	16	3.1	26	\$65
ECT18	18	3.7	26	\$69
ECT20	20	5.5	24	\$80
ECT22	22	6.4	24	\$86
ECT24	24	7.3	24	\$92

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Y-BRANCH					
Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each	
YT3	3	1.6	26	\$77	
YT4	4	2.4	26	\$84	
YT5	5	3.3	26	\$92	
YT6	6	4.4	26	\$100	
YT8	8	6.8	26	\$119	
YT10	10	9.8	26	\$142	
YT12	12	13.3	26	\$164	
YT14	14	17.4	26	\$189	
YT16	16	22.0	26	\$215	
YT18	18	27.1	26	\$243	
YT20	20	41.7	24	\$307	
YT22	22	49.5	24	\$346	
YT24	24	58.0	24	\$401	

T	C	C
	E	C

Part Number	Duct Diameter	Wt. Each (lbs.)	Ga.	Price Each
TT3	3x3x3	1.4	26	\$53
TT4	4x4x4	2	26	\$56
TT5	5x5x5	3	26	\$60
TT6	6x6x6	3.2	26	\$63
TT8	8x8x8	4.5	26	\$72
TT10	10x10x10	6	26	\$80
TT12	12x12x12	7.8	26	\$90
TT14	14x14x14	9.6	26	\$105
TT16	16x16x16	11.7	26	\$116
TT18	18x18x18	13.9	26	\$127
TT20	20x20x20	20.8	24	\$182
TT22	22x22x22	24.1	24	\$196
TT24	24x24x24	27.6	24	\$213

VARIABLE SPEED FANS / DAMPERS / DRIVES & STARTERS CURBS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

SPIRAL PIPE & Accessories

STEAM SPECIALTIES

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.





XP Loop Hanger



Duct Trapeze Loop Hanger



Cutter



Tensioning 1	Tool
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Part Number	Description	Length	* Price Per Hanger
HF02-5	Loop Hanger Size 2 100 lbs	5 ft	\$11
HF02-10	Loop Hanger Size 2 100 lbs	10 ft	\$13
HF02-15	Loop Hanger Size 2 100 lbs	15 ft	\$15
HF02-20	Loop Hanger Size 2 100 lbs	20 ft	\$17
HF02-30	Loop Hanger Size 2 100 lbs	30 ft	\$22
HF03-5	Loop Hanger Size 3 200 lbs	5 ft	\$14
HF03-10	Loop Hanger Size 3 200 lbs	10 ft	\$16
HF03-15	Loop Hanger Size 3 200 lbs	15 ft	\$18
HF03-20	Loop Hanger Size 3 200 lbs	20 ft	\$21
HF03-30	Loop Hanger Size 3 200 lbs	30 ft	\$26
XP02-10	Loop Hanger Size 2 100 lbs with Button	10 ft	\$15
XP02-20	Loop Hanger Size 2 100 lbs with Button	20 ft	\$19
DT2-LG-10	Duct Trapeze Loop Hanger 100 lbs	10 ft	\$15
DT2-LG-15	Duct Trapeze Loop Hanger 100 lbs	15 ft	\$17
DT2-LG-20	Duct Trapeze Loop Hanger 100 lbs	20 ft	\$19
DT2-LG-30	Duct Trapeze Loop Hanger 100 lbs	30 ft	\$24
HF-SG-3/8-N0 2	Stud Hanger Size 2 100 lbs	10 ft	\$14
HF-SG-3/8-NO 2	Stud Hanger Size 2 100 lbs	15 ft	\$16
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	10 ft	\$17
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	15 ft	\$19
HF-SG-3/8-NO 3	Stud Hanger Size 3 200 lbs	30 ft	\$27
Cutter	Wire Rope Cutter		\$47
T00L-4-5BX	Tensioning Tool		\$157

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

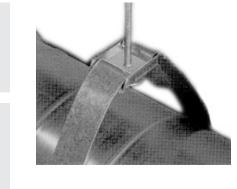
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DYNA-TITE CABLE SYSTEM



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	\$8
CL23	Cable Lock	WC6	\$12
KV12	Bracket Assembly with CL12	WC3	\$7
WC3	3/32" Wire Rope 500 Ft. Roll	150 lb	\$261
WC4	1/8" Wire Rope 500 Ft. Roll	250 lb	\$293
WC6	3/16" Wire Rope 250 Ft. Roll	640 lb	\$347



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	\$16
C1042	4" Blast Gate	\$19
C1062	6" Blast Gate	\$30
C1082	8" Blast Gate	\$49
C10102	10" Blast Gate	\$84
C10122	12" Blast Gate	\$108

STEAM SPECIALTIES

Fans / Dampers / Curbs

VARIABLE SPEED DRIVES & STARTERS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

DAMPERS /LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

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Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

ELECTRIC HEATERS By Markel



V5100

VERTICAL MOUNT BRACKET

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.

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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	\$870
HF2B5105	3.7/5.0	12.8/17.1	208/240	208/240	3/1	\$932
HF2B5107CA1	5.6/7.5	19.2/25.6	208/240	24	3/1	\$1401
HF2B5110CA1	7.5/10.0	25.6/34.1	208/240	24	3/1	\$1544
G1G5103	3.3	11.2	277	277	1	\$870
G1G5105	5.0	17.1	277	277	1	\$909
P3P5103CA1	3.3	11.2	480	24	3	\$1109
P3P5105CA1	5.0	17.1	480	24	3	\$1204
P3P5107CA1	7.5	25.6	480	24	3	\$1511
P3P5110CA1	10.0	34.1	480	24	3	\$1601
P3P5115CA1	15.0	51.2	480	24	3	\$2583
P3P5120CA1	20.0	68.3	480	24	3	\$3409
Notes:						

votes:

24-volt control units are supplied with low voltage control transformer and contactor.
 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	\$133
A5120	Horizontal Mounting Bracket	7.5 - 20 KW Heaters	\$153
V5105	Vertical Mounting Bracket	3.3 - 5.0 KW Heaters	\$256
V5120	Vertical Mounting Bracket	7.5 - 20 KW Heaters	\$316
T5100	Field installed internal t'stat	for all except HF2B5103, 05 3 ph	\$162
T5102	Field installed internal t'stat	HF2B5103,05 3 ph	\$219
TW1512	HD line voltage wall t'stat	3 phase heaters	\$256
S2022H10AB	Line voltage wall t'stat	1 phase heaters	\$47
RK120EAA	Low voltage wall t'stat	24V control units	\$26
DCS202/5100	Power Disconnect Switch	2 Pole; 20 AMP; 120-277 VAC	\$113
DCS403/5100	Power Disconnect Switch	3 Pole; 40 AMP; 120-600 VAC	\$214
DCS603/5100	Power Disconnect Switch	3 Pole; 60 AMP; 600 VAC	\$299

MARKEL FAN FORCED ELECTRIC WALL HEATERS

A5100 Wall Bracket

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

SPIRAL PIPE & ACCESSORIES

ELECTRIC HEATERS / ILTERS & ACCESSORIES

STEAM SPECIALTIES

• ·	Heater and wall box are packed and shipped leeve available for surface mounting.	ł

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"



Model	KW	BTUH	Voltage/Phase	Price Each
E3323	1.5	5120	120/1	\$813
HF3323	1.125/1.5	3840/5120	208/240/1	\$828
HF3324	1.5/2.0	5120/6284	208/240/1	\$828
HF3325	2.25/3.0	7763/10,350	208/240/1	\$828
HF3326	3.0/4.0	10,350/13,800	208/240/1	\$828
G3324	2.0	6284	277/1	\$827
G3325	3.0	10,350	277/1	\$827
G3326	4.0	13,800	277/1	\$827

ACCESSORIES

Model	Description	Price Each
3320EX33	Surface Mounting Sleeve	\$119
3310	Rough-In Box For Advance Installation	\$127

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

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Fans / Dampers / Curbs

Variable speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VAV TERMINALS / HOT WATER COILS

AIR FILTRATION

VARIABLE SPEED DRIVES & STARTERS





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	\$6
16 x 20 x 2	15 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	12	\$6
20 x 20 x 2	19 ¹ / ₂ x 19 ¹ / ₂ x 1 ³ / ₄	12	\$7
16 x 25 x 2	16 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	12	\$7
20 x 25 x 2	19 ¹ / ₂ x 24 ¹ / ₂ x 1 ³ / ₄	12	\$8
12 x 24 x 2	11 ³ /8 x 23 ³ /8 x 1 ³ /4	12	\$6
24 x 24 x 2	23 ³ / ₈ x 23 ³ / ₈ x 1 ³ / ₄	12	\$8
12 x 24 x 4	11 ³ /8 x 23 ³ /8 x 3 ³ /4	12	\$9
24 x 24 x 4	23 ³ / ₈ x 23 ³ / ₈ x 3 ³ / ₄	6	\$15

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	\$91
95PH	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	1	\$129

FILTER MEDIA ROLLS

Nominal Size	Description	Price Each
24 X 90 X ³ / ₄	Merv 7 Filter Media Roll	\$89
36 X 90 X ³ / ₄	Merv 7 Filter Media Roll	\$130
60 X 90 X 1	Merv 8 Filter Media Roll	\$247

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

FANS / DAMPERS / CURBS

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	\$41
24 x 24	\$45

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	\$2
WF611	Up or Down	4" deep filter	4	\$3
PFC-2	Up	2" deep 30% as a prefilter to a cartridge (no header)	4	\$2
PFC-4	Up	4" deep 30% as a prefilter to a cartridge (no header)	4	\$2
PCA-2	Up or Down	2" deep filter	4	\$3
PCA-3	Up or Down	2" deep 30% as a prefilter to a cartridge	4	\$3
PCA-4	Up or Down	4" deep filter	4	\$3
PCA-5	Up or Down	4" deep 30% as a prefilter to a cartridge	4	\$3
12611	Up or Down	12" cartridge without prefilter	4	\$6

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"	\$133
2002	0 - 2.0"	\$133
2006	0 - 6.0"	\$133
A-605	N/A	\$83

MANOMETERS

Dury

DWYER MARK II MOLDED PLASTIC MANOMETER

 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	Range .05 - 3"	\$91
A-310A	3-way vent valve (2 per gauge)	\$40
A-101	Red Gauge Oil, .826 sp. gr.	\$19



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Variable Speed Drives & Starters

SIDE ACCESS FILTER HOUSINGS

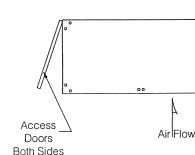


- Unprecedented versatility and ease of maintenance
- Two stage filtration using pleated pre-filters and high efficiency rigid filters
- Constructed of durable 16 ga. galvanized construction for indoor or outdoor installation
- Pressure capability up to 3 in. WG positive or negative
- Access doors on 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

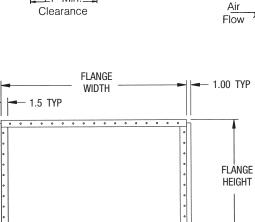
DIMENSIONAL DATA AND PRICES

Model	Actual Size	Prefilters Required Per Unit	Cartridge Filters Required Per Unit	Price Each	S T 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	\$943	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	\$1291	G

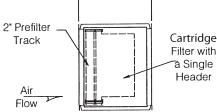
_27" Min







FRONT VIEW



22.5"



STEAM SPECIALTIES

FANS / DAMPERS / CURBS

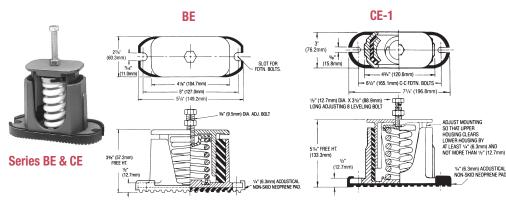
VAV TERMINALS / Hot water coils

SPIRAL PIPE & ACCESSORIES

electric heaters / Filters & Accessories

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	\$76
CE-1	D120-D510	\$104
CE-1	D675-D1360	\$115

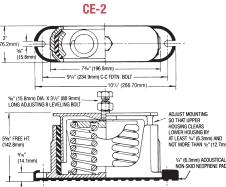
Note: See Spring Chart on page 78 for maximum load.

VAV TERMINALS / HOT WATER COILS

DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

• 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	\$162			
CE-2	D675-D1360	\$183			
Note: Cas Caring Chart on page 70 for maximum load					

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

SPIRAL PIPE & ACCESSORIES

STE
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TIES

• 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.

• Type ASC is a free-standing, laterally stable spring mounting with built-in leveling bolt.



Series ASC



TYPE ASC TYPE ASCB S"-DIA. BHOLES "E" CAP SCREW EQUIPMENT BASE "D" ADJUSTMENT BOLT Ø SPRING DIAMETER Ø Ø FREE HEIGHT Ø Ø Ø Ø Ø Ø Ø Ø NEOPRENE ACOUSTICAL CUP STEEL PLATE "T" D' DIA. HOLE IN CENTER OF CUP FOR FASTENING TO FLOOR IF REQUIRED

Price Each
\$50
\$58

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

ASC & ASCB Dimensions: in. (mm)

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"	1/8"	3 ¹ /2"	⁷ /16"	¹ /2"

Prices subject to change without notice. All shipments are FOB Hoffman Warehouse, freight prepaid and added to invoice.

Fans / Dampers / Curbs

Variable speed Drives & Starters

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

VIBRATION MOUNTINGS

A

F

SPRING-FLEX HANGERS

MODEL HS SPRING-FLEX HANGERS

– Dia Hole

Max Rod (Not provided) — Steel Washer — Resilient Washer

Note: Hanger Rods & Nuts not provided

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.

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.



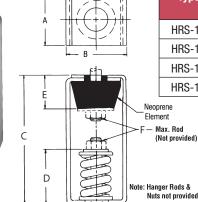
VAV TERMINALS / HOT WATER COILS

DAMPERS /LOUVERS / ACCESS DOORS / ACTUATORS

STEAM SPECIALTIES



MODEL HRS



Туре	Spring Size	Price Each
HRS-1B	B20-B85	\$37
HRS-1C	C50-C370	\$57
HRS-1D	D120-D510	\$87
HRS-1D	D675-D1360	\$98

HRS Dimensions: in. (mm)

TYPE & SIZE	А	В	C	D	E	F
HRS-1B-B20-B85	2 ¹ /4"	2 ³ /4"	5 ¹ /4"	2 ⁷ /8"	¹⁵ /16"	³ /8"
ПКЗ-1D-D20-D03	(75.0)	(69.8)	(133.3)	(73.0)	(23.8)	(9.5)
HRS-1C-C50-C370	3"	3 ¹ /4"	7"	3"	1 ¹¹ /16"	⁵ /8"
HRS-16-650-6370	(76.2)	(95.2)	(177.8)	(76.2)	(47.8)	(15.8)
HRS-1D-D120-D1360	3"	3 ³ /4"	10"	4 ³ /8"	2 ¹ /8"	³ /4"
1113-10-0120-01300	(76.2)	(95.2)	(254.0)	(111.0)	(53.9)	(19.0)

HS Dimensions: in. (mm)

TYPE & SIZE	A	В	C	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)

Spring Size	Price Each
B20-B85	\$27
C50-C370	\$38
D120-D510	\$49
D675-D1360	\$60
	B20-B85 C50-C370 D120-D510

UNIV	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		

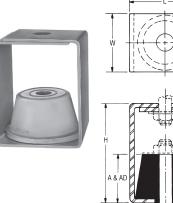
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Fans / Dampers / Curbs

> VARIABLE SPEED DRIVES & STARTERS

NEOPRENE-IN-SHEAR HANGERS



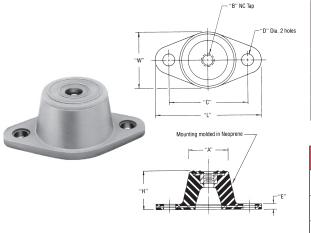
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H	"C" DIA. HANGER ROD
A & AD	(NOT PROVIDED)

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	\$15
HR-B		170 lbs	240 lbs	380 lbs	\$42

HR Dimensions: in. (mm)

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

NEOPRENE-IN-SHEAR MOUNTINGS



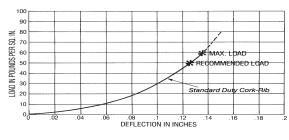
Туре	Max Load Blue	Max Load Black	Max Load Red	Max Load Green	Max Load Gray	Price Eac
R-1	35 lbs	45 lbs	70 lbs	120 lbs		\$24
R-2	135 lbs	170 lbs	240 lbs	380 lbs		\$26
R-3		250 lbs	525 lbs	750 lbs	1100 lbs	\$60

R Dimensions: in. (mm)

Туре	L	w	H	А	В	C	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)

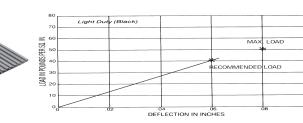
ELASTOMERIC & SHEAR-FLEX PADS





ELASTOMERIC PADS

Size	Price Each
18" x 18" x 1"	\$210
6" x 6" x 1"	\$24
4" x 4" x 1"	\$11
2" x 2" x 1"	\$3



SHEAR-FLEX PADS

Size	Price Each
18" x 18" x 3/8"	\$123

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Variable Speed Drives & Starters

SPIRAL PIPE & ACCESSORIES

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SPIRAX SARCO PRESSURE REDUCING VALVES

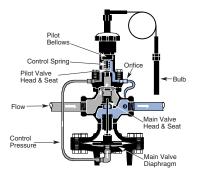
25 SERIES PILOT & TEMPERATURE OPERATED REGULATORS

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.



<u> </u>	PRESSURE PILOT				
	Pressure Pilot Type	Downstream Pressure	Price Each		
	25-P Yellow	3-30 psig	\$879		
	25-P Blue	20-100 psig	\$879		
	25-P Red	80-250 psig	\$879		

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 main diaphragm.

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.



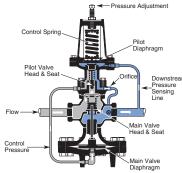
MAIN VALVE

Main Valve Type	Size	Price Each
	1/2"	\$1301
	3/4"	\$1415
25	1"	\$1594
25	1 1/4"	\$1948
	1 1/2"	\$2402
	2"	\$3095

TEMPERATURE PILOT

	Temperature Pilot Type	Temperature Range	Price Each
		100-160°F	\$2087
	T2	120-180°F	\$2087
		160-220°F	\$2087

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.

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FANS / DAMPERS / CURBS

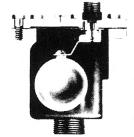
DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

FLEXIBLE DUCT / SNAPLOCK & ACC.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES

SPIRAX SARCO 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"	\$346

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

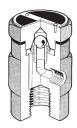
Size	Price Each	Size	Price Each
3/8"	\$83	1 1/4"	\$102
1/2"	\$61	1 1/2"	\$121
3/4"	\$69	2"	\$188
1"	\$78		



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"	\$293
VS-204	1/2"	\$445



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"	\$250
VB21-Stainless	1/2"	\$500

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.

REGISTERS / GRILLES / VAV TERMINALS / DIFFUSERS / TRANSITIONS HOT WATER COLLS



FANS / DAMPERS /

CURBS

Variable speed Drives & Starters

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"	\$366
1/2"	\$541
3/4"	\$692
1"	\$932

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"	\$373	FT-30	3/4"	\$463	FT-75	1"	\$709
FT-15	1"	\$460	FT-30	1"	\$504	FT-75	1 1/4"	\$1086
FT-15	1 1/4"	\$559	FT-30	1 1/2"	\$958	FT-75	1 1/2"	\$1097
FT-15	1 1/2"	\$790	FT-30	2"	\$1667	FT-125	3/4"	\$635
FT-15	2"	\$1492	FT-75	3/4"	\$630	FT-125	1"	\$709

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"	\$258
B2-125	3/4"	\$540



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"	\$540

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.

FANS / DAMPERS / CURBS

REGISTERS / GRILLES / DIFFUSERS / TRANSITIONS

Variable Speed Drives & Starters

VAV TERMINALS / HOT WATER COILS

> DAMPERS / LOUVERS / ACCESS DOORS / ACTUATORS

Flexible DUCT / Snaplock & Acc.

SPIRAL PIPE & Accessories

ELECTRIC HEATERS / FILTERS & ACCESSORIES



HOFFMAN & HOFFMAN, INC.

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 services.

1. <u>Controlling Terms & Conditions</u>: 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 be 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 acknowledgment 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 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's acceptance of all or any part of any goods ordered will constitute Buyer's acceptance of H&H's proposal and H&H's Terms and Conditions. If thereafter Buyer 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. If thereafter Buyer of all or any part of any goods ordered will constitute Buyer's acceptance of H&H's proposal and H&H's Terms and Conditions. If thereafter Buyer of all or any part of any goods ordered will constitut

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, but prior to 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 to the contrary, H&H shall not release any 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 set off against any amounts which become payable to H&H under this Agreement or otherwise. So withstanding any Buyer form or document to the co

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. <u>Approval</u>: 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. <u>Warranties and Liability</u>: 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

6. <u>Warranties and Liability</u>: 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, AND UNDER NO CIRCUMSTANCES SHALL H&H BE LIABLE TO BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITVE, 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 or services.

7. Limitation of Remedy: 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 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 cleint of Buyer or to any other third party.
8. <u>Hzards</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.

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.

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 indemnify herein shall not negate, abridge or reduce other such rights or obligations und rate or orisions whether deemed 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

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 reasonable control.

12. <u>Cancellations / Returns</u>: 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 connection 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. <u>Government Contracts / Disadvantaged Business Entities:</u> 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.

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