



AIR DISTRIBUTION
STOCK CATALOG

HAVTECH COMMERCIAL DISTRIBUTION STORES

When you need air distribution equipment, you need a company you can rely on to provide quality products at an affordable price, and you need it to be all in one place. The Havtech Air Distribution Team offers the expertise to help whether you are installing, maintaining or upgrading any HVAC system.

Our fully stocked Havtech Commercial Distribution (HCD) Stores will allow you to get to the jobsite or customer fast. Whether you need a new piece of equipment, an OEM part or general parts and supplies, we can get you on the road with only one stop.

We offer same day pick-up or next day delivery for orders placed before 2 PM. For your convenience, we also offer same day delivery for orders placed within our same day delivery zone. Please call for details.

TWO LOCATIONS TO SERVE YOU

COLUMBIA HCD STORE

9505 Berger Road Columbia, MD 21046
240-568-0960 | parts@havtech.com

CAPITOL HEIGHTS HCD STORE

1101 Hampton Park Blvd, Suite 400
Capitol Heights, MD 20743
240-547-0287 | parts@havtech.com

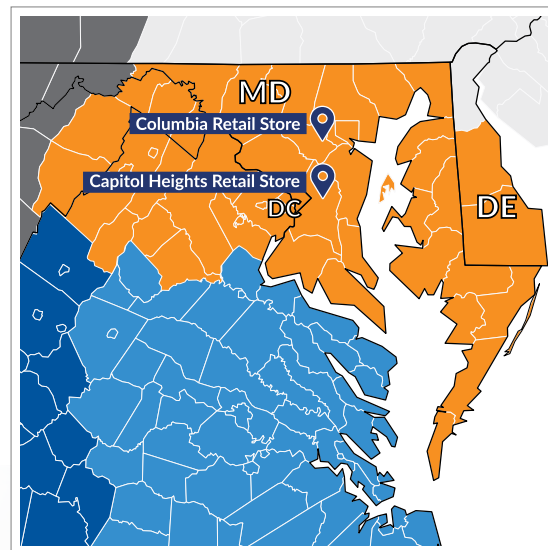
BUSINESS HOURS

MONDAY - THURSDAY

6:30 AM - 4:30 PM

FRIDAY

6:30 AM - 4 PM



YOU DEMAND THE BEST TECHS – SO DO WE.

Our highly sought-after team of technicians has industry-leading expertise across a wide range of equipment. We service your entire system, helping you resolve complicated technical issues and operate at maximum efficiency. With Havtech, you get one team of experts to source, install, start-up and conduct preventive or scheduled maintenance of your equipment.

RGD Product Cross Reference 4

Registers, Grilles & Diffusers

Supply Diffusers 5
Slot Diffusers 7
Supply Registers 8
Return Grilles 9
Perforated & Egg Crate Returns 11
Accessories 13
Single Duct VAV Boxes 14

Fire Dampers, Louvers, & Accessories

Fire Dampers 15
Louvers 16
Duct Doors 17

Flex Duct & Accessories

Flex Duct, Nylon Duct Bands & Quick Release Stainless Steel Bands 18

Roof Products & Accessories

Equipment Rails, Roof Curbs 19
Roof Pipe Portals 20

Snaplock Pipe & Fittings

Snaplock Pipe & Fittings 21

Metropolitan Air Technology

Cable Operated Dampers & Accessories 23

PennBarry

Zephyr Cabinet Fans 24
Domex Roof Fans 29

Delta

Delta Breez Fans 37

The Fine Print

Terms & Conditions of Sale 38

RGD PRODUCT CROSS REFERENCE

4

Price Industries	Metal*Aire	Nailor Industries	Titus	Krueger	Tuttle & Bailey
SMD	5500S	6500	TDC	SH	M
SCD	5700/5800	RNS	TMS	1400	S1200
SPD	5750/5850	UNI	OMNI	PLQ	S1100
RCDE	3100	RNR	TMR	RM1	P3
PDF	7500/7550	4320/4325	PAS	6604	PP
PDC	7600	4320CB/4325CB	PCS	6504	PV
PDDR	7500R	4360/4365	PAR/PMR/PDR	6490/6690	PP
PFRF	SPRTB	4302	PXP/PXP-DF	6790	PTL
APF	PFTB	DFA	TRM	5HCF	SMF
520D	V4004SD	61DV/61DH	300R	880	T64
530	SRH	6145	350R	S80	T70
630	RH	5145	350F	S580	A70
80	CC5	51EC	50	EGC5	CRE500
530FF	SRHF	61FB45	350RLF1	S80H	T70DFB
TBDI	PHPSI	57101	TBDI	PSTBSI	SVPS
SDS100	6600	5010	ML-39	1910	6000
SDV5	TH	3001	ESV	LMHS	SDV
RAC	--	--	ACPT	--	--

The information contained within this cross reference should be used as a "guide" when making product selections. Havtech, LLC will not be held responsible for any errors caused by its use.

SPD

Square Plaque Diffuser



SPD

SCD

Square 3-Cone Diffuser



SCD

Inlet Size	Panel Size	CFM	SPD31 Steel, T-Bar	SPD17 Steel, Finline	SCD31 Steel, T-Bar	SCD17 Steel, Finline	SCDA3 Adj, Steel, T-Bar	SCDA17 Adj, Steel, Finline	VCR8E Damper
6	12 × 12	157	●	--	●	--	--	--	●
	24 × 24		●	●	●	●	●	●	●
8	12 × 12	279	●	--	●	--	--	--	●
	24 × 24		●	●	●	●	●	●	●
10	24 × 24	436	●	●	●	●	●	●	●
12	24 × 24	628	●	●	●	●	●	●	●
14	24 × 24	855	●	●	●	●	●	●	●
15	24 × 24	982	●	●	●	--	--	--	--

CFM @ 800FPM Neck Velocity.
 Border 3/31 is for a 15/16" flat ceiling grid.
 Border 17 is for a 9/16" fineline ceiling grid.
 ● In Stock

SMD

Steel, Louvered Face Directional Diffuser




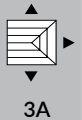
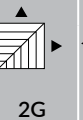





SMD36



SMD3P



SMD6

 4A  3A  2G  2S  1S	Panel Size	CFM	T-Bar		Surface Mount
			 SMD3P With Damper	 SMD3P With Square to Round Transition	 SMD6 With Damper
Cores 3A, 2G, 2S and 1S can be factory-ordered. Call for more information	24 × 24	125	6 × 6	6"	6 × 6
	24 × 24	282	9 × 9	8"	9 × 9
	24 × 24	500	12 × 12	10"	12 × 12
	24 × 24	781	15 × 15	12" 14"	15 × 15
	24 × 24	1125	18 × 18	16"	18 × 18

CFM @ 500FPM Neck Velocity.
 *18 x 18 is only available with Frame 36.



PDF



PDC

PDF/PDC

Steel, Perforated Supply Diffuser

Size	Panel Size	CFM	PDF3 Face-Mounted Pattern Controller	PDF17 Face-Mounted Pattern Controller	PDC3 Curved Blade, Neck-Mounted Pattern Controller	PDC17 Curved Blade, Neck-Mounted Pattern Controller	VCR8E Damper
6	12 × 12	98	●	--	--	--	●
	24 × 24	98	●	●	●	●	●
8	24 × 24	175	●	●	●	●	●
10	24 × 24	273	●	●	●	●	●
12	24 × 24	393	●	●	●	●	●
14	24 × 24	535	●	●	●	●	●
16	24 × 24	535	●	●	--	--	--

CFM @ 500FPM Neck Velocity
 Model PDC3 stocked in 4-Way air pattern only.
 Border 3 is for a 15/16" flat ceiling grid.
 Border 17 is for 9/16" fineline ceiling grid.
 ● In Stock

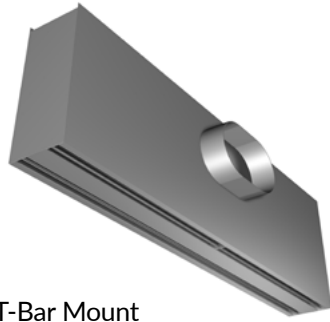
RCDE

Steel, Round Diffuser

Size	CFM	RCDE	VCR8E Damper
6	160	●	●
8	280	●	●
10	435	●	●
12	630	●	●

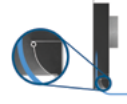


CFM @ 800FPM Neck Velocity.
 ● In Stock



TBD12/3/4

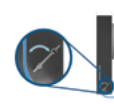
Insulated Slot Diffuser with T-Bar Mount



Curved
TBD12 Series



Ice-Tong
TBD13 Series



Blade
TBD14 Series

Slot Width	# of Slots	Dimensional Data				TBD12 Standard & Frame 17	TBD13 Standard & Frame 17	TBD14 Standard & Frame 17	APF Plaster Frame
		Length	Height	Width	Inlet (Oval)				
1"	2	24	8	4	6, 8	--	--	● (Standard only)	●
		48	8	4	6, 8, 10	●	●	●	●
			11		12				
1.5"	2	48	11	5	12	--	--	● (Standard only)	●

Plaster Frame Model APF is to be used for installation of slot diffuser Model TBD1 in sheet rock or plaster ceilings.
See Accessories on page 13.
See www.Price-Hvac.com for performance data.
● In Stock

SDS100

Linear Slot Diffuser with 1" Slot Spacing

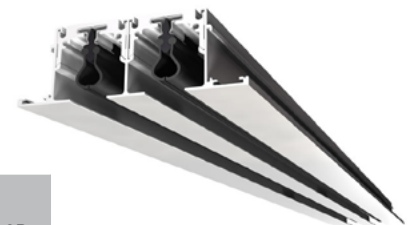


Length	# of Slots	Surface Mount				
		SDS100-2 Flange Frame Concealed Mounting	SDS100-EC-W Flanged End Cap	SDS100-EC-Z Flush Z Style end Cap	SDS100-UPL Insulated	SDS-ASP Alignment Splice Plate
48	2	●	●	●	●	●
60	2	●	●	●	●	●
72	2	●	●	●	●	●

Finish is B12 White on Frame, Black Pattern Controllers
See www.Price-Hvac.com for performance data.
● In Stock

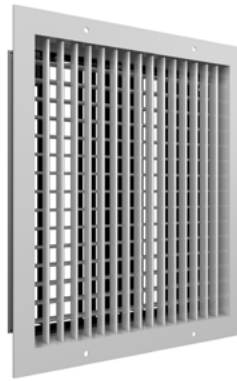
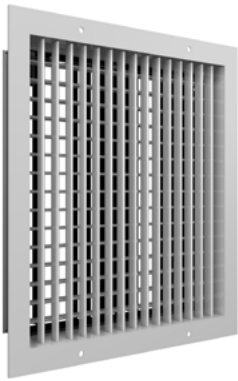
SDS75

Linear Slot Diffuser with 3/4" Slot Spacing



Length	# of Slots	Surface Mount				
		SDS75-2 Flange Frame Concealed Mounting	SDS75-EC-W Flanged End Cap	SDS75-EC-Z Flush Z Style end Cap	SDS75-UPL Insulated	SDS-ASP Alignment Splice Plate
48	2	●	●	●	●	●
60	2	●	●	●	●	●
72	2	●	●	●	●	●

Finish is B12 White on Frame, Black Pattern Controllers
See www.Price-Hvac.com for performance data.
● In Stock



520D

Steel, Double Deflection Supply Register with Damper

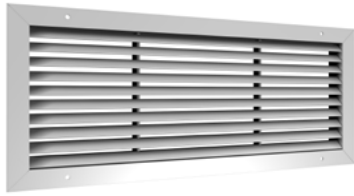
620D

Aluminum, Double Deflection Supply Register with Damper

Size	CFM	520D	620D
6 x 4	75	●	●
6 x 6	90	●	--
8 x 4	90	●	●
8 x 6	130	●	--
8 x 8	195	●	●
10 x 4	110	●	●
10 x 6	170	●	--
10 x 8	230	●	--
10 x 10	300	●	●
12 x 4	130	●	●
12 x 6	195	●	--
12 x 8	300	●	--
12 x 10	345	●	--
12 x 12	450	●	--
14 x 4	150	●	●
14 x 6	230	●	--
14 x 8	345	●	--
14 x 10	405	●	●
14 x 12	535	●	●
14 x 14	590	●	--
16 x 4	170	●	●
16 x 6	260	●	●
16 x 8	405	●	●
16 x 10	450	●	●
16 x 12	590	●	●
16 x 14	670	●	--

Size	CFM	520D	620D
16 x 16	800	●	--
18 x 6	450	●	●
18 x 8	450	●	●
18 x 10	535	●	●
18 x 12	670	●	●
20 x 6	345	●	●
20 x 8	500	●	●
20 x 10	590	●	●
20 x 12	725	●	●
20 x 14	900	●	--
24 x 6	400	●	●
24 x 8	590	●	●
24 x 10	700	●	●
24 x 12	900	●	●
24 x 16	1220	●	●
30 x 6	535	●	●
30 x 8	725	●	●
30 x 10	975	●	●
30 x 12	1150	●	●
30 x 16	1560	●	●
36 x 6	775	●	●
36 x 8	900	●	●
36 x 10	1180	●	●
36 x 12	1390	●	●
36 x 14	1625	●	●
36 x 16	1800	●	●

CFM @ 500FPM Neck Velocity.
● In Stock



530

Steel, 45 Degree Single Deflection Return Grille

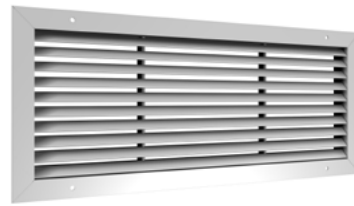
Size	CFM	530	630	VCS3 Dampers
6 x 6	90	●	--	●
8 x 6	130	●	--	●
8 x 8	195	●	--	●
10 x 6	170	●	●	●
10 x 8	230	●	●	●
10 x 10	300	●	--	●
12 x 6	195	●	●	●
12 x 8	300	●	●	●
12 x 10	345	●	●	●
12 x 12	455	●	--	●
14 x 6	230	●	●	●
14 x 8	345	●	--	●
14 x 10	405	●	●	●
14 x 12	535	●	--	●
14 x 14	590	●	--	●
16 x 6	260	●	●	●
16 x 8	405	●	●	●
16 x 10	455	●	●	●
16 x 12	590	●	●	●
16 x 14	670	●	●	●
16 x 16	800	●	●	●
18 x 6	300	●	●	●
18 x 8	455	●	●	●
18 x 10	535	●	--	●
18 x 12	670	●	--	●
18 x 14	800	●	●	●
18 x 16	900	●	●	●
18 x 18	1040	●	●	●
20 x 8	500	●	●	●
20 x 10	590	●	●	●

*530D (530 with Damper). CFM @ 500FPM Neck Velocity.

T-Bar

Size	CFM	Panel Size	530 T-Bar	630 T-Bar	FR17
20 x 20	1280	24 x 24	--	--	●
22 x 10	683	24 x 12	●	●	--

● In Stock



630

Aluminum, 45° Degree Single Deflection Return Grille

Size	CFM	530	630	VCS3 Dampers
20 x 12	725	●	●	●
20 x 14	900	●	●	●
20 x 16	1040	●	●	●
20 x 18	1225	●	●	●
20 x 20	1300	●	●	●
24 x 8	590	●	●	●
24 x 10	725	●	●	●
24 x 12	900	●	--	●
24 x 14	1040	●	●	●
24 x 16	1225	●	●	●
24 x 18	1393	●	●	●
24 x 20	1555	●	●	●
24 x 24	1805	●	●	●
30 x 8	725	●	●	●
30 x 10	900	●	●	●
30 x 12	1175	●	●	●
30 x 14	1390	●	●	●
30 x 16	1560	●	●	●
30 x 20	2145	●	●	●
30 x 24	2275	●	●	●
30 x 30	2790	●	●	--
36 x 8	900	●	●	●
36 x 10	1225	●	●	●
36 x 12	1225	●	●	●
36 x 16	1925	●	●	●
36 x 20	2325	●	●	●
36 x 24	2790	●	●	●
36 x 30	3700	●	●	--
36 x 36	4500	●	--	--
48 x 24	4000	●	--	●

T-Bar

Size	CFM	Panel Size	530 T-Bar	630 T-Bar	FR17
22 x 22	1568	24 x 24	●	--	--
46 x 22	3525	48 x 24	●	●	--

● In Stock



530D

Steel, 45 Degree Single Deflection Return Register with Damper

Size	CFM	Panel Size	530D T-Bar
22 x 10	683	24 x 12	●
22 x 22	1568	24 x 24	●
46 x 22	3525	48 x 24	●

● In Stock



630D

Aluminum, 45° Degree Single Deflection Return Register with Damper

Size	CFM	Panel Size	630D T-Bar
22 x 10	683	24 x 12	●
22 x 22	1568	24 x 24	●
46 x 22	3525	48 x 24	●

● In Stock



530FF

Steel, Lay-In Filter Return Grill

Size	CFM	Panel Size	530FF Steel
20 x 20	1287	24 x 24	●

Filters are not included (Filter Rack is 1")
CFM @ 500FPM Neck Velocity.

● In Stock



630FF

Aluminum, Lay-In Filter Return Grill

Size	CFM	Panel Size	630FF Aluminum
20 x 20	1287	24 x 24	●

Filters are not included (Filter Rack is 1")
CFM @ 500FPM Neck Velocity.

● In Stock

PDDR3

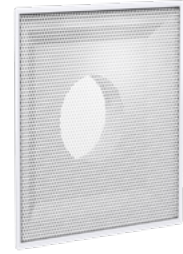
Steel, Perforated Return Diffuser with Round or Square Duct Connection for T-Bar Ceilings



Square Duct Connection

Inlet Size	CFM	Panel Size	PDDR Square T-Bar
10 x 10	347	12 x 12	●
22 x 10	764	24 x 12	●
22 x 22	1681	24 x 24	●
46 x 22	3514	48 x 24	●

CFM @ 500FPM Neck Velocity.
 Border type 3 is for 15/16" flat ceiling grid.
 ● In Stock



Round Duct Connection

Inlet Size	CFM	Panel Size	PDDR Round T-Bar
6	98	24 x 24	●
8	175	24 x 24	●
10	273	24 x 24	●
12	393	24 x 24	●
14	535	24 x 24	●
16	698	24 x 24	●
18	750	24 x 24	●

CFM @ 500FPM Neck Velocity.
 Border type 3 is for 15/16" flat ceiling grid.
 ● In Stock

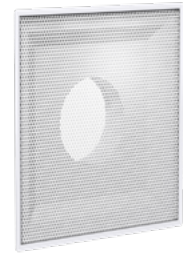


PDDR17

Square Duct Connection

Inlet Size	CFM	Panel Size	PDDR Square T-Bar
22 x 22	1681	24 x 24	●

CFM @ 500FPM Neck Velocity.
 Border type 17 is for 9/16" fineline ceiling grid.
 ● In Stock

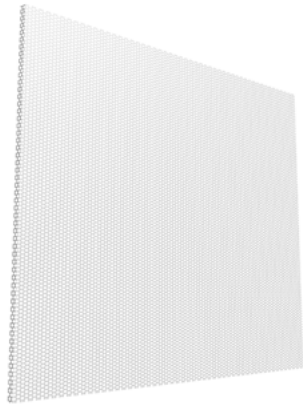


PDDR17

Round Duct Connection

Inlet Size	CFM	Panel Size	PDDR Round T-Bar
6	98	24 x 24	●
8	175	24 x 24	●
10	273	24 x 24	●
12	393	24 x 24	●
14	535	24 x 24	●
16	698	24 x 24	●
18	750	24 x 24	●

CFM @ 500FPM Neck Velocity.
 Border type 17 is for 9/16" fineline ceiling grid.
 ● In Stock



PFRF

Steel, Perforated Face Return Panel

Size	CFM	PFRF3 T-Bar	PFRF17 T-Bar
24 x 24	1830	●	●

CFM @ 500FPM Neck Velocity
 Border type 3 is for 15/16" flat ceiling grid and 17 is for 9/16" fineline ceiling grid.
 ● In Stock

80

Aluminum Egg Crate Grille with 0° Deflection



T-Bar

Size	CFM	Panel Size	80 No Damper	80D With Damper	80FR17 No Damper
22 x 10	669	24 x 12	●	●	--
20 x 20	1270	24 x 24	--	--	●
22 x 22	1550	24 x 24	●	●	--
46 x 22	3310	48 x 24	●	●	--

CFM @ 500FPM Neck Velocity.
 Border 17 is for 9/16" fineline ceiling grid.
 ● In Stock

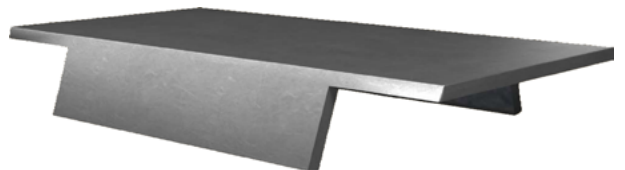
RAC

Return Air Canopy

Prevents the transfer of occupant noise into the plenum above

Size	Length	Height	RAC
24 x 24	24	7	●
48 x 24	48	7	●

● In Stock

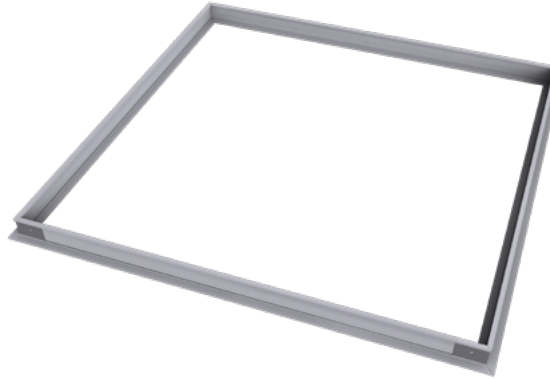


SPF

Steel Plaster Frame For T-Bar Diffusers
Installed in Sheet Rock Ceilings

Size	SPF
12 x 12	●
24 x 12	●
24 x 24	●

● In Stock



APF

Aluminum Plaster Frame for plenum slot diffusers

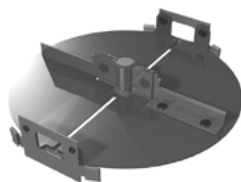
Model	Slot Width	# of Slots	Length	APF Plaster Frame
APF TBDI4100	1"	2	24	●
APF TBDI4100			48	●
APF TBDI4150	1.5"	2	48	●

Plaster Frame Model APF is to be used for installation of slot diffuser Model TBDI 2/3/4 in sheet rock or plaster ceilings.

● In Stock

VCR8E

Inlet Size	VCRE8 Damper
6	●
8	●
10	●
12	●
14	●



CFM @ 500FPM Neck Velocity

● In Stock

Touch Up Paint

For use with Price products with a B12 white finish, B15 aluminum finish, or B17 black finish

Item Number	Finish	
TUPB12	B12 White	●
TUPB15	B15 Aluminum	●
TUPB17	B17 Black	●

● In Stock



Single Duct Terminal Units



SDV5 Standard Construction

- + 22 gauge galvanized steel
- + 3/4" fiber free insulation
- + Gasketed damper, mechanically sealed
- + Multipoint crossflow sensor
- + Controls enclosure
- + Slip and drive connection

SDV5

VAV Single Duct Box

Inlet Size	CFM Range	Dimensional Data (H × W × L)	
		VAV Box	SDV5 VAV Box
6	65 - 550	8 × 12 × 22 $\frac{1}{8}$	●
8	125-1100	10 × 12 × 20 $\frac{1}{8}$	●
10	210-1800	12 $\frac{1}{2}$ × 14 × 20 $\frac{1}{8}$	●
12	300-2600	15 × 16 × 20 $\frac{1}{8}$	●
14	430-3700	17 $\frac{1}{2}$ × 20 × 23 $\frac{3}{8}$	●
16	575-5000	18 × 24 × 23 $\frac{3}{8}$	●

● In Stock



VFD-10D-A

Vertical or horizontal, Curtain Style Fire Damper

- For Use In Static or Dynamic HVAC Systems
- U.L. 555 Fire Resistance Rating: 1 ½ Hour
- 165°F UL Listed Fusible Link
- Qualified to 2,000 ft/min and 4 in. wg.

Item Number	Size
VFD-10D-A 6X6	6 x 6
VFD-10D-A 8X6	8 x 6
VFD-10D-A 8X8	8 x 8
VFD-10D-A 10X6	10 x 6
VFD-10D-A 10X8	10 x 8
VFD-10D-A 10X10	10 x 10
VFD-10D-A 12X6	12 x 6
VFD-10D-A 12X8	12 x 8

Item Number	Size
VFD-10D-A 12X10	12 x 10
VFD-10D-A 12X12	12 x 12
VFD-10D-A 14X6	14 x 6
VFD-10D-A 14X8	14 x 8
VFD-10D-A 14X10	14 x 10
VFD-10D-A 14X12	14 x 12
VFD-10D-A 14X14	14 x 14
VFD-10D-A 16X8	16 x 8
VFD-10D-A 16X10	16 x 10
VFD-10D-A 16X12	16 x 12
VFD-10D-A 16X14	16 x 14
VFD-10D-A 16X16	16 x 16
VFD-10D-A 18X10	18 x 10
VFD-10D-A 18X12	18 x 12
VFD-10D-A 18X14	18 x 14
VFD-10D-A 18X16	18 x 16
VFD-10D-A 18X18	18 x 18

Item Number	Size
VFD-10D-A 20X10	20 x 10
VFD-10D-A 20X12	20 x 12
VFD-10D-A 20X14	20 x 14
VFD-10D-A 20X16	20 x 16
VFD-10D-A 20X18	20 x 18
VFD-10D-A 20X20	20 x 20
VFD-10D-A 24X10	24 x 10
VFD-10D-A 24X12	24 x 12
VFD-10D-A 24X14	24 x 14
VFD-10D-A 24X16	24 x 16
VFD-10D-A 24X18	24 x 18
VFD-10D-A 24X20	24 x 20
VFD-10D-A 24X24	24 x 24
VFD-10D-A 36X14	36 x 14
VFD-10D-A 36X18	36 x 18
VFD-10D-A 36X20	36 x 20
VFD-10D-A 36X36	36 x 36

All dimensions are in inches



VFD-10D-C

Vertical or horizontal, Curtain Style Fire Damper with 2" Deep Round Transition

- For Use In Static or Dynamic HVAC Systems
- U.L. 555 Fire Resistance Rating: 1 ½ Hour
- 165°F UL Listed Fusible Link
- Qualified to 2,000 ft/min and 4 in. wg.

Item Number	Size
VFD-10D-C 6	6" Dia
VFD-10D-C 8	8" Dia
VFD-10D-C 10	10" Dia
VFD-10D-C 12	12" Dia
VFD-10D-C 14	14" Dia

FUSIBLE LINK

- Elsie C Fusible Link 165 degrees for use with VFD-10D
- Elsie C Fusible Link 212 degrees for use with Type A and C dynamic fire dampers



Item Number	Size
FUSIBLE LINK - ELSIE C	165°
FUSIBLE LINK - ELSIE C - 212	212°





EFJ-245

Aluminum, 2 " Deep, 45° Degree J Blade, Extruded Louver

- Mill Finish
- 1 ½ flange

Item Number	Size
EFJ-245 8X6	8 x 6
EFJ-245 8X8	8 x 8
EFJ-245 16X8	16 x 8

All dimensions are in inches



EFD-437

Aluminum, 37.5° Degree Drainable Blade, Extruded Louver

- Certified for Air Performance and Water Penetration
- Mill Finish
- 1 ½ flange

Item Number	Size
EFD-437 12X12	12 x 12
EFD-437 18X12	18 x 12
EFD-437 18X18	18 x 18
EFD-437 24X12	24 x 12
EFD-437 24X18	24 x 18
EFD-437 24X24	24 x 24
EFD-437 36X24	36 x 24
EFD-437 36X36	36 x 36

All dimensions are in inches



DMR

Round Duct Access Doors (Sandwich Type)

- 22 ga. Galvanized Steel Construction
- Max System Pressure: +20" wg., -10" wg

Item Number	Size	Pipe Diameter
DMR 8X4-6	8 x 4	6
DMR 8X4-8		8
DMR 12X8-10	12 x 8	10
DMR 12X8-12		12
DMR 12X8-14		14
DMR 16X12-16	16 x 12	16
DMR 16X12-16		18
DMR 16X12-18		20
DMR 16X12-20		22
DMR 16X12-22		24

All dimensions are in inches



HAD

Hinged Access Doors

- 1 1/2" Fiberglass Insulation
- Galvanized Construction

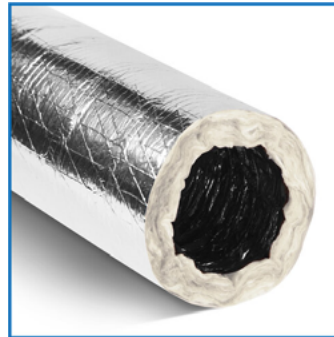
Item Number	Size
HAD-66	6 x 6
HAD-88	8 x 8
HAD-1010	10 x 10
HAD-1212	12 x 12
HAD-1414	14 x 14
HAD-1616	16 x 16
HAD-1818	18 x 18
HAD-2020	20 x 20
HAD-2424	24 x 24

All dimensions are in inches

Quietflex Flex Duct



60 Series



80 Series



06 Series

Model	Description	R Value	Diameter									
			4	5	6	8	10	12	14	16	18	20
60	Insulated w/ Black Jacket, 25' Bag	6.0	460C QF	560C QF	660C QF	860C QF	1060 QF	1260 QF	1460 QF	1660 QF	1860 QF	2060 QF
80	Insulated w/ Silver Jacket, 25' Bag	6.0	480C	580C	680C	880C	1080	1280	1480	1680	1880	2080
06	Uninsulated, 25' Bag	--	406 QF	506 QF	606 QF	806 QF	1006 QF	1206 QF	1406 QF	1606 QF	1806 QF	2006 QF

Cambridge Duct Bands



Nylon Duct Bands

Size	Item Number
36"	CT36-175K9
48"	CT48-175K9

Provided in packs of 50.



Quick Release S/S Band

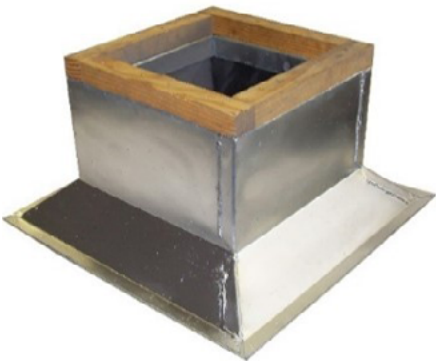
Size	Item Number
4", 5", 6"	QR-104PB
7", 8"	QR-128PB
9", 10", 12"	QR-188PB
14", 16"	QR-258PB
18", 20"	QR-312PB



Hranec Equipment Rails

- 18 ga. Galv Steel
- Welded Seams
- Built-In Cant
- 2" Wood Nailer
- 2" Flange Out
- Galv. Top Cap

Item Number	Description	H
ER2412-2X6	24" 2x6 Equipment Rail	12"
ER3612-2X6	36" 2x6 Equipment Rail	12"
ER7212-2X6	72" 2x6 Equipment Rail	12"



Hranec Roof Curbs

- 18 ga. Galv Steel
- Welded Seams
- Built-In Cant
- 2" Wood Nailer
- 2" Flange Out

Size	H	Item Number	Description
14x14	12"	RCC1414-12	Canted
17x17	12"	RCC1717-12	Canted
17x17	18"	RCC1717-18	Canted
19x19	12"	RCC1919-12	Canted
19x19	18"	RCC1919-18	Canted
23x23	12"	RCC2323-12	Canted
27x27	12"	RCC2727-12	Canted
27x27	18"	RCC2727-18	Canted
32x32	12"	RCC3232-18	Canted
32x32	18"	RCC3232-18	Canted



Roof Pipe Portals

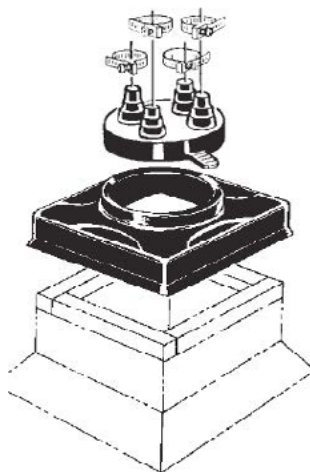
- RP-481 Cap: For Four 3/8" thru 1" Pipe
- RP-412 Cap: For Four 1" thru 2" Pipe
- RP-212 Cap: For Two 3/8" thru 1" and Two 1" thru 2" Pipe
- RP-126 Cap: For One 2" thru 6" Pipe
- N-5 Portal Cap (5 boots and s/s clamps are included)
Five 1/2" thru 2-1/2" Pipe
- Double Portal Requires Two ABS Covers & Two Caps

20

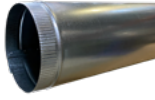
Item Number	Description
RP-481	Four 3/8" thru 1" Pipe
RP-412	Four 1" thru 2" Pipe
RP-212	Two 3/8" thru 1" and Two 1" thru 2" Pipe
RP-126	One 2" thru 6" Pipe
N-5	N-5 Portal Cap (5 boots and s/s clamps are included) Five 1/2" thru 2-1/2" Pipe

Stainless Steel Clamp	
Size	Item Number
1"	SSC1
2"	SSC2
6"	SSC6

ABS Plastic Cover	
Item Number	Description
ABSPC1	Single
ABSPC-2	N-5 ABS Cover

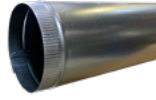


Roof Curb			
Size	H	Item Number	Description
12x12	8"	RCC12128	Canted
27.5x12	8"	RCC275128	Canted
15x15	12"	RCC1515-12	Canted



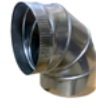
SnapLock Pipe

- 26 Gauge
- 5' Length



SnapLock Pipe

- 30 Gauge
- 5' Length



Adjustable Ells

- 26 Gauge



Adjustable Ells

- 24 Gauge



Adjustable Ells

- 30 Gauge

Diameter	Snaplock Pipe	Snaplock Pipe	Adjustable Ells	Adjustable Ells	Adjustable Ells
4"	SMP4-5	RP050430060	SME4-90	--	RX530430
5"	SMP5-5	RP050530060	SME5-90	--	RX530530
6"	SMP6-5	RP050630060	SME6-90	--	RX530630
7"	SMP7-5	--	SME7-90	--	--
8"	SMP8-5	RP050830060	SME8-90	--	RX530830
10"	SMP10-5	--	SME10-90	--	--
12"	SMP12-5	--	SME12-90	--	--
14"	SMP14-5	--	--	SME14-90	--
16"	SMP16-5	--	--	SME16-90	--
18"	SMP18-5	--	--	SME18-90	--



AT Airtite

- no Damper
- 24 Gauge



ATD Airtite

- with Damper
- 24 Gauge



Tee Cap

- 26 Gauge



Tee

- 90 Degree
- 26 Gauge

Diameter	AT	ATD	Tee Cap	Tee
4"	SF0005 - 4"	SF0010 - 4"	RX2104	RX7504
5"	SF0015 - 5"	SF0020 - 5"	RX2105	RX7505
6"	SF0025 - 6"	SF0030 - 6"	RX2106	RX7506
8"	SF0045 - 8"	SF0050 - 8"	RX2108	RX7508
10"	SF0065 - 10"	SF0070 - 10"	RX2110	RX7510
12"	SF0075 - 12"	SF0080 - 12"	RX2112	RX7512
14"	SF0085 - 14"	SF0090 - 14"	--	--
16"	SF0095 - 16"	SF0100 - 16"	--	--
18"	--	SF0110 - 18"	--	--



Single Wall Tall Cone Flashing

- 26 Gauge



Storm Collar

- 26 Gauge



Model DV Dryer Vent w/ Air Flap

- 26 Gauge



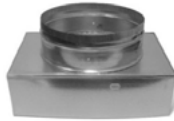
Galvanized Rain Cap

- 26 Gauge

Size	SW Tall Cone Flashing	Storm Collar	Dryer Vent	Galvanized Rain Cap
4"	TCFEX200426TC	SCRX0904	EX7404	RCRX2804
5"	--	--	--	--
6"	TCFEX200626TC	SCRX0906	EX7406	RCRX2806
8"	TCFEX200826TC	SCRX0908	EX7408	RCRX2808
10"	TCFEX201026TC	SCRX0910	--	RCRX2810
12"	TCFEX201226TC	SCRX0912	--	RCRX2812
14"	--	--	--	RCRX2814
16"	--	--	--	RCRX2816

TR Square to Round Transition with Collar

Size	Item Number
6 x 6 / 6" Dia	CA60060606A
8 x 8 / 6" Dia	CA60080806A
8 x 8 / 8" Dia	CA60080808A
9 x 9 / 6" Dia	CA60090906A
9 x 9 / 8" Dia	CA60090908A
10 x 10 / 8" Dia	CA60101008A
10 x 10 / 10" Dia	CA60101010A
12 x 12 / 8" Dia	CA60121208A
12 x 12 / 10" Dia	CA60121210A
12 x 12 / 12" Dia	CA60121212A
14 x 14 / 10" Dia	CA60141410A
14 x 14 / 12" Dia	CA60141412A
15 x 15 / 12" Dia	CA60151512A
15 x 15 / 14" Dia	CA60151514A
18 x 18 / 16" Dia	CA60181816A
18 x 18 / 18" Dia	CA60181818A



Tapered Reducer

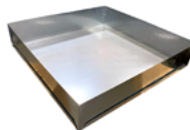
- No Crimp

Size	Item Number
4 to 3	RX410403
5 to 4	RX410504
6 to 4	RX410604
6 to 5	RX410605
8 to 4	RX410804
8 to 6	RX410806
10 to 6	RX411006
10 to 8	RX411008
12 to 8	RX411208
12 to 10	RX411210
14 to 10	RX411410
14 to 12	RX411412



BP Add a Tap Back Pan

Size	Item Number
20 x 20	CA592020A
22 x 22	CA592222A



Oval Starter Collars

- 26 Gauge w/ Dovetail
- No Damper

Size	Item Number
6"	OSCOX6406
8"	OSCOX6408
10"	OSCOX6410
12"	OSCOX6412



SB & 90B Register Boot

Size	SB Straight	90B 90 Degree
	Item Number	Item Number
10 x 4 x 6	RB204106	RB304106
8 x 6 x 10	RB2060810	--
8 x 6 x 8	RB206088	--



High Efficiency Takeoff With Damper

- 26 Gauge

Size	Item Number
8"x 14"- 10"	TA57D10
10"x 16"- 12"	TA57D12
6"x 10"- 6"	TA57D6
6"x 12"- 8"	TA57D8



Cable Operated Radial Damper

- 2ft Cable



Size	Item Number
6" Dia.	RT-150-06
8" Dia.	RT-150-08
10" Dia.	RT-150-10
12" Dia.	RT-150-12

Loose and Bulk Cable

Size	Item Number
2'	MAT-A2
3'	A3 - 3FT
5'	MAT-A05
6'	AD6 - 6FT
10'	MAT-A010
50'	MAT-CBL-BULK50
100'	MAT-CBL-BULK100



Bracket Kits



2' Kit	5' Kit	Bottom Mount 5' Kit
MAT-1056-CCM KIT-2	MAT-1056-CCM KIT	MAT-1058-CCM-MB
Bracket, 2' of cable, 1012 modified coupling and cap set (1 long, 1 short)	Bracket, 5' of cable and Cap Set (1 Long, 1 Short)	Bottom Mount Bracket, 5' of Cable and Cap Set, (1 Long, 1 Short)

Worm Gear



RT-WGA-1048	RT-WGA.25-6	RT-WGA.25-10	RT-WGA.25-L
Worm Gear with field cut cable end installed	Worm Gear with 6' of cable, wall bracket, mini ceiling cap and 4 set screws for 1/4" hardware	Worm Gear with 10' of cable, wall bracket, mini ceiling cap and 4 set screws for 1/4" hardware	Loose Worm Gear with 4 Set Screws - No Cable

Worm Gears fit 1/4", 3/8" hardware and 1/2" round hardware.

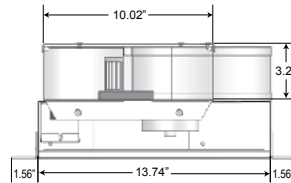
Accessories



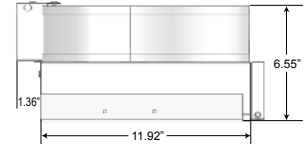
Modified Coupling	Cable Coupling Assembly	Field Cut Cable	Replacement Cap Set	Nut Driver
MAT-1012	MAT-1027	MAT-1048	MAT-1055	MAT-1014A
Square to round opening for factory cable to field cut cable	Cable Coupling Assembly	Field Cut Cable End Coupling Assembly	Replacement Cap Set (1 Long, 1 Short)	Nut Driver

Zephyr (ZT & ZJ1) Features & Dimensional Data

- Quiet Operation: Low Sone Level, Non-Overloading Low Power Consumption Design
- Thermal Overload Protection Integral with Motor
- Rust Resistant, Durable Housing of Galvanized Steel
- UL Listed for UL705 and UL507
- AMCA Air Certified



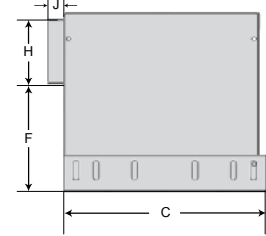
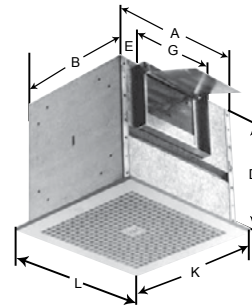
ZT



ZJ1

Zephyr Features & Dimensional Data

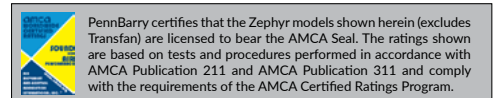
- Some Selections Below One Sone
- AMCA Air & Sound Certified
- UL Listed for UL705 and UL507
- All Motors with Thermal Overload Protection
- Quick Access Wiring
- Easy to Balance via Variable Speed Control (Lektrol)
- Field Convertible Discharge Orientation
- Field Convertible from Ceiling to Inline Installation
- Popular Models with Multi-Speed Motor (Wide Performance Range)



Z3-Z121

Zephyr Dimensional References

Model	Housing							Outlet Duct			Grille	
	A	B	C	D	E	E ¹	F	G	H	J	K	L
ZT,ZJ1	13 3/4"	11 15/16"	17 1/4"	6 9/16"	-	-	3 1/4"	10"	3 1/4"	3/4"	13 1/4"	14 7/8"
Z3,5,6	12 1/2"	9 1/8"	16"	9 1/8"	1 1/4"	1 1/4"	5 3/8"	10"	3 1/4"	3/4"	11"	13 3/4"
Z8,81	13 7/8"	11 3/8"	17 3/8"	11 3/8"	1 7/8"	4"	5 1/4"	8"	6"	3/4"	13 1/4"	14 7/8"
Z10	18"	14 1/8"	21 1/2"	14 1/8"	3 5/8"	6 3/8"	8"	8"	6"	3/4"	15 1/2"	19 3/8"
Z12, 101, 102, 121	24"	14 1/8"	27 1/2"	14 1/8"	1"	1"	8"	22"	6"	3/4"	15 1/2"	25"





ZT/ZJ



Z-RA

Zephyr (ZT & ZJ1) Performance Data

Model Number	Max Watts	Motor 60Hz AC	Motor RPM	Shipping Weight (lbs.)	SP	0.0"	.10"	.125"	.250"	.375"	.500"	.625"	.750"
ZT	48	115/1	1200	19	CFM	91	88	88	85	75	49	-	-
					SONES	1.8	2.2	2.3	2.8	3.0	3.2	-	-
					RPM	840	930	970	1110	1280	1460	-	-
ZJ1	125	115/1	1200	19	CFM	149	156	157	158	160	153	138	117
					SONES	2.0	2.3	2.4	3.0	3.4	3.4	3.6	3.5
					RPM	760	1000	1020	1150	1240	1360	1450	1520

Performance shown is for installation type A - Free inlet, Free outlet. Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA std. 301. Values shown are for installation Type A: free inlet fan sone levels. The AMCA Certified Ratings Seal applies to air performance ratings only.

Zephyr Performance Data

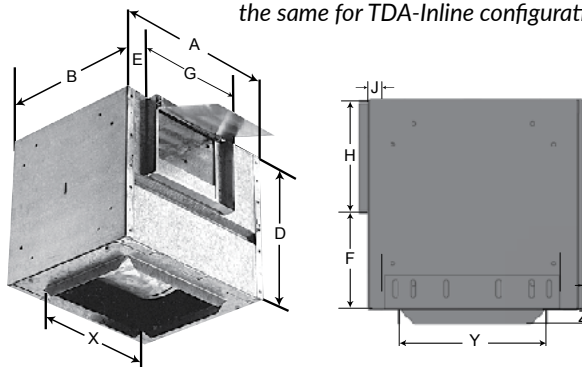
Item #	MAX. WATT	Amps	RPM	SP	0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"
Z3RA	39	0.5	1550	CFM	109	83	-	-	-	-	-
				SONES ²	1.7	2.3	-	-	-	-	-
Z5RA	79	1	1550	CFM	192	163	128	93	-	-	-
				SONES ²	3.4	3.3	3.3	3.4	-	-	-
Z6SH-RA ⁵	47	0.6	1050	CFM	123	101	82	-	-	-	-
				SONES ²	0.9	1.4	1.8	-	-	-	-
Z6SH-RA ⁵	108	1.4	1550	CFM	230	196	166	122	-	-	-
				SONES ²	3.3	3	3	3.1	-	-	-
Z8RA ⁶	77	1	1050	CFM	272	247	231	217	199	-	-
				SONES ²	2.1	2.4	2.9	3.3	3.6	-	-
Z81SRA	77	0.9	1050	CFM	310	273	239	213	182	136	73
				SONES ²	2.5	2.7	2.9	3.3	3.7	4.2	4.3
Z8RA ⁶	130	1.6	1550	CFM	426	401	377	357	341	328	304
				SONES ²	4.5	4.7	4.7	5.1	5.6	5.8	5.8
Z10RA ⁷	243	2.5	1050	CFM	469	441	423	403	387	367	347
				SONES ²	4.5	4.8	5.1	5.4	5.6	5.8	6
Z101SRA	153	1.6	1050	CFM	612	537	467	405	222	116	-
				SONES ²	3.9	3.6	3.9	4.6	5.5	6	-
Z10RA ⁷	390	3.6	1550	CFM	728	694	664	638	613	591	565
				SONES ²	8.6	8.6	8.6	8.7	8.6	8.8	8.8
Z102SRA	269	4.5	1050	CFM	816	747	691	602	335	-	-
				SONES ²	5.8	5.8	5.4	5	4.9	-	-
Z12SRA	260	2.9	1050	CFM	901	855	812	755	683	552	-
				SONES ²	5.8	5.9	6.3	6.5	6.5	6	-
Z121SRA	370	3.6	1050	CFM	1083	1062	1024	949	838	686	270
				SONES ²	7	6.9	6.6	6.1	5.7	5.3	4.6
Z102HRA	812 (BHP 0.53)	7.5	1550	CFM	1435	1385	1338	1294	1247	1203	1163
				SONES ²	11.8	11.7	11.9	11.9	11.7	11.3	11
Z12HRA	851 (BHP 0.65)	7.9	1550	CFM	1566	1511	1464	1417	1364	1307	1251
				SONES ²	13.5	13.3	12.9	12.7	12.3	12	11.7

1. Speed (RPM) shown is nominal. Performance is based on actual speed of test. 2. Performance shown is for installation type B - Free Inlet, Ducted Outlet. Performance ratings include the effects of an inlet grille and backdraft damper in the airstream. 3. The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. 4. Specify discharge configuration. Standard types are RA, TD, TDA and TDA-RA. 5. Z6S and Z6H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed. 6. Z8S and Z8H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed. 7. Z10S and Z10H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed.

Zephyr (With TDA Option) Features & Dimensional Data

- Some Selections Below One Sone
- AMCA Air & Sound Certified
- UL Listed for UL507 & UL705
- All Motors with Thermal Overload Protection
- Quick Access Wiring
- Easy to Balance via Variable Speed Control (Lektrol)
- Field Convertible Discharge Orientation
- Field Convertible from Ceiling to Inline Installation
- Popular Models with Multi-Speed Motor (Wide Performance Range)

Note: The TDA-RA configuration is shown. X and Y dimensions will remain the same for TDA-Inline configuration.



Zephyr (with TDA Option) Dimensional References

Model	Housing							Outlet Duct			TDA Panel		
	A	B	C	D	E	E'	F	G	H	J	X	Y	Z
Z3,5,6	12 1/2"	9 1/8"	16"	9 1/8"	1 1/4"	1 1/4"	5 3/8"	10"	3 1/4"	3/4"	10"	6"	1 5/8"
Z8,81	13 7/8"	11 3/8"	17 3/8"	11 3/8"	1 7/8"	4"	5 1/4"	8"	6"	3/4"	10"	8"	1 9/16"
Z10	18"	14 1/8"	21 1/2"	14 1/8"	3 5/8"	6 3/8"	8"	8"	6"	3/4"	14"	10"	2"
Z12, 101, 102, 121	24"	14 1/8"	27 1/2"	14 1/8"	1"	1"	8"	22"	6"	3/4"	20"	10"	2"

Zephyr (with TDA Option) Performance Data

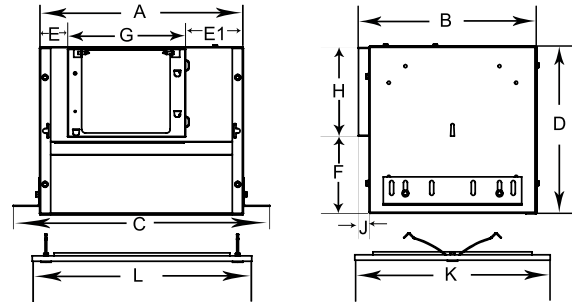
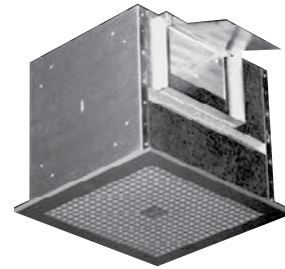
Item Number	MAX. WATT	Amps	RPM	SP	0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	1.500"
Z3TDA	42	0.5	1550	CFM	107	81	-	-	-	-	-	-	-	-
				SONES ²	1.7	1.9	-	-	-	-	-	-	-	-
Z5TDA	83	1	1550	CFM	199	171	143	104	-	-	-	-	-	-
				SONES ²	1.9	2	2.1	2.1	-	-	-	-	-	-
Z6SH-TDA ⁵	46	0.6	1050	CFM	127	93	66	-	-	-	-	-	-	-
				SONES ²	0.9	1.2	1.6	-	-	-	-	-	-	-
Z6SH-TDA ⁵	108	1.4	1550	CFM	227	192	157	113	-	-	-	-	-	-
				SONES ²	2.7	2.7	2.8	2.9	-	-	-	-	-	-
Z8TDA ⁶	75	1	1050	CFM	255	228	208	190	165	139	110	-	-	-
				SONES ²	1.8	1.9	2.4	2.8	3.3	3.6	3.7	-	-	-
Z8TDA	84	0.9	1050	CFM	307	274	252	228	198	152	95	-	-	-
				SONES ²	2.2	2.2	2.5	2.9	3.1	3.3	3.5	-	-	-
Z8TDA ⁶	132	1.6	1550	CFM	402	376	350	335	318	301	277	-	-	-
				SONES ²	4.1	3.9	3.9	4.2	4.4	4.6	4.9	-	-	-
Z10TDA ⁷	234	2.5	1050	CFM	456	423	391	367	350	337	320	268	128	-
				SONES ²	4.1	4.5	4.7	4.9	5.2	5.4	5.7	6.2	6.4	-
Z101SR-TDA	152	1.6	1050	CFM	609	521	438	373	272	130	-	-	-	-
				SONES ²	3.2	3.4	4.3	4.6	5.2	5.6	-	-	-	-
Z102HTDA ⁷	372	3.6	1550	CFM	700	661	626	593	558	528	504	455	368	-
				SONES ²	8	8	7.9	7.9	8	8.2	8.1	8	7.8	-
Z102STDA	273	4.5	1050	CFM	780	720	660	592	336	-	-	-	-	-
				SONES ²	4.6	5.7	5.6	4.8	4.7	-	-	-	-	-
Z12STDA	263	2.9	1050	CFM	886	829	786	735	660	526	180	-	-	-
				SONES ²	5.5	5.7	5.6	5.8	5.7	5.3	4.7	-	-	-
Z121STDA	344	3.6	1050	CFM	1089	1043	981	899	802	672	404	-	-	-
				SONES ²	6.5	6.5	6.3	6	5.7	5.3	4.4	-	-	-
Z102HTDA	810 (BHP 0.53)	7.5	1550	CFM	1397	1348	1301	1253	1206	1162	1121	1034	916	611
				SONES ²	10.7	10.5	10.7	10.6	10.4	10.1	9.9	9.6	9.4	9
Z12HTDA	810 (BHP 0.53)	7.9	1550	CFM	1519	1475	1430	1386	1343	1300	1254	1146	1017	697
				SONES ²	12.7	12.4	12.2	11.7	11.5	11.2	10.9	10.5	10.2	9.6

1. Speed (RPM) shown is nominal. Performance is based on actual speed of test. 2. Performance shown is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. 3. The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) from the test inlet duct in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installations Type D: ducted inlet ducted outlet. Ratings do not include the effect of duct end correction. 4. Specify discharge configuration. Standard types are RA, TD, TDA and TDA-RA. 5. Z6S and Z6H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed. 6. Z8S and Z8H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed. 7. Z10S and Z10H is the same unit shipped with EASYTAP dual speed motor. Wired on S (low) speed.

Gplus Introducing Gplus™ Motors on Zephyr Fans

PennBarry's Zephyr family of fans is now available with Gplus™ advanced electronically commuted (EC) high efficiency motors. Fan speed can be controlled manually to prevent over and under ventilation.

In addition, select Zephyr fan models are available with ENERGY STAR® certification. Products that earn the ENERGY STAR® certification prevent greenhouse emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

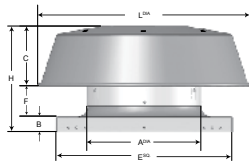


Model	Housing							Outlet Duct			Grille	
	A	B	C	D	E	E1	F	G	H	J	K	L
Z8 GP/GPE	13 7/8"	11 3/8"	17 3/8"	11 3/8"	1 7/8"	4"	5 1/4"	8"	6"	3/4"	13 1/4"	14 7/8"
Z10 GP/GPE	18"	14 1/8"	21 1/2"	14 1/8"	3 5/8"	6 3/8"	8"	8"	6"	3/4"	15 1/2"	19 3/8"
Z12 GP/GPE	24"	14 1/8"	27 1/2"	14 1/8"	1"	1"	8"	22"	6"	3/4"	15 1/2"	25"

Model	ENERGY STAR®	RPM	CFM / Watt at 0.1 SP	0.000		0.100		0.125		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.125	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
Z8-GPE		755	11.2	248	2.0	188	1.8	169	1.7																
Z8-GP		1380	4.1	470	5.9	453	5.8	449	5.8	421	5.7	373	5.5	331	5.4	261	5.3								
Z10-GPE		740	10.8	285	2.0	200	1.5	170	1.4																
Z10-GP		1580	3.3	691	8.2	649	7.9	607	7.9	558	7.6	500	7.4	432	7.1	362	6.9								
Z12-GPE		530	10.8	547	3.0	278	2.8	166	2.7																
Z12-GP		1355	3.2	1545	10.6	1496	10.6	1484	10.6	1418	10.1	1321	9.8	1222	9.7	1123	9.5	1009	9.4	817	9.0	502	8.9	222	8.5

- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type B - Free Inlet, Ducted Outlet.
- (3) Performance ratings include the effects of an inlet grille and backdraft damper in the airstream.
- (4) The sound ratings shown are for loudness values in spherical sones at 1.5 m (5 ft) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for Installation type B: free inlet spherical sone levels.

WCC Roof Cap (Curb Mounted)

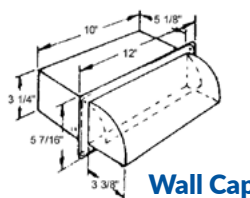


Roof Cap Dimensional Data

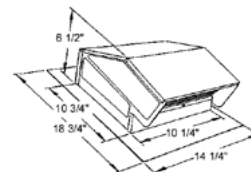
For Use With	Model	A(Throat) Dia	B	C	E SQ	F	H	L-Dia	Roof Curb Size
Z1, ZL1, ZL2, ZT, ZJ1, Z3H, Z5H, Z6S/H	WCC06	7"	1	3 1/2"	15"	4"	8 1/2"	12"	14" x 14"
Z8S/H, Z81S, Z10S/H	WCC08	9"	1-1/2	5 1/2"	18 1/2"	4"	11"	18 1/2"	17" x 17"
Z101S, Z102S	WCC10	11"	1 1/2	5 1/2"	18 1/2"	4"	11"	21"	17" x 17"
Z12S, Z121S	WCC12	13"	2	7"	20 1/2"	4"	13"	25"	19" x 19"
Z102H, Z12H	WCC14	15"	2	7"	24 3/4"	4"	13"	28"	23" x 23"
Z14, Z15	WCC20	21"	2	10 1/2"	28 1/2"	5 1/2"	18"	37"	27" x 27"

Wall Caps

Item Number	Description
25632	WC10 - WALL CAP
25633	SL20 - SLOPED ROOF CAP

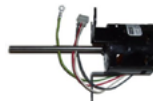


Wall Cap



Sloped Roof Cap

Replacement Motors



Item Number	Description
56343-0	Z6S/H MOTOR ODP 115/1/60
56344-0	Z8S/H MOTOR ODP 115/1/60
56346-0	Z10S/H MOTOR ODP 115/1/60
60030-0	ZT MOTOR WITH PLUG - 115/1/60 ODP
60024-0	ZJ1 MOTOR WITH PLUG - 115/1/60 ODP

Metal Replacement Grilles

Item Number	Description
39595-1	ZT, ZJ1, Z81S, Z8S/H
39593-1	Z3, Z5, Z6
39597-1	Z10
39599-1	Z101-Z12

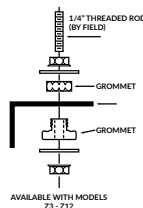
If a replacement grille is needed let your sales representative know if a hardware kit is also needed. Item#39600-0 for plastic, 55245-0 for metal.

Lek-Trol™ Speed Controllers

Item Number	Description	For Use With
52151-0	LT30 Solid State Speed Controller	ZT, ZJ1, Z3H, Z5H, Z6S/H, Z8S/H, Z81S, Z101S
52199-0	LT40 Solid State Speed Controller	Z102H, Z12H
52197-0	LT50 Solid State Speed Controller	Z10S/H, Z102S, Z12S, Z121S



Accessories



Line Voltage Thermostat, Spdt, Heat/cool, 277 Vac	Vibration Isolation Kit	Grille Hardware Package - Zephyr	Airminder Delay Switch
TSTAT-ETD9STS	29954-0	39600-0 Plastic 55245-0 Metal	52144-0

Direct Drive Domex

Pennbarry Model DX direct drive centrifugal roof exhausters are designed for roof mounted installations in low to medium pressure jobs and are ideal for general purpose exhaust applications removing relatively clean air.

- Standard Features
- DX - Direct Drive
- Weather-resistant, seamless spun aluminum housing
- Non-overloading backward inclined wheel
- Aluminum curb cap
- NEMA 1 disconnect, mounted and wired
- Birdscreen
- Gravity backdraft damper

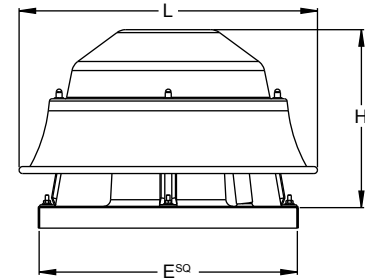


PennBarry certifies that the Domex direct drive and belt drive models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program. DX27B is not AMCA Certified.

DX08, DX10, & DX11 | Direct Drive

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/Apron	L (Dia.)	H	E*	Ro	
DX08S/R	0.064"	16 ga.	0.064"	20 7/8"	13 1/2"	18 1/2" x 18 1/2"	9 x 9	26 lbs
DX10S/R	0.064"	16 ga.	0.064"	20 7/8"	13 1/2"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	29 lbs
DX11V/S/R	0.064"	16 ga.	0.064"	20 7/8"	13 1/2"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	38 lbs
DX11Q	0.064"	16 ga.	0.064"	20 7/8"	13 1/2"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	40 lbs

All dimensions are in inches. *Outside dimension of curb should be 1 1/2" less than "E" dimension.



Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX08S	1/50	44	1300	3361	237	1.5	161	2.2	114	3	69	3.8	-	-	-	-	-	-	-	-	-	-	-	-
DX08R	1/30	55	1550	4007	285	2.4	100	2.8	141	3.5	94	4.1	58	4.9	-	-	-	-	-	-	-	-	-	-
DX10S	1/25	82	1300	3361	385	3.9	316	3.5	257	4.8	207	5.1	168	5.2	129	5.6	82	6.1	-	-	-	-	-	-
DX10R	1/12 ⁽¹⁾	121	1550	4007	559	6.1	501	5.9	446	6.1	394	6.5	338	6.8	267	7	187	7.2	100	7.4	-	-	-	-
DX11V	1/25	111	1050	3058	388	1.8	223	2.2	148	3.1	112	3.7	80	4.5	49	5.3	-	-	-	-	-	-	-	-
DX11S	1/11	142	1300	3786	503	3.4	397	3.6	320	4.3	262	5	201	5.5	149	6	104	6.5	-	-	-	-	-	-
DX11R	1/6 ⁽²⁾	201	1550	4514	736	6.7	659	6.4	577	6.6	502	6.9	432	7.6	356	7.9	274	7.9	188	7.9	100	7.9	-	-
DX11Q	1/5 ⁽³⁾	268	1725	5024	997	10.2	921	9.7	850	9.5	768	9.5	685	9.4	598	9.2	511	9	409	8.7	294	8.9	100	8.9

Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

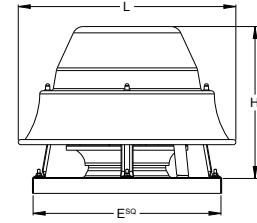
Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

Domex DX08, DX10, & DX11 Direct Drive Fans				
Item Number	Voltage	HP	Roof Curb	Speed Controller
DX08SRF	115/1/60	1/30	17 x 17	-
DX10SRF	115/1/60	1/12	17 x 17	LT30
DX11VSRF	115/1/60	1/6	17 x 17	LT30
DX11QF	115/1/60	1/5	17 x 17	LT50

DX13 | Direct Drive

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/Apron	L (Dia.)	H	E*	Ro	
DX13V/S/R	0.064"	16 ga.	0.064"	21 7/16	14 3/4	18 1/2 x 18 1/2	11 1/2 x 11 1/2	36 lbs
DX13Q	0.064"	16 ga.	0.064"	21 7/16	14 3/4	18 1/2 x 18 1/2	11 1/2 x 11 1/2	43 lbs

All dimensions are in inches. *Outside dimension of curb should be 1/2" less than "E" dimension.



Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX13V	1/20	92	1050	3221	661	4.4	479	3.1	341	2.8	262	3.6	207	4.3	161	5.1	115	5.9	79	6.6	44	7.4	-	-
DX13S	1/12	120	1300	3988	869	8	749	6.4	632	5.3	510	5.4	418	6	349	6.4	290	6.7	226	7	158	7.4	-	-
DX13R	1/6	201	1550	4755	1054	10.5	988	9.9	917	9.2	839	8.9	736	8.5	651	8.2	579	7.9	510	7.9	428	8	191	8.5
DX13Q	1/4	314	1725	5292	1280	16	1226	15.3	1170	14.6	1112	14	1053	13.4	995	13	936	12.5	868	12	796	11.5	630	11

Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan zones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

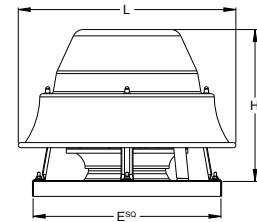
Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

Domex DX13 Direct Drive Fans

Item Number	Voltage	HP	Roof Curb	Speed Controller
DX13VSRF	115/1/60	1/6	17 x 17	LT30
DX13QF	115/1/60	1/4	17 x 17	LT50

DX16 | Direct Drive

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/Apron	L (Dia.)	H	E*	Ro	
DX16V/S/R, Q1 & Q2	0.064"	16 ga.	0.064"	28 1/2	22 1/2	20 1/2 x 20 1/2	16 x 16	56 lbs



Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX16V	1/6	453	1050	3788	1738	9.9	1489	8	1256	6.6	1032	6.1	884	6.6	772	7.1	682	7.9	598	9.9	529	10.1	392	10.2
DX16S	1/3	510	1300	4690	2021	12	1822	10.6	1637	9.5	1428	8.7	1256	8.4	1094	8.5	943	9.3	850	10.2	775	11	606	12.3
DX16R	1/3 ⁽¹⁾	574	1550	5592	2346	13.8	2176	12.8	2014	12	1853	11.3	1685	10.7	1532	10.4	1384	10.1	1247	10	1115	10.4	881	12.4
DX16Q1	1/2	688	1650	5953	2701	16.9	2576	16.4	2465	15.9	2352	15.5	2228	15	2096	14.4	1966	14	1839	13.6	1700	13.5	1401	13.5
DX16Q2	3/4	866	1725	6223	3016	17.7	2921	17.1	2829	16.7	2747	16.3	2665	15.9	2575	15.5	2484	15	2371	14.6	2256	14.2	2005	13.3

(1) TE motor is 1/2 Hp. Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan zones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

Domex DX16 Direct Drive Fans

Item Number	Voltage	HP	Roof Curb	Speed Controller
DX16VSRF	115/1/60	1/3	19 x 19	LT50
DX16Q1F	115/1/60	1/2	19 x 19	LT40
DX16Q2F	115/1/60	3/4	19 x 19	LT40

Domex with Gplus EC Motors

Pennbarry model DX direct drive roof exhausters with Gplus EC motors are designed for low to medium pressure jobs and are ideal for removing generally clean air applications while providing greater efficiency, flexibility and controllability.

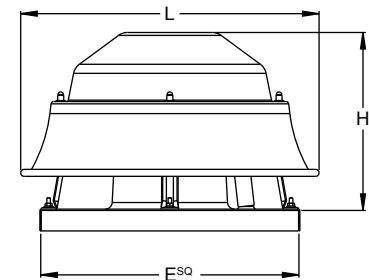
- Standard Features
- DX - Direct Drive
- Weather-resistant, seamless spun aluminum housing
- Non-overloading backward inclined wheel
- Aluminum curb cap
- NEMA 1 disconnect, mounted and wired
- Birdscreen
- Gravity backdraft damper



PennBarry certifies that the Domex direct drive and belt drive models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program. DX27B is not AMCA Certified.

DX08, DX10, DX11, DX13, & DX16

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/Apron	L (Dia.)	H	E*	Ro	
DX08QGP	0.064"	16 ga.	0.064"	20 3/4"	13 3/4"	18 1/2" x 18 1/2"	9 x 9	26 lbs
DX10QGP	0.064"	16 ga.	0.064"	20 3/4"	13 3/4"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	29 lbs
DX11QGP	0.064"	16 ga.	0.064"	20 3/4"	13 3/4"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	40 lbs
DX13QGP	0.064"	16 ga.	0.064"	21 7/16"	14 3/4"	18 1/2" x 18 1/2"	11 1/2" x 11 1/2"	43 lbs
DX16Q2GP	0.064"	16 ga.	0.064"	28 1/2"	22 1/2"	20 1/2" x 20 1/2"	16 x 16	56 lbs



All dimensions are in inches. *Outside dimension of curb should be 1 1/2" less than "E" dimension.

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX08QGP	1/6	55	1725	4007	285	2.4	100	2.8	141	3.5	94	4.1	58	4.9	-	-	-	-	-	-	-	-	-	-
DX10QGP	1/6	121	1725	4007	559	6.1	501	5.9	446	6.1	394	6.5	338	6.8	267	7	187	7.2	100	7.4	-	-	-	-
DX11QGP	1/4	268	1725	5024	997	10.2	921	9.7	850	9.5	768	9.5	685	9.4	598	9.2	511	9	409	8.7	294	8.9	100	8.9
DX13QGP	1/3	314	1725	5292	1280	16	1226	15.3	1170	14.6	1112	14	1053	13.4	995	13	936	12.5	868	12	796	11.5	630	11
DX16Q2GP	3/4	866	1725	6223	3016	17.7	2921	17.1	2829	16.7	2747	16.3	2665	15.9	2575	15.5	2484	15	2371	14.6	2256	14.2	2005	13.3

Domex DX08, DX10, DX11, DX13, DX16 GPlus EC Motor			
Item Number	Voltage	HP	Roof Curb
DX08QGP	115/1/60	1/6	17 x 17
DX10QGP	115/1/60	1/6	17 x 17
DX11QGP	115/1/60	1/4	17 x 17
DX13QGP	115/1/60	1/3	17 x 17
DX16Q2GP	115/1/60	3/4	19 x 19

Belt Drive Domex

Pennbarry Model DX belt drive roof fans are ideal for general exhaust applications removing relatively clean air from bathrooms, offices, warehouses and many other building types.



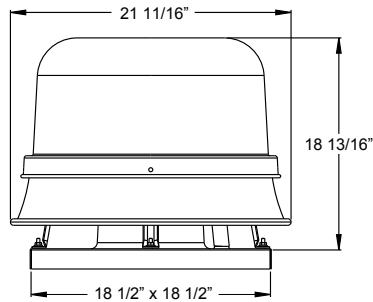
- Standard Features
- DX - Belt Drive
- Weather-resistant, seamless spun aluminum housing
- Aluminum, non-overloading backward inclined wheels
- Aluminum curb cap
- NEMA 1 disconnect, mounted and wired
- Gravity backdraft damper



PennBarry certifies that the Domex direct drive and belt drive models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program. DX27B is not AMCA Certified.

DX08B | Belt Drive

Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Discharge Apron = 0.064"
Hood = 0.064"
Roof/Wall Opening = 11 1/2" SQ.
Damper Size = 11 1/4" SQ.
Max. Motor Frame Size = 42
Peak BHP = (RPM/2232) ³
Max. RPM = 1437 (1/4 HP)
Est. Ship Weight = 35 lbs.



Domex DX08B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX08B1/4	115/1/60	1/4	17 x 17

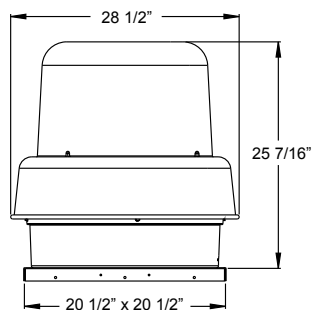
HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	375	1150	289	-	-	-	-	-	-	-	-	-	-	-	-	-
			1.4	0.01	-	-	-	-	-	-	-	-	-	-	-	-
	430	1319	331	-	-	-	-	-	-	-	-	-	-	-	-	-
			1.7	0.01	-	-	-	-	-	-	-	-	-	-	-	-
	475	1457	366	-	-	-	-	-	-	-	-	-	-	-	-	-
			2.0	0.01	-	-	-	-	-	-	-	-	-	-	-	-
	520	1595	401	155	-	-	-	-	-	-	-	-	-	-	-	-
			2.2	0.01	1.7	0.01	-	-	-	-	-	-	-	-	-	-
	565	1733	435	242	-	-	-	-	-	-	-	-	-	-	-	-
			2.5	0.02	1.9	0.02	-	-	-	-	-	-	-	-	-	-
	610	1871	470	301	-	-	-	-	-	-	-	-	-	-	-	-
			3.1	0.02	2.4	0.02	-	-	-	-	-	-	-	-	-	-
	655	2009	505	351	-	-	-	-	-	-	-	-	-	-	-	-
			3.4	0.02	2.7	0.02	-	-	-	-	-	-	-	-	-	-
	700	2147	540	399	-	-	-	-	-	-	-	-	-	-	-	-
			3.8	0.03	3.1	0.03	-	-	-	-	-	-	-	-	-	-
	745	2285	574	444	247	-	-	-	-	-	-	-	-	-	-	-
			4.3	0.03	3.5	0.04	3.0	0.03	-	-	-	-	-	-	-	-
	790	2424	609	487	330	-	-	-	-	-	-	-	-	-	-	-
			4.6	0.04	3.9	0.04	3.3	0.04	-	-	-	-	-	-	-	-
835	2562	644	530	393	-	-	-	-	-	-	-	-	-	-	-	
		5.0	0.05	4.2	0.05	3.6	0.05	-	-	-	-	-	-	-		
880	2700	678	571	446	207	-	-	-	-	-	-	-	-	-	-	
		5.5	0.06	4.7	0.06	4.0	0.06	3.6	0.05	-	-	-	-	-		
925	2838	713	611	496	329	-	-	-	-	-	-	-	-	-	-	
		6.0	0.07	5.2	0.07	4.5	0.07	4.0	0.07	-	-	-	-	-		
970	2976	748	651	543	408	-	-	-	-	-	-	-	-	-	-	
		6.7	0.08	5.9	0.08	5.2	0.08	4.5	0.08	-	-	-	-	-		
1015	3114	783	691	590	471	236	-	-	-	-	-	-	-	-	-	
		7.2	0.09	6.5	0.09	5.8	0.09	5.1	0.09	4.8	0.08	-	-	-		
1060	3252	817	730	635	526	364	-	-	-	-	-	-	-	-	-	
		7.5	0.10	6.8	0.10	6.2	0.11	5.6	0.11	5.2	0.10	-	-	-		
1105	3390	852	769	678	577	449	-	-	-	-	-	-	-	-	-	
		8.0	0.11	7.2	0.12	6.6	0.12	6.0	0.12	5.5	0.12	-	-	-		
1150	3258	887	808	720	626	514	309	-	-	-	-	-	-	-	-	
		8.8	0.13	7.9	0.13	7.3	0.13	6.7	0.13	6.2	0.13	5.8	0.12	-		
1195	3666	921	846	762	673	575	426	-	-	-	-	-	-	-	-	
		9.8	0.14	8.8	0.15	8.1	0.15	7.6	0.15	7.1	0.15	6.7	0.14	-		

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	1240	3804	956		885		803		719		626		509		279	
			10.4	0.16	9.4	0.16	8.6	0.17	8.1	0.17	7.7	0.17	7.4	0.16	6.8	0.14
	1280	3927	687		918		840		760		670		566		398	
			10.5	0.17	9.6	0.18	8.9	0.18	8.3	0.19	7.9	0.19	7.6	0.18	7.3	0.17
	1320	4049	1018		952		875		798		714		622		488	
			10.8	0.19	10.0	0.20	9.3	0.20	8.7	0.20	8.3	0.20	8.0	0.20	7.9	0.19
	1350	4141	1041		977		902		827		746		658		544	
			11.1	0.21	10.4	0.21	9.7	0.21	9.0	0.22	8.7	0.22	8.5	0.22	8.3	0.21
	1390	4264	1072		1010		937		865		787		704		603	
			11.7	0.22	11.1	0.23	10.3	0.23	9.7	0.23	9.1	0.24	9.1	0.24	9.0	0.23
1420	4356	1095		1035		964		893		818		737		645		
		12.3	0.24	11.6	0.24	10.9	0.25	10.3	0.25	9.6	0.25	9.6	0.25	9.6	0.25	
1437	4408	1108		1049		979		909		836		756		669		
		12.5	0.25	11.8	0.25	11.1	0.26	10.5	0.26	9.9	0.26	9.8	0.26	9.8	0.26	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX11B | Belt Drive

Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Hood / Apron = 0.08"
Roof/Wall Opening = 16" SQ.
Damper Size = 15 3/4" SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1700) ³
Max. RPM = 1810 (3/4 HP)
Est. Ship Weight = 55 lbs.



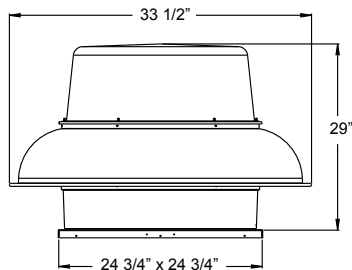
Domex DX11B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX11B1/2	115/1/60	1/2	19 x 19
DX11B1/4	115/1/60	1/4	19 x 19

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.125" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	650	2345	1120		905		535		-		-		-		-		-		-		-	
			4.7	0.05	4.1	0.05	3.4	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	675	2435	1164		959		638		-		-		-		-		-		-		-	
			4.9	0.05	4.3	0.06	3.6	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	2526	1207		1011		737		-		-		-		-		-		-		-	
			5.1	0.06	4.6	0.07	3.9	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	725	2616	1250		1062		813		-		-		-		-		-		-		-	
			5.5	0.07	4.9	0.07	4.3	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	750	2706	1293		1113		880		252		-		-		-		-		-		-	
			5.8	0.07	5.3	0.08	4.7	0.09	4.1	0.05	-	-	-	-	-	-	-	-	-	-	-	-
	800	2886	1379		1213		1007		672		-		-		-		-		-		-	
			6.6	0.09	6.1	0.10	5.5	0.10	5.0	0.10	-	-	-	-	-	-	-	-	-	-	-	-
	825	2976	1422		1263		1067		775		-		-		-		-		-		-	
			6.8	0.10	6.3	0.10	5.7	0.11	5.2	0.11	-	-	-	-	-	-	-	-	-	-	-	
	850	3067	1465		1312		1126		874		-		-		-		-		-		-	
			7.0	0.11	6.5	0.11	5.9	0.12	5.4	0.12	-	-	-	-	-	-	-	-	-	-	-	
	900	3247	1552		1407		1238		1028		665		-		-		-		-		-	
			7.8	0.13	7.2	0.13	6.5	0.14	6.0	0.15	5.7	0.13	-	-	-	-	-	-	-	-	-	
	950	3427	1638		1502		1347		1159		884		-		-		-		-		-	
			8.5	0.15	7.9	0.16	7.3	0.16	6.7	0.17	6.3	0.17	-	-	-	-	-	-	-	-		
1000	3608	1724		1596		1451		1282		1080		706		-		-		-		-		
		9.2	0.17	8.7	0.18	8.0	0.19	7.3	0.20	7.0	0.20	6.8	0.18	-	-	-	-	-	-			
1050	3788	1810		1689		1553		1400		1217		939		-		-		-		-		
		9.7	0.20	9.2	0.21	8.5	0.22	7.8	0.23	7.4	0.23	7.1	0.22	-	-	-	-	-	-			
1075	3878	1853		1735		1603		1456		1284		1040		647		-		-		-		
		10.0	0.21	9.4	0.23	8.8	0.23	8.1	0.24	7.7	0.25	7.4	0.25	7.5	0.21	-	-	-	-			
1093	3943	1884		1768		1639		1496		1329		1111		758		-		-		-		
		10.2	0.23	9.6	0.24	9.1	0.24	8.3	0.26	7.9	0.26	7.7	0.26	7.7	0.23	-	-	-	-			
1/2	1220	4402	2103		2001		1889		1767		1634		1481		1306		1019		-		-	
			11.9	0.31	11.4	0.33	10.9	0.34	10.2	0.34	9.6	0.36	9.2	0.37	9.0	0.37	8.9	0.34	-	-		
	1250	4510	2155		2056		1947		1829		1700		1555		1393		1142		801		-	
			12.4	0.34	11.9	0.35	11.4	0.36	10.8	0.37	10.0	0.38	9.6	0.39	9.4	0.39	9.3	0.38	9.3	0.33	-	
	1300	4690	2241		2147		2042		1930		1811		1677		1528		1342		1071		-	
			13.0	0.38	12.6	0.39	12.2	0.40	11.6	0.41	10.9	0.42	10.2	0.44	10.1	0.44	9.9	0.44	9.9	0.42	-	
1369	4939	2360		2271		2172		2069		1959		1838		1703		1556		1352		1095		
		14.0	0.44	13.6	0.46	13.2	0.47	12.8	0.48	12.1	0.49	11.4	0.51	11.0	0.52	10.8	0.52	10.9	0.51	10.9	0.48	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/3HP and 3/4HP Motors available only as a special order item from the factory.

DX12B | Belt Drive

Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Hood / Apron = 0.09"
Roof/Wall Opening = 16" SQ.
Damper Size = 15 3/4" SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1617) ³
Max. RPM = 2000 (1 1/2 HP)
Est. Ship Weight = 98 lbs.



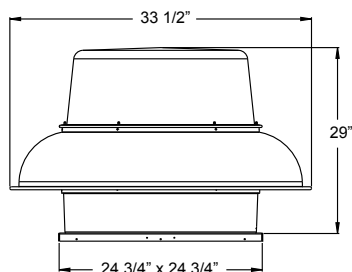
Domex DX12B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX12B1/2	115/1/60	1/2	23 x 23

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	1150	4779	2244		2128		1986		1854		1719		1556		1373		1136		572		-	
			15.3	0.28	14.7	0.29	14.2	0.31	13.7	0.33	13.3	0.34	12.9	0.35	12.9	0.36	12.9	0.35	12.0	0.28	-	-
	1175	4883	2292		2180		2041		1910		1782		1629		1451		1239		906		-	
			15.7	0.30	15.2	0.31	14.6	0.33	14.2	0.35	13.7	0.36	13.3	0.37	13.2	0.38	13.3	0.38	12.9	0.35	-	-
	1200	4987	2341		2231		2096		1966		1844		1700		1527		1341		1076		-	
			16.3	0.32	15.8	0.33	15.2	0.35	14.7	0.37	14.3	0.38	13.8	0.39	13.7	0.40	13.7	0.41	13.6	0.39	-	-
	1250	5195	2439		2333		2206		2077		1963		1831		1676		1507		1300		-	
17.2			0.36	16.8	0.37	16.2	0.40	15.7	0.42	15.1	0.43	14.7	0.44	14.4	0.45	14.4	0.46	14.5	0.45	-	-	
1275	5299	2488		2384		2260		2134		2021		1895		1749		1585		1402		-		
		17.7	0.38	17.2	0.39	16.7	0.42	16.1	0.44	15.5	0.45	14.9	0.47	14.5	0.48	14.6	0.48	14.7	0.48	-	-	
1302	5411	2540		2439		2319		2195		2082		1963		1827		1668		1503		869		
		18.1	0.40	17.6	0.42	17.1	0.44	16.6	0.46	16.0	0.48	15.4	0.49	14.7	0.51	14.7	0.52	14.9	0.52	14.5	0.45	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/4HP, 1/3HP, 3/4HP Motors available only as a special order item from the factory.

DX14B | Belt Drive

Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Hood / Apron = 0.09"
Roof/Wall Opening = 16" SQ.
Damper Size = 15 3/4" SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1617) ³
Max. RPM = 2000 (1 1/2 HP)
Est. Ship Weight = 98 lbs.



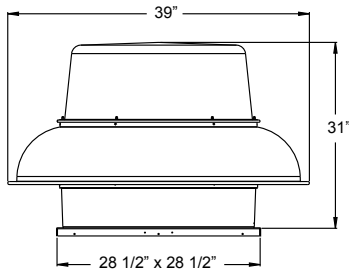
Domex DX14B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX14B1/2	115/1/60	1/2	23 x 23

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	1060	4405	2883		2708		2549		2348		2106		1854		1561		-		-		-	
			13.4	0.31	12.8	0.32	12.4	0.34	11.7	0.35	11.0	0.36	9.8	0.35	8.7	0.34	-	-	-	-		
	1095	4551	2978		2809		2654		2469		2240		1998		1738		-		-		-	
			14.2	0.34	13.7	0.35	13.2	0.37	12.6	0.39	11.9	0.39	10.7	0.39	9.5	0.38	-	-	-	-		
	1130	4696	3074		2909		2758		2586		2373		2138		1901		610		-		-	
			15.2	0.37	14.6	0.39	14.1	0.41	13.6	0.42	12.8	0.43	11.9	0.43	10.5	0.43	9.3	0.25	-	-		
	1160	4821	3155		2995		2847		2683		2484		2257		2027		1251		-		-	
16.0			0.40	15.5	0.42	15.1	0.44	14.5	0.46	13.8	0.47	12.9	0.47	11.5	0.46	9.8	0.40	-	-			
1190	4946	3237		3081		2936		2780		2592		2373		2150		1556		-		-		
		17.0	0.44	16.4	0.45	16.0	0.47	15.5	0.49	14.8	0.50	14.0	0.51	12.6	0.50	10.4	0.47	-	-			
1200	4987	3264		3109		2965		2812		2627		2412		2191		1629		-		-		
		17.3	0.45	16.8	0.46	16.3	0.48	15.8	0.50	15.1	0.52	14.4	0.52	12.9	0.52	10.6	0.49	-	-			

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/4HP, 1/3HP, 3/4HP, 1HP Motors available only as a special order item from the factory.

DX16B | Belt Drive

Galv. Steel Base = 14 Gage
Aluminum Base = 0.08"
Discharge Apron = 0.064"
Hood = 0.08"
Roof/Wall Opening = 20" SQ.
Damper Size = 19 3/4" SQ.
Max. Motor Frame Size = 145T
Peak BHP = (RPM/1078) ³
Max. RPM = 1631 (3 HP)
Est. Ship Weight = 131 lbs.



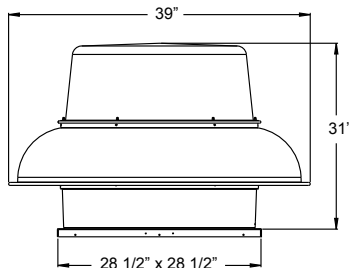
Domex DX16B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX16B1/2	115/1/60	1/2	27 x 27

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	775	3792	3226		3039		2839		2629		2397		1897		766		-	-	-	-	-	-
			12.3	0.32	11.9	0.34	11.6	0.35	11.2	0.36	10.7	0.37	10.1	0.35	9.9	0.22	-	-	-	-	-	-
	800	3914	3330		3150		2957		2755		2546		2183		1334		-	-	-	-	-	-
			12.8	0.35	12.4	0.37	12.0	0.38	11.7	0.40	11.3	0.41	10.6	0.40	10.3	0.40	-	-	-	-	-	-
	825	4036	3434		3259		3073		2878		2679		2396		1744		-	-	-	-	-	-
			13.3	0.39	12.9	0.40	12.5	0.42	12.2	0.43	11.8	0.45	11.2	0.45	10.7	0.40	-	-	-	-	-	-
850	4159	3538		3368		3188		3001		2808		2575		2091		-	-	-	-	-	-	
		13.8	0.42	13.5	0.44	13.1	0.46	12.7	0.47	12.3	0.49	11.9	0.49	11.2	0.46	-	-	-	-	-	-	
868	4247	3613		3447		3271		3088		2900		2690		2314		-	-	-	-	-	-	
		14.3	0.45	13.9	0.47	13.5	0.49	13.2	0.50	12.8	0.51	12.3	0.52	11.6	0.51	-	-	-	-	-	-	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/4HP, 1/3HP, 3/4HP, 1HP and 1.5HP Motors available only as a special order item from the factory.

DX18B | Belt Drive

Galv. Steel Base = 14 Gage
Aluminum Base = 0.08"
Discharge Apron = 0.064"
Hood = 0.08"
Roof/Wall Opening = 20" SQ.
Damper Size = 19 3/4" SQ.
Max. Motor Frame Size = 145T
Peak BHP = (RPM/986) ³
Max. RPM = 1326 (2 HP)
Est. Ship Weight = 132 lbs.



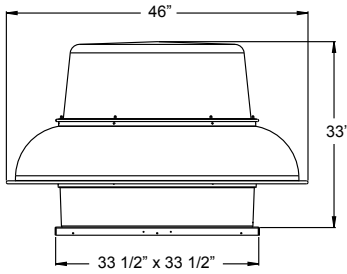
Domex DX18B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX18B1/2	115/1/60	1/2	27 x 27
DX18B3/4	115/1/60	3/4	27 x 27

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	715	3791	3766		3497		3209		2911		2456		-	-	-	-	-	-	-	-	-	
			11.4	0.31	11.0	0.34	10.5	0.36	9.8	0.38	9.0	0.37	-	-	-	-	-	-	-	-	-	
	740	3923	3898		3639		3361		3075		2712		1852		-	-	-	-	-	-		
			12.1	0.35	11.7	0.37	11.2	0.39	10.4	0.41	9.7	0.42	9.1	0.37	-	-	-	-	-	-		
	770	4082	4056		3808		3542		3271		2974		2383		-	-	-	-	-	-		
13.1			0.39	12.7	0.42	12.2	0.44	11.5	0.46	10.6	0.48	9.7	0.46	-	-	-	-	-	-			
794	4209	4182		3943		3685		3424		3150		2684		1604		-	-	-	-			
		14.2	0.43	13.7	0.46	13.2	0.48	12.5	0.50	11.6	0.52	10.6	0.51	10.3	0.41	-	-	-	-			
3/4	825	4374	4345		4115		3868		3618		3357		3010		2313		-	-	-	-		
			15.2	0.48	14.8	0.51	14.2	0.53	13.7	0.56	12.6	0.58	11.6	0.58	10.8	0.54	-	-	-	-		
	855	4533	4503		4281		4045		3804		3555		3278		2763		-	-	-	-		
			15.5	0.53	15.1	0.57	14.6	0.59	14.1	0.62	13.2	0.64	12.2	0.65	11.2	0.64	-	-	-	-		
	885	4692	4662		4447		4220		3987		3750		3504		3107		-	-	-	-		
16.3			0.59	15.9	0.63	15.4	0.65	14.9	0.68	14.1	0.70	13.3	0.72	12.3	0.71	-	-	-	-			
912	4835	4804		4595		4376		4151		3923		3684		3376		1675		-	-			
		17.1	0.65	16.8	0.68	16.3	0.71	15.8	0.74	15.1	0.76	14.3	0.78	13.4	0.78	12.3	0.59	-	-			

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/4HP, 1/3HP, 1HP, 1.5HP and 2HP Motors available only as a special order item from the factory.

DX24B | Belt Drive

Galv. Steel Base = 14 Gage
Aluminum Base = 0.08"
Discharge Apron = 0.064"
Hood = 0.08"
Roof/Wall Opening = 25" SQ.
Damper Size = 24 3/4" SQ.
Max. Motor Frame Size = 184T
Peak BHP = (RPM/700) ³
Max. RPM = 1275 (5 HP)
Est. Ship Weight = 183 lbs.



Domex DX24B Belt Drive			
Item Number	Voltage	HP	Roof Curb
DX24B1	115/1/60	1	32 x 32
DX24B1 3PH	208-230-460/3/60	1	32 x 32

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1	663	4301	6373		6107		5795		5411		4980		4493		3838		-		-		-	
			14.7	0.71	14.2	0.76	13.7	0.79	13.0	0.82	12.3	0.85	11.4	0.84	9.7	0.80	-	-	-	-		
	675	4379	6488		6227		5924		5553		5134		4669		4075		-		-		-	
			15.0	0.75	14.5	0.80	13.9	0.84	13.1	0.86	12.6	0.89	11.8	0.89	10.3	0.86	-	-	-	-		
	685	4444	6584		6327		6031		5671		5261		4815		4268		-		-		-	
			15.2	0.78	14.7	0.84	14.1	0.87	13.5	0.90	12.8	0.93	12.1	0.93	10.8	0.90	-	-	-	-		
	700	4541	6728		6477		6191		5847		5450		5031		4531		-		-		-	
			15.5	0.83	15.0	0.89	14.5	0.93	13.9	0.96	13.3	0.99	12.6	1.00	11.5	0.97	-	-	-	-		

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream. 1/4HP, 1/3HP, 1/2HP, 3/4HP, 1.5HP and 2HP Motors available only as a special order item from the factory.

Delta Breez

Signature and Smart Series Ventilation Fans



SIG80-110

Signature Series

Standard Construction

SIG80-110 Signature Series

- Energy Star qualified with brushless DC motor technology
- Full speed adjustable, 80 or 110 CFM
- Energy efficient
- Green LED power indicator indicates power on
- Built in backdraft damper
- Quiet operation - < .3 sones @.1 static pressure

Smart Series

Standard Construction

SMT150D Smart Series

SMT150-200 Smart Series

- Energy Star qualified with brushless DC motor technology
- Dual speed
- User adjustable delay timer options
- Energy efficient
- Green and amber LED indicator lights to show continuous low speed and full speed modes
- Built in backdraft damper
- Quiet operation - < .3 sones @.1 static pressure



**SMT150D
SMT150-200**

Delta Breez Exhaust Fan			
Item Number	CFM	W	ENERGY STAR®
SIG80-110	80/110	8.2W*	★
SMT150D	0-110/150	16.9W*	★
SMT150-200	150/200	24.0W*	★

At full speed and 0.1 Static Pressure.

HAVTECH Parts Division, LLC TERMS AND CONDITIONS OF SALE HEATING AND AIR CONDITIONING PARTS AND EQUIPMENT

COMPANY: The "Company" as used herein shall mean HAVTECH Parts Division LLC.(dba Havtech Commercial Distribution)

QUOTED ITEMS: The above quote does NOT include items that are not specifically quoted. It is the responsibility of the Purchaser to verify accuracy of products listed, counts or quantities listed, accessories needed, and specifications of product including voltages.

TERMS OF PAYMENT: Terms of payment are subject at all times to prior approval by the Company's credit department. Unless otherwise required by the Company's credit department, payment is due upon tender of delivery. If at any time the financial condition of the Purchaser or other circumstances affecting the credit decision, in the Company's opinion, does not justify continuance of production of products or shipment of products on the terms of payment specified, the Company may require full or partial payment in advance, or may at its sole discretion stop or delay production or shipment of products. In the event of default in payment, Purchaser agrees to pay all costs of collection incurred by Company including but not limited to collection agency fees, attorney fees and court costs. Past due amounts shall bear interest at the highest rate allowed by law. Invoices for \$3,000 or more paid with a credit card are subject to a 3% surcharge.

PRICE POLICY: Prices of the goods may be increased depending on the date of release and/or shipment of the order, announced increases in the Company's list prices or increases in labor and material cost.

SHIPPING TERMS: All shipments are F.O.B. factory or F.O.B. Company. Title and risk of loss or damage to Goods will pass to Purchaser upon tender of delivery of the Goods to the carrier at the manufacturer's factory or Company's stock or warehouse. Freight charges are included if so quoted. Shipments will be made via a low cost common carrier; charges for special carrier services requested by the Purchaser shall be paid by the Purchaser. The Company may ship the Goods in one or more lots.

CLAIMS: The responsibility of the Company for all shipments ceases upon delivery of goods in good order to the carrier. Since all goods are shipped at Purchasers risk, any claims for damage or shortage, in transit must, be filed by Purchaser against carrier. Claims for factory shortages will not be considered unless made in writing to the Company within ten (10) days after receipt of the goods and accompanied by Company's bill of lading and factory order numbers.

TAXES: The amount of any present or future taxes applicable to the product shall be added to the price contained herein and paid by the Purchaser in the same manner and with the same effects as if originally added thereto.

CANCELLATIONS: Orders that are being filled out of Company inventory may be cancelled without charge, provided Company receives written notice of cancellation prior to tender of delivery. After tender of delivery, requests for cancellation shall be subject to the "Returned Goods" clause below. Orders that are being filled by specific Company purchase may be cancelled only if, as and when allowed by the seller.

SHIPMENT & DELIVERY DATES: Any stated shipment and/or delivery dates are estimates only and not guaranteed. In no event will Company be liable for any damages or expenses caused by delays in shipment and/or delivery.

SPECIAL ORDERS: Special orders and/or configured orders are non-cancellable and non-returnable.

PRODUCT CHANGES: In the interest of continuous product improvements, the Company reserves the right to change specification and/or design without incurring obligation.

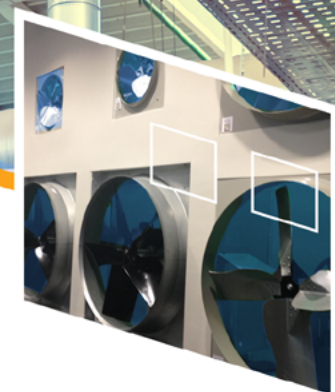
RETURNED GOODS: Goods normally carried in stock may be returned provided they are in new condition and in the original packaging. Goods that have been installed or are not in the original packaging are not returnable. Special order parts not returnable to the manufacturer may not be returned. All returns are subject to a 20% restocking and handling fee.

SUPPORTING DOCUMENTS: Submittals and O&M manuals shall be submitted in electronic format upon request; no hard copies will be submitted.

DISCLAIMER OF WARRANTY: It is understood and agreed that: (a) Company is an independent distributor and not the manufacturer of the Goods it sells; (b) the only warranties for the Goods are those of the manufacturers of the Goods, which Company agrees to assign to Purchaser; and (c) Company has no independent obligation or liability arising from the manufacturers' warranties. **COMPANY HAS NOT MADE AND HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES, DIRECT OR INDIRECT, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY AND ALL WARRANTIES CONCERNING OR RELATED TO THE DESIGN OR CONDITION OF ANY GOODS, THEIR MERCHANTABILITY, AND/OR FITNESS FOR ANY PARTICULAR PURPOSE.** Purchaser is responsible for fulfilling all manufacturer requirements regarding warranty claims, including but not limited to returning the allegedly defective part, advance payment for replacement parts pending evaluation of warranty liability, and payment of shipping costs.

LIMITATION OF LIABILITY: COMPANY'S LIABILITY TO PURCHASER FOR ANY MATTER ARISING OUT OF OR RELATING TO THIS AGREEMENT AND/OR ANY GOODS FURNISHED, WHETHER IN CONTRACT, TORT, WARRANTY OR OTHERWISE, SHALL NOT EXCEED THE PRICE OF THE GOODS.

TERMS OF SALE: Sale of goods covered hereby to Purchaser is made solely on the terms and conditions set forth herein, notwithstanding any additional or conflicting terms and conditions that may be contained in any purchase order or other form of purchase; all such additional or conflicting terms and conditions are hereby rejected by the Company. No waiver alteration or modification of the foregoing terms and conditions shall be valid unless made in writing and signed by a corporate officer of the Company. In particular and without limiting the foregoing, notwithstanding anything to the contrary in purchase order or any other documents, the Company does not accept any order subject to project design and specifications. Purchaser to accept full and sole responsibility to determine whether the product ordered by Purchaser meets the design and specification requirements of any project.



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