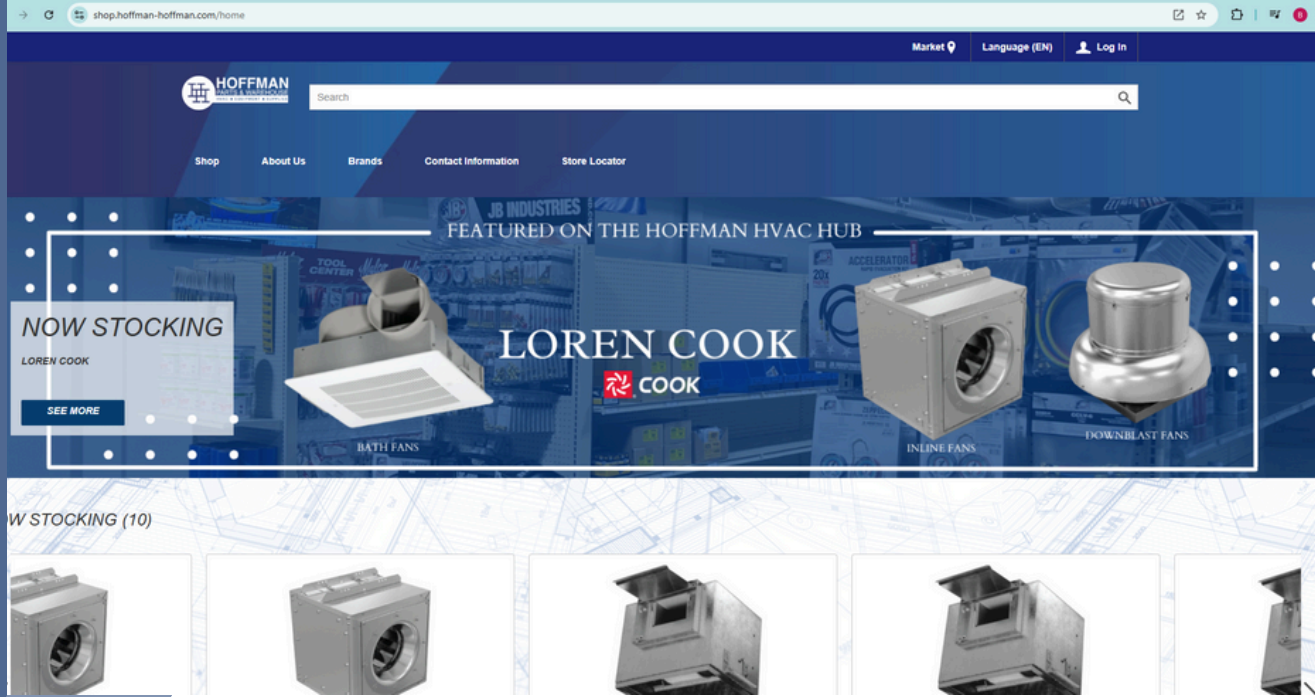




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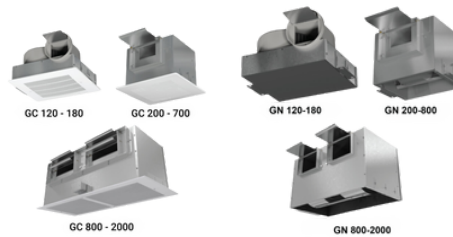
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CEILING AND INLINE EXHAUST FANS



GEMINI GC SERIES CEILING FANS

- Direct driven
- Centrifugal exhaust
- Galvanized stamped steel integral motor mount/inlet
- Aluminum backdraft damper



Item #	Series	CFM .125"	Speed Controller	Discharge Type	Input Watts	Dimensions L x W x H
		CFM				
LCGC-128	GC-120	79	LCSC-5	6"	28	15-1/2x12x8-3/8
LCGC-148	GC-140	142	LCSC-5	6"	48	15-1/2x12x8-3/8
LCGC-166	GC-160	155	LCSC-5	6"	51	15-1/2x12x8-3/8
LCGC-186	GC-180	225	LCSC-5	6"	94	15-1/2x12x8-3/8
LCGC-222	GC-200	111	LCSC-5	6" x 4.5"	25	12-3/8x9-3/4x9-3/4
LCGC-342	GC-300	249	LCSC-5	8" x 6"	85	12-3/8x10-3/4x10-3/4
LCGC-422	GC-422	295	LCSC-5	8" x 6"	115	17x11-7/8x11-7/8
LCGC-542	GC-500	376	LCSC-5	8" x 6"	141	17x11-7/8x11-7/8
LCGC-642	GC-600	576	LCSC-5	10.5" x 4.75"	206	17x11-7/8x11-7/8
LCGC-740	GC-700	814	LCSC-5	10.5" x 4.75"	374	17x11-7/8x11-7/8
LCGC-862	GC-800	1353	LCSC-5	20" x 6"	450	27x14-11/16x14-11/16
LCGC-960	GC-900	1691	LCSC-10	20" x 6"	1	31x14-11/16x14-11/16
LCGCVF-300	GCVF-300	150	EC	8" x 6"	2	12-3/8x10-3/4x10-3/4

GEMINI GN SERIES INLINE FANS

Item #	Series	CFM .125"	Speed Controller	Discharge Type	Input Watts	Dimensions L x W x H
		CFM				
LCGN-126	GN-120	48	LCSC-5	5-15/16	29	14x12x8-3/8
LCGN-148	GN-140	142	LCSC-5	5-15/16	48	14x12x8-3/8
LCGN-166	GN-160	155	LCSC-5	5-15/16	51	14x12x8-3/8
LCGN-186	GN-180	225	LCSC-5	5-15/16	94	14x12x8-3/8
LCGN-222	GN-200	111	LCSC-5	4-1/2	25	12-3/8x9-3/4x9-11/16
LCGN-322	GN-300	217	LCSC-5	6	85	12-3/8x10-7/8x10-11/16
LCGN-422	GN-422	295	LCSC-5	6	115	17x12x11-15/16
LCGN-542	GN-500	376	LCSC-5	6	141	17x12x11-15/16
LCGN-642	GN-600	576	LCSC-5	4-3/4	206	17x12x11-15/16
LCGN-740	GN-700	814	LCSC-5	4-3/4	374	17x12x11-15/16
LCGN-822	GN-800	924	LCSC-5	6	450	27x14-11/16x14-11/16
LCGN-940	GN-900	1564	LCSC-10	6	442	31x14-11/16x14-11/16

ROOF MOUNTED EXHAUST FANS



MODEL ACED - ROOF MOUNTED - DIRECT DRIVE

- Downblast centrifugal design with aluminum base
- Includes NEMA 1 disconnect
- Backdraft damper NOT included (See Cook accessories)
- AMCA certified and UL listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/H</u> <u>z</u>	<u>Base</u>
LCACED-70C15DH	ACED	247	0.125	1/20	1550	5.1	115/1/60	18
LCACED-90C15DH	ACED	643	0.25	1/8	1550	8.9	115/1/60	18
LCACED-120C17DEC	ACED-EC	1350	0.25	1/2	1463	11.4	115/1/60	20
LCACED-120C15D	ACED	1527	0.25	1/4	1550	12.4	115/1/60	20
LCACED-135C17DEC	ACED-EC	1995	0.25	3/4	1417	13.9	115/1/60	20
LCACED-135C15D	ACED	2215	0.25	1/2	1550	15.9	115/1/60	20
LCACED-150C16DEC	ACED-EC	2720	0.25	1	1388	16.8	115/1/60	24

MODEL ACEB - ROOF MOUNTED - BELT DRIVE

- Downblast centrifugal design with aluminum base
- Includes NEMA 1 disconnect
- Backdraft damper NOT included (See Cook accessories)
- AMCA certified and UL listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>Base</u>
LCACEB70C3B	ACEB	333	0.25	1/4	1725	12.9	115/1/60	18
LCACEB-80C4B	ACEB	720	0.25	1/3	1725	12.4	115/1/60	18
LCACEB100C3B	ACEB	795	0.25	1/4	1599	9.7	115/1/60	18
LCACEB120C3B	ACEB	1050	0.25	1/4	1153	7.5	115/1/60	20
LCACEB-120C4B	ACEB	1560	0.25	1/3	1578	12.7	115/1/60	20
LCACEB-135C4B	ACEB	1900	0.25	1/3	1358	13.0	230/1/60	20
LCACEB-150C5B	ACEB	2350	0.25	1/2	1224	13.8	230/1/60	24
LCACEB-165C5B	ACEB	2840	0.25	1/2	1112	13.6	230/1/60	24
LCACEB-165C6B	ACEB	3390	0.25	3/4	1296	18.5	230/1/60	24
LCACEB-195C7B	ACEB	4400	0.25	1	1018	16.8	230/3/60	30
LCACEB-210C7B	ACEB	4930	0.25	1	918	16.1	260/3/60	30
LCACEB-270C7B	ACEB	6160	0.25	1	551	10.3	230/3/60	36
LCACEB-330C7B	ACEB	7650	0.25	1	394	8.2	230/3/60	42
LCACEB-330C9B	ACEB	10200	0.25	2	489	13.5	230/3/60	42

ROOF MOUNTED EXHAUST FANS



MODEL ACRUD - ROOF MOUNTED - DIRECT DRIVE

- Upblast centrifugal design with aluminum base
- Includes NEMA 1 disconnect
- Backdraft damper NOT included (See Cook accessories)
- AMCA certified and UL 705 listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>Base</u>
LCACRUD-70R15DH	ACRUD	209	0.125	1/20	1550	6.4	115/1/60	18
LCACRUD-90R10DH	ACRUD	348	0.125	1/25	1050	4.3	115/1/60	18
LCACRUD-101R11D	ACRUD	558	0.125	1/3	1140	5.7	115/1/60	18
LCACRUD-101R15D	ACRUD	807	0.125	1/8	1550	9.8	115/1/60	18
LCACRUD-120R17DEC	ACRUD-EC	1005	0.25	1/2	1162	8.7	115/1/60	20

WALL MOUNTED EXHAUST FAN



MODEL ACWD - WALL MOUNT - DIRECT DRIVE

- Wall mount centrifugal design with aluminum base
- Includes NEMA 1 disconnect
- Mounting flange with keyslots and latches
- AMCA certified and UL 705 listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>E*</u>
LCACWD-70W15DH	ACWD	209	0.125	1/20	1550	6.4	115/1/60	8
LCACWD-90W10DH	ACWD	348	0.125	1/25	1050	4.3	115/1/60	10
LCACWD-90W15DM	ACWD	525	0.125	1/8	1550	9.8	115/1/60	10
LCACWD-100W15DH	ACWD	724	0.125	1/8	1550	9.6	115/1/60	10
LCACWD-120W17DEC	ACWD-EC	1005	0.25	1/2	1162	8.7	115/1/60	12

ROOF MOUNTED EXHAUST FANS



MODEL VCR - ROOF MOUNTED - BELT DRIVE - UL 762 RESTAURANT

- Upblast centrifugal design with aluminum base
- Includes NEMA 3 disconnect
- Backdraft damper not included
- PVC grease tube
- Motor and disconnect to be wired for dual voltage
- AMCA certified and UL 762 listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>Base</u>
LCVCR-120V3B	VCR	1300	0.25	1/4	1419	12.8	230/1/60	20
LCVCR-135V5B	VCR	2000	0.25	1/2	1483	17.7	230/1/60	20

MODEL VCRD - ROOF MOUNTED - DIRECT DRIVE - UL 762 RESTAURANT

- Upblast centrifugal design with aluminum base
- Includes NEMA 3 disconnect
- Backdraft damper not included
- PVC grease tube
- Motor and disconnect to be wired for dual voltage
- AMCA certified and UL 762 listed

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>Base</u>
LCVCRD-120V17DEC	VCRD-EC	1373	0.25	1/2	1478	13.6	230/1/60	20
LCVCRD-135V17DEC	VCRD-EC	1923	0.25	3/4	1394	16.1	230/1/60	20
LCVCRD-150V16DEC	VCRD-EC	2671	0.25	1	1392	19.9	230/1/60	24



WALL MOUNTED EXHAUST FANS



MODEL VCRD - WALL MOUNT - DIRECT DRIVE - UL 762 RESTAURANT

- Wall mount centrifugal design with aluminum base
- Includes NEMA 3 disconnect
- Backdraft damper
- PVC grease tube
- Motor and disconnect to be wired for dual voltage
- AMCA certified and UL 762 listed

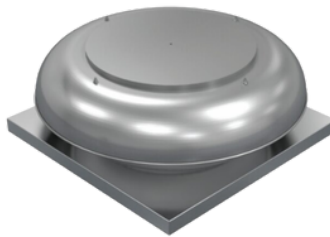
<u>Item #</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones</u>	<u>Volt/PH/Hz</u>	<u>Base</u>
LCVCRD-120V17DEC-SW	1373	0.25	1/2	1478	13.6	230/1/60	20
LCVCRD-135V17DEC-SW	1923	0.25	3/4	1394	16.1	230/1/60	20
LCVCRD-150V16DEC-SW	2671	0.25	1	1392	19.9	230/1/60	24

MODEL PR ROOF MOUNTED GRAVITY VENTILATION

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>Base</u>
LCPR8	PR	247	0.05	18
LCPR12	PR	519	0.05	20
LCPR16	PR	917	0.05	28
LCPR20	PR	1423	0.05	32
LCPR24	PR	2049	0.05	36

MODEL PRF FLAT BASE GRAVITY VENTILATION

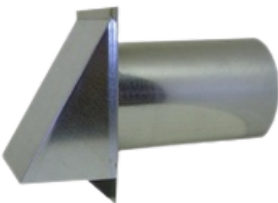
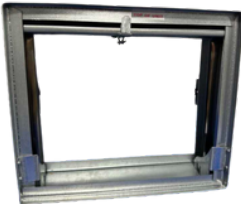
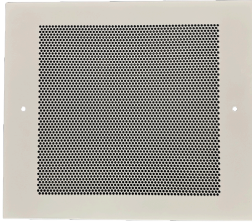
<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>
LCPRF8	PRF	247	0.05
LCPRF12	PRF	519	0.05
LCPRF16	PRF	917	0.05
LCPRF20	PRF	1423	0.05



BACKDRAFT DAMPERS

<u>Item #</u>	<u>Size</u>	<u>Description</u>
LCBDI-12	12x12	Intake Only BackDraft Damper for Use with LCPR8 Model
LCBDI-14	14x14	Intake Only BackDraft Damper for Use with LCPR12 Model
LCBDI-22	22x22	Intake Only BackDraft Damper for Use with LCPR16 Model
LCBDI-26	26x26	Intake Only BackDraft Damper for Use with LCPR20 Model
LCBDI-30	30x30	Intake Only BackDraft Damper for Use with LCPR24 Model

LOREN COOK ACCESSORIES



Item #	Description
LC615144	Optional Steel Grille for Gemini 200 & 300 Series Fans
LC615146	Standard Steel Grille for Gemini 400,500,600 & 700 Series Fans
LC615192	Optional Steel Grille for Gemini 100 Series Fans
LC615196	Standard Poly Grille for Gemini 100, 200 & 300 Series Fans
LC719296	Standard Steel Grille for Gemini 800 Series Fans
LC719297	Standard Steel Grille for Gemini 900 Series
LCBD-8	8x8 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-10	10x10 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-12	12x12 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-14	14x14 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-16	16x16 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-18	18x18 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-22	22x22 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-24	24x24 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-26	26x26 Backdraft Damper for ACED, ACEB, ACRUD & VCR Models
LCBD-30	30x30 Backdraft Damper ofr ACED, ACEB, ACRUD & VCR Models
LC125716	Control Harness Required with EC Motors to Accept 0-10C DC Signal
LC715473	Motorpack to Convert Backdraft Damper into Motorized Damper

Item #	Description
LCSC-5	FSC 5 AMP 120 Volt Speed Controller
LCSC-10	FSC 10 AMP 120 Volt Speed Controller
LCCR-1	CRD-1 Ceiling Radiation Damper for Gemini 100 Series Fans
LCCR-2	CRD-2 Ceiling Radiation Damper for Gemini 200 Series Fans
LCCR-3	CRD-3 Ceiling Radiation Damper for Gemini 300 Series Fans
LCCR-4	CRD-4 Ceiling Radiation Damper for Gemini 400-700 Series Fans
LCRDC-6	RDA-6 Round Duct Adaptor for Gemini 200-300 Series
LCRDC-8	RDA-8 Round Duct Adaptor for Gemini 200-500 Series
LCHV-KIT	GIK Gemini Isolator Kit for Gemini 100-700 Series Fans
LCWCG-2	WCG-2 Wall CAP for Gemini 200-500 Series
LCWCG-6	WCG-6 Wall Cap Galvanized SQ Neck for Gemini 600-700 Series
LCWCG-8	WCG-8 Wall Cap Galvanized SQ Neck for Gemini 800 Series
LCTimeDelaySW	Time Delay Switch for Gemini 100 through 900 Series Fans
LCWC-6	Cook WCR-6 Round Wall Cap
LCWC-8	Cook WCR-8 Round Wall Cap
LCRJ200	RJ200 Roof Jack for Gemini 200-500 Series Fans
LCRJ100	RJR100 Roof Jack for Gemini 100 Series Fans
LCGREASE	Grease Terminator Canister for VCR Models
AMDWVA4	Artis Metal 4" Wall Cap
AMSDWVA6	Artis Metal 6" Wall Cap
AMSDWVA8	Artis Metal 8" Wall Cap

SIDEWALL FANS

MODEL XWD SIDEWALL PROPELLER WALL FAN

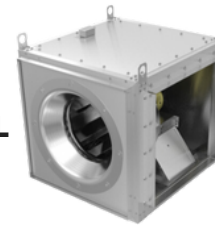


Item #	Model	CFM	SP	HP	Fan RPM	Sones	Volt/PH/Hz	BHP
LC8XW28D15	8XWD	173	0.125	0.013	1550	8.9	115/1/60	39.4W
LC10XW40D15	10XWD	752	0.125	1/8	1550	7.6	115/1/60	72W
LC12XW40D15	12XWD	1347	0.125	1/8	1550	9.7	115/1/60	167W
LC14XW32D152	14XWD	1921	0.125	1/4	1550	11.5	115/1/60	240W
LC16XW28D152	16XWD	2594	0.125	1/2	1550	16.6	115/1/60	409W
LC18XW34D152	18XWD	4107	0.125	3/4	1550	18.1	115/1/60	683W
LC20XW28D152	20XWD	4173	0.125	3/4	1550	20	115/1/60	674W



SIDEWALL PROPELLER XWD WALL FAN ACCESSORIES

Item #	Accessory	Cook Part	For Model	Related to Item #
LCGSS-10	Wall Damper	GSS-10 Damper	8XWD	LC8XW28D15
LCGSS-14	Wall Damper	GSS-14 Damper	10XWD	LC10XW40D15
LCGSS-14	Wall Damper	GSS-14 Damper	12XWD	LC12XW40D15
LCGSS-18	Wall Damper	GSS-18 Damper	14XWD	LC14XW32D152
LCGSS-18	Wall Damper	GSS-18 Damper	16XWD	LC16XW28D152
LCGSS-22	Wall Damper	GSS-22 Damper	18XWD	LC18XW34D152
LCGSS-22	Wall Damper	GSS-22 Damper	20XWD	LC20XW28D152
LCWC-8XWD	Wall Collar	785450	8XWD	LC8XW28D15
LCWC-10XWD	Wall Collar	785452	10XWD	LC10XW40D15
LCWC-12XWD	Wall Collar	785454	12XWD	LC12XW40D15
LCWC-14XWD	Wall Collar	785455	14XWD	LC14XW32D152
LCWC-16XWD	Wall Collar	785456	16XWD	LC16XW28D152
LCWC-18XWD	Wall Collar	785457	18XWD	LC18XW34D152
LCWC-20XWD	Wall Collar	785458	20XWD	LC20XW28D152
LCWG-8XWD	Wireguard-Motor Side	785550	8XWD	LC8XW28D15
LCWG-10/12XWD	Wireguard-Motor Side	785551	10XWD	LC10XW40D15
LCWG-10/12XWD	Wireguard-Motor Side	785551	12XWD	LC12XW40D15
LCWG-14/16XWD	Wireguard-Motor Side	785552	14XWD	LC14XW32D152
LCWG-14/16XWD	Wireguard-Motor Side	785552	16XWD	LC16XW28D152
LCWG-18XWD	Wireguard-Motor Side	785553	18XWD	LC18XW34D152
LCWG-20XWD	Wireguard-Motor Side	785553	20XWD	LC20XW28D152
LCWH-8XWD	Weather Hood 45 Degree	785422	8XWD	LC8XW28D15
LCWH-10XWD	Weather Hood 45 Degree	785424	10XWD	LC10XW40D15
LCWH-12XWD	Weather Hood 45 Degree	785426	12XWD	LC12XW40D15
LCWH-14XWD	Weather Hood 45 Degree	785428	14XWD	LC14XW32D152
LCWH-16XWD	Weather Hood 45 Degree	785430	16XWD	LC16XW28D152
LCWH-18XWD	Weather Hood 45 Degree	785432	18XWD	LC18XW34D152
LCWH-20XWD	Weather Hood 45 Degree	785434	20XWD	LC20XW28D152
LC120vMOTORPACK	Universal Motor Pack	715480	8-20 XWD	Convert Gravity to Motorized Shutters



MODEL SQND DIRECT DRIVE SQUARE CENTRIFUGAL

- Includes NEMA 1 disconnect
- BackDraft dampers unavailable for SQN Model fans

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones Inlet</u>	<u>Volt/PH/Hz</u>	<u>Sones Outlet</u>	<u>Fan Weight (lbs)</u>
LC90SQN17DEC	SQND-EC	405	0.25	1/6	1449	6.8	115/1/60	8.2	45
LC90SQN12D	SQN-D	479	0.25	1/6	1600	7.1	115/1/60	8.7	45
LCSQN90-15D	SQN-D	624	0.125	1/6	1550	8.2	115/1/60	10.1	45
LCSQN100-15D	SQN-D	830	0.25	1/6	1550	7.6	115/1/60	8.7	49
LC120SQN17DEC	SQND-EC	850	0.25	1/2	1058	5.5	115/1/60	6.3	59
LC120SQN17D	SQN-D	1646	0.25	1/2	1725	14.1	115/1/60	15.3	59
LC135SQN17DEC	SQND-EC	1818	0.25	3/4	1378	11.8	115/1/60	11.6	78

MODEL SQNB BELT DRIVE SQUARE CENTRIFUGAL

- Includes NEMA 1 disconnect
- BackDraft dampers unavailable for SQN Model fans

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>Fan RPM</u>	<u>Sones Inlet</u>	<u>Volt/PH/Hz</u>	<u>Sones Outlet</u>	<u>Fan Weight (lbs)</u>
LC70SQN-B	SQN-B	300	0.125	1/6	1651	8.5	115/1/60	12.8	80
LC80SQN-B	SQN-B	650	0.25	1/6	1717	8.3	115/1/60	11.0	80
LC100SQN-B	SQN-B	850	0.25	1/4	1746	8.3	115/1/60	10.3	80
LC120SQN-B	SQN-B	1300	0.25	1/4	1453	9.5	230/1/60	10.9	100
LC180SQN-B	SQN-B	4600	0.25	1.5	1286	19.3	230/3/60	19.6	200
LC195SQN-B	SQN-B	5900	0.25	2.0	1286	23.0	230/3/60	23.0	225

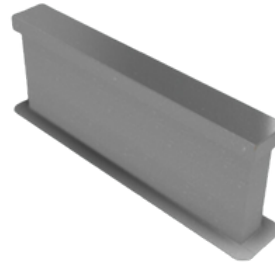
***For VMC Vibration Isolator information, refer to pages 70-72**
Refer to Universal Spring Charts on pg. 70 for Max Spring Load per Isolator*

CURBS AND EQUIPMENT RAILS

MODEL CPES-3 AND ER EQUIPMENT RAILS



Item #	Length	Height	Branch
CPES-3-2	2'	18"	CLT & GSO
CPES-3-3	3'	18"	CLT & GSO
CPES-3-4	4'	18"	CLT & GSO
CPES-3-6	6'	18"	CLT & GSO
ER-2	2'	12"	GSO
ER-3	3'	12"	GSO
ER-4	4'	12"	GSO
ER-6	6'	12"	GSO



MODEL CPC-3 ROOF CURBS - 18" TALL AVAILABLE AT CHARLOTTE/ROANOKE/RALEIGH/GREENSBORO

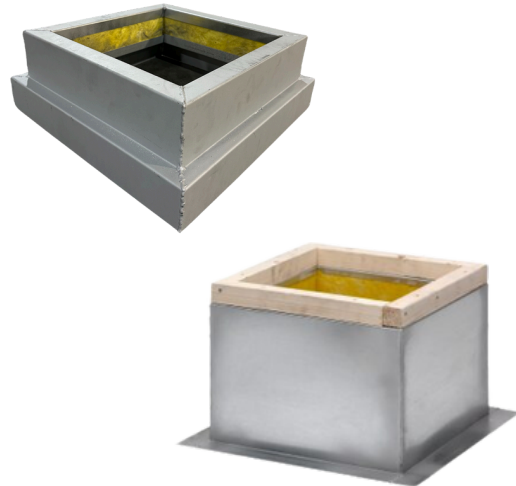
Item #	OD Dimensions	Base	For Models
CPC-3-12	12x12x18" Tall	12	Portals Model CC
CPC-3-15	13.5x13.5x18" Tall	15	GH Model RCC-7
CPC-3-16.5	15x15x18" Tall	16.5	TCF Model GRV 90
CPC-3-17	15.5x15.5x18" Tall	17	TCF VC 077/083/098/112/120-95/120-99, BCRD 070 GH G 060/070/080/090/095, CUE 070
CPC-3-18	16.5x16.5x18" Tall	18	LC ACEB 70/80/90/100, PR8, ACRUB 100, ACRUD 70/90/100/101, ACED 70/90/100/101,
CPC-3-19	17.5x17.5x18" Tall	19	GH G 099/103/123/133, GB 071/081/101/121/131, CUBE 101/121, CUE 080/090/095/101/121, GRS8,10
CPC-3-20	18.5x18.5x18" Tall	20	LC ACEB 120/135, PR12, ACRUB 120/135, ACRUD120/135, ACED 120/135 - TCF DCRD 120, BCRD 100/120
CPC-3-22	20.5x20.5x18" Tall	22	GH G 143, GB 141/161, CUBE 141/161, CUE 141, GRS12,15
CPC-3-24	22.5x22.5x18" Tall	24	LC ACEB 150/165, ACRUB 150, ACED 150, ACRUD 150, ACED 150/165 - TCF DCRD 130/140, BCRD 140, VCUB 122/140, GRV 120/160
CPC-3-26	24.5x24.5x18" Tall	26	GH GRS16
CPC-3-28	26.5x26.5x18" Tall	28	LC PR 16
CPC-3-30	28.5x28.5x18" Tall	30	LC ACEB 180/245 - TCF BCRD 180/210 - GH GB 180/200, CUBE 180/200 - GH GRS18, 20
CPC-3-32	30.5x30.5x18" Tall	32	LC PR20
CPC-3-34	32.5x32.5x18" Tall	34	TCF BCRD 240 - GH GB 240, CUBE 240 - GH GRS 24
CPC-3-36	34.5x34.5x18" Tall	36	LC PR24, ACRUB 270/300
CPC-3-40	38.5x38.5x18" Tall	40	TCF BCRD 300 - GH GB 300, CUBE 300
CPC-3-46	44.5x44.5x18" Tall	46	TCF BCRD 360

CURBS AND EQUIPMENT RAILS



FAN CURB ADAPTORS

<u>Item #</u>	<u>Height</u>	<u>Base to Base</u>
GH850616	8"	19" to 17"
GH850618	8"	22" to 19"
GH823055	8"	26" to 22"
CPT-1-17	8"	17" to 18"
CPT-1-19	8"	19" to 20"
CPT-1-22	8"	22" to 20"



MODEL ER ROOF CURBS - 12" TALL AVAILABLE AT GREENSBORO & COLUMBIA BRANCH

<u>Item #</u>	<u>OD Dimensions</u>	<u>Base</u>	<u>For Models</u>
RC12	12x12x12" Tall	12	Portals Model CC
RC15	13.5x13.5x12" Tall	15	GH Model RCC-7
RC17	15.5x15.5x12" Tall	17	TCF VC 077/083/098/112/120-95/120-99, BCRD 070 GH G 060/070/080/090/095, CUE 070
RC18	16.5x16.5x12" Tall	18	LC ACEB 70/80/90/100, PR8, ACRUB 100, ACRUD 70/90/100/101, ACED 70/90/100/101,
RC19	17.5x17.5x12" Tall	19	GH G 099/103/123/133, GB 071/081/101/121/131, CUBE 101/121, CUE 080/090/095/101/121, GRS8,10
RC20	18.5x18.5x12" Tall	20	LC ACEB 120/135, PR12, ACRUB 120/135, ACRUD120/135, ACED 120/135 - TCF DCRD 120, BCRD 100/120
RC22	20.5x20.5x12" Tall	22	GH G 143, GB 141/161, CUBE 141/161, CUE 141, GRS12,15
RC24	22.5x22.5x12" Tall	24	LC ACEB 150/165, ACRUB 150, ACED 150, ACRUD 150, ACED 150/165 - TCF DCRD 130/140, BCRD 140, VCUB 122/140, GRV 120/160
RC26	24.5x24.5x12" Tall	26	GH GRS16
RC28	26.5x26.5x12" Tall	28	LC PR 16
RC30	28.5x28.5x12" Tall	30	LC ACEB 180/245 - TCF BCRD 180/210 - GH GB 180/200, CUBE 180/200 - GH GRS18, 20
RC32	30.5x30.5x12" Tall	32	LC PR20
RC34	32.5x32.5x12" Tall	34	TCF BCRD 240 - GH GB 240, CUBE 240 - GH GRS 24
RC36	34.5x34.5x12" Tall	36	LC PR24, ACRUB 270/300
RC40	38.5x38.5x12" Tall	40	TCF BCRD 300 - GH GB 300, CUBE 300
RC46	44.5x44.5x12" Tall	46	TCF BCRD 360

IN-LINE FANS



BROAN IN-LINE FANS

<u>Item #</u>	<u>Model</u>	<u>CFM Right Angle</u>	<u>Sones Right Angle</u>	<u>CFM Straight Through</u>	<u>Sones Straight Through</u>
BL100L	L100L	95	0.3	106	0.7
BL150L	L150L	142	1.3	147	1.4
BL200L	L200L	183	1.0	195	1.9
BL250L	L250L	238	1.7	245	2.3
BL300L	L300L	283	2.4	293	3.1
BL400L	L400L	391	1.2	406	1.6
BL500L	L500L	519	3.4	519	3.4



BROAN CEILING FANS

<u>Item #</u>	<u>Model</u>	<u>CFM</u>	<u>Sones</u>	<u>Description</u>
B688	688	50	4.0	Broan Ceiling Bath Fan
B671	671	70	6.0	Broan Ceiling Bath Fan
BAE50	AE50	50	0.5	Broan InVent Series Ventilation Fan
BAE80B	AE80B	80	1.5	Broan InVent Series Ventilation Fan
BAE110	AE110	110	1.5	Broan InVent Series Ventilation Fan
BL150	L150	157	1.5	High Capacity Ceiling Mount Ventilation Fan
BL200	L200	210	1.7	High Capacity Ceiling Mount Ventilation Fan
BL250	L250	259	2.2	High Capacity Ceiling Mount Ventilation Fan
BL300	L300	308	2.9	High Capacity Ceiling Mount Ventilation Fan
BL400	L400	434	2.3	High Capacity Ceiling Mount Ventilation Fan
BL500	L500	514	3.3	High Capacity Ceiling Mount Ventilation Fan
BL700	L700	701	4.7	High Capacity Ceiling Mount Ventilation Fan
BL900	L900	901	4.1	High Capacity Ceiling Mount Ventilation Fan

SPIRAL DUCT, FITTINGS & REDUCERS

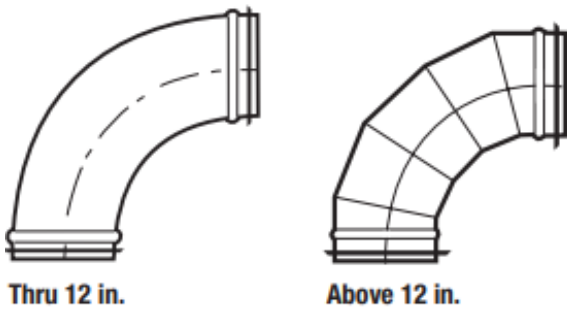


SPIRAL PIPE ****SOLD IN 10 FT SECTIONS****

Item	Dia. In.	Wt. Each (lbs.)	Ga.
ESSP3	3	8.1	26
ESSP4	4	10.8	26
ESSP6	6	16.2	26
ESSP8	8	21.6	26
ESSP10	10	27.0	26
ESSP12	12	32.4	26
ESSP14	14	37.8	26
ESSP16	16	43.2	26
ESSP18	18	48.6	26
ESSP20	20	54.0	26
ESSP22	22	59.4	26
ESSP24	24	64.8	26



90 DEGREE ELBOWS



Item	Dia. In.	Wt. Each (lbs.)	Ga.
ESPE90T3	3	1.1	26
ESPE90T4	4	1.7	26
ESPE90T6	6	3.4	26
ESPE90T8	8	5.5	26
ESPE90T10	10	8.2	26
ESPE90T12	12	11.1	26
ESPE90T14	14	12.0	26
ESPE90T16	16	15.3	26
ESPE90T18	18	19.1	26
ESPE90T20	20	29.7	24
ESPE90T22	22	42.9	24
ESPE90T24	24	50.0	24

SPIRAL DUCT, FITTINGS & REDUCERS



PIPE COUPLING

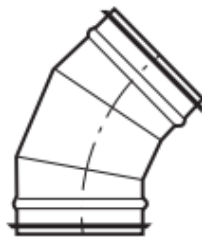
<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESPCPT3	3	0.3	26
ESPCPT4	4	0.4	26
ESPCPT6	6	0.5	26
ESPCPT8	8	0.7	26
ESPCPT10	10	0.9	26
ESPCPT12	12	1.1	26
ESPCPT14	14	1.3	26
ESPCPT16	16	1.4	26
ESPCPT18	18	1.6	26
ESPCPT20	20	2.3	24
ESPCPT22	22	2.5	24
ESPCPT24	24	2.7	24



45 DEGREE ELBOWS



Thru 12 in.



Above 12 in.

<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESPE45T3	3	0.6	26
ESPE45T4	4	1.0	26
ESPE45T6	6	1.8	26
ESPE45T8	8	3.0	26
ESPE45T10	10	4.4	26
ESPE45T12	12	6.0	26
ESPE45T14	14	6.6	26
ESPE45T16	16	8.4	26
ESPE45T18	18	10.3	26
ESPE45T20	20	16.0	24
ESPE45T22	22	19.0	24
ESPE45T24	24	22.3	24

SPIRAL DUCT, FITTINGS & REDUCERS



FITTING COUPLING

<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESFCPT3	3	0.3	26
ESFCPT4	4	0.4	26
ESFCPT6	6	0.5	26
ESFCPT8	8	0.7	26
ESFCPT10	10	0.9	26
ESFCPT12	12	1.1	26
ESFCPT14	14	1.3	26
ESFCPT16	16	1.4	26
ESFCPT18	18	1.6	26
ESFCPT20	20	2.3	24
ESFCPT22	22	2.5	24
ESFCPT24	24	2.7	24



END CAPS

<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESECT3	3	0.3	26
ESPECT4	4	0.4	26
ESPECT6	6	0.7	26
ESPECT8	8	1.0	26
ESPECT10	10	1.4	26
ESPECT12	12	1.8	26
ESECT14	14	2.6	26
ESECT16	16	3.1	26
ESECT18	18	3.7	26
ESECT20	20	5.5	24
ESECT22	22	6.4	24
ESECT24	24	7.3	24



SPIRAL DUCT, FITTINGS & REDUCERS



TEE

<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESTT3	3x3x3	1.4	26
ESTT4	4x4x4	2.0	26
ESTT6	6x6x6	3.2	26
ESTT8	8x8x8	4.5	26
ESTT10	10x10x10	6.0	26
ESTT12	12x12x12	7.8	26
ESTT14	14x14x14	9.6	26
ESTT16	16x16x16	11.7	26
ESTT18	18x18x18	13.9	26
ESTT20	20x20x20	20.8	24
ESTT22	22x22x22	24.1	24
ESTT24	24x24x24	27.6	24



BELLMOUTH



<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESPBT4	4	0.4	26
ESPBT6	6	0.6	26
ESPBT8	8	0.8	26
ESPBT10	10	1.1	26
ESPBT12	12	1.3	26
ESPBT14	14	2.6	26
ESPBT16	16	2.9	26
ESPBT18	18	3.3	26
ESPBT20	20	3.5	24
ESPBT22	22	3.9	24
ESPBT24	24	4.2	24

PRESSED SADDLE TAP

<u>Item</u>	<u>Tap Dia.</u> <u>In.</u>	<u>Duct Dia.</u> <u>In.</u>	<u>Wt. Each</u> <u>(lbs.)</u>	<u>Ga.</u>
ESPFTCT44	4	4	0.4	26
ESPFTCT46	4	6	0.4	26
ESPFTCT48	4	8	0.4	26
ESPFTCT410	4	10	0.5	26
ESPFTCT412	4	12	0.5	26
ESPFTCT66	6	6	0.8	26
ESPFTCT68	6	8	0.8	26
ESPFTCT610	6	10	0.8	26
ESPFTCT612	6	12	0.8	26
ESPFTCT614	6	14	0.8	26
ESPFTCT616	6	16	0.8	26
ESPFTCT88	8	8	1.2	26
ESPFTCT810	8	10	1.2	26
ESPFTCT812	8	12	1.2	26
ESPFTCT814	8	14	1.2	26
ESPFTCT816	8	16	1.2	26
ESPFTCT818	8	18	1.2	26
ESPFTCT820	8	20	1.2	24
ESPFTCT822	8	22	1.2	24
ESPFTCT824	8	24	2.1	24
ESPFTCT1010	10	10	2.1	26
ESPFTCT1012	10	12	2.1	26
ESPFTCT1014	10	14	2.1	26
ESPFTCT1016	10	16	2.1	26
ESPFTCT1018	10	18	2.1	26
ESPFTCT1020	10	20	2.1	24
ESPFTCT1022	10	22	2.1	24
ESPFTCT1024	10	24	2.1	24
ESPFTCT1212	12	12	2.7	26
ESPFTCT1214	12	14	2.7	26
ESPFTCT1216	12	16	2.7	26
ESPFTCT1218	12	18	2.7	26
ESPFTCT1220	12	20	2.7	24
ESPFTCT1222	12	22	2.7	24
ESPFTCT1224	12	24	2.7	24



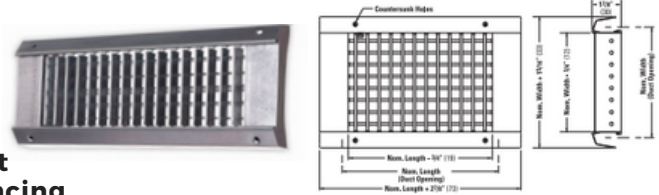
REDUCER

<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each</u> <u>(lbs.)</u>	<u>Ga.</u>
ESPRDT43	4x3	0.4	26
ESPRDT64	6x4	0.9	26
ESPRDT86	8x6	1.4	26
ESPRDT106	10x6	2.0	26
ESPRDT108	10x8	1.8	26
ESPRDT128	12x8	2.5	26
ESPRDT1210	12x10	2.2	26
ESRDT148	14x8	4.9	26
ESRDT1410	14x10	4.7	26
ESRDT1412	14x12	4.9	26
ESRDT1610	16x10	5.7	26
ESRDT1612	16x12	5.4	26
ESRDT1614	16x14	5.7	26
ESRDT1812	18x12	6.5	26
ESRDT1814	18x14	6.1	26
ESRDT1816	18x16	6.4	26
ESRDT2014	20x14	9.4	24
ESRDT2016	20x16	8.7	24
ESRDT2018	20x18	9.2	24
ESRDT2216	22x16	10.4	24
ESRDT2218	22x18	9.7	24
ESRDT2220	22x20	10.1	24
ESRDT2418	24x18	11.5	24
ESRDT2420	24x20	10.7	24
ESRDT2422	24x22	10.9	26

SPIRAL DUCT, FITTINGS & REDUCERS

MODEL SDG SPIRAL GRILLE

- Surface mount
- Galvanized steel (mill finish)
- Integral gasket seals grille tightly to duct
- Built in extractor to allow accurate balancing

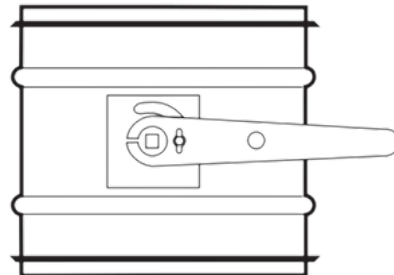


<u>Item</u>	<u>Min/Max Pipe Size</u>	<u>Nominal CFM</u>
PISDG-10X4	8/24	250
PISDG-10X6	14/24	350
PISDG-12X4	8/24	300
PISDG-14X6	14/24	450
PISDG-16X4	8/24	350
PISDG-16X6	14/24	500
PISDG-18X6	14/24	550
PISDG-18X8	20/24	800
PISDG-20X4	8/24	450
PISDG-20X6	14/24	600
PISDG-20X8	20/24	850
PISDG-24X4	8/24	550
PISDG-24X6	14/24	700
PISDG-24X8	20/24	900

SPIRAL DAMPER



<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESDT6	6	2.1	22
ESDT8	8	2.5	22
ESDT10	10	2.9	22
ESDT12	12	3.4	22
ESDT14	14	3.8	22



SPIRAL DUCT, FITTINGS & REDUCERS

REDUCER



<u>Item</u>	<u>Tap Dia. In.</u>	<u>Duct Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESFTCT1414	14	14	11.5	26
ESFTCT1416	14	16	12.7	26
ESFTCT1418	14	18	13.9	26
ESFTCT1420	14	20	19.3	24
ESFTCT1422	14	22	20.8	24
ESFTCT1424	14	24	22.4	24
ESFTCT1616	16	16	13.8	26
ESFTCT1618	16	18	15.1	26
ESFTCT1620	16	20	20.9	24
ESFTCT1622	16	22	22.5	24
ESFTCT1624	16	24	24.2	24
ESFTCT1818	18	18	16.2	26
ESFTCT1820	18	20	22.5	24
ESFTCT1822	18	22	24.3	24
ESFTCT1824	18	24	26.0	24



Y-BRANCH



<u>Item</u>	<u>Dia. In.</u>	<u>Wt. Each (lbs.)</u>	<u>Ga.</u>
ESYT3	3	1.6	26
ESYT4	4	2.4	26
ESYT6	6	4.4	26
ESYT8	8	6.8	26
ESYT10	10	9.8	26
ESYT12	12	13.3	26
ESYT14	14	17.4	26
ESYT16	16	22.0	26
ESYT18	18	27.1	26
ESYT20	20	41.7	24
ESYT22	22	49.5	24
ESYT24	24	58.0	24

CEILING DIFFUSERS



STEEL CONSTRUCTION
LAY-IN FLUSH MOUNTING
WHITE (B12) POWDER COAT
FINISH

MODEL SCD

Item	Neck Size	Panel Size	Nominal CFM*
PISCD-TB-6	6	24x24	250
PISCD-TB-8	8	24x24	400
PISCD-TB-10	10	24x24	575
PISCD-TB-12	12	24x24	775
PISCD-TB-14	14	24x24	975
PISCD-6	6	12x12	235
PISCD-8	8	12x12	350



STEEL CONSTRUCTION
LAY-IN FLUSH MOUNTING
WHITE (B12) POWDER COAT
FINISH

MODEL SPD

Item	Neck Size	Panel Size	Nominal CFM*
PISPD-TB-6	6	24x24	250
PISPD-TB-8	8	24x24	375
PISPD-TB-10	10	24x24	545
PISPD-TB-12	12	24x24	725
PISPD-TB-14	14	24x24	950
PISPD-6	6	12x12	235
PISPD-8	8	12x12	350



PERFORATED STEEL SUPPLY DIFFUSER
LAY-IN FLUSH MOUNTING
WHITE (B12) POWDER COAT FINISH

MODEL PDC

Item	Neck Size	Panel Size	Nominal CFM*
PIPDC-TB-6	6	24x24	160
PIPDC-TB-8	8	24x24	275
PIPDC-TB-10	10	24x24	390
PIPDC-TB-12	12	24x24	550
PIPDC-TB-14	14	24x24	675
PIPDC-TB-16	16	24x24	875



PERFORATED STEEL SUPPLY DIFFUSER
LAY-IN FLUSH MOUNTING
WHITE (B12) POWDER COAT FINISH

MODEL PDDR

Item	Neck Size	Panel Size	Nominal CFM*
PIPDDR-TB-6	6	24x24	130
PIPDDR-TB-8	8	24x24	240
PIPDDR-TB-10	10	24x24	375
PIPDDR-TB-12	12	24x24	525
PIPDDR-TB-14	14	24x24	700
PIPDDR-TB-16	16	24x24	800



Item	Description	Panel Size
PIAFI	R-6 MOLDED INSULATION	24x24
PIAFI-12X12	R-6 MOLDED INSULATION	12X12
PIALUMINUM PAINT	Aluminum Spray Paint 12 oz.	~



*Nominal CFM based on sound level of appx. NC 30.

CEILING DIFFUSERS



MOUNTING FRAME
STEEL CONSTRUCTION
WHITE (B12) POWDER COAT

MODEL SPF FINISH



MOUNTING FRAME
LAY-IN FLUSH MOUNT
STEEL CONSTRUCTION
WHITE (B12) POWDER COAT FINISH

MODEL SMD

Item	Size
PISPF-12x12	12x12
PISPF-24x12	24x12
PISPF-24x24	24x24
PISPF-48x24	48x24

Item	Neck Size	Panel Size	Nominal CFM*
PISMD-TB-6x6	6x6	24x24	200
PISMD-TB-9x9	9x9	24x24	400
PISMD-TB-12x12	12x12	24x24	600
PISMD-TB-15x15	15x15	24x24	900
PISMD-TB-18x18	18x18	24x24	1200



PERFORATED STEEL RETURN
DIFFUSER
LAY-IN FLUSH MOUNTING
WHITE (B12) POWDER COAT FINISH

MODEL PDDR
SQUARE NECK



SURFACE MOUNT
STEEL CONSTRUCTION
WHITE (B12) POWDER COAT
FINISH

MODEL SMD
SURFACE MOUNT

Item	Neck Size	Panel Size	Nominal CFM*
PIPDDR-TB-22x22	22x22	24x24	2200
PIPDDR-10x10	10x10	12x12	425
PIPDDR-TB-22x10	22x10	24x12	917
PIPDDR-TB-46x22	46x22	48x24	4217

Item	Neck Size	WHSE	Nominal CFM*
PISMD-6x6	6x6	Greensboro	200
PISMD-9x9	9x9	Greensboro	400
PISMD-12x12	12x12	Greensboro	600
PISMD-15x15	15x15	Greensboro	900
PISMD-18x18	18x18	Greensboro	1200



Item	Description	Panel Size
PIAFI	R-6 MOLDED INSULATION	24x24
PIAFI-12X12	R-6 MOLDED INSULATION	12X12
PIALUMINUM PAINT	Aluminum Spray Paint 12 oz.	~



*Nominal CFM based on sound level of appx. NC 30.

WHITE STEEL SUPPLY & RETURN REGISTERS AND GRILLES



STEEL SUPPLY REGISTERS WITH DAMPER



STEEL RETURN REGISTERS & GRILLES

Item	WxH	Nominal CFM
PI520D8x4/B12	8x4	180
PI520D8x6/B12	8x6	260
PI520D10x4/B12	10x4	220
PI520D10x6/B12	10x6	340
PI520D12x4/B12	12x4	260
PI520D12x6/B12	12x6	390
PI520D12x8/B12	12x8	480
PI520D14x6/B12	14x6	370
PI520D14x8/B12	14x8	550
PI520D16x6/B12	16x6	415
PI520D16x8/B12	16x8	650
PI520D16x10/B12	16x10	720
PI520D18x6/B12	18x6	480
PI520D18x8/B12	18x8	720
PI520D18x10/B12	18x10	855
PI520D18x12/B12	18x12	1070
PI520D20x6/B12	20x6	550
PI520D20x8/B12	20x8	750
PI520D20x10/B12	20x10	945
PI520D20x12/B12	20x12	1045
PI520D24x6/B12	24x6	750
PI520D24x8/B12	24x8	945
PI520D24x10/B12	24x10	1300
PI520D24x12/B12	24x12	1440
PI520D24x16/B12	24x16	1720
PI520D30x8/B12	30x8	1200
PI520D30x10/B12	30x10	1400
PI520D30x12/B12	30x12	1800
PI520D30x16/B12	30x16	2180
PI520D36x8/B12	36x8	1440
PI520D36x12/B12	36x12	1950
PI520D36x16/B12	36x16	2530
PI520D36x18/B12	36x18	3000

Item	WxH	Nominal CFM
PI5306x6/B12	6x6	125
PI5308x8/B12	8x8	235
PI53010x6/B12	10x6	240
PI53010x8/B12	10x8	280
PI53010x10/B12	10x10	370
PI53012x6/B12	12x6	250
PI53012x8/B12	12x8	375
PI53012x12/B12	12x12	550
PI53014x6/B12	14x6	280
PI53014x8/B12	14x8	420
PI53014x14/B12	14x14	710
PI53016x8/B12	16x8	490
PI53016x10/B12	16x10	550
PI53016x16/B12	16x16	960
PI53018x12/B12	18x12	805
PI53018x18/B12	18x18	1000
PI53020x20/B12	20x20	1300
PI53022x22/B12	22x22	1600
PI53024x8/B12	24x8	710
PI53024x12/B12	24x12	925
PI53024x18/B12	24x18	1400
PI53024x24/B12	24x24	1700
PI53030x12/B12	30x12	1100
PI53030x24/B12	30x24	2150
PI53030x30/B12	30x30	3000
PI53036x18/B12	36x18	2150
PI53036x24/B12	36x24	2800
PI53036x30/B12	36x30	3000
PI53036x36/B12	36x36	3600
PI53048x24/B12	48x24	3300

SUPPLY & RETURN REGISTERS AND GRILLES



All aluminum models are aluminum finish



ALUMINUM SUPPLY REGISTERS WITH DAMPER

Item	WxH	Nominal CFM
PI620D8X4/B15	8x4	180
PI620D8X6/B15	8x6	260
PI620D10X4/B15	10x4	220
PI620D10X6/B15	10x6	340
PI620D12X4/B15	12x4	260
PI620D12X6/B15	12x6	390
PI620D12X8/B15	12x8	480
PI620D14X6/B15	14x6	370
PI620D14X8/B15	14x8	550
PI620D16X6/B15	16x6	415
PI620D16X8/B15	16x8	650
PI620D16X10/B15	16x10	720
PI620D18X6/B15	18x6	480
PI620D18X8/B15	18x8	720
PI620D18X10/B15	18x10	855
PI620D18X12/B15	18x12	1070
PI620D20X6/B15	20x6	550
PI620D20X8/B15	20x8	750
PI620D20X10/B15	20x10	945
PI620D20X12/B15	20x12	1045
PI620D24X6/B15	24x6	750
PI620D24X8/B15	24x8	945
PI620D24X10/B15	24x10	1300
PI620D24X12/B15	24x12	1440
PI620D24X16/B15	24x16	1720
PI620D30X8/B15	30x8	1200
PI620D30X10/B15	30x10	1400
PI620D30X12/B15	30x12	1800
PI620D30X16/B15	30x16	2180
PI620D36X8/B15	36x8	1440
PI620D36X12/B15	36x12	1950
PI620D36X16/B15	36x16	2530
PI620D36X18/B15	36x18	3000



ALUMINUM RETURN REGISTERS & GRILLES

Item	WxH	Nominal CFM
PI6306X6/B15	6x6	125
PI6308X8/B15	8x8	235
PI63010X6/B15	10x6	240
PI63010X8/B15	10x8	280
PI63010X10/B15	10x10	370
PI63012X6/B15	12x6	250
PI63012X8/B15	12x8	275
PI63012X12/B15	12x12	550
PI63014X6/B15	14x6	280
PI63014X8/B15	14x8	420
PI63014X14/B15	14x14	710
PI63016X8/B15	16x8	490
PI63016X10/B15	16x10	550
PI63016X16/B15	16x16	960
PI63018X12/B15	18x12	805
PI63018X18/B15	18x18	1000
PI63020X20/B15	20x20	1300
PI63022X22/B15	22x22	1600
PI63024X8/B15	24x8	710
PI63024X12/B15	24x12	925
PI63024X18/B15	24x18	1400
PI63024X24/B15	24x24	1700
PI63030X12/B15	30x12	1100
PI63030X24/B15	30x24	2150
PI63030X30/B15	30x30	3000
PI63036X18/B15	36x18	2150
PI63036X24/B15	36x24	2800
PI63036X30/B15	36x30	3000
PI63036X36/B15	36x36	3600
PI63048X24/B15	48x24	3300

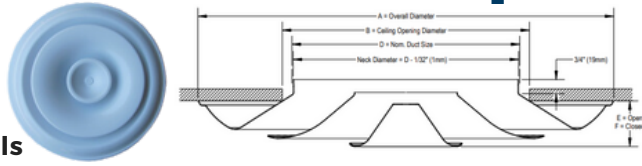
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AIR DISTRIBUTION PRODUCTS



MODEL RCDE

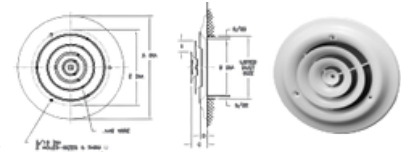
- Steel construction
- White (B12) powder coat finish
- Two position adjustment
- Easily adjustable without special tools



Item	Nominal CFM	A	B	D Neck Size	E	F
PIRCDE-6	200	11 1/8	6 1/2	6	1 3/4	1 1/8
PIRCDE-8	280	14 3/4	8 1/2	8	2 1/8	1 1/2
PIRCDE-10	490	18 1/4	10 1/2	10	2 7/8	2 1/8
PIRCDE-12	705	22	12 1/2	12	3 1/8	2 3/8

MODEL 16 ROUND CEILING DIFFUSER

- Steel construction
- White (B12) powder coat finish
- Optional duct ring or damper
- Ideal for residential, apartment, or light commercial applications

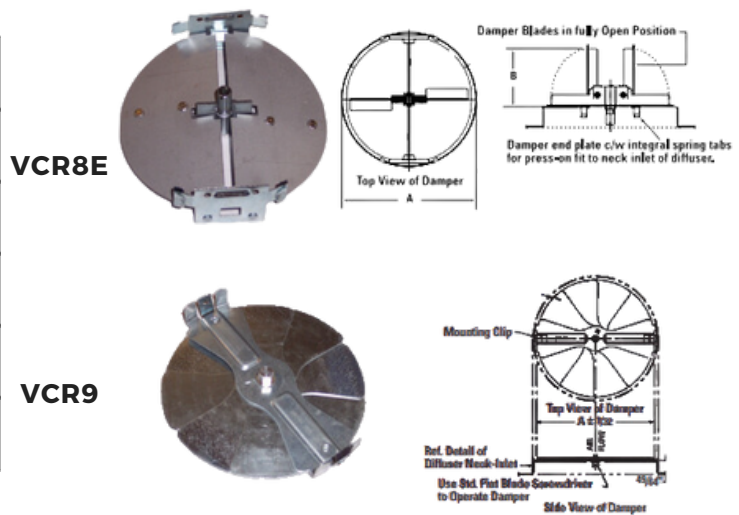


Item	Nominal CFM	A DIA	B DIA	C	D	E DIA Neck Size
HC16-6	135	9-15/16	5-11/16	1-3/64	11/16	6-1/2
HC16-8	225	11-15/16	7-11/16	1-7/32	11/16	8-1/2
HC16-10	345	13-15/16	9-11/16	1-25/64	11/16	10-1/2
HC16-12	500	15-15/16	11-11/16	1-9/16	11/16	12-1/2

VOLUME CONTROL DAMPERS

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

VCR8E	Neck Size	VCR9
PIVCR8E-6	6	PIVCR9-6
PIVCR8E-8	8	PIVCR9-8
PIVCR8E-10	10	PIVCR9-10
PIVCR8E-12	12	PIVCR9-12
PIVCR8E-14	14	PIVCR9-14

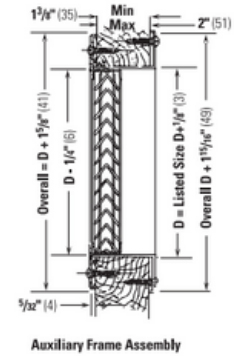


AIR DISTRIBUTION PRODUCTS



MODEL ATG DOOR GRILLE

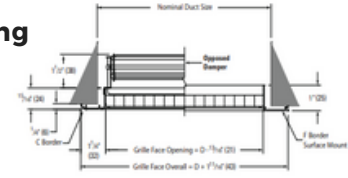
- Extruded aluminum construction with 70-degree blades
- Inverted vee blades prevent clear line of sight
- Finished on both sides for door
- Fits door/partitions as thin as 1-3/8"
- Aluminum (B15) powder coat finish



Item	Nominal CFM
PIATG1-12X12/B15	250
PIATG1-18X12/B15	350
PIATG1-18X18/B15	500
PIATG1-24X24/B15	700

MODEL 80D CUBE CORE REGISTER

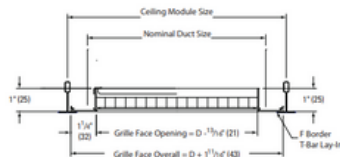
- Aluminum "egg crate" type 1/2" cube core for surface mounting
- Includes opposed blade damper
- White (B12) powder coat finish



Item	Nominal CFM
PI80D-6X6	225
PI80D-8X8	400
PI80D-10X10	650
PI80D-12X12	900
PI80D-14X14	1150

MODEL 80 CUBE CORE RETURN GRILLE

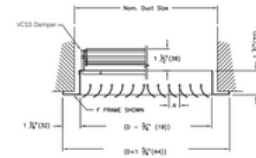
- Aluminum "egg crate" type 1/2" cube core for tee-bar-lay-in ceilings
- White (B12) powder coat finish



Neck Size	Panel Size	Nominal CFM*
PI80-TB-22X10	24x12	1500
PI80-TB-22X22	24x24	2700
PI80-TB-46X22	48x24	4000

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



Neck Size	Nominal CFM*
PISCVD-6X6	130
PISCVD-8X8	225
PISCVD-10X10	350
PISCVD-12X12	450

AIR DISTRIBUTION PRODUCTS



MODEL 540 SUPPLY GRILLES

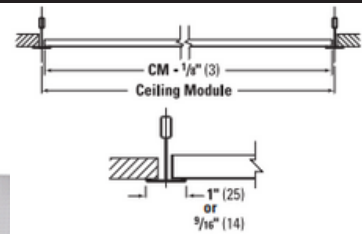
- Surface mount
- Economical steel construction
- Single deflection
- Multi-shutter damper
- White (B12) powder coat finish



Item	Nominal CFM
PI540-10X4	375
PI540-12X4	415
PI540-10X6	500
PI540-12X6	550
PI540-12X8	700
PI540-14X8	800
PI540-16X8	900

MODEL PFRF PERFORATED PANEL

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



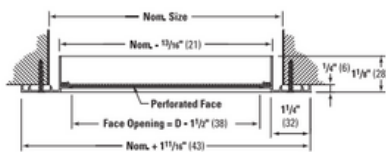
Item	Nominal CFM
PIPFRF-TB-24X12	575
PIPFRF-TB-24X24	2550



MODEL 10A SURFACE MOUNT RETURN

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

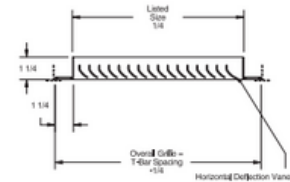
Neck Size	Face Size	Nominal CFM*
PI10A-6X6	7 11/16 x 7 11/16	185
PI10A-8X8	8 11/16 x 8 11/16	275
PI10A-10X10	11 11/16 x 11 11/16	425
PI10A-12X12	13 11/16 x 13 11/16	635
PI10A-14X14	15 11/16 x 15 11/16	830
PI10A-16X16	17 11/16 x 17 11/16	1125
PI10A-18X18	19 11/16 x 19 11/16	1450



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

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

Neck Size	Nominal CFM*	Panel Size
PI530-TB-22X10	800	24x12
PI530-TB-22X22	1600	24x24
PI530-TB-22X46	2750	24x48
PI630-TB-22X10	800	24x12
PI630-TB-22X22	1600	24x24
PI630-TB-22X46	2750	24x48

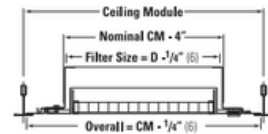


AIR DISTRIBUTION PRODUCTS

MODEL 80FF CUBE CORE LAY-IN TEE-BAR

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

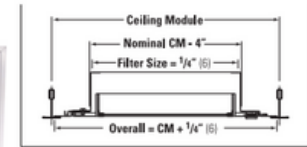
Item	Panel Size	Nominal CFM
PI80FF-TB-20X20	24x24	2400



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

Item	Panel Size	Nominal CFM
PI10FF-TB-20X20	24x24	2000



MODEL 630FF SURFACE MOUNT

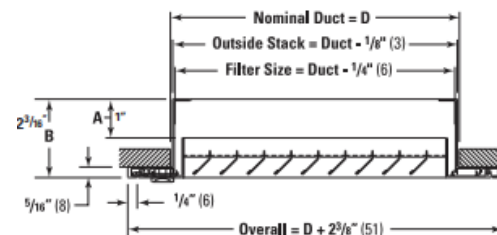
- Extruded aluminum frame with a white (B12) powder coat finish
- 45-degree blades
- Hinged core and latches for easy filter cleaning

MODEL 630FF-TB LAY-IN

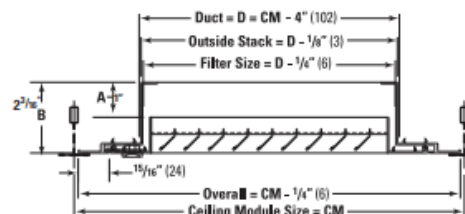
- Extruded aluminum frame with a white (B12) powder coat finish
- 45-degree blades
- Hinged core and latches for easy filter change
- Continuous frame without screw holes

Item	Neck Size	Nominal CFM*
PI630FF-12X12	12 3/8 x 12 3/8	575
PI630FF-20X20	20 3/8 x 20 3/8	1400
PI630FF-24X12	24 3/8 x 12 3/8	1000
PI630FF-24X24	24 3/8 x 24 3/8	1800
Item	Panel Size	Nominal CFM*
PI630FF-TB-20X20	24x24	1400
PI630FF-TB-20X44	24x48	3000

630FF



630FF-TB



AIR DISTRIBUTION PRODUCTS



VARITHERM MODEL VPD-HC

- Tee-Bar Lay-In ceilings
- Steel backpan, faceplate & linkage for strength and durability
- 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



Item	Neck Size	Nominal CFM	Noise Criteria
PIVPD-HC-6	6	200	30
PIVPD-HC-8	8	300	30
PIVPD-HC-10	10	400	30
PIVPD-HC-12	12	500	30

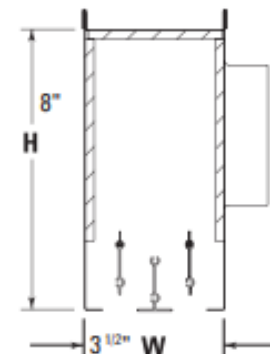
****Available in Greensboro Only****

MODEL TBDI475 SLOT DIFFUSERS

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

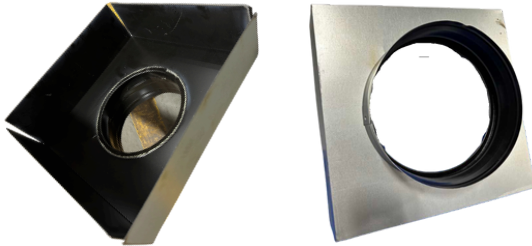


Item	A Width	Inlet	# of Slots	Nominal CFM*
PITBDI475-24-8-2	3 1/2"	8" flat oval	2	160
PITBDI475-48-8-2	3 1/2"	8" flat oval	2	225
PITBDI475-48-10-2	3 1/2"	10" flat oval	2	275



AIR DISTRIBUTION PRODUCTS MODEL F3S0 SQUARE-TO-ROUND ADAPTERS

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



<u>Item #</u>	<u>Base</u>	<u>Inlet Diameter</u>	<u>Item #</u>	<u>Base</u>	<u>Inlet Diameter</u>
FMT9X9X8	9x9	8	FMT20X20X14	20x20	14
FMT9X9X9	9x9	9	FMT20X20X10	20x20	10
FMT9X9X7	9x9	7	FMT20X20X12	20x20	12
FMT9X9X6	9x9	6	FMT18X18X8	18x18	8
FMT8X8X7	8x8	7	FMT18X18X6	18x18	6
FMT8X8X8	8x8	8	FMT18X18X18	18x18	18
FMT6X6X6	6x6	6	FMT18X18X16	18x18	16
FMT8X8X6	8x8	6	FMT18X18X12	18x18	12
FMT22X22XNO	22x22	NO	FMT18X18X14	18x18	14
FMT6X6X5	6x6	5	FMT16X16X14	16x16	14
FMT22X22X8	22x22	8	FMT18X18X10	18x18	10
FMT22X22X6	22x22	6	FMT15X15X12	15x15	12
FMT22X22X16	22x22	16	FMT15X15X14	15x15	14
FMT22X22X18	22x22	18	FMT15X15X10	15x15	10
FMT22X22X12	22x22	12	FMT14X14X14	14x14	14
FMT22X22X14	22x22	14	FMT12X12X8	12x12	8
FMT22X22X10	22x22	10	FMT12X12X6	12x12	6
FMT21X21XNO	21x21	NO	FMT12X12X10	12x12	10
FMT20X20X8	20x20	8	FMT12X12X12	12x12	12
FMT20X20XNO	20x20	NO	FMT10X10X9	10x10	9
FMT20X20X18	20x20	18	FMT10X10X8	10x10	8
FMT20X20X6	20x20	6	FMT10X10X6	10x10	6
FMT20X20X16	20x20	16	FMT10X10X10	10x10	10

CONCENTRIC REDUCERS

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



<u>Item</u>	<u>Size</u>
SW66NC8X7	8x7
SW66NC9X8	9x8
SW66NC7X6	7x6
SW66NC8X6	8x6
SW66NC6X5	6x5
SW66NC6X4	6x4
SW66NC5X4	5x4
SW66NC4X3	4x3
SW66NC14X12	14x12
SW66NC16X14	16x14
SW66NC12X8	12x8
SW66NC14X10	14x10
SW66NC10X9	10x9
SW66NC12X10	12x10
SW66NC10X6	10x6
SW66NC10X8	10x8

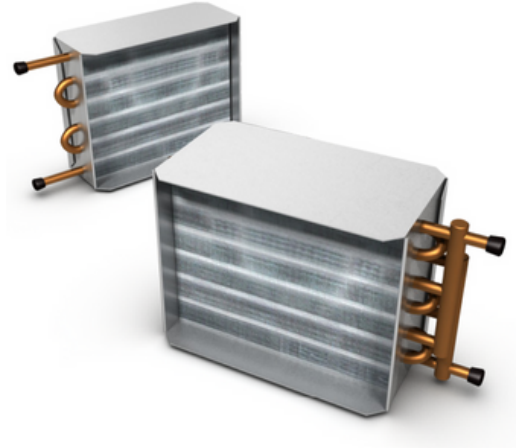
AIR DISTRIBUTION PRODUCTS



HOT WATER COILS

- Single duct variable volume terminals

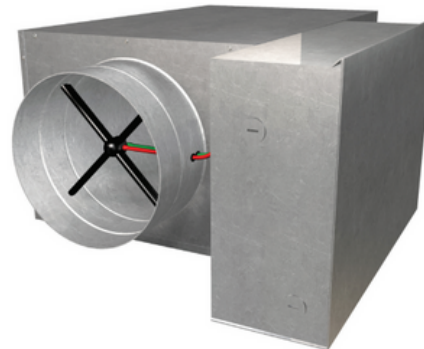
<u>Item</u>	<u>Description</u>
PIWCSXV1R-5-6	1- Row Hot Water Coil - 5-6"
PIWCSXV1R-8	1- Row Hot Water Coil- 8"
PIWCSXV1R-10	1- Row Hot Water Coil - 10"
PIWCSXV1R-12	1- Row Hot Water Coil - 12"
PIWCSXV1R-14	1- Row Hot Water Coil - 14"
PIWCSXV2R-5-6	2 Row, Hot Water Coil - 5,6
PIWCSXV2R-8	2 Row, Hot Water Coil - 8
PIWCSXV2R-10	2 Row, Hot Water Coil - 10
PIWCSXV2R-12	2 Row, Hot Water Coil - 12
PIWCSXV2R-14	2 Row, Hot Water Coil - 14



SINGLE DUCT VARIABLE VOLUME TERMINALS

- Controls by Others
 - Control Terminals are designed for use in low, medium or high pressure variable air volume, single duct systems.
 - This throttling-type terminal incorporates a single damper blade which operates through a 90° arc, providing throttling capability in all positions.
 - Controls by Others terminal incorporates many unique features. Most of these standard features are expensive options for other manufacturers. The Controls By Others incorporates the Patented FlowStar airflow sensor along with a Nema 1 enclosure and 120-volt transformer.

<u>Item</u>	<u>Inlet Diameter</u>	<u>Nominal CFM</u>	<u>Min. PS</u>
PISDV5-2000-5	5	250	.01
PISDV5-2000-6	6	400	.01
PISDV5-2000-8	8	600	.04
PISDV5-2000-10	10	1100	.05
PISDV5-2000-12	12	1800	.07
PISDV5-2000-14	14	2300	.07



BALANCING DAMPERS

MODEL MD-25/35 MANUAL BALANCING DAMPER

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



Model	Size W x H
RKMD-25-OBE-12X6	12 X 6
RKMD-25-OBE-12X8	12 X 8
RKMD-25-OBE-12X10	12 X 10
RKMD-25-OBE-12X12	12 X 12
RKMD-25-OBE-18X12	18 X 12
RKMD-25-OBE-24X12	24 X 12
RKMD-35-OBE-14X14	14 X 14
RKMD-35-OBE-18X18	18 X 18
RKMD-35-OBE-24X18	24 X 18
RKMD-35-OBE-24X24	24 X 24

CONTROL DAMPERS

MODEL CD-36 LOW-LEAK CONTROL DAMPER

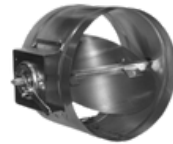
- 16 ga. galvanized steel construction, 6" opposed blades
- EPDM blade seals, metal compression jamb seals
- Includes outboard support bearing and control shaft
- Actuator or hand quadrant sold separately

Model	Size W x H
RKCD-36-OBE-12X12	12 x 12
RKCD-36-OBE-18X12	18 x 12
RKCD-36-OBE-24X12	24 x 12
RKCD-36-OBE-14X14	14 x 14
RKCD-36-OBE-18X18	18 x 18
RKCD-36-OBE-24X18	24 x 18
RKCD-36-OBE-24X24	24 x 24
RKCD-36-OBE-30X24	30 x 24
RKCD-36-OBE-36X24	36 x 24
RKCD-36-OBE-30X30	30 x 30
RKCD-36-OBE-36X36	36 x 36
RKCD-36-OBE-42X42	42 x 42
RKCD-36-OBE-48X48	48 x 48



MODEL MDRS-25 ROUND MANUAL BALANCING DAMPER

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



Model	Size	Frame Length
RKMDRS-25-6	6	6"
RKMDRS-25-8	8	6"
RKMDRS-25-10	10	6"
RKMDRS-25-12	12	6"
RKMDRS-25-14	14	6"

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
RKCDRS-25	6	6"
RKCDRS-25	8	6"
RKCDRS-25	10	6"
RKCDRS-25	12	6"
RKCDRS-25	14	6"



Hand quadrant for CDRS-25 and CD-36 models sold separately
 RKHQR - Model 560 1/2" Round Quadrant**

RKSTAND-OFF for model CDRS-25 sold separately**

DAMPER ACTUATORS

BELIMO DIRECT MOUNT ACTUATORS

- 4V/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

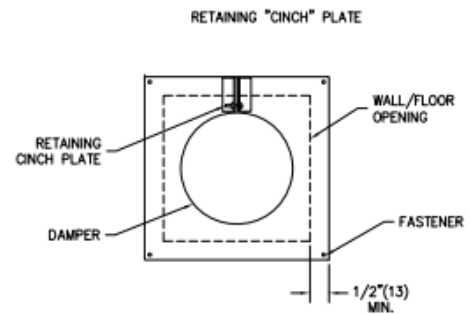


Model	Voltage	Max. Damper Size
BLTFB-24-S	24V	4.5 FT ²
BLTFB-120-S	120V	4.5 FT ²
BLLF-24-S	24V	8 FT ²
BLLF-120-S	120V	8 FT ²
BLNFBUP-S	24V-240V	15 FT ²
BLAFBUP-S	24V-240V	33 FT ²

CEILING RADIATION AND FIRE DAMPERS

MODEL FDR25 ROUND FIRE DAMPER

- UL 555 classified WITH 1.5 hr rating
- Approved for use in 2 hr fire partitions
- Galvanized steel construction, 212-degree 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
- Cinch plates included with fire damper purchase



Model	Size	Frame Height
RKFDR25-6	6"	6 1/2"
RKFDR25-8	8"	6 1/2"
RKFDR25-10	10"	6 1/2"
RKFDR25-12	12"	6 1/2"
RKFDR25-14	14"	6 1/2"
RKFDR25-16	16"	11 1/2"



Model	Size
RKRETPLATE-6	6"
RKRETPLATE-8	8"
RKRETPLATE-10	10"
RKRETPLATE-12	12"
RKRETPLATE-14	14"
RKRETPLATE-16	16"

****CINCH PLATES ALSO SOLD SEPARATELY****

CEILING RADIATION AND FIRE DAMPERS

MODEL CFD CEILING RADIATION DAMPER

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

MODEL CFD CEILING RADIATION DAMPER

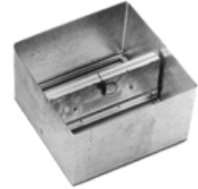
- UL classified radiation dampers
- 22 ga. galvanized blades with UL insulation
- 20 ga. galvanized frame

STANDARD FRAME (ACTUAL SIZE DEDUCT 1/4")

Model	Size
RKSTD-CFD3.5-6X6	6 x 6
RKSTD-CFD3.5-8X8	8 x 8
RKSTD-CFD2-9X9	9 x 9
RKSTD-CFD3.5-10X4	10 x 4
RKSTD-CFD3.5-10X6	10 x 6
RKSTD-CFD2-10X10	10 x 10
RKSTD-CFD2-12X6	12 x 6
RKSTD-CFD2-12X12	12 x 12
RKSTD-CFD2-15X15	15 x 15
RKSTD-CFD2-18X18	18 x 18
RKSTD-CFD4-21X21	21 x 21
RKSTD-CFD4-22X22	22 x 22
RKSTD-CFD4-24X24	24 x 24

EXTENDED FRAME (ACTUAL SIZE SHOWN BELOW)

Model	Size	Ext. Frame Height
RKEXD-CFD3.5-6X6	6 x 6	6"
RKEXD-CFD3.5-8X8	8 x 8	6"
RKEXD-CFD2-9X9	9 x 9	6"
RKEXD-CFD2-10X10	10 x 10	6"
RKEXD-CFD2-12X12	12 x 12	8"
RKEXD-CFD2-15X15	15 x 15	8"
RKEXD-CFD2-18X18	18 x 18	8"
RKEXD-CFD4-21X21	21 x 21	8"
RKEXD-CFD4-22X22	22 x 22	8"



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

(ACTUAL SIZE SHOWN BELOW)

Model	Size	Frame Height
RKCFDR3.5-6	6"	6 1/2"
RKCFDR3.5-8	8"	6 1/2"
RKCFDR3.5-10	10"	6 1/2"
RKCFDR2-12	12"	6 1/2"
RKCFDR2-14	14"	6 1/2"
RKCFDR2-16	16"	11 1/2"

Model	Description
RKCFD BLANKET	Insulation Blanket



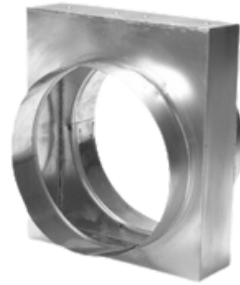
FIRE DAMPERS



MODEL IBD2R/HV ROUND FIRE DAMPER

- Similar to IBD2A, except it includes a round duct attachment collar
- 1.5 hr rating for use in 2 hr rated partitions, 212-degree fusible link
- Stocked dampers have closure spring and latches for horizontal or vertical installations
- Damper housings are square with 2.5" deep round collars
- Recommended for low pressure and low velocity applications only

Collar Diameter (In.)	Housing Size (In.)
RKIBD2R/HV-6	8 x 8
RKIBD2R/HV-8	10 x 10
RKIBD2R/HV-10	12 x 12
RKIBD2R/HV-12	14 x 14
RKIBD2R/HV-14	16 x 16

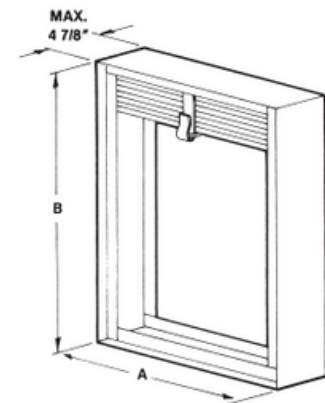
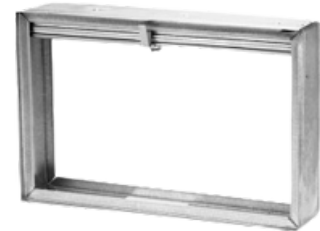


MODEL IBD2A/HV RECTANGULAR FIRE DAMPER

- Curtain style fire damper with 1.5 hr UL rating
- Approved for use in 2 hr fire partitions
- Galvanized steel construction, 212-degree fusible link
- Stocked dampers have closure spring and latches for horizontal and vertical installations

Item #	AxB Size
RKIBD2A/HV6X6	6x6
RKIBD2A/HV8X6	8x6
RKIBD2A/HV10X6	10x6
RKIBD2A/HV12X6	12x6
RKIBD2A/HV14X6	14x6
RKIBD2A/HV8X8	8x8
RKIBD2A/HV10X8	10x8
RKIBD2A/HV12X8	12x8
RKIBD2A/HV14X8	14x8
RKIBD2A/HV16X8	16x8
RKIBD2A/HV18X8	18x8
RKIBD2A/HV20X8	20x8
RKIBD2A/HV10X10	10x10
RKIBD2A/HV12X10	12x10
RKIBD2A/HV14X10	14x10
RKIBD2A/HV16X10	16x10
RKIBD2A/HV18X10	18x10
RKIBD2A/HV20X10	20x10

Item #	AxB Size
RKIBD2A/HV12X12	12x12
RKIBD2A/HV14X12	14x12
RKIBD2A/HV16X12	16x12
RKIBD2A/HV18X12	18x12
RKIBD2A/HV20X12	20x12
RKIBD2A/HV24X12	24x12
RKIBD2A/HV14X14	14x14
RKIBD2A/HV16X14	16x14
RKIBD2A/HV18X14	18x14
RKIBD2A/HV20X14	20x14
RKIBD2A/HV24X14	24x14
RKIBD2A/HV16X16	16x16
RKIBD2A/HV20X16	20x16
RKIBD2A/HV24X16	24x16
RKIBD2A/HV18X18	18x18
RKIBD2A/HV24X18	24x18
RKIBD2A/HV20X20	20x20
RKIBD2A/HV24X24	24x24

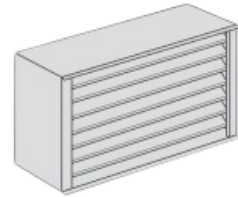


BRICK VENTS

LEDBETTER FOUNDRY MODEL LBV CAST ALUMINUM BRICK VENT

- 4" deep
- Cast aluminum, load bearing construction
- Includes water stop and insect screen

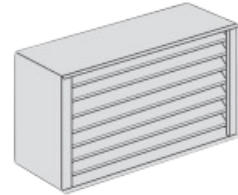
Model	Size
LFLBV88	8 x 7 3/4
LFLBV168	16 x 7 3/4



SUNVENT MODEL EX EXTRUDED ALUMINUM BRICK VENT

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

Model	Size
SVEX808	8 1/8 x 7 3/4
SVEX128	12 x 7 3/4
SVEX157	15 5/8 x 7 3/4



MODEL FL FLANGED EXTRUDED ALUMINUM BRICK VENT

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

Model	Size
SVFL808	8 1/8 x 7 3/4
SVFL128	12 x 7 3/4
SVFL1212	12 x 11 3/4
SVFL157	15 5/8 x 7 3/4



STATIONARY ALUMINUM LOUVERS

MODEL ELF211 THINLINE STATIONARY LOUVER

- Extruded aluminum construction
- 2" deep, .060" channel frame and blades
- Expanded aluminum birdscreen (on inside)
- Standard mill finish

Model	Size W x H	Free Area (Ft ²)
RKELF211 12X12	12 x 12	0.26
RKELF211 18X12	18 x 12	0.45
RKELF211 24X12	24 x 12	0.76



MODEL GFL800D STATIONARY LOUVER

- Extruded aluminum construction
- 4" deep, .080" channel frame with caulking slots
- Blades are .080" drainable
- Expanded aluminum birdscreen (on inside)
- Standard mill finish

Model	Size W x H	Free Area (Ft ²)
RKGFL800D 18X18	18 x 18	0.67
RKGFL800D 24X18	24 x 18	0.93
RKGFL800D 24X24	24 x 24	1.49
RKGFL800D 30X24	30 x 24	1.90
RKGFL800D 36X24	36 x 24	2.31
RKGFL800D 30X30	30 x 30	2.59
RKGFL800D 36X30	36 x 30	3.15
RKGFL800D 36X36	36 x 36	3.85
RKGFL800D 42X42	42 x 42	5.18
RKGFL800D 48X48	48 x 48	7.10



*** ALL LOUVERS: screen adds 1/2" to depth - All louvers furnished 1/4" smaller than nominal opening size shown ***

ACCESS DOORS



MODEL ADC-14 CAM-TYPE ACCESS

DOOR

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



Model	Size
RKADC-14-6X6	6 x 6
RKADC-14-8X8	8 x 8
RKADC-14-10X10	10 x 10
RKADC-14-12X12	12 x 12
RKADC-14-14X14	14 x 14
RKADC-14-16X16	16 x 16
RKADC-14-18X18	18 x 18
RKADC-14-24X24	24 x 24

MODEL ADH-14 HINGED ACCESS

DOOR

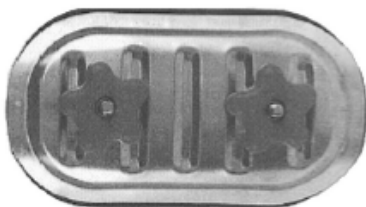
- 24 ga. galvanized steel construction
- 1/2" insulation board, aluminum foil faced
- Foam gasket and cam locks for tight closure
- Starter tab for easy installation



Model	Size
RKADH-14-6X6	6 x 6
RKADH-14-8X8	8 x 8
RKADH-14-10X10	10 x 10
RKADH-14-12X12	12 x 12
RKADH-14-14X14	14 x 14
RKADH-14-16X16	16 x 16
RKADH-14-18X18	18 x 18
RKADH-14-24X24	24 x 24

DURODYNE 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

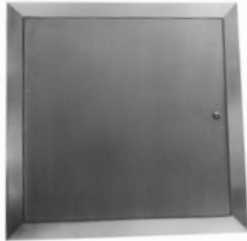


Model	Duct Size (In.)	Opening Size (In.)	Door Size (In.)
DDMRADI48-7	6	3 x 7	4 x 8
DDMRADI48-11	8-10	3 x 7	4 x 8
DDMRADI812-14	12-14	7 x 11	8 x 12
DDMRADI812-18	16-18	7 x 11	8 x 12
DDMRADI1216-24	20-24	11 x 15	12 x 16

ACCESS DOORS

KEES STYLE K ACCESS PANEL

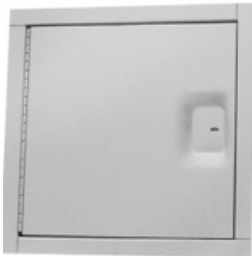
- For use in ceilings, masonry and dry walls
- Convenient access to plumbing, heating and electrical systems
- Aluminum frame, 14 ga. steel panel



<u>Model and Door Size</u>	<u>Wall Opening</u>	<u>Overall Size</u>	<u>Depth</u>
KSK-8x8	8 3/8 x 8 3/8	10 5/8 x 10 5/8	1 1/2"
KSK-12x12	12 3/8 x 12 3/8	14 5/8 x 14 5/8	1 1/2"
KSK-18x18	18 3/8 x 18 3/8	20 5/8 x 20 5/8	1 1/2"
KSK-24x24	24 3/8 x 24 3/8	26 5/8 x 26 5/8	1 1/2"

CENDREX 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



<u>Model and Door Size</u>	<u>Wall Opening</u>	<u>Overall Size</u>	<u>Depth</u>
CDPFI-8x8	8 3/8 x 8 3/8	10 x 10	2 9/16"
CDPFI-12x12	12 3/8 x 12 3/8	14 x 14	2 9/16"
CDPFI-18x18	18 3/8 x 18 3/8	20 x 20	2 9/16"
CDPFI-24x24	24 3/8 x 24 3/8	26 x 26	2 9/16"

CENDREX AHD ACCESS PANEL

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



<u>Model and Door Size</u>	<u>Wall Opening</u>	<u>Overall Size</u>	<u>Depth</u>
CDAHD-8x8	8 1/4 x 8 1/4	10 x 10	1 1/2"
CDAHD-12x12	12 1/4 x 12 1/4	14 x 14	1 1/2"
CDAHD-18x18	18 1/4 x 18 1/4	20 x 20	1 1/2"
CDAHD-24x24	24 1/4 x 24 1/4	26 x 26	1 1/2"

ABB DRIVES

- UL listed
- HVAC designed
- Full graphic display
- Type 1 enclosures



VCR - W/BYPASS

Model ACH580-VCR- W/ByPass - 208V				
Item #	HP	Voltage	Phase	Amps
ABACH580-VCR-10A6-2	3 HP	208	3	10.6
ABACH580-VCR-017A-2	5 HP	208	3	17
ABACH580-VCR-024A-2	7.5 HP	208	3	24
ABACH580-VCR-031A-2	10 HP	208	3	31
ABACH580-VCR-046A-2	15 HP	208	3	46
ABACH580-VCR-059A-2	20 HP	208	3	59
ABACH-AP-H CONTROL PANEL	~	~	~	~
ABACH-AP-W BLUETOOTH	~	~	~	~
ABFBIP-21-KIT	~	~	~	~

Model ACH580-VCR- W/ByPass - 460V				
Item #	HP	Voltage	Phase	Amps
ABACH580-VCR-03A0-4	1.5 HP	460V	3	3
ABACH580 - VCR -04A8-4	3 HP	460V	3	4.8
ABACH580 - VCR -07A6-4	5 HP	460V	3	7.6
ABACH580 - VCR -012A-4	7.5 HP	460V	3	12
ABACH580 - VCR -014A-4	10 HP	460V	3	14
ABACH580 - VCR -023A-4	15 HP	460V	3	23
ABACH580 - VCR -027A-4	20 HP	460V	3	27
ABACH580 - VCR -034A-4	25 HP	460V	3	34
ABACH580 - VCR -044A-4	30 HP	460V	3	44
ABACH580 - VCR -052A-4	40 HP	460V	3	52
ABACH580 - VCR -065A-4	50 HP	460V	3	65
ABACH580 - VCR -077A-4	60 HP	460V	3	77
ABACH580 - BCR -096A-4	75 HP	460V	3	96
ABACH580 - BCR -124A-4	100 HP	460V	3	124
ABACH-AP-H CONTROL PANEL	~	~	~	~
ABACH-AP-W BLUETOOTH	~	~	~	~
ABFBIP-21-KIT	~	~	~	~

BASE DRIVES

Model ACH580-01- Base Drive - 208V				
Item #	HP	Voltage	Phase	Amps
ABACH580-01-10A6-2	3 HP	208	3	10.6
ABACH580-01-017A-2	5 HP	208	3	17
ABACH580-01-024A-2	7.5 HP	208	3	24
ABACH580-01-031A-2	10 HP	208	3	31
ABACH580-01-046A-2	15 HP	208	3	46
ABACH580-01-059A-2	20 HP	208	3	59
ABACH-AP-H CONTROL PANEL	~	~	~	~
ABACH-AP-W BLUETOOTH	~	~	~	~
ABFBIP-21-KIT	~	~	~	~

Model ACH580-01- Base Drive - 460V				
Item #	HP	Voltage	Phase	Amps
ABACH580 -01-03A0-4	1.5 HP	460V	3	3
ABACH580-01-04A8-4	3 HP	460V	3	4.8
ABACH580-01-07A6-4	5 HP	460V	3	7.6
ABACH580-01-012A-4	7.5 HP	460V	3	12
ABACH580-01-014A-4	10 HP	460V	3	14
ABACH580-01-023A-4	15 HP	460V	3	23
ABACH580-01-027A-4	20 HP	460V	3	27
ABACH580-01-034A-4	25 HP	460V	3	34
ABACH580-01-044A-4	30 HP	460V	3	44
ABACH580-01-052A-4	40 HP	460V	3	52
ABACH580-01-065A-4	50 HP	460V	3	65
ABACH580-01-077A-4	60 HP	460V	3	77
ABACH580-01-096A-4	75 HP	460V	3	96
ABACH580-01-124A-4	100 HP	460V	3	124
ABACH-AP-H CONTROL PANEL	~	~	~	~
ABACH-AP-W BLUETOOTH	~	~	~	~
ABFBIP-21-KIT	~	~	~	~

FRANKLIN ELECTRIC STARTERS

Building Automation Starter (BAS)

3 ϕ 200 - 600V 1/2 - 30 HP (1A Min.)

- HOA Keypad with LED indication
- Universal Power Supply - Accepts 200 - 600VAC
- 2.5 Million Lifecycle Contactor
- Solid-state Adjustable Overload w/ phase protection
- SmartStart® technology prevents motor damage on startup
- Integral control board for easy BMS integration
- Run and Fault status outputs for monitoring
- Fireman's Override, Shutdown, and Permissive auto inputs
- No relays or sensors necessary, reduced install time.
- 24VDC damper/actuator output
- 5 Year Product Warranty



Options

- UL Type 1 molded enclosure
- UL Type 3R, white, powder coated enclosure
- Combination style with MCP input disconnect included

BAS W/ SMARTSTART STANDARD STARTER

NEMA 1 IPG	Part Number	Single Phase	Three Phase				Contractor
		230V	208V	230V	460V	575V	NEMA Size
P71	FEBAS1-9-P-40	1/4HP - 1HP	1/4HP - 2HP	1/2HP - 2HP	3/4HP - 5HP	1/2HP-7.5HP	00
P71	FEBAS1-18-P-40	2HP	3HP	3HP - 5HP	7.5HP - 10HP	10HP-15HP	0
P71	FEBAS1-32-P-40	3HP - 5HP	5HP - 7.5HP	7.5HP - 10HP	15HP - 20HP	20HP-25HP	1

BAS W/ SMARTSTART COMBINATION STARTER (W/ A DISCONNECT)

NEMA 1 IPG	Part Number	Single Phase	Three Phase				Contracto r
		230V	208V	230V	460V	575V	NEMA Size
P71	FEBAS1-9-P-G2-5-40	1/6HP	1/2HP	1/2HP	1HP	1.5HP	00
P71	FEBAS1-9-P-G4-40	1/3HP	3/4HP	3/4HP	2HP	3HP	00
P71	FEBAS1-9-P-G6-40	1/2HP	1HP	1.5HP	3HP	3HP	00
P71	FEBAS1-9-P-G8-40	1HP	2HP	2HP	5HP	5HP	00
P71	FEBAS1-18-P-G10-40	1.5HP	2HP	3HP	5HP	7.5HP	0
P71	FEBAS1-18-P-G13-40	2HP	3HP	3HP	7.5HP	10HP	0
P71	FEBAS1-18-P-G17-40	3HP	3HP	5HP	10HP	15HP	0
P71	FEBAS1-32-P-G22-40	3HP	5HP	7.5HP	15HP	20HP	1
P71	FEBAS1-32-P-G26-40	3HP	7.5HP	7.5HP	15HP	20HP	1
P71	FEBAS1-32-P-G32-40	5HP	7.5HP	10HP	20HP	25HP	1

R-32 GAS / ELECTRIC PACKAGED ROOF TOP UNITS



3-12.5 NOMINAL TONS DIRECT DRIVE

<u>MODEL / ITEM</u>	<u>BTU/h</u>	<u>TON</u>	<u>RATED VOLTAGE</u>	<u>MOCP</u>	<u>SEER2/ EER2</u>	<u>Heat Range</u>	<u>HEAT INPUT</u>	<u>DIMENSIONS W/D/H</u>	<u>WEIGHT</u>
DSG0363DH00001S	35,000	3	208/230-3-60	30	14/12	High	90,000	74x48-5/16x39-7/8	580
DSG0364DH00001S	35,000	3	460-3-60	15	14/12	High	90,000	74x48-5/16x39-7/8	586
DSG0483DH00001S	46,000	4	208/230-3-60	35	13.7/11.8	High	115,000	74x48-5/16x39-7/8	618
DSG0484DH00001S	47,000	4	460-3-60	15	13.7/11.8	High	115,000	74x48-5/16x39-7/8	622
DSG0603DH00001S	59,000	5	208/230-3-60	40	13.7/11.8	High	140,000	74x48-5/16x39-7/8	624
DSG0604DH00001S	59,000	5	460-3-60	20	13.7/11.8	High	140,000	74x48-5/16x39-7/8	628
DSG0723DH00001S	69,000	6	208/230-3-60	40	16.7/11.8	High	140,000	74x48-5/16x43-1/2	696
DSG0724DH00001S	69,000	6	460-3-60	20	16.7/11.8	High	140,000	74x48-5/16x43-1/2	696

DSG0903DH00001S	86,000	7.5	208/230-3-60	50	16/12	High	225,000	93-3/4x60-3/8x54-5/8	1,140
DSG0904DH00001S	86,000	7.5	460-3-60	25	16/12	High	225,000	93-3/4x60-3/8x54-5/8	1,140
DSG1023DH00001S	98,000	8.5	208/230-3-60	50	15.5/11.4	High	225,000	93-3/4x60-3/8x54-5/8	1,118
DSG1024DH00001S	98,000	8.5	460-3-60	25	15.5/11.4	High	225,000	93-3/4x60-3/8x54-5/8	1,118
DSG1203DH00001S	116,000	10	208/230-3-60	60	15.5/11.4	High	240,000	93-3/4x60-3/8x54-5/8	1,219
DSG1204DH00001S	116,000	10	460-3-60	30	15.5/11.4	High	240,000	93-3/4x60-3/8x54-5/8	1,219
DSG1503DH00001S	140,000	12.5	208/230-3-60	70	15.2 / 11.4	High	240,000	93-3/4x60-3/8x54-5/8	1,244
DSG1504DH00001S	140,000	12.5	460-3-60	35	15.2 / 11.4	High	240,000	93-3/4x60-3/8x54-5/8	1,244

ACCESSORIES FOR GAS/ELECTRIC PACKAGED ROOF TOP UNITS



3-6 TON ACCESSORIES

ITEM	TYPE	DESCRIPTION
DA0270L01755	ECONOMIZER	Vertical Economizer Ultra Low-Leak JADE Enthalpy Sensor
DA0270L01759	ECONOMIZER	Horizontal Economizer Ultra Low-Leak JADE Enthalpy Sensor 39" Cabinet 3-5T
DA0270L01757	ECONOMIZER	Horizontal Ultra Low-Leak JADE Enthalpy Sensor 43" Cabinet 6T
DA0221L00014	CURB	14" Knockdown Curb 3-6T
DA0270L01166	DAMPER	Manual Outside Air Damper 3-6T
HAILGD036HE	Hail Guard	Hail Guard 39" Cabinet 3-5T
HAILGD048060HE	Hail Guard	Hail Guard 43" Cabinet 6T
DA0270L01156	ECONOMIZER	Downflow Economizer Standard Leak Dry-Bulb 3-6T
DA0270L01163	ECONOMIZER	Horizontal Ultra Low Leak Economizer Dry-Bulb 39" Cabinet 3-5T
DA0270L01598	ECONOMIZER	Horizontal Ultra Low Leak Economizer Dry-Bulb 43" Cabinet 6T

7.5-12.5 TON ACCESSORIES

ITEM	TYPE	DESCRIPTION
DA0270L01756	ECONOMIZER	Vertical Ultra Low-Leak JADE Enthalpy Sensor
DA0270L01760	ECONOMIZER	Horizontal Ultra Low-Leak JADE Controller Enthalpy
DA0270L01153	CURB	14" Knockdown Curb 7.5-12.5T
DA0270L01133	DAMPER	Manual Outside Air Damper 7.5-12.5T
HAILGD090120HE	Hail Guard	Hail Guard 7.5 - 10T
HAILGD150HE	Hail Guard	Hail Guard 12.5T
DA0270L01130	ECONOMIZER	Horizontal Ultra Low Leak Economizer Dry-Bulb 7.5-12.5T
DA0270L01123	ECONOMIZER	Downflow Low Leak Economizer Dry-Bulb 7.5-12.5T

T-STATS

PRT885iSH	Universal WiFi	7 Day Programmable, Residential or Light Commercial
DTST-TOU-A	Daikin Touch Smart Thermostat	Programmable 4-event schedule with adjustable hold function
D4271C	Daikin Universal Thermostat	7 Day Programmable, Residential or Light Commercial
PRT855	Universal Thermostat	7 Day Programmable, Residential or Light Commercial

R-32 GAS / ELECTRIC PACKAGED ROOF TOP UNITS



15-25 NOMINAL TONS DIRECT DRIVE

MODEL / ITEM	BTU/h	TON	RATED VOLTAGE	MOCP	SEER2/ EER2	Heat Range	HEAT INPUT	DIMENSIONS W / D / H	WEIGHT
DSG1803DM00001S	172,000	15	208/230-3-60	100	14 / 10.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,037
DSG1804DM00001S	172,000	15	460-3-60	50	14 / 10.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,037
DSG2403DM00001S	230,000	20	208/230-3-60	125	14 / 10.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,290
DSG2404DM00001S	230,000	20	460-3-60	60	14 / 10.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,290
DSG3003DM00001S	290,000	25	208/230-3-60	150	13 / 9.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,431
DSG3004DM00001S	290,000	25	460-3-60	80	13 / 9.8	Medium	360,000	133-7/8x88-1/2x50-11/16	2,431

ACCESSORIES FOR GAS / ELECTRIC PACKAGED ROOF TOP UNITS

15-25 TON ACCESSORIES

ITEM	TYPE	DESCRIPTION
DA0270L02330	ECONOMIZER	Downflow Low Leak Economizer w/Enthalpy Sensor 15-25T
DA0270L02333	ECONOMIZER HOOD	**Economizer Hood for DA0270L02330**
14CURB180300	CURB	14" Roof Curb 15-25T
S25FD180300	DAMPER	25% Manual Fresh Air Damper 15-25T
HAILGD180300	Hail Guard	Hail Guard 15-25T
SHZECNJ180300B	ECONOMIZER	Horizontal Low Leak Economizer 15-25T
SDNECNJ180300B	ECONOMIZER	Downflow Low Leak Economizer 15-25T (Discontinued)

R-32 HEAT PUMP PACKAGED ROOF TOP UNITS



MODEL	BTU/h	TON	RATED VOLTAGE	MOTOR	SEER2 / EER2	MOCp	HEAT INPUT	DIMENSIONS W / D / H	WEIGHT
DSH0363D000001S	35,000	3	208/230-3-60	DIRECT	14/12	30	33,600	74x48-5/16x39-7/8	605
DSH0364D000001S	35,000	3	460-3-60	DIRECT	14/12	15	33,600	74x48-5/16x39-7/8	613
DSH0483D000001S	46,000	4	208/230-3-60	DIRECT	13.7/11.8	35	46,000	74x48-5/16x39-7/8	652
DSH0484D000001S	46,000	4	460-3-60	DIRECT	13.7/11.8	15	46,000	74x48-5/16x39-7/8	656
DSH0603D000001S	57,500	5	208/230-3-60	DIRECT	13.7/11.8	40	55,000	74x48-5/16x39-7/8	666
DSH0604D000001S	57,500	5	460-3-60	DIRECT	13.7/11.8	20	55,000	74x48-5/16x39-7/8	670
DSH0723D000001S	68,000	6	208/230-3-60	DIRECT	16.7 / 11.3	40	67,000	74x48-5/16x39-7/8	715
DSH0724D000001S	68,000	6	460-3-60	DIRECT	16.7 / 11.3	15	67,000	74x48-5/16x39-7/8	715
DSH0903D000001S	86,000	7.5	208/230-3-60	DIRECT	16/11.4	50	80,000	93-1/8x60-3/8x54-5/8	1,200
DSH0904D000001S	86,000	7.5	460-3-60	DIRECT	16/11.4	25	80,000	93-1/8x60-3/8x54-5/8	1,200
DSH1203D000001S	116,000	10	208/230-3-60	DIRECT	15.2/11.4	60	106,000	93-1/8x60-3/8x54-5/8	1,234
DSH1204D000001S	116,000	10	460-3-60	DIRECT	15.2/11.4	35	106,000	93-1/8x60-3/8x54-5/8	1,234



ACCESSORIES FOR HEAT PUMP PACKAGED ROOF TOP UNITS



3-5 TON ACCESSORIES

ITEM	TYPE	DESCRIPTION
DA0270L01163	ECONOMIZER	Horizontal Ultra Low Leak Economizer Dry-Bulb 39" Cabinet 3-5T
DA0270L01156	ECONOMIZER	Downflow Economizer Standard Leak Dry-Bulb 3-5T
DA0270L01755	ECONOMIZER	Vertical Economizer Ultra Low-Leak JADE Enthalpy Sensor
DA0221L00014	CURB	14" Knockdown Curb
DA0270L01166	DAMPER	Manual Outside Air Damper 3-5T
HAILGD036HE	Hail Guard	Hail Guard 39" Cabinet 3-5T
WXD0504X	HEAT KIT	5KW Heat Kit 208-230v/3ph 3-5T HP Direct Drive
WXD0505X	HEAT KIT	5KW Heat Kit 460V/3ph 3-5T HP Direct Drive
WXD1004-X	HEAT KIT	10KW Heat Kit 208-230v/3ph 3-5T HP Direct Drive
WXD1005X	HEAT KIT	10KW Heat Kit 460v/3ph 3-5T HP Direct Drive

7.5-10 TON ACCESSORIES

ITEM	TYPE	DESCRIPTION
DA0270L01130	ECONOMIZER	Horizontal Ultra Low Leak Economizer 7.5-12.5T
DA0270L01123	ECONOMIZER	Downflow Low Leak Economizer Dry-Bulb 7.5-12.5T
DA0270L01756	ECONOMIZER	Vertical Ultra Low-Leak JADE Enthalpy Sensor
DA0270L01153	CURB	14" Knockdown Curb 7.5-12.5T
DA0270L01133	DAMPER	Manual Outside Air Damper 7.5-12.5T
HAILGD090120HE	Hail Guard	Hail Guard 7.5 - 10T
WXD1004	HEAT KIT	10KW Heat Kit 208-230v/3ph 7.5-10T HP Direct Drive
WXD1504	HEAT KIT	15KW Heat Kit 208-230v/3ph 7.5-10T HP Direct Drive
WXD1505	HEAT KIT	15KW Heat Kit 460v/3ph 7.5-10T HP Direct Drive
WXD3004	HEAT KIT	30KW Heat Kit 208-230v/3ph 7.5-10T HP Direct Drive
WXD3005	HEAT KIT	30KW Heat Kit 460v/3ph 7.5-10T HP Direct Drive
EHXD-3M15	HEAT KIT	15KW Electric Heat Kit 208-230v/3ph
EHXD-3M30	HEAT KIT	30KW Electric Heat Kit 208-230v/3ph 7.5-8.5T
EHXD-4M30	HEAT KIT	30KW Electric Heat Kit 460v/3ph

SMOKE DETECTORS

SYSTEM SENSOR

- Duct-mounted design
- Samples airstream for early detection of smoke in HVAC systems
- Includes exhaust tube
- Please select sampling tube from accessory listing below
- 24V AC/DC or 120V AC

<u>Accessory</u>	<u>Description</u>
SDD4120	Standard 4-wire photo electric
SDD4120W	Standard 4-wire photo electric watertight version



SD4120

<u>Accessory</u>	<u>Description</u>
SDRTS151	Remote Test Station for testing remotely located smoke detector
SDAPA151	Piezo Annunciator, audible signal appliance for alarm service, red alarm LED, green power LED, audible alarm
SDRTS2	Multi-signaling Duct Accessory with Audible Alarm
SDAOS	Add on strobe for RTS2
SDDST-1.5	Sampling Tube, 1 1/2 ft.
SDDST-3	Sampling Tube, 3 ft.
SDDST-5	Sampling Tube, 5 ft.



SDDST



SDRTS2



SDAPA151



SDRTS151

R-32 COMMERCIAL SPLIT SYSTEM HEAT PUMP



7/8 TO 3/4 ADAPTER
1-1/8 TO 3/4 ADAPTER

<u>Item</u>	<u>Type</u>	<u>Tons</u>	<u>Voltage</u>	<u>EER</u> <u>2</u>	<u>SEER2</u>	<u>Coolin</u> <u>g BTU</u>	<u>Heating</u> <u>BTU</u>	<u>MOP / MCA</u>	<u>Lineset Size</u>
DH4SEA3630	ODU	3	208/230-3-60	12.5	14.3	35,000	34,400	20 / 14.2	3/8 X 3/4
AMST36CU1300	IDU		208/230-1-60					15 / 7.1	
DH4SEA3640	ODU	3	460-3-60	12.5	14.3	35,000	34,400	10 / 6.7	3/8 X 3/4
AMST36CU1300	IDU		208/230-1-60					15 / 7.1	
DH4SEA4830	ODU	4	208/230-3-60	12.5	14.3	46,090	46,090	25 / 16.5	3/8 X 3/4
AMST48CU1300	IDU		208/230-1-60					15 / 7.1	
DH4SEA4840	ODU	4	460-3-60	12.5	14.3	46,090	46,090	10 / 8.0	3/8 X 3/4
AMST48CU1300	IDU		208/230-1-60					15 / 7.1	
DH4SEA6030	ODU	5	208/230-3-60	12.5	14.3	57,300	57,000	35 / 20.5	3/8 X 3/4
AMST60DU1300	IDU		208/230-1-60					15 / 8.6	
DH4SEA6040	ODU	5	460-3-60	12.5	14.3	57,300	57,000	15 / 10.4	3/8 X 3/4
AMST60DU1300	IDU		208/230-1-60					15 / 8.6	
DH6TE09030	ODU	7.5	208/230-3-60	11.4	16	92,000	85,000	50 / 38.7	5/8 X 1-1/8
DAQ09033	IDU							20 / 15.5	
DH6TE09040	ODU	7.5	460-3-60	11.4	16	92,000	85,000	20 / 17.9	5/8 X 1-1/8
DAQ09034	IDU							15 / 5.2	
DH6TE12030	ODU	10	208/230-3-60	11.2	16	115,000	97,000	50 / 41.6	5/8 X 1-1/8
DAQ12033	IDU							20 / 15.5	
DH6TE12040	ODU	10	460-3-60	11.2	16	115,000	97,000	25 / 20.8	5/8 X 1-1/8
DAQ12034	IDU							15 / 5.2	

ACCESSORY HEAT KITS



<u>Item</u>	<u>Voltage</u>	<u>Description</u>
WKS0502	240-1	Heat Kit 4.80 KW/20 Amps
WKS0802	240-1	Heat Kit 8 KW/ 33.30 Amps
WKS1002	240-1	Heat Kit 9.60 KW/ 40 Amps
WHKD1504	240-3	Heat Kit 15 KW/ 36.10 Amps
WHKD2004	240-3	Heat Kit 20 KW/ 48.10 Amps
WHKD1505	460-3	Heat Kit 15 KW/ 18 Amps
WHKD2005	460-3	Heat Kit 20 KW/ 24.10 Amps



LINESETS

Daikin Commercial Split Systems

<u>Item</u>	<u>Liquid</u>	<u>Suction</u>	<u>Length</u>
LS61220250B6L	3/8"	3/4"	25'
LS61220500B6L	3/8"	3/4"	50'
LS61420250B6L	3/8"	7/8"	25'
LS61420500B6L	3/8"	7/8"	50'
LS61820250B6L	3/8"	1-1/8"	25'
LS61820500B6L	3/8"	1-1/8"	50'
LS01020250L	5/8"	~	25'
LS01820250L	~	1-1/8"	25'



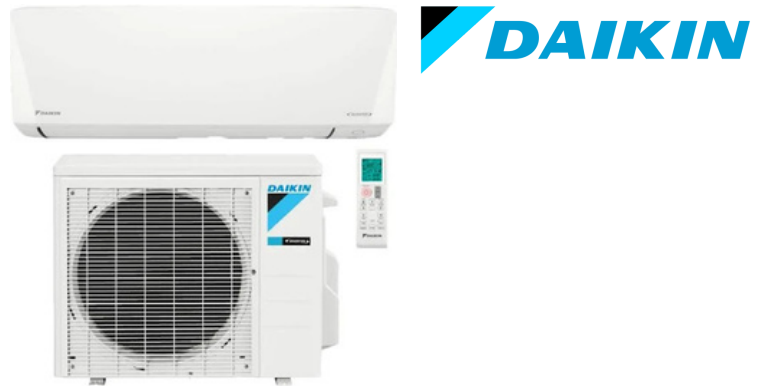
Reducers

<u>Item</u>	<u>Reducing Size</u>
M1-1/8x3/4 Red	1-1/8" to 3/4"
M5/8x3/8 Red	5/8" to 3/8"

Daikin Mini-Splits

<u>Item</u>	<u>Liquid</u>	<u>Suction</u>	<u>Length</u>
LS40620250B6L	1/4"	3/8"	25'
LS40620500B6L	1/4"	3/8"	50'
LS40820250B6L	1/4"	1/2"	25'
LS40820500B6L	1/4"	1/2"	50'
LS41020250B6L	1/4"	5/8"	25'
LS41020500B6L	1/4"	5/8"	50'

MINI-SPLITS



R-32 ENTRA 18 SERIES WALL MOUNT

BTU/h	INDOOR	OUTDOOR	MAX LINE LENGTH	Lineset Size	BREAKER SIZE	OPTIONAL LOW AMBIENT WIND BAFFLE	SEER2
9,000	FTXC09AXVJU	RXC09AXVJU	66 FT	1/4 x 3/8	15	Not Available	18
12,000	FTXC12AXVJU	RXC12AXVJU	66 FT	1/4 x 3/8	15	Not Available	18
18,000	FTXC18AXVJU	RXC18AXVJU	98 FT	1/4 x 1/2	20	Not Available	18
24,000	FTXC24AXVJU	RXC24AXVJU	98 FT	1/4 x 5/8	20	Not Available	18

R-32 OTERRA 20 SERIES WALL MOUNT

9,000	FTXF09AXVJU	RXF09AXVJU	66 FT	1/4 x 3/8	15	KPW937F4	21
12,000	FTXF12AXVJU	RXF12AXVJU	66 FT	1/4 x 3/8	15	KPW937F4	21
18,000	FTXF18AXVJU	RXF18AXVJU	98 FT	1/4 x 1/2	20	KPW063B4E	21
24,000	FTXF24AXVJU	RXF24AXVJU	98 FT	1/4 x 5/8	20	KPW063B4E	21

MINI-SPLIT ACCESSORIES

ITEM	TYPE	DESCRIPTION
KPW937F4	Air Directional Grille	Low Ambient Wind Baffle
KPW063B4E	Air Directional Grille	Low Ambient Wind Baffle
KPW063B4	Air Directional Grille	Low Ambient Wind Baffle
RS83812	Condensate Pump	Aspen Mini-Aqua Condensate Pump
RS83939	Condensate Pump	Aspen Mini White Pump Kit 100-250v
RS83919	Condensate Pump	Aspen Maxi Orange Condensate Pump
RS83887	Condensate Pump	Aspen RTP Tank Pump
RS87733	Wall Bracket	Powder Coated Wall Mounted Bracket MAX 242 lbs Load
BRC1H71W	Madoka Wired Controller	Compatible with SEER2 Vista Ceiling Cassette & FDMQ Ducted Models
DTST-LTE-LA-A	T-Stat	Daikin One Lite T-Stat for Mini-Split and Multi-Split Units
DTST-TOU-A	T-Stat	Daikin One Touch Smart T-Stat for Unitary Equipment

EQUIPMENT TOOLS & ACCESSORIES

BALL VALVES

<u>Item #</u>	<u>Description</u>
NBV02SBOX	NDL 1/4" Full Port w/Schrader incl. InsulationBox Kit
NBV03SBOX	NDL 3/8" Full Port w/Schrader incl. InsulationBox Kit
NBV04SBOX	NDL 1/2" Full Port w/Schrader incl. InsulationBox Kit
NBV05SBOX	NDL 5/8" Full Port w/Schrader incl. InsulationBox Kit



CONTROL WIRE

<u>Item #</u>	<u>Description</u>
SW553080407	18/8 Thermostat Wire
CA18-2 GRN	18/2 Unshielded Stranded Plenum Cable (Green) 1000ft.
CA18-2 PRP	18/2 Unshielded Stranded Plenum Cable (Purple) 1000ft.
CA18-2 BRN	18/2 Unshielded Stranded Plenum Cable (Brown) 1000ft.
SW58225703	14/4 Mini-Split Control Wire



CONDENSATE PUMPS

<u>Item #</u>	<u>Description</u>
RS83930	Aspen Mini White Variable Speed Condensate Pump
RS83939	Aspen Mini White Condensate Pump
RS83919	Aspen Orange Condensate Pump
RS83812	Aspen Mini Aqua Condensate Pump
RS83887	Aspen RTP Tank Pump
RS83888	RTP Tank Pump 24' 230V



EQUIPMENT TOOLS & ACCESSORIES

APPION TOOLS

<u>Item #</u>	<u>Description</u>
APCCT14	1/4" Core Control Tool
APCCT516	5/16" Core Control Tool
APKTMV25	Valve Core Removal Tool Rebuild Kit- 2 pack
APKTMV50	Valve Core Tool and Core Control Tool Maintenance Kit
APG5TWIN	G5 Twin Recovery Unit
APG1SINGLE	G1 Single Recovery Unit
APTEZ8	TEZ8 Vacuum Pump- 8 CFM
APSPDKIT-R	MegaFlow Recovery Speed Kit- 1/4" and 5/16" system connections
APSPDKIT-V	MegaFlow Vacuum Speed Kit- 1/4" and 5/16" system connections
APMGAVCR	MegaFlow Valve Core Removal Tool- 5/16"
APMGAVCT	MegaFlow Valve Core Removal Tool- 1/4"
APSPDY12	MegaFlow Speed Y- (2) 3/8" MFL to 1/2" FL
APSPDY14	MegaFlow Speed Y- (2) 3/8" MFL to 1/4" FL
ASPDY38	MegaFlow Speed Y- (2) 3/8" MFL to 3/8" FL



FIELDPIECE REFRIGERANT TOOLS

<u>Item #</u>	<u>Description</u>
FPMR45	Fieldpiece MR45 Digital Recovery Machine
FPVP87	Fieldpiece VP87 Digital Vacuum Pump
FPMG44	Fieldpiece MG44 Job Link Micron Gauge
FPSM380V	Fieldpiece SM380V Mainfold- 2 Valve
FPSM480V	Fieldpiece SM480V Manifold- 4 Valve
FPJL3KH6	Fieldpiece JL3KH6 Job Link kit- Charge and Air
FPJL3KM2	Fieldpiece JL3KM2 Job Link Kit- Dual Manometer
FPSR47	Fieldpiece SR47 252lb. Job Link Digital Scale



EQUIPMENT TOOLS & ACCESSORIES

RECTORSEAL COVER GUARD/LINESET COVER

<u>Item #</u>	<u>Description</u>
RSCGDUC	4-1/2" x 48" Cover Guard Duct
RSCGDUC78	4-1/2" x 78" Cover Guard Duct
RSCGCUP	4-1/2" Cover Guard Coupling
RSCG90	4-1/2" Cover Guard 90 Degree Elbow
RSCG90SWP	4-1/2" Cover Guard 90 Degree Sweep Elbow
RSCG45	4-1/2" Cover Guard 45 Degree Elbow
RSCGINLT	4-1/2" Cover Guard Wall Inlet
RSCGWLFL	4-1/2" Cover Guard Wall Flange
RSCGEND	4-1/2" Cover Guard End Cap



PADS & WALL BRACKET

<u>Item #</u>	<u>Description</u>
DIEP2436-3	Diversitech EcoPad™ 24x36x3
DIEP2448-3	Diversitech EcoPad™ 24x48x3
DA97705	Mighty Bracket- Mini Split



REFRIGERANT

<u>Item #</u>	<u>Description</u>
R410A	R410a-25 lbs. cylinder
R32	R32- 20 lbs. cylinder
R454B	R454B- 20 lbs. cylinder



<u>Item #</u>	<u>Description</u>
ROC3340	Nitrogen 40 CU/Ft
ROCY40	Nitrogen 40 CU/Ft Tank
ROC16	Oxygen 22 CU/Ft
ROCY22	Oxygen 22 CU/Ft Tank
ROC10	Acetylene, MC 10 CU/Ft
ROCY10	Acetylene, MC 10 CU/Ft Tank

*FOR EXCHANGES - SOLD WITHOUT THE TANK
IF TANK AND FILL NEEDED - BOTH PART NUMBERS
TO BE BOUGHT*



EQUIPMENT TOOLS & ACCESSORIES

MUELLER ACR PRESS FITTINGS

Item #	Description
MPRESSTOOL	Milwaukee Streamline Press Tool
MPRESSJAWSET	Milwaukee Streamline Jaw Set
M1/4PRESS90	1/4 ACR PRESS LR 90 ELL
M3/8PRESS90	3/8 ACR PRESS LR 90 ELL
M1/2PRESS90	1/2 ACR PRESS LR 90 ELL
M5/8PRESS90	5/8 ACR PRESS LR 90 ELL
M3/4PRESS90	3/4 ACR PRESS LR 90 ELL
M7/8PRESS90	7/8 ACR PRESS LR 90 ELL
M1-1/8PRESS90	1-1/8 ACR PRESS LR 90 ELL
M1/4PRESS45	1/4 ACR PRESS LR 45 ELL
M3/8PRESS45	3/8 ACR PRESS LR 45 ELL
M1/2PRESS45	1/2 ACR PRESS LR 45 ELL
M5/8PRESS45	5/8 ACR PRESS LR 45 ELL
M3/4PRESS45	3/4 ACR PRESS LR 45 ELL
M7/8PRESS45	7/8 ACR PRESS LR 45 ELL
M1-1/8PRESS45	1-1/8 ACR PRESS LR 45 ELL
M1/4PCOUP	1/4 ACR PRESS COUPLING
M3/8PCOUP	3/8 ACR PRESS COUPLING
M1/2PCOUP	1/2 ACR PRESS COUPLING
M5/8PCOUP	5/8 ACR PRESS COUPLING
M3/4PCOUP	3/4 ACR PRESS COUPLING
M7/8PCOUP	7/8 ACR PRESS COUPLING
M1-1/8PCOUP	1-1/8 ACR PRESS COUPLING

MUELLER COPPER FITTINGS

Item #	Description
M1/4COUP	1/4 OD ROLL-STOP CPLG
M3/8COUP	3/8 OD ROLL-STOP CPLG
M1/2COUP	1/2 OD ROLL-STOP CPLG
M5/8COUP	5/8 OD ROLL-STOP CPLG
M3/4COUP	3/4 OD ROLL-STOP CPLG
M7/8COUP	7/8 OD ROLL-STOP CPLG
M1-1/8COUP	1-1/8 OD ROLL-STOP CPLG
M1/4-45	1/4 OD 45 ELL
M3/8-45	3/8 OD 45 ELL
M1/2-45	1/2 OD 45 ELL
M5/8-45	5/8 OD 45 ELL
M3/4-45	3/4 OD 45 ELL
M7/8-45	7/8 OD 45 ELL
M1-1/8-45	1-1/8 OD 45 ELL
M1/4-90	1/4 OD LR 90 ELL
M3/8-90	3/8 OD LR 90 ELL
M1/2-90	1/2 OD LR 90 ELL
M5/8-90	5/8 OD LR 90 ELL
M3/4-90	3/4 OD LR 90 ELL
M7/8-90	7/8 OD C X C LR 90 ELL
M1-1/8-90	1-1/8 OD LR 90 ELL

****CHARLOTTE ONLY****



EQUIPMENT TOOLS & ACCESSORIES

REFRIGERANT TOOLS

Item #	Description
CPTLTWSM	Metric handle and heads/torque wrench set
CPTLSWHM	Metric Hex Wrench set
CPBFT850	Flaring Tool
CPBTLDTW	Digital Torque Wrench
CPBFT850DR	Manual or Drill Flaring Tool
CPBFS300QC	Flaring/Swaging Tool Kit
CPTLSWH	Hex Wrench Set
CPTMINI12	Non Contact thermometer
CPCCXHB	120v heater band
CPCCXHBV	240v heater band
CPUVS2	Medium/Large Dye Cartridge
CPUV55	Dye Detection Kit
CPUVPRO	Dye Detection light/glasses



JB INDUSTRIES REFRIGERANT TOOLS

Item #	Description
JB-PC-A22-LH ADAPTOR	A2L Left Handed Thread Adaptor
JB-PC-A26-LH45 ADAPTOR	A2L Left Handed Thread Adaptor - 45 Degree
JB-F6-Boost	JB Industries F6 Boost Recovery Machine
JB-DV-6E	JB Industries 6 CFM Vacuum Pump
JB-DV-200N	JB Industries 7 CFM Vacuum Pump
JB-DV-340N	JB Industries Beast 12 CFM Vacuum Pump
JB-DM4-RW	JB Industries Revolver Digital Manifold
JB-VL-100	Rapid Evacuation Kit w/ Valve Core Removal Tool
JB-VL-200	Rapid Evacuation Kit with Hoses, Valve Core Removal Tools, and Y Connectors
JB-DS-20000	JB Industries digital scale
JB-LD-5000	JB Industries Prowler Refrigerant Leak Detector
JB-CCLE-60	JB Industries 1/4" x 60" Charging Hose Set
JB-CCLBV-60	JB Industries 1/4" x 60" Charging Hose Set with Ball Valves
JB-CL6HD-60	JB Industries 3/8" x 3/8" 60" black hoses
JB-25133	JB Industries Zeppelin 4 valve manifold and hoses
JB-22233	JB Industries Patriot Manifold for R22, 404A, and 410A.
JB-M2-5-410A	JB Industries Standard manifold 2-1/2" Gauges and hose set.
JB-A32525SV	JB Valve Core Removal Tool 5/16"



EQUIPMENT TOOLS & ACCESSORIES

PVC CONDENSATE PIPE

<u>Item #</u>	<u>Description</u>
CHP1/2x10	1/2"x10' Schedule 40 PVC Pipe
CHP3/4x10	3/4"x10' Schedule 40 PVC Pipe
CHP1x10	1"x10' Schedule 40 PVC Pipe
CHP1-1/4x10	1-1/4"x10' Schedule 40 PVC Pipe
CHP1-1/2x10	1-1/2"x10' Schedule 40 PVC Pipe
CHP2x10	2"x10' Schedule 40 PVC Pipe
CHP1/2-90	1/2" PVC 90 Elbow
CHP3/4-90	3/4" PVC 90 Elbow
CHP1-90	1" PVC 90 Elbow
CHP1-1/4-90	1-1/4" PVC 90 Elbow
CHP1-1/2-90	1-1/2" PVC 90 Elbow
CHP2-90	2" PVC 90 Elbow
CHP1/2-45	1/2" PVC 45 Elbow
CHP3/4-45	3/4" PVC 45 Elbow
CHP1-45	1" PVC 45 Elbow
CHP1-1/4-45	1-1/4" PVC 45 Elbow
CHP1-1/2-45	1-1/2" PVC 45 Elbow
CHP2-45	2" PVC 45 Elbow
CHP1/2COUP	1/2" PVC Coupling
CHP3/4COUP	3/4" PVC Coupling
CHP1COUP	1" PVC Coupling
CHP1-1/4COUP	1-1/4" PVC Coupling
CHP1-1/2COUP	1-1/2" PVC Coupling
CHP2COUP	2" PVC Coupling
CHP1/2TEE	1/2" PVC TEE
CHP3/4TEE	3/4" PVC TEE
CHP1TEE	1" PVC TEE
CHP1-1/4TEE	1-1/4" PVC TEE
CHP1-1/2TEE	1-1/2" PVC TEE
CHP2TEE	2" PVC TEE

<u>Item #</u>	<u>Description</u>
CHP1/2CAP	1/2" PVC CAP
CHP3/4CAP	3/4" PVC CAP
CHP1CAP	1" PVC CAP
CHP1-1/4CAP	1-1/4" PVC CAP
CHP1-1/2CAP	1-1/2" PVC CAP
CHP2CAP	2" PVC CAP
CHP1/2PLUG	1/2" PVC PUG
CHP3/4PLUG	3/4" PVC PLUG
CHP1PLUG	1" PVC PLUG
CHP1-1/2PLUG	1-1/2" PVC PLUG
CHP2PLUG	2" PVC PLUG
CHP3/4PTRAP	3/4" PVC P TRAP
CHP3/4RTRAP	3/4" PVC Running Trap
CHP1/2FM	1/2" PVC FM Adaptor
CHP3/4FM	3/4" PVC FM Adaptor
CHP1FM	1" PVC FM Adaptor
CHP1-1/4FM	1-1/4" PVC FM Adaptor
CHP1-1/2FM	1-1/2" PVC FM Adaptor
CHP2FM	2" PVC FM Adaptor
CHP1/2MA	1/2" PVC ML Adaptor
CHP3/4MA	3/4" PVC ML Adaptor
CHP1MA	1" PVC ML Adaptor
CHP1-1/4MA	1-1/4" PVC ML Adaptor
CHP1-1/2MA	1-1/2" PVC ML Adaptor
CHP2MA	2" PVC ML Adaptor



EQUIPMENT TOOLS & ACCESSORIES

PVC CONDENSATE PIPE

<u>Item #</u>	<u>Description</u>
CHP1/2x3/4RT	3/4x1/2x1/2 Reducing Tee
CHP3/4x1/2RT	3/4x3/4x1/2 Reducing Tee
CHP1x1/2RT	1x1x1/2 Reducing Tee
CHP3/4x1RT	3/4x3/4x1 Reducing Tee
CHP1-1/4x1/2RT	1-1/4x1-1/4x1/2 Reducing Tee
CHP1-1/4x3/4RT	1-1/4x1-1/4x3/4 Reducing Tee
CHP1-1/4x1RT	1-1/4x1-1/4x1 Reducing Tee
CHP1-1/2x1/2RT	1-1/2x1-1/2x1/2 Reducing Tee
CHP1-1/2x3/4RT	1-1/2x1-1/2x3/4 Reducing Tee
CHP1-1/2x1RT	1-1/2x1-1/2x1 Reducing Tee
CHP2x3/4RT	2x2x3/4 Reducing Tee
CHP2x1RT	2x2x1 Reducing Tee
CHP2x1-1/4RT	2x2x1-1/4 Reducing Tee
CHP2x1-1/2RT	2x2x1-1/2 Reducing Tee
CHP3/4x1/2BUSH	3/4x1/2 Reducer Bushing
CHP1x1/2BUSH	1x1/2 Reducer Bushing
CHP1x3/4BUSH	1x3/4 Reducer Bushing
CHP1-1/4x3/4BUSH	1-1/4x3/4 Reducer Bushing
CHP1-1/4x1BUSH	1-1/4x1 Reducer Bushing
CHP1-1/2x1/2BUSH	1-1/2x1/2 Reducer Bushing
CHP1-1/2x1-3/4BUSH	1-1/2x1-3/4 Reducer Bushing
CHP1-1/2x1BUSH	1-1/2x1 Reducer Bushing
CHP1-1/2x1-1/4BUSH	1-1/2x1-1/4 Reducer Bushing
CHP2x3/4BUSH	2x3/4 Reducer Bushing
CHP2x1BUSH	2x1 Reducer Bushing
CHP2x1-1/4BUSH	2x1-1/4 Reducer Bushing
CHP2x1-1/2BUSH	2x1-1/2 Reducer Bushing
CHP3/4x1/2RD	3/4x1/2 PVC Reducer Coupling
CHP1x3/4RD	1x3/4 PVC Reducer Coupling



HEAT PUMPS ****R454B****



HEAT PUMP COMBINATIONS WITH MULTI-POSITION AIR HANDLER

208/230/1/60

<u>Ton</u>	<u>Outdoor Heat Pump</u>	<u>Multi-Position Air Handler</u>	<u>Outdoor Heat Pump Liquid / Suction</u>	<u>Air Handler Liquid / Suction</u>
1.5	J5HP5018A1000AA	J5AH4P18A1A00AA	3/8" x 3/4"	3/8" x 3/4"
2	J5HP5024A1000AA	J5AH4P24A1B00AA	3/8" x 3/4"	3/8" x 3/4"
2.5	J5HP5030A1000AA	J5AH4P36A1B00AA	3/8" x 3/4"	3/8" x 3/4"
3	J5HP5036A1000AA	J5AH4P36A1B00AA	3/8" x 3/4"	3/8" x 3/4"
3.5	J5HP5042A1000AA	J5AH4P48A1C00AA	3/8" x 7/8"	3/8" x 7/8"
4	J5HP5048A1000AA	J5AH4P48A1C00AA	3/8" x 7/8"	3/8" x 7/8"
5	J5HP5060A1000AA	J5AH5E60A1C00AA	3/8" x 1-1/8"	3/8" x 7/8"

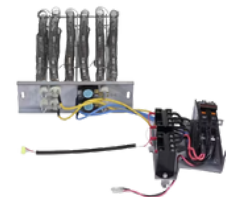


HEAT PUMP COMBINATIONS WITH SMALL CABINET INDOOR WALL MOUNT AIR HANDLER

<u>Ton</u>	<u>Outdoor Heat Pump</u>	<u>Small Cabinet Indoor Wall Mount</u>	<u>Wall Mount Cabinet Size</u>	<u>Liquid Line</u>	<u>Suction Line</u>
1.5	J5HP5018A1000AA	5JMM5A0A24M21SA	20.5 x 15 x 36.5	3/8"	3/4"
2	J5HP5024A1000AA	5JMM5A0A24M21SA	20.5 x 15 x 36.5	3/8"	3/4"
2.5	J5HP5030A1000AA	5JMM5A0B30M21SA	22 x 19 x 39.5	3/8"	3/4"
3	J5HP5036A1000AA	5JMM5A0B36M31SA	22 x 19 x 39.5	3/8"	3/4"

ACCESSORIES - HEAT KITS & TXV'S

<u>Item</u>	<u>Type</u>
5JAYHTR1A05BKA	Multi-Position Heat Kit
5JAYHTR1A08BKA	Multi-Position Heat Kit
5JAYHTR1A10BKA	Multi-Position Heat Kit
5JAYHTR1J05BKA	Wall Mount Heat Kit
5JAYHTR1J08BKA	Wall Mount Heat Kit
5JAYHTR1J10BKA	Wall Mount Heat Kit
5AYTXVH3A1836A	TXV (1.5-3 Ton)
5AYTXVH3A4248A	TXV (3.5-4 Ton)
5AYTXVH3A6000A	TXV (5 Ton)



****ACHEIVE ADDED EFFICIENCY WITH TXV****

SPLIT AIR CONDITIONER AND GAS FURNACE/COIL COMBINATIONS

R454B

208-230/1/60



<u>Ton</u>	<u>Heating BTU</u>	<u>Outdoor Condensing Unit Item Number</u>	<u>Coil Item Number</u>	<u>80% AFUE Furnace Item Number</u>	<u>96% AFUE Furnace Item Number</u>	<u>Liquid Line</u>	<u>Suction ODU / IDU</u>
1.5	60,000	J5AC5018A1000AA	J5MXCB004AC6HCA	J801V060BM4SEA	~	3/8"	3/4"
1.5	80,000	J5AC5018A1000AA	J5MXCB004AC6HCA	J801V080BM4SEA	~	3/8"	3/4"
1.5	60,000	J5AC5018A1000AA	J5MXCB004AC6HCA	~	J962X060BU3SEA	3/8"	3/4"
1.5	80,000	J5AC5018A1000AA	J5MXCB004AC6HCA	~	J962X080BU3SEA	3/8"	3/4"
2	60,000	J5AC5024A1000AA	J5MXCB004AC6HCA	J801V060BM4SEA	~	3/8"	3/4"
2	80,000	J5AC5024A1000AA	J5MXCB004AC6HCA	J801V080BM4SEA	~	3/8"	3/4"
2	100,000	J5AC5024A1000AA	J5MXCC005AC6HCA	J801V100CM5SEA	~	3/8"	3/4"
2	60,000	J5AC5024A1000AA	J5MXCB004AC6HCA	~	J962X060BU3SEA	3/8"	3/4"
2	80,000	J5AC5024A1000AA	J5MXCB004AC6HCA	~	J962X080BU3SEA	3/8"	3/4"
2.5	60,000	J5AC5030A1000AA	J5MXCB004AC6HCA	J801V060BM4SEA	~	3/8"	3/4"
2.5	80,000	J5AC5030A1000AA	J5MXCB004AC6HCA	J801V080BM4SEA	~	3/8"	3/4"
2.5	60,000	J5AC5030A1000AA	J5MXCB004AC6HCA	~	J962X060BU3SEA	3/8"	3/4"
2.5	80,000	J5AC5030A1000AA	J5MXCB004AC6HCA	~	J962X080BU3SEA	3/8"	3/4"
3	60,000	J5AC5036A1000AA	J5MXCB004AC6HCA	J801V060BM4SEA	~	3/8"	3/4"
3	80,000	J5AC5036A1000AA	J5MXCB004AC6HCA	J801V080BM4SEA	~	3/8"	3/4"
3	100,000	J5AC5036A1000AA	J5MXCC005AC6HCA	J801V100CM5SEA	~	3/8"	3/4"
3	60,000	J5AC5036A1000AA	J5MXCB004AC6HCA	~	J962X060BU3SEA	3/8"	3/4"
3	80,000	J5AC5036A1000AA	J5MXCB004AC6HCA	~	J962X080BU3SEA	3/8"	3/4"
3	100,000	J5AC5036A1000AA	J5MXCD018AC6HCA	~	J962X100DU5SEA	3/8"	3/4"
3	120,000	J5AC5036A1000AA	J5MXCD018AC6HCA	~	J962X120DU5SEA	3/8"	3/4"
3.5	60,000	J5AC5042A1000AA	J5MXCB016AC6HCA	J801V060BM4SEA	~	3/8"	7/8-3/4
3.5	80,000	J5AC5042A1000AA	J5MXCB016AC6HCA	J801V080BM4SEA	~	3/8"	7/8-3/4
3.5	100,000	J5AC5042A1000AA	J5MXCC017AC6HCA	J801V100CM5SEA	~	3/8"	7/8-3/4
3.5	120,000	J5AC5042A1000AA	J5MXCD018AC6HCA	J801V120DM5SEA	~	3/8"	7/8-3/4
3.5	80,000	J5AC5042A1000AA	J5MXCC017AC6HCA	~	J962X080CU4SEA	3/8"	7/8-3/4
3.5	100,000	J5AC5042A1000AA	J5MXCC017AC6HCA	~	J962X100CU5SEA	3/8"	7/8-3/4
3.5	120,000	J5AC5042A1000AA	J5MXCD018AC6HCA	~	J962X120DU5SEA	3/8"	7/8-3/4
4	100,000	J5AC5048A1000AA	J5MXCC017AC6HCA	J801V100CM5SEA	~	3/8"	7/8-3/4
4	120,000	J5AC5048A1000AA	J5MXCD018AC6HCA	J801V120DM5SEA	~	3/8"	7/8-3/4
4	100,000	J5AC5048A1000AA	J5MXCD010AC6HCA	~	J962X100DU5SEA	3/8"	7/8-3/4
4	120,000	J5AC5048A1000AA	J5MXCD010AC6HCA	~	J962X120DU5SEA	3/8"	7/8-3/4
5	100,000	J5AC5060A1000AA	J5MXCC009AC6HCA	J801V100CM5SEA	~	3/8"	1-1/8-3/4
5	120,000	J5AC5060A1000AA	J5MXCD010AC6HCA	J801V120DM5SEA	~	3/8"	1-1/8-3/4
5	100,000	J5AC5060A1000AA	J5MXCD010AC6HCA	~	J962X100DU5SEA	3/8"	1-1/8-3/4
5	120,000	J5AC5060A1000AA	J5MXCD010AC6HCA	~	J962X120DU5SEA	3/8"	1-1/8-3/4

PACKAGE UNITS

R454B



Ton	Type	Item	Heat Input BTU	Heat Output BTU	VOLTS/PH/HZ
2	Gas Pack	J5PG4024A1060A	60,000	48,000	208/230/1/60
2.5	Gas Pack	J5PG4030A1060A	60,000	48,000	208/230/1/60
3	Gas Pack	J5PG4036A1090A	90,000	72,000	208/230/1/60
3.5	Gas Pack	J5PG4042A1090A	90,000	72,000	208/230/1/60
4	Gas Pack	J5PG4048A1090A	90,000	72,000	208/230/1/60
5	Gas Pack	J5PG4060A1090A	90,000	72,000	208/230/1/60
Ton	Type	Item	Nominal BTU		VOLTS/PH/HZ
2	Heat Pump	J5PH4024A1000A	24,000		208/230/1/60
2.5	Heat Pump	J5PH4030A1000A	30,000		208/230/1/60
3	Heat Pump	J5PH4036A1000A	36,000		208/230/1/60
3.5	Heat Pump	J5PH4042A1000A	42,000		208/230/1/60
4	Heat Pump	J5PH4048A1000A	48,000		208/230/1/60
5	Heat Pump	J5PH4060A1000A	60,000		208/230/1/60

ACCESSORIES: HEATER KIT, ROOF CURBS, FILTER KITS, FRESH AIR DAMPERS & TOUCH UP PAINT

Item	Description	
5JAYHTR1P05BKA	Heat Kit	5 kw
5JAYHTR1P08BKA	Heat Kit	8 kw
JAYCURB002A	Roof Curb	24-42K
JAYCURB003A	Roof Curb	48-60K
JAYFLTR102A	Filter Kit	24-42K
JAYFLTR103A	Filter Kit	48-60K
JAYOSAH002A	Fresh Air Damper	24-42K
JAYOSAH003A	Fresh Air Damper	48-60K
PAI00429	Aerosol Touch Up Paint	

LINESETS- SUCTION LINE 1/2" - LIQUID LINE UNINSULATED

Item	Liquid	Suction	Length
LS61220250L	3/8"	3/4"	25 Feet
LS61220500L	3/8"	3/4"	50 Feet
LS61420250L	3/8"	7/8"	25 Feet
LS61420500L	3/8"	7/8"	50 Feet
LS61820250L	3/8"	1-1/8"	25 Feet
LS61820500L	3/8"	1-1/8"	50 Feet
Item	Reducing Size		
M1-1/8x3/4 Red	1-1/8" to 3/4"		
M7/8x3/4 Red	7/8" to 3/4"		
M1-1/8x7/8 Red	1-1/8" to 7/8"		

HEAT PUMP UNITS



Model	Refrigerant Type	Cooling BTUH	Voltage	Electric Heat	EER	MOCOP	COP	Reverse Cycle Heating BTUH
PTH073K35AXXX	R410A	7,100 / 7,000	230v / 208	8,500 / 6,800	12.0 / 12.4	15	3.4 / 3.5	6,500 / 6,400
PTH093K35AXXX	R410A	9,000 / 9,000	230v / 208	12,000 / 9,900	11.9 / 12.0	20	3.4 / 3.4	8,200 / 8,000
PTH123K35AXXX	R410A	11,600 / 11,400	230v / 208	12,000 / 9,900	11.0 / 11.1	20	3.2 / 3.2	10,600 / 10,500

THERMOSTAT OPTIONS

Model	Unit Type	Heat Stages	Cool Stages	Program-able	Auto Change-Over	Connection Type	Style
PHWT-A150H	Heat Pump	2	2	No	No	Wired 24V - Min 7 Wires	Square/Digital
PHWT-A200	Heat Pump	2	2	Yes	Yes	Wired 24V - Min 7 Wires	Square/Digital
MMW-2	Heat Pump	2	2	No	No	Wireless Non-EMS	Horizontal/Digital

AMANA PTAC ACCESSORIES

Type	Model	Description	Lbs.
Sub-Base	PTSB320QW	230/208 Volts 15/20 Amp	8
Wall Sleeve	WS900QW	Standard wall sleeve, insulated, 14 1/8" D x 42" W x 16" H - galvanized steel, Quiet White color	30
Drain Kit	DK900QW	Drain kit - for either internal or external drain system. Quiet White color	1
Exterior Grille	AGK01CB	Single pack architectural aluminum grille, clear anodized finish	9



HEAT PUMP UNITS



Model	Refrigerant Type	Cooling BTUH	Voltage	Electric Heat	EER	MOC P	COP	Reverse Cycle Heating BTUH
DHP093A35AA	R410A	9,000/8,800	230v / 208	3.5/2.9 kW	11.4	20	3.4	8,100/7,900
DHP123A35AA	R410A	12,000/11,800	230v / 208	3.5/2.9 kW	10.5	20	3.2	10,800/10,500

DISTINCTION ACCESSORIES

Type	Model	Description	Lbs.
Wall Sleeve	WS900E-C	Collapsed wall sleeve, steel insulated, 14 1/8" D x 42" W x 16" H, galvanized steel, Stonewood Beige, must be field assembled	30
Drain Kit	DK900D	Drain kit	1
Exterior Grille	AGK01CB	Single pack clear anodized unpainted	9
Sub-Base	PTSB320E	230/208 Volts 15/20 Amp	8



BIG ASS FANS

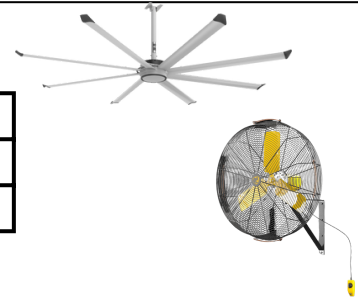
INDUSTRIAL OVERHEAD - BASIC 6 MODEL



<u>ITEM NUMBER</u>	<u>MODEL</u>	<u>DESCRIPTION</u>
<i>BASIC 6 MODELS:</i>		
BAB6x14-240-1	Basic 6 Industrial Fan 14'	200-240v/1PH, 1.5HP, >725W
BAB6x16-460-3	Basic 6 Industrial Fan 16'	400-480v/3PH, 2.0 HP, >725W
BAB6x16-208/230-3	Basic 6 Industrial Fan 16'	200-250v/3PH, 2.0 HP, >725W
BAB6x24-460-3	Basic 6 Industrial Fan 24'	400-480v/3PH, 2.0 HP, >725W, AFRS
BAB6x24-208/230-3	Basic 6 Industrial Fan 24'	200-250v/3PH, 2.0 HP, >725W, AFRS
<i>BASIC 6 MOUNTING ACCESSORIES:</i>		
BAM-PF2-0102	Basic 6 Standard Mount Kit	Beam Mount, 2' Extension Tube
BAM-PF2-0105	Basic 6 Standard Mount Kit	Beam Mount, 5' Extension Tube
BAM-PF2-0110	Basic 6 Standard Mount Kit	Beam Mount, 10' Extension Tube
BA41106011	Z-Purlin Assembly Kit	Clear Zinc
<i>BASIC 6 CONTROLLER:</i>		
BAFCONMFKIT	BAFCON RTC & Multi-Fan Kit Compatible with Basic 6 and AirEye	For Industrial Fans, Up to 24 Units
BAC-WSC-00-01	Wired Standard Controller	Standard 1 to 1 fan controller

ESSENCE MODEL

<u>Item #</u>	<u>Model</u>	<u>Description</u>
F-ES2-1201A384Q141V46	Essence fan 12'	100-125V/1 Phase - Silver / Black
M-ES1-0603	Essence mount kit	Universal Mount kit - 3' drop tube



DIRECTIONAL FAN - AIREYE

<u>Item #</u>	<u>Model</u>	<u>Description</u>
BAF-AE1-2401	AirEye Fan Kit 24" Guards, Yellow Blades	120v/1 PH, 1/3 HP, >200W
BAF-AE1-3001	AirEye Fan Kit 30" Black Guards, Yellow Blades	120v/1 PH, 1/3 HP, >200W
<i>AirEye Accessories:</i>		
BA007265-074	AirEye Wall Mount Kit	
BA9182	AirEye C-Channel & I-Beam Mount Kit	
BA7270	AirEye 3 FT Drop Cord Control Ext	
BAFCONAEKIT	BAFCON RTC & Multi-Fan Kit Compatible with Basic 6 and AirEye	For AirEye Only, Up to 8 Fans

AVAILABLE CHARLOTTE ONLY

SANTA FE DEHUMIDIFIERS



<u>Item Number</u>	<u>Model Description</u>	<u>Water Removal</u> <u>_(Gallons/Day)</u>	<u>Current Draw</u> <u>_(AMPS)</u>	<u>Dimensions</u> <u>_(WxHxD)</u>	<u>Weight</u>
SFCompact70	Compact 70 Stand Alone	8.8	5.1	12x12x21	55 LBS
SFAdvance90	Advance90 Stand Alone	11.3	5.7	14.5x19.4x26	80 LBS
SFUltra70	Ultra70 Horizontal	8.75	5.1	12x12x28	55 LBS
SFUltra98	Ultra98 Horizontal	12.25	5.9	14.5x19.5x32.4	81 LBS
SFUltra 120	Ultra120 Horizontal	15.125	7.3	14.4x21x32.2	91 LBS
SFUltra120V	Ultra120V Vertical	15.5	5.8	26.8x43.5x18.8	120 LBS
SFUltra205	Ultra205 Horizontal	25.6	13.2	20.3x21.8x41.5	140 LBS
SFMD33	In-Wall Mounted	4.1	2.8	14.2x30x5.8	39 LBS

MERV-13 FILTERS

<u>Item Number</u>	<u>Accessory To</u>	<u>Size</u>
SFMerv70-1	Compact70, Ultra 70	.75"x9"x11.38"
SFMerv70-12	Compact70, Ultra 70	.75"x9"x11.38"
SFMerv90/120-1	Advance 90, Ultra 98, Ultra 120	1.75"x14"x17.5"
SFMerv90/120-12	Advance 90, Ultra 98, Ultra 120	1.75"x14"x17.5"

ACCESSORIES

SFHangKitSmall	Hanging Kit for Compact, Advance, Ultra70, Ultra98 & Ultra120 Models
SFDEH3000R	Digital Controller w/Remote Sensor-Compatible with all Ultra Series except the MD33
SFHumidipro	Honeywell HumidiPRO Digital Humidity Control

The MD33 is a wall mounted dehumidifier designed to fit between two wall studs making it ideal for apartments, senior living centers, student housing and hotels. Installation requires cutting through both walls on either side of the dehumidifier, however, the purchase of additional accessories may be needed based on the following scenarios:

- *If back wall is functional space, installation requires a 2x4 Wall Mount Bezel Kit
- *For surface mount installation on block (brick) wall, the surface mount kit is required
- *If other side of the wall goes into unconditioned space, it may require rear panel kit

**FOR PROJECT QUOTES EMAIL CITYDESK@HOFFMAN-HOFFMAN.COM OR
CALL (800)928-9415**

MARKEL SERIES 5100 UNIT HEATERS



<u>Model</u>	<u>KW</u>	<u>BTUH (000)</u>	<u>Heater Voltage</u>	<u>Control Voltage</u>	<u>Phase</u>
MKHF2B5103	2.5/3.3	8.5/11.2	208/240	208/240	3/1
MKHF2B5105	3.7/5.0	12.8/17.1	208/240	208/240	3/1
MKHF2B5107CA1	5.6/7.5	19.2/25.6	208/240	24	3/1
MKHF2B5110CA1	7.5/10.0	25.6/34.1	208/240	24	3/1
MKG1G5103	3.3	11.2	277	277	1
MKG1G5105	5.0	17.1	277	277	1
MKP3P5103CA1	3.3	11.2	480	24	3
MKP3P5105CA1	5.0	17.1	480	24	3
MKP3P5107CA1	7.5	25.6	480	24	3
MKP3P5110CA1	10.0	34.1	480	24	3
MKP3P5115CA1	15.0	51.2	480	24	3
MKP3P5120CA1	20.0	68.3	480	24	3

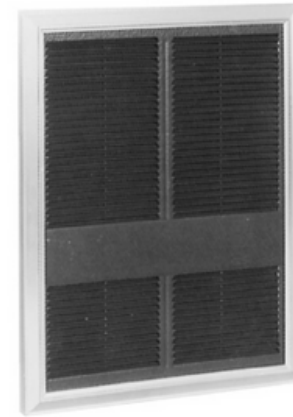
ACCESSORIES

<u>Model</u>	<u>Description</u>	<u>For Use With</u>
MKA5105	Horizontal Mounting Bracket	3.3 & 5.0 KW Heaters
MKA5120	Horizontal Mounting Bracket	7.5 - 20 KW Heaters
MKV5105	Vertical Mounting Bracket	3.3 - 5.0 KW Heaters
MKV5120	Vertical Mounting Bracket	7.5 - 20 KW Heaters
MKT5100	Field Installed Internal Thermostat	For all Except MKHF2B5103, 05 3 ph
MKT5102	Field Installed Internal Thermostat	HF2B5103, 05, 3 ph
MKTW1512	HD Line Voltage Wall Thermostat	3 Phase Heaters
MKS2022H10AB	Line Voltage Wall Thermostat	1 Phase Heaters
MKRK120EAA	Low Voltage Wall Thermostat	24V Control Units
MKDCS202/5100	Power Disconnect Switch	2 Pole; 20 AMP; 120-277 VAC
MKDCS403/5100	Power Disconnect Switch	3 Pole; 40 AMP; 120-600 VAC
MKDCS603/5100	Power Disconnect Switch	3 Pole; 60 AMP; 600 VAC

MARKEL FAN FORCED ELECTRIC WALL HEATERS



<u>Model</u>	<u>KW</u>	<u>BTUH (000)</u>	<u>Voltage/Phase</u>
MKE3323	1.5	5120	120/1
MKHF3323	1.125/1.5	3840/5120	208/240/1
MKHF3324	1.5/2.0	5120/6284	208/240/1
MKHF3325	2.25/3.0	7763/10,350	208/240/1
MKHF3326	3.0/4.0	10,350/13,800	208/240/1
MKG3324	2.0	6284	277/1
MKG3325	3.0	10,350	277/1
MKG3326	4.0	13,800	277/1



ACCESSORIES

<u>Model</u>	<u>Description</u>
MK3320EX33	Surface Mounting Sleeve
MK3310	Rough-In Box for Advance Installation
MKETD9STS	ETD9STS Spdt Heat Or Cool Thermostat W Thermometer, Terminals, 59-90F

AIR FILTRATION

PLEATED PREFILTERS

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

<u>Item #</u>	<u>Nominal Size</u>	<u>Actual Size</u>	<u>Filters Per Case</u>
AFP20X20X1	20x20x1	19 1/2 x 19 1/2 x 3/4	12
AFP16X20X2	16x20x2	15 1/2 x 19 1/2 x 1 3/4	12
AFP20X20X2	20x20x2	19 1/2 x 19 1/2 x 1 3/4	12
AFP16X25X2	16x25x2	16 1/2 x 24 1/2 x 1 3/4	12
AFP20X25X2	20x25x2	19 1/2 x 24 1/2 x 1 3/4	12
AFP12X24X2	12x24x2	11 3/8 x 23 3/8 x 1 3/4	12
AFP24X24X2	24x24x2	23 3/8 x 23 3/8 x 1 3/4	12
AFP12X24X4	12x24x4	11 3/8 x 23 3/8 x 3 3/4	12
AFP24X24X4	24x24x4	23 3/8 x 23 3/8 x 3 3/4	6



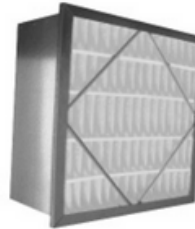
FILTER FRAMES AND FASTENERS

- 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



Item #	Frame Size
FPPPF11224	12x24
FPPPF12424	24x24

Item #	Upstream or Downstream	Fastener Used to Secure	Qty. Required per Filter
FPCC611	UP OR DOWN	1" or 2" deep filter	4
FPWF611	UP OR DOWN	4" deep filter	4
FPPFC-2	UP	2" deep 30% as a prefilter to a cartridge (no header)	4
FPPFC-4	UP	4" deep 30% as a prefilter to a cartridge (no header)	4
FPPCA-2	UP OR DOWN	2" deep filter	4
FPPCA-3	UP OR DOWN	2" deep 30% as a prefilter to a cartridge	4
FPPCA-4	UP OR DOWN	4" deep filter	4
FPPCA-5	UP OR DOWN	4" deep 30% as a prefilter to a cartridge	4
FP12611	UP OR DOWN	12" cartridge without prefilter	4



PLEATED PREFILTERS

Item #	Model	Actual Size	Filters Per Case
AFP95H-12X24X12	12x24x12	11 3/8 x 23 3/8 x 11 1/2	2
AFP95H-24X24X12	24x24x12	23 3/8 x 23 3/8 x 11 1/2	1

FILTER MEDIA ROLLS

Item #	Nominal Size	Description
FTFILTER-ROLL	24 X 90 X 3/4	Merv 7 Filter Media Roll
FTFILTER-ROLL-3	36 X 90 X 3/4	Merv 7 Filter Media Roll
FTFILTER-ROLL-5	60 X 90 X 1	Merv 8 Filter Media Roll

****GREENSBORO WARHOUSE ONLY****

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

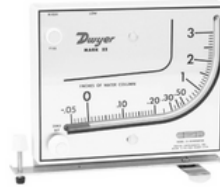
Model #	Range
DW2001	0 - 1.0"
DW2002	0 - 2.0"
DW2006	0 - 6.0"
DWA-605	N/A



MANOMETERS

DWYER MARK II MOLDED PLASTIC MANOMETER

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

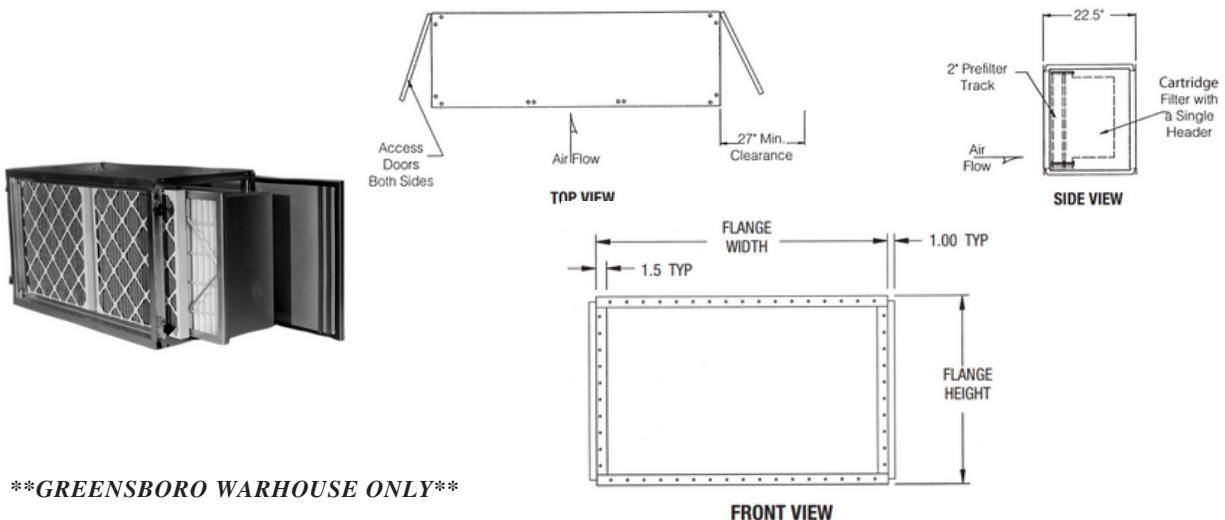


Model #	Description
DW25	Manometer No. 25 - Range .05 - 3"
DWA-310	3-way vent valve (2 per gauge)
DWA-101	Red gauge oil, .826 sp. gr.

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" 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" cartridge filters (not stocked) and 12" cartridge filters (stocked)
- Filters slide into tracks. No need for holding frames or fasteners

Model #	Actual Size	Prefilters Required Per Unit	Cartridge Filters Required Per Unit
CFGP-MT25-1Hx1W	23 3/8" x 27 1/4"	(1) - 24x24x2	(1) - 24x24x12
CFGP-MT25-1Hx2W	46 3/4" x 27 1/4"	(2) 24x24x2	(2) - 24x24x12



****GREENSBORO WARHOUSE ONLY****

STEEL SPRING MOUNTINGS AND HOUSINGS

• Types BE & CE-1 Housings (Base Mount)

Item	Type	Spring Size
VMBE-H	BE	C50-C370
VMCE-1-H	CE-1	D120-D1360



• Type ASC & ASCB Housing (Base Mount)

Item	Type	Spring Size
VMASC-H	ASC	C50-C370
VMASCB-H	ASCB	C50-C370



• Type CE-2 Housing (Base Mount)

Item	Type	Spring Size
VMCE-2-H	CE-2	D510-D1360



• Type HS Housing (Hanging)

Item	Type	Spring Size
VMHS-1C-00	HS	C50-C370
VMHS-1D-00	HS	D120-D1360



• Type HRS Housing (Hanging)

Item	Type	Spring Size
VMHRS-1C-00	HRS	C50-C370
VMHRS-1D-00	HRS	D120-D1360



UNIVERSAL SPRINGS CHART

Spring Number	Spring Color	Size	Max Load (lbs.)
T1C-50	BLUE	2 3/4"	50
T1C-100	TAN	2 3/4"	100
T1C-150	RED	2 3/4"	150
T1C-250	BLACK	2 3/4"	250
T1C-370	YELLOW	2 3/4"	370
T1D-120	BLACK	4"	120
T1D-175	BLUE	4"	175
T1D-250	YELLOW	4"	250
T1D-340	RED	4"	340
T1D-510	BLACK	4"	510
T1D-675	PURPLE	4"	675
T1D-900	GREEN	4"	900
T1D-1200	GRAY	4"	1200
T1D-1360	WHITE	4"	1360



MODEL HS & HRS SPRING FLEX HANGERS

Type HS Springs

<u>Spring Number</u>	<u>Spring Color</u>	<u>Size</u>	<u>Max Load (lbs.)</u>
VMHS-1B-20	Blue	2-1/2"	20
VMHS-1B-35	Black	2-1/2"	35
VMHS-1B-50	Red	2-1/2"	50
VMHS-1B-70	Green	2-1/2"	70
VMHS-1B-85	Gray	2-1/2"	85



Housings & Springs for models HS and HRS**



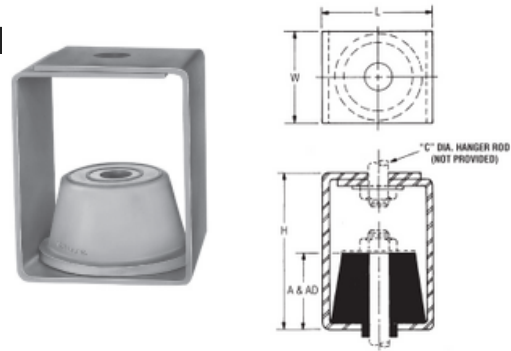
Type HRS Springs

<u>Spring Number</u>	<u>Spring Color</u>	<u>Size</u>	<u>Max Load (lbs.)</u>
VMHRS-1B-20	Blue	2-1/2"	20
VMHRS-1B-35	Black	2-1/2"	35
VMHRS-1B-50	Red	2-1/2"	50
VMHRS-1B-70	Green	2-1/2"	70
VMHRS-1B-85	Gray	2-1/2"	85

NEOPRENE-IN-SHEAR MOUNTIN

Hanging Style

Item Number	Max Load	Type
VMHR-A-35	35 lbs	HR-A
VMHR-A-45	45 lbs	HR-A
VMHR-A-75	75 lbs	HR-A
VMHR-A-120	120 lbs	HR-A
VMHR-B-170	170 lbs	HR-B
VMHR-B-240	240 lbs	HR-B
VMHR-B-380	380 lbs	HR-B



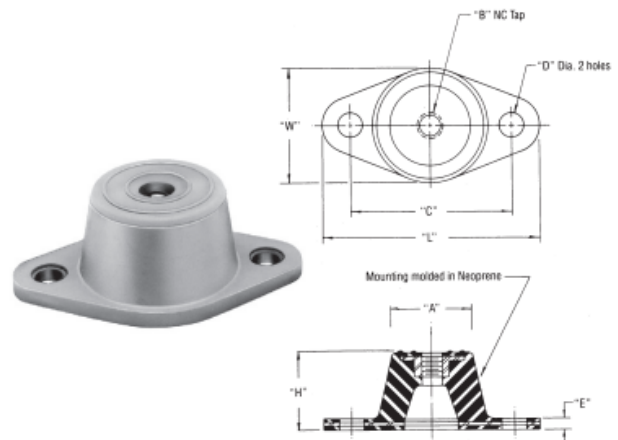
Type	L	W	H	A*	AD*	C
HR-A	2 1/4"	2"	3"	1 1/8"	1 3/8"	3/8"
HR-B	3"	2 1/4"	4 1/2"	1 3/8"	1 7/8"	5/8"

Base Mount Style

Item Number	Max Load (lbs.)	Type
VMR-1-BLUE	35 lbs	R-1
VMR-1-BLACK	45 lbs	R-1
VMR-1-RED	70 lbs	R-1
VMR-1-GREEN	120 lbs	R-1

Item Number	Max Load (lbs.)	Type
VMR-3-BLACK	250 lbs	R-3
VMR-3-RED	525 lbs	R-3
VMR-3-GREEN	750 lbs	R-3
VMR-3-GRAY	1100 lbs	R-3

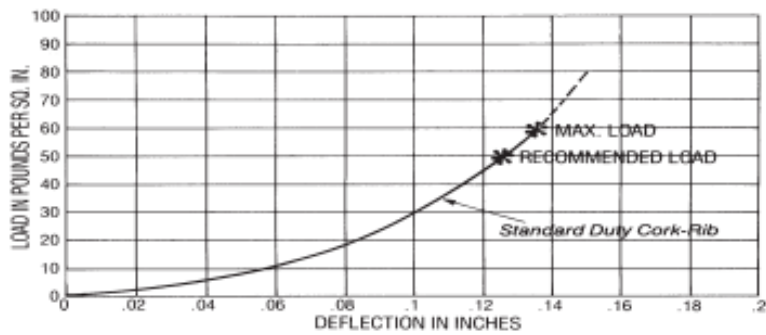
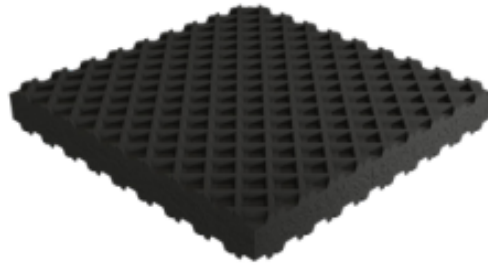
Item Number	Max Load (lbs.)	Type
VMR-2-BLUE	135 lbs	R-2
VMR-2-BLACK	170 lbs	R-2
VMR-2-RED	240 lbs	R-2
VMR-2-GREEN	380 lbs	R-2



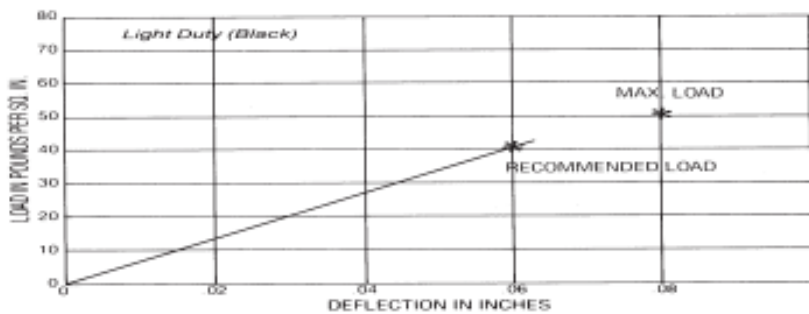
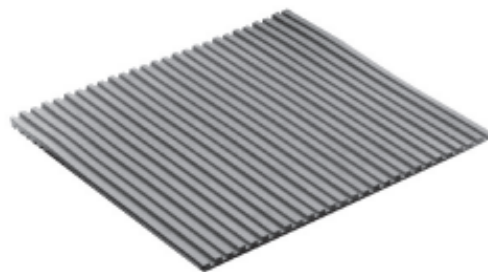
Type	L	W	H	A	B	C	D	E
R-1	3 1/8"	1 3/4"	1"	1 1/4"	5/16"	2 3/8"	11/32"	3/16"
R-2	3 7/8"	2 3/8"	1 1/4"	1 3/4"	3/8"	3"	11/32"	7/32"
R-3	5 1/2"	3 3/8"	1 3/4"	2 1/2"	1/2"	4 1/8"	9/16"	1/4"

ELASTOMERIC & SHEAR-FLEX PADS

Item #	Size
VMCRP18X18	18" x 18" x 1"
VMCRP6X6	6" x 6" x 1"
VMCRP4X4	4" x 4" x 1"
VMCRP2X2	2" x 2" x 1"



Item #	Size
VMSFP18X18	18" x 18" x 3/8"



FLEXIBLE DUCT BY JP LAMBORN AND QUIETFLEX

Flex Duct R-6 Insulated

- Class 1 Flexible Air Duct, 5,000 FPM Velocity.
- JPL Positive Pressure 6" W.G. (4"-12"), 4" W.G. (14"-20").
- JPL Negative Pressure 1" W.G. (4"-10") 1/2" W.G. (12"-20").
- QF Positive Pressure 10" W.G. Negative Pressure 1/2" W.G.

	JPL Box**	JPL Bag*	QF Bag*
4"X25' R-6	JPMHP25R6-4	JPMHP25R6B-4	QFRS6-4
6"X25' R-6	JPMHP25R6-6	JPMHP25R6B-6	QFRS6-6
8"X25' R-6	JPMHP25R6-8	JPMHP25R6B-8	QFRS6-8
10"X25' R-6	JPMHP25R6-10	JPMHP25R6B-10	QFRS6-10
12"X25' R-6	JPMHP25R6-12	JPMHP25R6B-12	QFRS6-12
14"X25' R-6	JPMHP25R6-14	JPMHP25R6B-14	QFRS6-14
16"X25' R-6	JPMHP25R6-16	JPMHP25R6B-16	QFRS6-16
18"X25' R-6	JPMHP25R6-18	JPMHP25R6B-18	~
20"X25' R-6	JPMHP25R6-20	JPMHP25R6B-20	~

*Available Charlotte, Columbia, & Roanoke
 **Available Greensboro ONLY



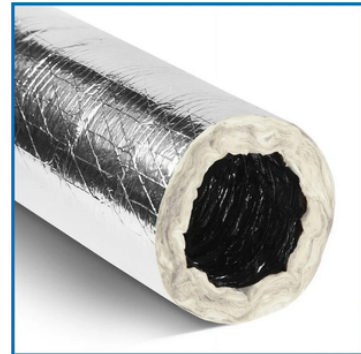
JP Lamborn

Flex Duct R-8 Insulated

- Class 1 Flexible Air Duct, 5,000 FPM Velocity.
- JPL Positive Pressure 6" W.G. Negative Pressure 1" W.G.
- QF Positive Pressure 10" W.G. Negative Pressure 1/2" W.G.

	JPL Box **	JPL Bag*	QF Bag*
4"X25' R-8	~	JPMHP25R8B-4	QFRS8-4
6"X25' R-8	JPMHP25R8-6	~	QFRS8-6
8"X25' R-8	JPMHP25R8-8	~	QFRS8-8
10"X25' R-8	JPMHP25R8-10	~	QFRS8-10
12"X25' R-8	JPMHP25R8-12	~	QFRS8-12
14"X25' R-8	JPMHP25R8-14	~	QFRS8-14
16"X25' R-8	JPMHP25R8-16	~	QFRS8-16

*Available Charlotte, Columbia, & Roanoke
 ** Available Greensboro



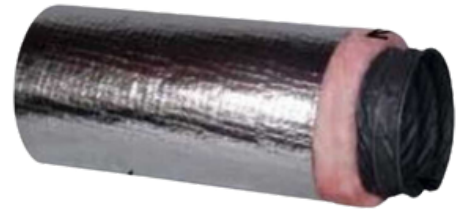
Quietflex

FLEXIBLE DUCT BY FLEXMASTER

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.

6"X25' R-6	FM1MR6-6
8"X25' R-6	FM1MR6-8
10"X25' R-6	FM1MR6-10
12"X25' R-6	FM1MR6-12
14"X25' R-6	FM1MR6-14
16"X25' R-6	FM1MR6-16
18"X25' R-6	FM1MR6-18



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.

6"X25' R-6	FM3MR6-6
8"X25' R-6	FM3MR6-8
10"X25' R-6	FM3MR6-10
12"X25' R-6	FM3MR6-12
14"X25' R-6	FM3MR6-14
16"X25' R-6	FM3MR6-16



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.

6"X25'	FM3NI-6
8"X25'	FM3NI-8
10"X25'	FM3NI-10
12"X25'	FM3NI-12
14"X25'	FM3NI-14



CLAMPS & FLEX TIES

FMNYLON-CLAMP	36" Nylon Clamp
HTT150XLL 9X2	52" Nylon Clamp
DDNS300	1-3/4" X 300 FT Hanging Nova Strap 10180 - Black Woven Polypropylene



Stainless Steel Clamps

<u>Diameter</u>	<u>Item</u>
4-5"	FMCLAMP-4-5
6"	FMCLAMP-6
8-9"	FMCLAMP-8-9
10"	FMCLAMP-10
12"	FMCLAMP-12
14"	FMCLAMP-14
16"	FMCLAMP-16
18"	FMCLAMP-18
20"	FMCLAMP-20



SNAPLOCK PIPE

Snaplock Pipe 26 Gauge

	<u>Southwark</u>	<u>Elgen</u>
4" x 5' - 26 GA	SWSL60426	EGP-4
6" x 5' - 26 GA	SWSL60626	EGP-6
8" x 5' - 26 GA	SWSL60826	EGP-8
10" x 5' - 26 GA	SWSL601026	EGP-10
12" x 5' - 26 GA	SWSL601226	EGP-12
14" x 5' - 26 GA	SWSL601426	EGP-14
16" x 5' - 26 GA	SWSL601626	EGP-16
18" x 5' - 26 GA	~	EGP-18



Snaplock Pipe Gauge

	<u>Southwark</u>
4" x 5' - 30 GA	SWSL60430
6" x 5' - 30 GA	SWSL60630
8" x 5' - 30 GA	SWSL60830
10" x 5' - 30 GA	SWSL601030
12" x 5' - 30 GA	SWSL601230

Adjustable Elbows

	<u>Southwark</u>	<u>Elgen</u>
4" Adjustable Elbow	SW90426	EG-4-90
6" Adjustable Elbow	SW90626	EG-6-90
8" Adjustable Elbow	SW90826	EG-8-90
10" Adjustable Elbow	SW901026	EG-10-90
12" Adjustable Elbow	SW901226	EG-12-90
14" Adjustable Elbow	SW901426	EG-14-90
16" Adjustable Elbow	SW901626	EG-16-90
18" Adjustable Elbow	SW901826	EG-18-90



SNAPLOCK PIPE

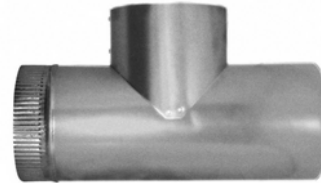
End Caps

	<u>Southwark</u>	<u>Elgen</u>
4" End Caps	SW1294	~
6" End Caps	SW1296	EG-6-Cap
8" End Caps	SW1298	EG-8-Cap
10" End Caps	SW12910	EG-10-Cap
12" End Caps	SW12912	EG-12-Cap
14" End Caps	SW12914	EG-14-Cap
16" End Caps	SW12916	EG-16-Cap



TEES

	<u>Southwark</u>
4" 26GA TEE	SWT264
6" 26GA TEE	SWT266
8" 26GA TEE	SWT268
10" 26GA TEE	SWT2610
12" 26GA TEE	SWT2612
14" 26GA TEE	SWT2614



WYES

	<u>Southwark</u>
4" 28GA WYE	SWY154
6" 28GA WYE	SWY156
8" 28GA WYE	SWY158
10" 28GA WYE	SWY1510
12" 28GA WYE	SWY1512
14" 28GA WYE	SWY1514



Storm Collar & Shanty Cap

	<u>Southwark</u>
6" Storm Collar	SW1426
8" Storm Collar	SW1428
6" Shanty Cap	SW996
8" Shanty Cap	SW998



SHEET METAL TAKEOFFS

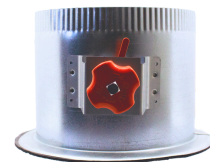
Takeoffs - Press On Collars

	<u>Flat ATD w/Damper</u>	<u>Flat w/Damper</u>	<u>w/Damper & Scoop</u>	<u>w/Damper & Extractor</u>
	SWATD4	~	SWATSD4	~
6" Airtite	SWATD6	EG-6-FLAT	SWATSD6	FMFLDE-SOG-6
8" Airtite	SWATD8	EG-8-FLAT	SWATSD8	FMFLDE-SOG-8
10" Airtite	SWATD10	EG-10-FLAT	SWATSD10	FMFLDE-SOG-10
12" Airtite	SWATD12	EG-12-FLAT	SWATSD12	FMFLDE-SOG-12
14" Airtite	SWATD14	EG-14-FLAT	SWATSD14	FMFLDE-SOG-14
16" Airtite	SWATD16	EG-16-FLAT	~	FMFLDE-SOG-16
18" Airtite	SWATD18	~	~	FMFLDE-SOG-18



Takeoffs - Press On Collars with Standoffs

	<u>w/Standoff & Damper</u>	<u>w/Standoff & Damper</u>	<u>w/Standoff, Damper & Extractor</u>
6" Airtite	FMFLD-B03-SOG-6	EG-6-FLAT-SO	FMFLDE-B03-SOG-6
8" Airtite	FMFLD-B03-SOG-8	EG-8-FLAT-SO	FMFLDE-B03-SOG-8
10" Airtite	FMFLD-B03-SOG-10	EG-10-FLAT-SO	FMFLDE-B03-SOG-10
12" Airtite	FMFLD-B03-SOG-12	EG-12-FLAT-SO	FMFLDE-B03-SOG-12
14" Airtite	FMFLD-B03-SOG-14	EG-14-FLAT-SO	FMFLDE-B03-SOG-14
16" Airtite	FMFLD-B03-SOG-16	EG-16-FLAT-SO	FMFLDE-B03-SOG-16
18" Airtite	FMFLD-B03-SOG-18		FMFLDE-B03-SOG-18



Rectangular to Round Takeoffs

	<u>w/Damper</u>	<u>w/Damper & Standoff</u>	<u>w/Damper Standoff</u>
6" HETO	FMSTOD-6	FMSTOD-B03-6	EG-6-STOD
8" HETO	FMSTOD-8	FMSTOD-B03-8	EG-8-STOD
10" HETO	FMSTOD-10	FMSTOD-B03-10	EG-10-STOD
12" HETO	FMSTOD-12	FMSTOD-B03-12	EG-12-STOD
14" HETO	FMSTOD-14	FMSTOD-B03-14	EG-14-STOD
16" HETO	FMSTOD-16	FMSTOD-B03-16	EG-16-STOD



*STOD - Side Takeoff w/Damper
*HETO - High Efficiency Takeoff

SHEET METAL TAKEOFFS

Tab Collars

	<u>Tab Collar</u>	<u>A Collar w/Damper</u>
4"	~	SW120D4
6"	EG-6-TabCollar	SW120D6
8"	EG-8-TabCollar	SW120D8
10"	EG-10-TabCollar	SW120D10
12"	EG-12-TabCollar	SW120D12
14"	~	SW120D14
16"	~	SW120D16



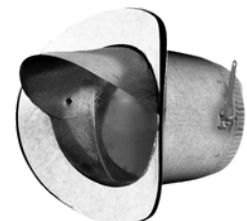
Round Pipe Takeoffs with Damper

<u>Diameter</u>	<u>Round w/Damper</u>	<u>Round w/Damper</u>
4"	~	SWATRPWD4
6"	EG-6-RAT	SWATRPWD6
8"	EG-8-RAT	SWATRPWD8
10"	EG-10-RAT	SWATRPWD10
12"	EG-12-RAT	SWATRPWD12
14"	EG-14-RAT	SWATRPWD14
16"	EG-16-RAT	~



Round Pipe Takeoffs with Damper & Standoff

<u>Diameter</u>	<u>Round wDamper & Standoff</u>	<u>Round wDamper & Standoff</u>	<u>Round wScoop & Damper</u>
6"	EG-6-RAT-SO	SWATDRPS26	SWATSD6
8"	EG-8-RAT-SO	SWATDRPS28	SWATSD8
10"	EG-10-RAT-SO	SWATDRPS210	SWATSD10
12"	EG-12-RAT-SO	SWATDRPS212	SWATSD12
14"	EG-14-RAT-SO	SWATDRPS214	SWATSD14



TAPE, SEALANTS, & SCREWS

TAPE

****G, C - GREENSBORO & COLUMBIA WAREHOUSE**

<u>WHSE</u>	<u>Item #</u>		<u>Description</u>
G, C	JPSF-686-2	UL181B-FX	Foil Tape for sealing of Class 1 Flex Duct
G, C	JPSF-686-3	UL181B-FX	Foil Tape for sealing of Class 1 Flex Duct
G, C	JPST-PC857-2	UL181B-FX	Cloth Duct Tape for Class 1 Flex Duct
G, C	JPST-PC857-3	UL181B-FX	Cloth Duct Tape for Class 1 Flex Duct
G, C	JPST-AF100A-P-2.5	UL181A-P/B-FX	Use on Fiberglass Ductboard & Flex Duct
	HC557-2	UL181B-FX	2" UL 181 557 Metal Tape HC557-2
	HC557-2B	UL181B-FX	2" Black Duct Tape HC557-2B
	HC557-3	UL181B-FX	3" UL 181 557 Silver Tape HC557-3
	HC325803	UL181B-FX	Foil Grip 1402-181 2"x100'
	HC325804	UL181B-FX	Foil Grip 1402-181BFX 3"x100'
	HC304099	UL723	Foil Grip 1402 2"x100'
	HC304100	UL723	Foil Grip 1402 3"x100 HC304100



DUCT SEALANT

<u>WHSE</u>	<u>Item #</u>	<u>Description</u>
G, C	CLSUPERSEAL1	UL181 Duct Sealer Gallon
G, C	DDBB2	2" Bristle Brush
G, C	DDBB3	3" Bristle Brush
	DDSG1	Caulk Gun
	HC304132	Flex Grip 550 Gallon
	HC304135	Iron Grip 601 Gallon
	HC304138	Versa-Grip 181 Gallon
	HC304141	Versa-Grip 181 11oz Tube
	HC304156	Duct Seal 321 Gallon
	HC304159	Duct Seal 321 11oz Tube
	EG-2"Brsh	2" Bristle Brush
	EG-3"Brsh	3" Bristle Brush
	DI7-100	Caulk Gun

DURODYNE SCREWS

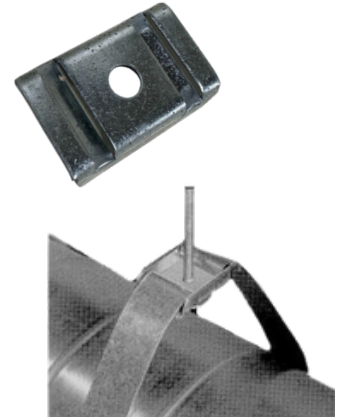
<u>Item #</u>	<u>Description</u>
DDPPT10X1/2	14188 Pro Point Screw 10X1/2
DDPPT10X1	14191 Pro Point Screw 10X1
DDPPT10X3/4	14190 Pro Point Screw 10X3/4
DDPPT10HHX3/4	14210 High Head Pro Point Screw



HANGING MATERIAL & ACCESSORIES

HANGING STRAP

<u>Item #</u>	<u>Description</u>
CLBRACKET	Hanging Strap Buckle (5/16-3/8 ROD)
CLHANGER-STRAP	1" x 100FT 20 Gauge Strap
CLL1.5BSTGA28	1-1/2" x 200 FT Hanger Strap
DDNS300	1-3/4" x 300 FT NOVA Strap



DYNA-TITE WIRE ROPE HANGERS

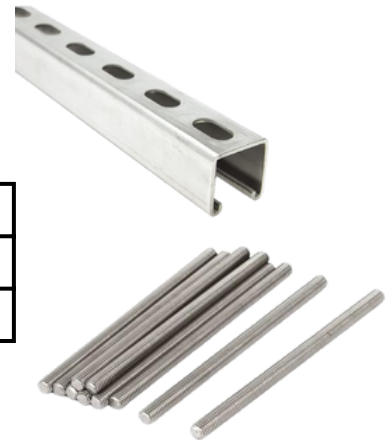
<u>Item #</u>	<u>Description</u>
DDWC-3	WIRE ROPE 3/32 DIA 500FT 30202
DDWC-4	WIRE ROPE 1/8 DIA 500 FT 30204
DDWC-6	WIRE ROPE 3/16DIA 250 FT 30206
DDCL12	DYNA-TITE CABLE LOCK 30351
DDCL18	DYNA-TITE CABLE LOCK 31116
DDCL23	DYNA-TITE CABLE LOCK 30350
GRCutter	Wire Rope Cutter
GRTOOL-4-5BX	Wire Rope Tensioning Tool
DDDIT-2	Dyna-tite Tool
DDKV12	KV Bracket Assembly



UNISTRUT & THREADED ROD

<u>Item #</u>	<u>Description</u>
EG-1-5/8STRT	1-5/8" Unistrut
EG-3/8Rod	3/8" Threaded Rod

****SOLD IN 10 FT SECTIONS****



HANGING MATERIAL & ACCESSORIES

STRUT & ROD ACCESSORIES

Item #	Description		Item #	Description
DI18016	Beam Clamp		DI538-1/4	Cushion Clamp 1/4 in
EG-Bolt-100	3/8"x1" Carriage Bolt (100 Pack)		DI538-3/8	Cushion Clamp 3/8 in
EG-HEX-100	3/8" Hex Nuts (100 Pack)		DI538-1/2	Cushion Clamp 1/2 in
EG-3/8WSHR	3/8" Flat Washer (100 Pack)		DI538-5/8	Cushion Clamp 5/8 in
			DI538-3/4	Cushion Clamp 3/4 in
DI17515	Rigid Strut Clamp 3/4 in		DI538-7/8	Cushion Clamp 7/8 in
DI17516	Rigid Strut Clamp 1 in		DI538-1-1/8	Cushion Clamp 1-1/8 in
DI17518	Rigid Strut Clamp 1-1/2 in		DI538-1-3/8	Cushion Clamp 1-3/8 in
DI17519	Rigid Strut Clamp 2 in		DI538-1-5/8	Cushion Clamp 1-5/8 in
			DI538-2-1/8	Cushion Clamp 2-1/8 in
DI17532	Universal Strut Clamp 1/2 in			
DI17533	Universal Strut Clamp 3/4 in		DI17412	Channel Nut Short Sprg 1/4 in
DI17534	Universal Strut Clamp 1 in		DI17420	Channel Nut Short Sprg 3/8 in
DI17535	Universal Strut Clamp 1-1/4 in		DI17430	Channel Nut Reg Sprg 1/4 in
DI17536	Universal Strut Clamp 1-1/2 in		DI17438	Channel Nut Reg Sprg 3/8 in
DI17537	Universal Strut Clamp 2 in		DI17442	Channel Nut Reg Sprg 1/2 in



FABRICATION SHOP HARDWARE & SUPPLIES



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG55DRUM	WATER BASED LINER ADHESIVE - 55GAL DRUM	Each
EG-AE77	SPRAY ON LINER ADHESIVE CAN AE77 (12 PER BOX)	Each
EGSPRAY-40	SPRAY ON LINER ADHESIVE 40# CANISTER	Each
EGDE-GALV	SUPER DE-GALV CAN (12 PER BOX)	Each
EG-AE40	LUBRICATOR CAN - AE40 (12 PER BOX)	Each
EG-AE88	SPRAY ON EDGE COATING CAN - AE88 (12 PER BOX)	Each



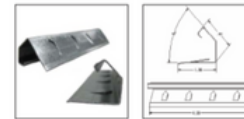
<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-Bolt-1000	3/8 X 1 CARRIAGE BOLTS *BULK* (1000 PER BOX)	Box
EG-Bolt-100	3/8 X 1 CARRIAGE BOLTS (100 PER BOX/PACK)	Box

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-Hex-3000	3/8" HEX NUT *BULK* (3000 PER BOX)	Box
EG-Hex-100	3/8" HEX NUT (100 PER BOX/PACK)	Box



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-3/8WSHR	3/8" Flat washer (100 PER PACK/BOX)	Box

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-E55CLEAT	#E55 CLEAT F/C 22GA (250 PER BOX)	Box



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-Butylplus	440 BUTYL GASKET PLUS (20 PIECES - 500FT PER BOX)	Each

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-1/2x10 CNDT	1/2" x 10ft. Conduit (100/BDL)	Each
EG-1/2Conduit	1/2" EZ-CONDUIT LOCKS (100 PER BOX)	Each
EG-3/4Conduit	3/4" EZ-CONDUIT LOCKS (100 PER BOX)	Each

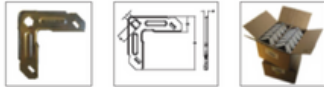


****AVAILABLE CHARLOTTE & ROANOKE****

FABRICATION SHOP HARDWARE & SUPPLIES



Item Number	Description	Unit of Measure (UOM)
EG-FlangeCorner	ELGEN FLANGE CORNERS - BOLT TYPE 16GA (300 PER BOX)	BOX
EG-Jcorner	J CORNERS 12GA (250 PER BOX)	BOX



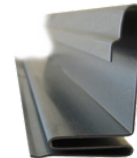
Item Number	Description	Unit of Measure (UOM)
EG-CCorner	STACKABLE "C" CORNERS 16GA (250 PER BOX)	Box
EG-Fcorner	STACKABLE "F" CORNERS 16GA (250 PER BOX)	Box
EG-F-W-Corner	F-W CORNER 14GA (300 PER BOX)	Box

Item Number	Description	Unit of Measure (UOM)
EG-J Angle/holes	J ANGLE X 20FT *WITH HOLES* (75 PIECES - 1,500FT PER BDL)	Each
EG-J Angle	J ANGLE X 20FT *NO HOLES* (75 PIECES - 1,500FT PER BDL)	Each



Item Number	Description	Unit of Measure (UOM)
EG-Drivecleat	1" DRIVE CLEAT 26GA X 10 FT (100FT PER BDL)	Each
EG-Drivecleat-24	1" DRIVE CLEAT 24GA (100FT PER BDL)	BDL

Item Number	Description	Unit of Measure (UOM)
EG-1"StandS	1" STANDING S SLIP 26GA X 10' (100FT PER BDL)	Each
EG-1"FlatS	1" FLAT S SLIP 26GA X 10' (100FT PER BDL)	Each



Item Number	Description	Unit of Measure (UOM)
EG-Shrink2x200	SHRINK WRAP 24" X 200FT *3MIL* BLUE - ADHESIVE IN	Each
EG-Shrink3x200	SHRINK WRAP 36" X 200FT *3MIL* BLUE - ADHESIVE IN	Each
EG-ShrinkRed	SHRINK WRAP 36" X 200FT *3MIL* RED - ADHESIVE IN	Each
EG-ShrinkPurple	SHRINK WRAP 36" X 200FT *3MIL* PURPLE - ADHESIVE IN	Each

****AVAILABLE CHARLOTTE & ROANOKE****

FABRICATION SHOP HARDWARE & SUPPLIES

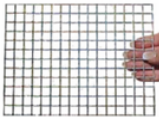
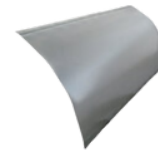


<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-3x3x3Vinlon	ZLL 3X3X3 VINLON COMMERCIAL NOTCHED (100FT PER BOX)	BOX
EG4x4x4Vinlon	ZLL 4X4X4 VINLON C OR F NOTCHED (100FT PER BOX)	BOX
EG-3x3x3Neoprene	ZLN 3X3X3 NEOPRENE COMMERCIAL NOTCHED (100FT PER BOX)	BOX
EG-4x4x4Neoprene	ZLN 4X4X4 NEOPRENE C OR F NOTCHED (100FT PER BOX)	BOX
EG-3x3x3Hypalon	ZLH 3X3X3 HYPALON COMMERCIAL NOTCHED (100FT PER BOX)	BOX
EG-4x4x4Hypalon	ZLH 4X4X4 HYPALON C OR F NOTCHED (100FT PER BOX)	BOX



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-2" Rail	ELGEN "SUPER" RAIL 2" X 10FT (100 FT PER BOX)	Box
EG-4" Rail	ELGEN "SUPER" RAIL 4" X 10FT (100 FT PER BOX)	Box

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-2" Vane	2" x 10' Double Wall Turning Vane (100 FT PER BDL)	Each
EG-4" Vane	4" x 10' Double Wall Turning Vane (50 FT PER BDL)	Each



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-1/2x1/2Mesh	1/2 X 1/2 X 60" WIRE MESH 19 GA (100 FT PER ROLL)	Roll

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-2"Brsh	2" Brush	Each
EG-3"Brsh	3" Brush	Each



<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
EG-3/4Weld	3/4" Elgen Super Point Weld Pins (5,000 PER BOX/BUCKET)	Box
EG-1-1/8Weld	1-1/8" Elgen Super Point Weld Pins (4,000 PER BOX/BUCKET)	Box

<u>Item Number</u>	<u>Description</u>	<u>Unit of Measure (UOM)</u>
TGR-717487	1" x 44-1/4" x 100' ToughGard Duct Liner	Each
TGR-716881	1" x 47-1/2" x 100' ToughGard Duct Liner	Each
TGR-716884	1" x 56-1/4" x 100' ToughGard Duct Liner	Each
TGR-716888	1" x 59 x 100' ToughGard Duct Liner	Each
TGR-717085	1-1/2" x 59-1/4" x 70' ToughGard Duct Liner	Each
TGR-717082	1-1/2" x 56-1/4" x 70' ToughGard Duct Liner	Each



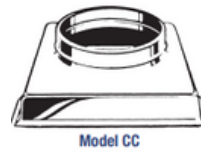
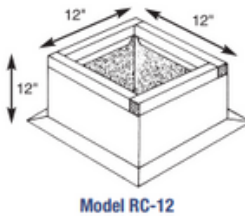
****AVAILABLE CHARLOTTE & ROANOKE****

PIPE PORTALS

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

<u>Model</u>
RC12 Curb
PPCC Curb Cover



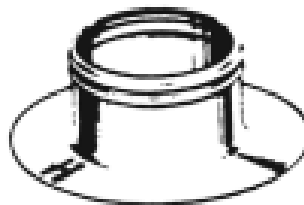
<u>Cap Model</u>	<u>Accommodates Pipe Sizes</u>
PPC-126 (1 Pipe)	Single pipe 2" thru 6"
PPC-212 (4 Pipe)	Two pipes 3/8" thru 1" ; Two pipes 1" thru 2"
PPC-481 (4 Pipe)	Four pipes 3/8" thru 1"



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.

<u>Model</u>
PPAlumni-Flash



AMERIVENT TYPE B GAS VENT

Item	Description	Item	Description
AV-4-12	4" x 12" B Vent Pipe	AV-5-12	5" x 12" B Vent Pipe
AV-4-18	4" x 18" B Vent Pipe	AV-5-18	5" x 18" B Vent Pipe
AV-4-24	4" x 24" B Vent Pipe	AV-5-24	5" x 24" B Vent Pipe
AV-4-36	4" x 36" B Vent Pipe	AV-5-36	5" x 36" B Vent Pipe
AV-4-48	4" x 48" B Vent Pipe	AV-5-48	5" x 48" B Vent Pipe
AV-4-60	4" x 60" B Vent Pipe	AV-5-60	5" x 60" B Vent Pipe
AV-4-6	4" x 6" B Vent Pipe	AV-5-6	5" x 6" B Vent Pipe
AV-4-Std. Flash	4" B Vent Standard Flashing	AV-5-Pitch Flash	5" B Vent Pitch Flashing (6/12-12/12)
AV-4-Pitch Flash	4" B Vent Pitch Flashing (6/12-12/12)	AV-5-Std. Flash	5" B Vent Standard Flashing
AV-4-12 Adj Lgth	4" x 12" B Vent Adjustable Length Pipe	AV-5-12 Adj Lgth	5" x 12" B Vent Adjustable Length Pipe
AV-4-SBracket	4" B Vent Support Bracket	AV-5-DHC	5" B Vent Draft Hood Connect
AV-4-DHC	4" B Vent Draft Hood Connect	AV-5-45	5" B Vent 45 Deg Adjustable Elbow
AV-4-45	4" B Vent 45 Deg Adjustable Elbow	AV-5-LOffset	5" B Vent Adjustable "L" Offset
AV-4-LOffset	4" B Vent Adjustable "L" Offset	AV-5-SPlate	5" B Vent Support Plate
AV-4-SPlate	4" B Vent Support Plate	AV-5-Cap	5" B Vent Cap
AV-4-Cap	4" B Vent Cap	AV-5-SCollar	5" B Vent Storm Collar
AV-4-SCollar	4" B Vent Storm Collar	AV-5-TeeCap	5" B Vent Tee Cap
AV-4-TeeCap	4" B Vent Tee Cap	AV-5-TallCone	5" B Vent Tall Cone Flashing
AV-4-TallCone	4" B Vent Tall Cone Flashing	AV-5-FHA Flash	5" B Vent FHA Flashing
AV-4-FHA Flash	4" B Vent FHA Flashing	AV-5-Tee	5" B Vent Tee Branch
AV-4-Tee	4" B Vent Tee Branch	AV-5-Fem Adap	5" B Vent Female Adapter
AV-4-Fem Adap	4" B Vent Female Adapter	AV-5-Male Adap	5" B Vent Male Adapter
AV-4-Male Adap	4" B Vent Male Adapter	AV-5-Bucket	5" B Vent Bucket Support Only
AV-4-Bucket	4" B Vent Bucket Support Only	AV-5-SBracket	5" B Vent Support Bracket

AVAILABLE CHARLOTTE ONLY



AMERIVENT TYPE B GAS VENT

<u>Item</u>	<u>Description</u>
AV-6-Std Flash	6" B Vent Standard Flashing
AV-6-Pitch Flash	6" B Vent Pitch Flashing
AV-6-VPH	6" B Vent Pipe Hanger
AV-6x8 Inc.	6x8 B Vent Increaser
AV-6-6	6" x 6" B Vent Pipe
AV-6-12 Adj Lgth	6" x 12" B Vent Adjustable Length Pipe
AV-6-DHC	6" B Vent Draft Hood Connect
AV-6-TallCone	6" B Vent Tall Cone Flashing
AV-6-18	6" x 18" B Vent Pipe
AV-6-Tee	6" B Vent Tee Branch
AV-6-Cap	6" B Vent Cap
AV-6-24	6" x 24" B Vent Pipe
AV-6-45	6" 45 B Vent Deg Adjustable Elbow
AV-6-48	6" x 48" B Vent Pipe
AV-6-12	6" x 12" B Vent Pipe
AV-6-36	6" x 36" B Vent Pipe
AV-6-60	6" x 60" B Vent Pipe
AV-6-LOffset	6" B Vent Adj "L" Offset
AV-6-SCollar	6" B Vent Storm Collar
AV-6-SPlate	6" B Vent Support Plate
AV-6-TeeCap	6" B Vent Tee Cap

<u>Item</u>	<u>Description</u>
AV-8-Std. Flash	8" B Vent Standard Flashing
AV-8-Pitch Flash	8" B Vent Pitch Flashing
AV-8-TallCone	8" B Vent Tall Cone Flashing
AV-8x10 Inc.	8x10 B Vent Increaser
AV-8-6	8" x 6" B Vent Pipe
AV-8-Cap	8" B Vent Cap
AV-8-12 Adj Lgth	8" x 12" B Vent Adjustable Length
AV-8-24	8" x 24" B Vent Pipe
AV-8-DHC	8" B Vent Draft Hood Connect
AV-8-Tee	8" B Vent Tee Branch
AV-8-TeeCap	8" B Vent Tee Cap
AV-8-12	8" x 12" B Vent Pipe
AV-8-36	8" x 36" B Vent Pipe
AV-8-45	8" 45 B Vent Deg Adjustable Elbow
AV-8-18	8" x 18" B Vent Pipe
AV-8-60	8" x 60" B Vent Pipe
AV-8-LOffset	8" B Vent Adjustable "L" Offset
AV-8-SCollar	8" B Vent Storm Collar
AV-8-SBracket	8" B Vent Support Bracket
AV-8-Bucket	8" B Vent Bucket Support Only

AVAILABLE CHARLOTTE ONLY



SPIRAX SARCO PRESSURE REDUCING VALVES 25 SERIES PILOT & TEMPERATURE OPERATED REGULATORS

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

PRESSURE PILOT

Item	Pressure Pilot Type	Downstream Pressure	Stock
SS25P-YELLOW	25-P YELLOW	3-30 psig	G
SS25P-BLUE	25-P BLUE	20-100 psig	G
SS25P-RED	25-P RED	80-250 psig	G



MAIN VALVE

Item	Main Valve Type	Size	Stock
SS25-1/2IN	25	1/2"	G
SS25-3/4IN	25	3/4"	G
SS25-1IN	25	1"	G
SS25-1-1/4IN	25	1-1/4"	G
SS25-1-1/2IN	25	1-1/2"	G
SS25-2IN	25	2"	G



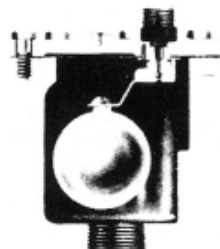
TEMPERATURE PILOT

Item	Temperature Pilot Type	Temperature Range	Stock
SST2/100-160F	T2	100-160 Deg F	G
SST2/120-180F	T2	120-180 Deg F	G
SST2/160-220F	T2	160-220 Deg F	G

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.

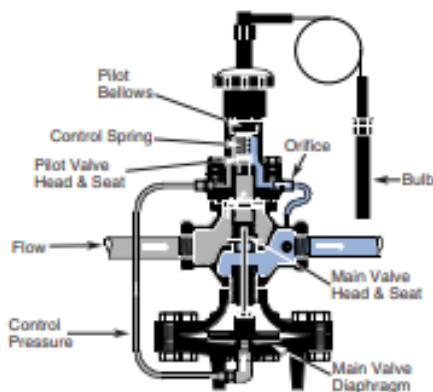
Item	Size	Stock
SS13W-3/4IN	3/4"	G



*ONLY AVAILABLE IN GREENSBORO (G)
SEE NEXT PAGE FOR PRODUCT INFORMATION AND INSTRUCTIONS*

SPIRAX SARCO PRESSURE REDUCING VALVES

25 SERIES PILOT & TEMPERATURE OPERATED REGULATORS



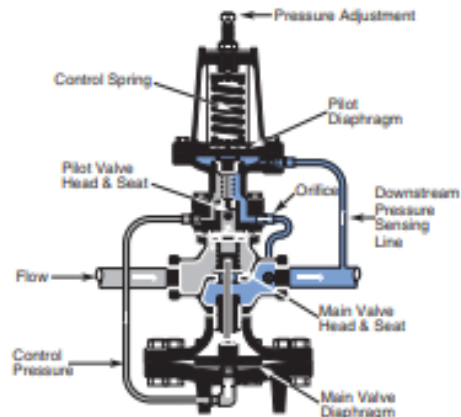
HOW THE 25T PILOT REGULATOR WORKS The Spirax Sarco pilot operated temperature regulator works by converting the process temperature to a force which is balanced by the control spring. This modulates a small valve head over a seat (the pilot). The flow through this seat is directed in turn to the main 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 sensor - 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.



HOW THE 25P PILOT REGULATOR WORKS

The Spirax Sarco pilot operated pressure regulator works by balancing the downstream pressure against a control spring. This modulates a small valve head over a seat (the pilot). The flow through this seat is directed, in turn, to the main valve diaphragm, where it modulates the main valve. In order to achieve the most stable operating condition, an external pressure sensing line must be used. This allows downstream pressure to feed back to the underside of the diaphragm, balancing the spring force, causing the pilot valve to throttle. This settles the pilot valve, allowing a constant flow across the main diaphragm. This ensures that the main valve is also settled to give a stable downstream pressure. When downstream pressure rises, the pilot valve closes, and pressure is released from the main valve diaphragm through the control orifice, to close the main valve. Any variations in load or pressure will immediately be sensed on the pilot diaphragm, which will act to adjust the position of the main valve, ensuring a constant downstream pressure.

HOW TO ORDER

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

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

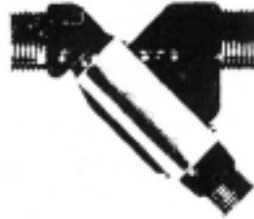
For example: Spirax Sarco 1" Cast Iron Pressure Regulator, Type 25P for 150 psig inlet pressure, yellow spring for 3 to 30 psig reduced pressure, for 15 psig process heating.

SPIRAX SARCO MISCELLANEOUS EQUIPMENT

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.

Item #	Size
SSIT3/8IN	3/8"
SSIT1/2IN	1/2"
SSIT3/4IN	3/4"
SSIT1IN	1"
SSIT1-1/4IN	1 1/4"
SSIT1-1/2IN	1 1/2"
SSIT2IN	2"



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.

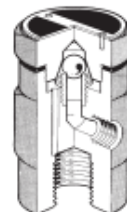
Item #	Type	Size
SST-202-3/8IN	T-202	3/8"
SSVS-204-1/2IN	VS-204	1/2"



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.

Item #	Type	Size
SSVB14-1/2IN	VB14-Brass	1/2"
SSVB21-1/2IN	VB21-Stainless	1/2"



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.

PLEASE CALL GREENSBORO WAREHOUSE @ (800) 334-0254

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.

Item #	Size
SSTD-52-3/8IN	3/8"
SSTD-52-1/2IN	1/2"
SSTD-52-3/4IN	3/4"
SSTD-52-1IN	1"



TYPE F & T FLOAT AND THERMOSTATIC STEAM TRAPS

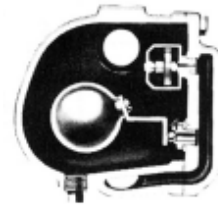
Type F & T traps provide immediate and continuous discharge of condensate, air and non-condensables from a steam system as soon as they reach the trap.

Item #	Type	Size
SSFT-15-3/4IN	FT-15	3/4"
SSFT-15-1IN	FT-15	1"
SSFT-15-1-1/4IN	FT-15	1 1/4"
SSFT-15-1-1/2IN	FT-15	1 1/2"
SSFT-15-2IN	FT-15	2"

Item #	Type	Size
SSFT-30-3/4IN	FT-30	3/4"
SSFT-30-1IN	FT-30	1"
SSFT-30-1-1/2IN	FT-30	1 1/2"
SSFT-30-2IN	FT-30	2"

Item #	Type	Size
SSFT-125-3/4IN	FT-125	3/4"
SSFT-125-1IN	FT-125	1"

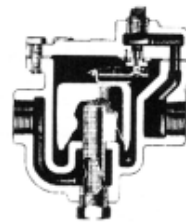
Item #	Type	Size
SSFT-75-3/4IN	FT-75	3/4"
SSFT-75-1IN	FT-75	1"
SSFT-30-1-1/4IN	FT-75	1 1/4"
SSFT-30-1-1/2IN	FT-75	1 1/2"



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.

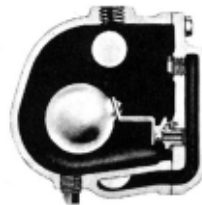
Item #	Type	Size
SSB1H-125-3/4IN	B1-H-125	3/4"
SSB2-125-3/4IN	B2-125	3/4"



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.

Item #	Type	Size
SSFA-150-3/4IN	FA-150	3/4"



*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.
PLEASE CALL GREENSBORO WAREHOUSE @ (800) 334-0254*

Our Story



Since 1947, Hoffman & Hoffman has been helping customers design, build, and maintain high-performing HVAC systems. Founded by Harry and Louis Hoffman, our family of companies has grown to serve technicians, contractors, engineers, and building owners across the Southeast with dependable solutions in HVAC system design, building automation, and service.

With more than 75 years of industry experience and a legacy built on integrity, service, and getting it right the first time, we've earned the trust of customers by delivering smart, reliable solutions for every project. In 2016, the Hoffman Family of Companies became 100% employee-owned—further deepening our commitment to exceptional customer service and long-term partnerships.

Today, we operate five companies across six states, connecting customers with top-tier manufacturers and the industry's best sales engineers and support teams. After years of serving our customers from our Greensboro Warehouse, we expanded with the launch of Hoffman Parts & Warehouse, LLC in 2023 - a dedicated HVAC distributor offering a full range of commercial and residential equipment, parts, and supplies to keep your projects running smoothly and on time.

Wherever you are in the Southeast, we're here to help you get the job done right.

TERMS AND CONDITIONS

04/25

"Hoffman" shall mean Hoffman Parts & Warehouse, LLC, and its officers, employees, and agents. "Buyer" shall mean the person or entity entering into this Agreement with Hoffman to purchase parts or goods. Sale is of parts or goods only, and without limitation, no installation, removal or repair labor is provided or included in the purchase price.

1. Controlling Terms & Conditions: This Agreement, upon Buyer's acceptance, is limited to the terms and conditions stated herein, despite any additional or conflicting terms and conditions contained in any purchase order, any other document presented by Buyer, or any contract document between Buyer and any third-party (i.e. owner, other contractor, etc.), all of which additional or conflicting terms are hereby rejected by Hoffman. No waiver of, or modification to, these Terms and Conditions shall be valid unless made in writing and signed by an authorized representative of Hoffman. Hoffman salespeople are not authorized to waive or modify any Terms and Conditions. The terms of any written proposal / quote made by Hoffman ("proposal") and these Terms and Conditions of Sale ("Hoffman's Terms and Conditions") shall constitute the entire agreement of the parties.

2. Acceptance: Any Hoffman proposal expires if not accepted by Buyer within thirty (30) days from the date of the proposal. After acceptance but prior to shipment, prices are at all times subject to escalation due to increased costs. Cost increases may result from, but are not limited to, tariffs, taxes, manufacturer price increases, government regulations, etc. Typographical and clerical errors in quotations, orders and acknowledgments are subject to correction. Buyer is deemed to have accepted any Hoffman proposal, including these Terms and Conditions, when Buyer either (a) receives and retains an acknowledgment from Hoffman without written objection within ten (10) days, (b) accepts delivery of all or any part of the goods ordered, (c) provides to Hoffman delivery dates, shipping instructions, or other instructions evidencing acceptance, or (d) otherwise executes or assents to any proposal or these Terms and Conditions. Buyer's acceptance shall be deemed subject solely to Hoffman's terms and conditions. If Buyer's acceptance is expressly conditioned upon Hoffman's acceptance or assent to terms and/or conditions other than those stated herein, return or acknowledgment of such order by Hoffman with Hoffman's Terms and Conditions attached or referenced serves as Hoffman's notice of objection to, and rejection of, Buyer's terms and as Hoffman's counter-offer to provide goods in accordance with the Hoffman proposal and Hoffman's Terms and Conditions. If thereafter Buyer does not reject or object in writing to Hoffman within ten (10) days by written notice to Legal@hoffman-hoffman.com, Hoffman's counteroffer will be deemed accepted by Buyer. In any event, Buyer's acceptance of all or any part of any goods ordered will constitute Buyer's acceptance of Hoffman's proposal subject to Hoffman's Terms and Conditions.

3. Terms of Payment / Taxes: Payment is due net thirty (30) days from the date of each Hoffman 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. Hoffman 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 Hoffman including, but not limited to, reasonable attorneys' fees, collection fees, and court costs. Hoffman 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 Hoffman, 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, Hoffman 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 Hoffman, and the underlying proposal, together with these Terms and Conditions, form a security agreement (as defined by the UCC). Buyer shall keep all goods purchased under this Agreement free of all taxes and encumbrances, shall not remove said goods from their original installation point and shall not assign or transfer any interest in said goods until all payments due Hoffman have been made. The purchase-money security interest granted herein attaches upon Hoffman's acceptance or acknowledgment of this Agreement and Buyer's receipt of said goods, but prior to installation. Buyer will have no rights to set off against any amounts which become payable to Hoffman under this Agreement or otherwise. Notwithstanding any Buyer form or document to the contrary, Hoffman shall not release any rights to make a lien and/or bond claim, or other claim for damages, in connection with goods purchased until Hoffman has obtained payment in full for such goods and any damages. Furthermore, Buyer is responsible to pay in full for the goods provided by Hoffman regardless of whether such goods are funded for Buyer pursuant to any extraneous contract and/or by an applicable project owner or contractor. Unless otherwise agreed by Hoffman in writing, Buyer shall pay to Hoffman, in addition to the contract price, all sales, use, excise, privilege or other taxes imposed by any local, state or federal taxing authority payable in connection with the goods furnished.

4. Shipments / Claims: All shipments of goods are at Buyer's risk, f.o.b. factory, or if shipped from another location, f.o.b. point of shipment, with charges either allowed, added to invoice, or collected as noted. Any claims for damage or shortage or loss in transit must be filed by Buyer against the applicable carrier. If requested, Hoffman will reasonably assist the Buyer when making its claim for damages and/or losses while in transit. Claims against factory shortages will not be considered unless made within sixty (60) days after Buyer's receipt of the goods.

5. Approval: Hoffman 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 purchased or ordered by Buyer. Hoffman cannot guarantee to meet or equal specifications written around another make of equipment different than that purchased by Buyer.

6. Warranties and Liability: Upon Hoffman's receipt of payment in full for all amounts owed, under this Agreement, and unless otherwise specifically agreed to in writing by Hoffman, Hoffman 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. HOFFMAN 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. HOFFMAN SHALL HAVE NO LIABILITY FOR ANY DIRECT DAMAGES BY REASON OF FAILURE OF THE EQUIPMENT TO OPERATE OR FAULTY OPERATION OR MISUSE OF THE EQUIPMENT, AND UNDER NO CIRCUMSTANCES SHALL HOFFMAN BE LIABLE TO BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, EXEMPLARY OR LIQUIDATED DAMAGES OR LOSSES, INCLUDING BUT NOT LIMITED TO, LOSS OF USE, INCOME, PROFIT OR PRODUCTION, LOST DATA, SPOILAGE, DELAY, OR INCREASED COST OF OPERATION. SAID EXCLUSIONS APPLY EVEN IF HOFFMAN HAS BEEN ADVISED OF SUCH POSSIBLE DAMAGES OR IF SUCH POSSIBLE DAMAGES WERE REASONABLY FORESEEABLE. Buyer acknowledges that Hoffman is not responsible for the design of goods purchased and that Hoffman did not participate in any project design in connection with such goods. Manufacturer specifications and designs are subject to change without notice. When applicable, for goods containing motor-compressor, furnaces, etc., Buyer must supply manufacturer with a start-up / registration form within the time required by the manufacturer.

7. Limitation of Remedy: Hoffman 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 Hoffman 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 Hoffman shall elect in its sole and absolute discretion: (a) repair or replacement of purchased equipment or its parts by Hoffman or its duly authorized representative or (b) refund of the purchase price. In no event shall Hoffman'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 purchased, unless Buyer notifies Hoffman 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 Hoffman owe any duty or have any obligation whatsoever to any customer or client of Buyer or to any other third party.

8. Hazards: Hoffman 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, Hoffman 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.

9. Indemnification: To the fullest extent permitted by law, Buyer shall indemnify, hold harmless and defend Hoffman 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 provided by Hoffman. 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 Hoffman is alleged or proven to have acted negligently; provided, however, that Buyer shall have no obligation to provide indemnification to Hoffman if the claim asserted arises in negligence and is finally adjudicated to have arisen solely from the negligence of Hoffman. Buyer shall also indemnify and hold harmless Hoffman from all liability for taxes owing in connection with Buyer's purchase of goods. The obligations and rights to indemnify herein shall not negate, abridge or reduce other such rights or obligations under law. This Agreement does not require Buyer to indemnify Hoffman for Hoffman's own negligent or intentional acts or omissions to the extent that doing so would violate applicable law. Buyer and Hoffman 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 Hoffman harmless to the fullest extent permitted by applicable law.

10. Claims Resolution / Governing Law: Unless Hoffman elects otherwise, all claims and disputes between Buyer and Hoffman 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. Hoffman 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. Hoffman shall have the sole and exclusive right, at Hoffman'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 Hoffman elects another court of appropriate jurisdiction in Hoffman'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 Hoffman and Buyer. Buyer consents to the jurisdiction of the state and federal courts located in Greensboro, Guilford County, North Carolina.

11. Delays / Penalties / Force Majeure: Delivery dates are approximate and not guaranteed. In no event and under no circumstances whatsoever will Hoffman be liable for any damages or expenses caused by any failure or delay in making delivery of goods hereunder. No penalty clause or liquidated damages of any kind (for delays or otherwise) apply to Hoffman unless pre-approved in writing by a Hoffman officer. Furthermore, in no event and under no circumstances whatsoever will Hoffman be liable under this Agreement for any event of force majeure, including but not limited to, acts of God, riot, war, terrorism, inclement weather, labor strikes, material shortages, pandemic, and other causes beyond Hoffman's reasonable control.

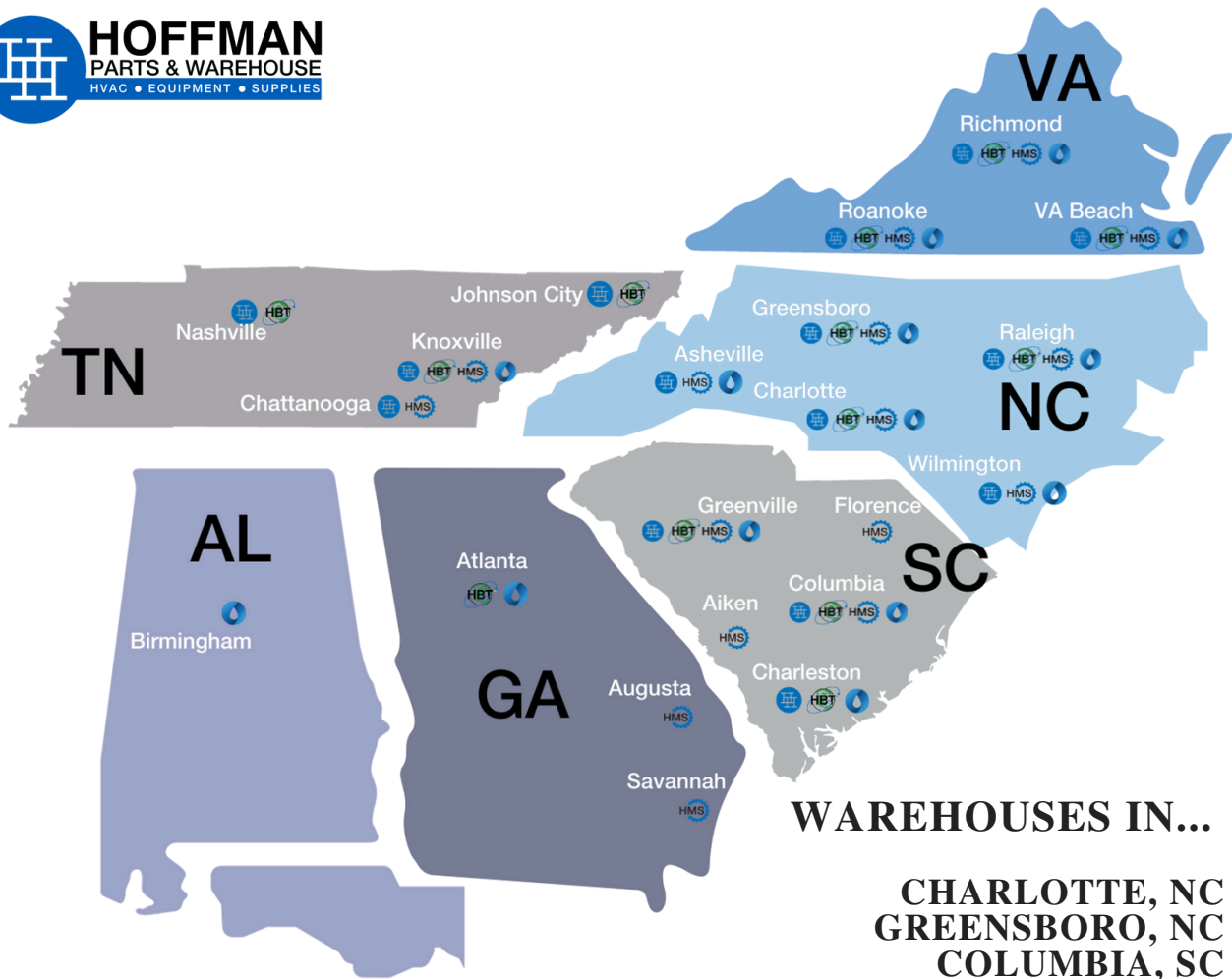
12. Cancellations / Returns: If an order is canceled, the Buyer shall reimburse Hoffman for all expenses and costs incurred by Hoffman in connection with the order and its cancellation. Goods may not be returned except upon written preapproval of a representative of Hoffman, and all unauthorized returns will be denied credit. After preapproval, goods shall be returned Freight Prepaid. Hoffman shall inspect all returned goods and only issue credit for goods returned in as-sold condition with original packaging. Any credit to Buyer shall be reduced by a minimum 20% restocking charge plus any transportation charges and tariffs incurred by Hoffman for the goods. Hoffman will only consider return of stocked goods. Special order items may not be returned. No goods may be returned after 60 days.

13. Equal Employment Opportunity / Affirmative Action Clause: Hoffman and Buyer shall abide by the requirements of 41 CFR 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.

14. Government Contracts: 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 Hoffman that Buyer is performing a commercially useful function on such project. Hoffman assumes no responsibility for the compliance of any quoted or sold materials or equipment with any government specifications or requirements, including, but not limited to, Federal Acquisition Regulation (FAR) requirements, unless such is specifically stated in Hoffman's written proposal.

15. Trust Funds: Buyer agrees that all funds Buyer receives that result from the materials and/or equipment furnished by Hoffman will be considered "Trust Funds." Buyer will hold all Trust Funds in trust for the sole and exclusive benefit of Hoffman. Buyer will segregate Trust Funds from other funds. Buyer will account for all Trust Funds and deliver all Trust Funds to Hoffman. Buyer will not use Trust Funds for any purpose other than paying Hoffman.

16. Survival: The terms contained herein which explicitly or by their nature are intended to survive the earlier termination or expiration of this Agreement shall survive, including, but not limited to, all indemnity obligations.



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