



756 Birginal Drive

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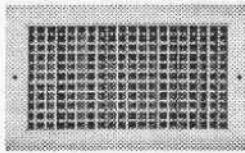
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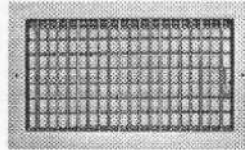


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Model V4004SD



Model VM

PRODUCT DETAILS

- ✦ Finish 01 White
- ✦ Aluminum Construction (VM)
Steel Construction (V4004S)
- ✦ Border type 1 – Surface Mount
Border type 6 – T-Bar Lay-In
- ✦ Surface Mount units are shipped with screw holes for field mounting.

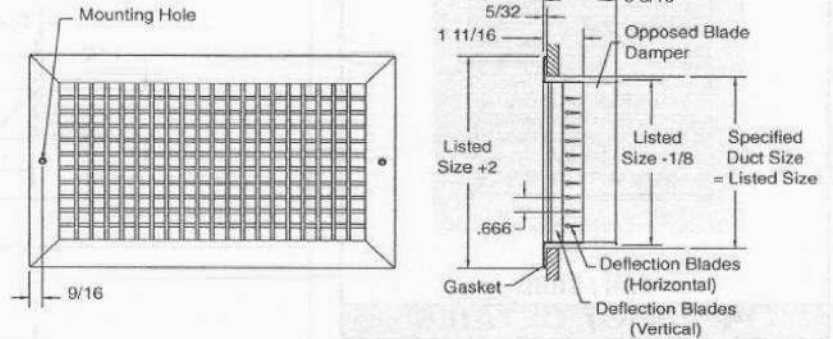
Model V4004SD

- ✦ The V4004SD is a double deflection Supply Register which is shipped with a factory mounted OBDR opposed blade damper
- ✦ Damper is accessible from the face of the register
- ✦ Both vertical and horizontal deflecting blades are fully adjustable

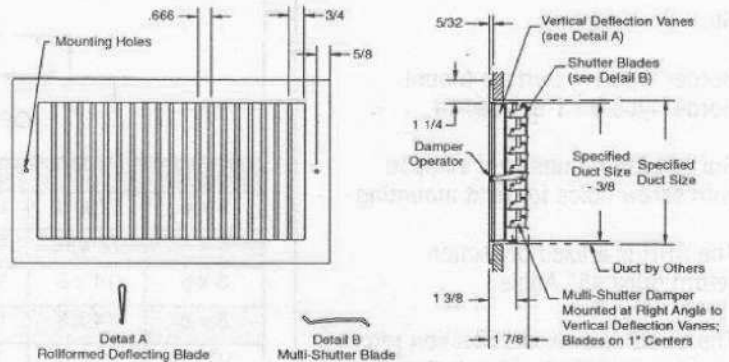
Model VM

- ✦ The VM-1 is a single deflection Supply Register which is shipped with a factory mounted Multi-Shutter Damper
- ✦ Damper is adjustable from the face of the register
- ✦ Vertical deflecting blades are fully adjustable

MODEL V4004SD-1



MODEL VM



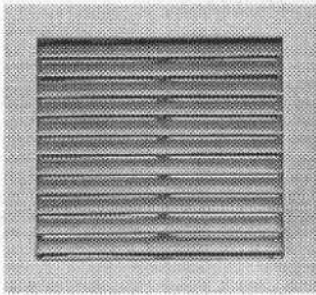
MODEL V4004SD-1 Stock Sizes

06 x 04	12 x 10	16 x 12	☉ 22 x 06	30 x 10
06 x 06	12 x 12	16 x 16	24 x 04	30 x 12
08 x 04	14 x 04	18 x 04	24 x 06	36 x 04
08 x 06	14 x 06	18 x 06	24 x 08	36 x 06
08 x 08	14 x 08	18 x 08	24 x 10	36 x 08
10 x 04	14 x 10	18 x 10	24 x 12	36 x 10
10 x 06	14 x 12	18 x 12	24 x 14	36 x 12
10 x 08	14 x 14	20 x 04	24 x 16	36 x 18
10 x 10	16 x 04	20 x 08	24 x 18	48 x 06
12 x 4	16 x 06	20 x 10	30 x 04	48 x 08
12 x 6	16 x 08	20 x 12	30 x 06	48 x 12
12 x 8	16 x 10	☉ 22 x 04	30 x 08	48 x 18

MODEL VM Stock Sizes

10 x 04	12 x 06			
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☉ Border Type -6 T-Bar Lay-In without Damper

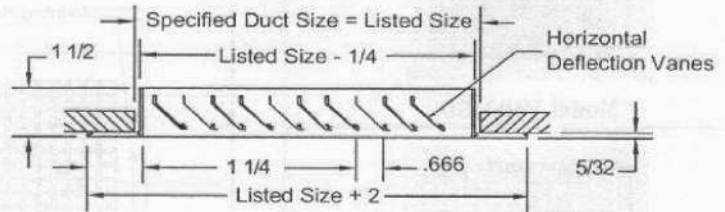


SRH / SRHD

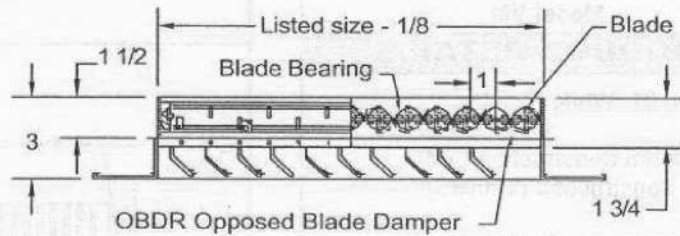
PRODUCT DETAILS

- ✦ Finish 01 White
- ✦ Steel Construction
- ✦ Border type 1 – Surface Mount
Border type 6 - T-Bar Lay-In
- ✦ Surface Mount units are shipped with screw holes for field mounting
- ✦ The SRH is a fixed deflection return grille 45° Angle
- ✦ The SRHD is a fixed deflection return registers supplied with a factory mounted opposed blade damper
- ✦ On SRHD, damper is adjustable from the face of the register
- ✦ For Plaster Frames see pages 14

MODEL SRH-1



MODEL SRHD-1



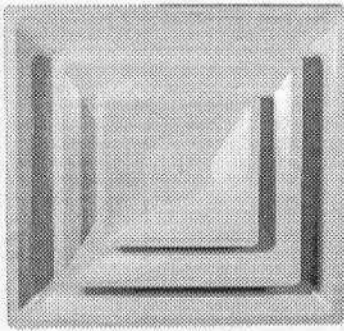
MODEL SRH-1 Stock Sizes

6 x 6	12 x 10	16 x 10	18 x 18	24 x 6	30 x 6	36 x 12	48 x 18
8 x 4	12 x 12	16 x 12	20 x 10	24 x 8	30 x 8	36 x 14	48 x 24
8 x 6	14 x 6	16 x 14	20 x 12	24 x 10	30 x 10	36 x 18	48 x 30
8 x 8	14 x 8	16 x 16	20 x 14	24 x 12	30 x 12	36 x 20	48 x 36
10 x 6	14 x 10	18 x 6	20 x 16	24 x 14	30 x 18	36 x 24	48 x 48
10 x 8	14 x 12	18 x 8	20 x 18	24 x 16	30 x 20	36 x 30	
10 x 10	14 x 14	18 x 10	20 x 20	24 x 18	30 x 24	36 x 36	
12 x 6	16 x 6	18 x 12	⊙ 22 x 10	24 x 20	30 x 30	⊙ 46 x 22	
12 x 8	16 x 8	18 x 14	⊙ 22 x 22	24 x 24	36 x 10	48 x 12	

MODEL SRHD-1 Stock Sizes

6 x 4	10 x 6	12 x 10	14 x 14	16 x 16	18 x 18	20 x 16	24 x 8
6 x 6	10 x 8	Δ 12 x 12	16 x 6	18 x 6	20 x 6	20 x 18	24 x 10
8 x 4	Δ 10 x 10	14 x 6	16 x 8	18 x 8	20 x 8	20 x 20	24 x 12
8 x 6	12 x 4	14 x 8	16 x 10	18 x 10	20 x 10	⊙ 22 x 10	24 x 16
Δ 8 x 8	12 x 6	14 x 10	16 x 12	18 x 12	20 x 12	⊙ 22 x 22	24 x 18
10 x 4	12 x 8	14 x 12	16 x 14	18 x 14	20 x 14	24 x 6	24 x 20

⊙ Border Type -6
Δ Available in Aluminum

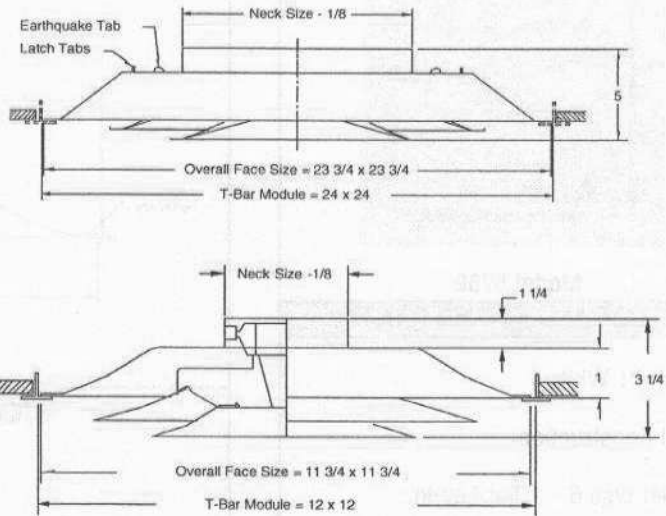


Models 5700 / 5700A

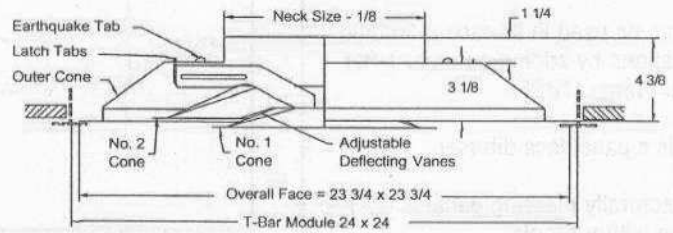
PRODUCT DETAILS

- ✪ Finish 01 White
- ✪ Steel Construction
- ✪ Border type 6 – T-bar Lay-in
- ✪ Lay-in border designed to be installed in standard 15/16" wide tees.
- ✪ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ✪ 5700 is a 2 cone diffuser.
- ✪ The 5700 can be converted in the field to a 3 cone diffuser with the addition of the optional Snap-58 accessory.
- ✪ Core is easy to remove without tools.
- ✪ The 5700 provides a tight horizontal 360 discharge pattern for superior induction and occupant comfort
- ✪ For Dampers and Plaster Frames see pages 13/14
- ✪ 5700A units allow adjustment from horizontal to vertical throw
- ✪ 5700A adjustment are made through the face of the unit without tools
- ✪ 5700A units can provide spot heating or cooling

MODEL 5700-6



MODEL 5700A-6

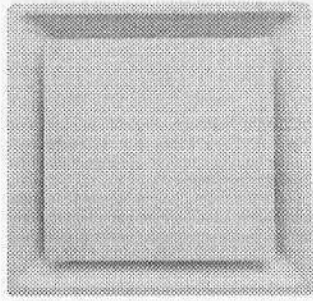


MODEL 5700 Stock Sizes

12 x 12 Lay-In Panel	6	8			
24 x 24 Lay-In Panel	6	8	10	12	14

MODEL 5700A Stock Sizes

24 x 24 Lay-In Panel		8	10	12	14
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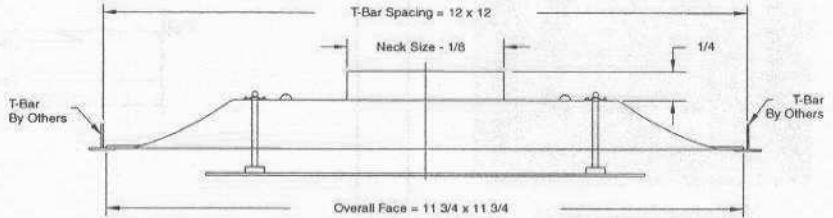


Model 5750

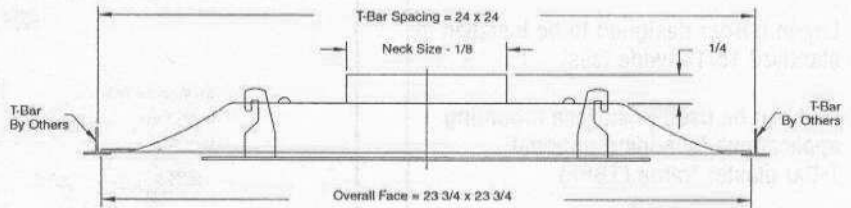
PRODUCT DETAILS

- ★ Finish 01 White
- ★ Steel Construction
- ★ Border type 6 – T-bar Lay-in
- ★ Lay-in border designed to be installed in standard 15/16" wide tees.
- ★ Unit can be used in surface mounting applications by adding optional T-Bar Plaster Frame (TBPf)
- ★ 5750 is a panel face diffuser.
- ★ Architecturally pleasing panel is easy to remove without tools.
- ★ The 5750 provides a 360 degree discharge pattern for superior induction and occupant comfort
- ★ The 5750 series's an excellent choice for VAV applications
- ★ For Dampers and Plaster Frames see pages 13/14
- ★ Blank Offs Available For 1, 2, or 3 Way Blow Patterns - for use in 24 x 24 Panel Only

MODEL 5750-6 (12 x 12 Module)

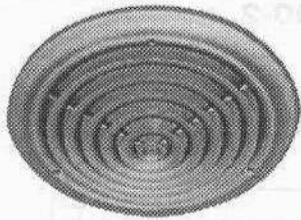


MODEL 5750-6 (24 x 24 Module)

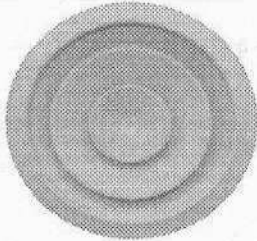


MODEL 5750 Stock Sizes

12 x 12 Lay-In Panel	6	8			
24 x 24 Lay-In Panel	6	8	10	12	14



Model 900



Model 3100

PRODUCT DETAILS

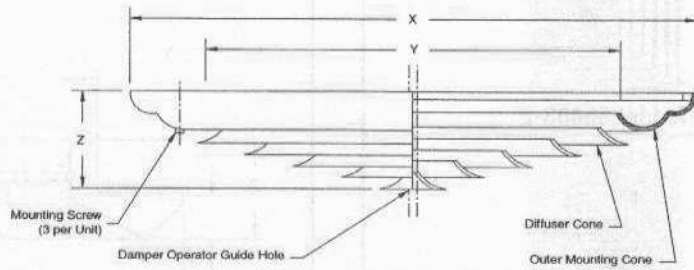
Model 900 / 900D

- ⊛ Finish 01 White
- ⊛ Steel Construction

Model 3100S-A2

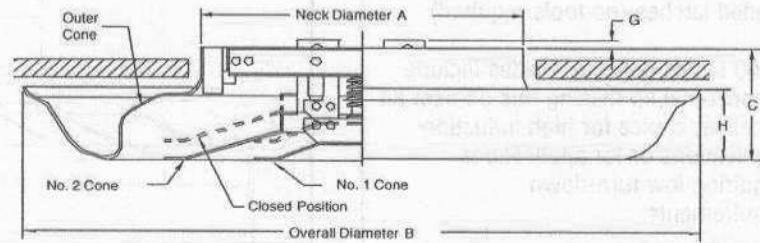
- ⊛ Finish 01 White
- ⊛ Border Type -2 Surface Mount
- ⊛ Steel Construction
- ⊛ High induction/capacity 2 cone diffuser
- ⊛ Can be adjusted for vertical or horizontal discharge
- ⊛ For Dampers see pages 13

MODEL 900 / 900D



Diffuser Size	X	Y	Z	Number of Cones	Damper Size	A
6	10 1/8"	5 7/8"	1 7/8"	4	6	3"
8	12 1/8"	7 7/8"	2 3/16"	5	8	4"
10	14 1/8"	9 7/8"	2 1/2"	6	10	5"
12	16 1/8"	11 7/8"	2 13/16"	7	12	6"
14	18 1/8"	13 7/8"	3 1/8"	8	14	6 1/4"

MODEL 3100S-A2



Model 900 / 900D

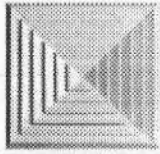
6, 8, 10, 12, 14

Model 3100S-A2 Stock Sizes

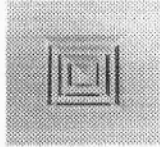
6, 8, 10, 12, 14, 16

Model 3100S-A2 Dimensions

Duct Size	A	B	C	G	H
6		16 5/8"	2 15/16"	3/4"	1 7/8"
8		16 5/8"	2 15/16"	3/4"	1 7/8"
10	9 3/4"	22 3/16"	3 5/16"	3/4"	2 1/2"
12		22 3/16"	3 5/16"	3/4"	2 1/2"
14		29 1/4"	4 3/16"	1 9/16"	3 1/2"
16		29 1/4"	4 3/16"	1 9/16"	3 3/8"



Model 5500S-2



Model 5500S-6 (Round Neck)

PRODUCT DETAILS

- ✦ Finish 01 White
- ✦ Steel Construction
- ✦ Cores are easy to remove with spring loaded latches (no tools required)
- ✦ 5500 series deflector blades include a horizontal lip making this diffuser an excellent choice for high induction applications or for applications requiring low turn-down requirements.

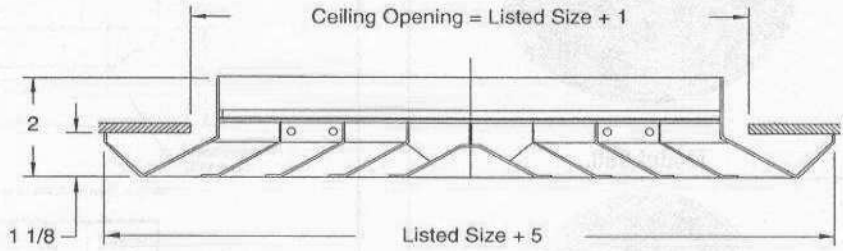
Model 5500S-2

- ✦ Border type 2 – Beveled
- ✦ Beveled border reduces ceiling smudging and offers an architectural pleasing appearance
- ✦ Face Operated Dampers are available

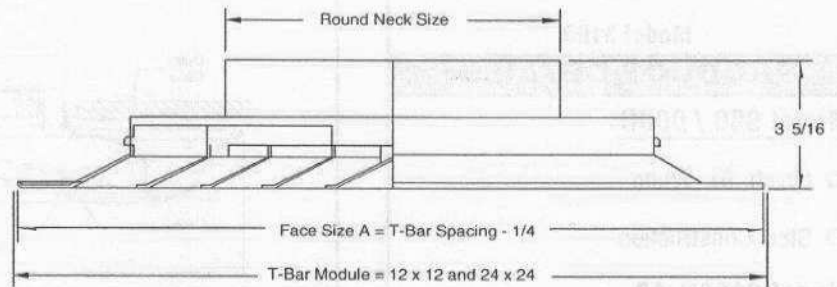
Model 5500S-6 (Round Neck)

- ✦ Border type 6 – T-bar Lay-in border designed to be installed in standard 15/16" wide tees.
- ✦ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ✦ The 5500 series is an excellent choice for VAV applications

MODEL 5500-2



MODEL 5500S-6 (Round Neck)



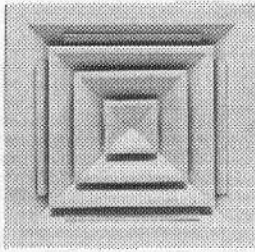
MODEL 5500S-2 Stock Sizes

1-Way	Surface Mounted	6 x 6	9 x 9	12 x 12			
2-Way Corner	Surface Mounted	6 x 6	9 x 9	12 x 12			
2-Way Opposite	Surface Mounted	6 x 6	9 x 9	12 x 12			
3-Way	Surface Mounted	6 x 6	9 x 9	12 x 12	15 x 15		
4-Way	Surface Mounted	6 x 6	9 x 9	12 x 12	15 x 15	Δ18 x 18	

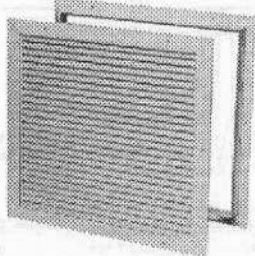
Model 5500S-6 (Round Neck) Stock Sizes

2-Way Corner	24 x 24 Lay-In	6	8	10			
2-Way Opposite	24 x 24 Lay-In	6	8	10			
3-Way	24 x 24 Lay-In	6	8	10	12	14	16
4-Way	12 x 12 Lay-In	8					
	24 x 24 Lay-In	6	8	10	12	14	16

Δ Available in Aluminum Border type -6 T-Bar Lay-in 24 x 24 Panel



Model 5500 APD



Model DGDF

PRODUCT DETAILS

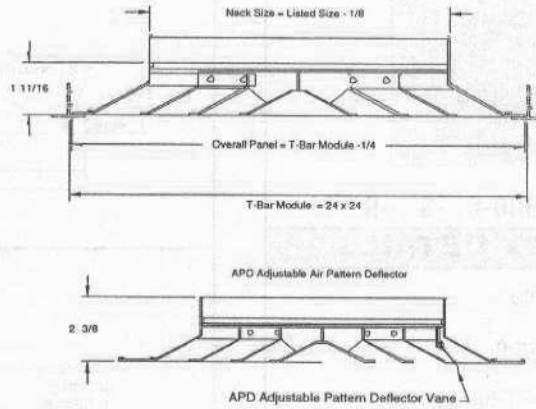
Model 5500 APD

- ✦ Finish 01 White
- ✦ Aluminum Construction
- ✦ Border type 6 – T-Bar Lay-In
24 x 24 Panel
- ✦ Available Square to Round Transitions
- ✦ Face Operated Dampers are available

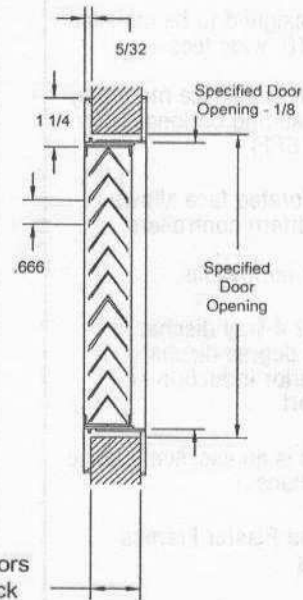
Model DGDF - Door Grille

- ✦ Finish 02 Aluminum Painted
- ✦ Aluminum Construction
- ✦ Border type 1 – Surface Mount

MODEL 5500 APD-6



MODEL DGDF



MODEL 5500 APD-6 Stock Sizes

18 x 18

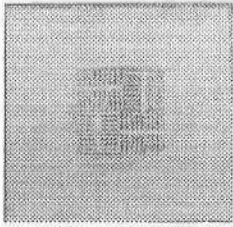
MODEL DGDF Stock Sizes

12 x 6

12 x 12

18 x 12

18 x 18

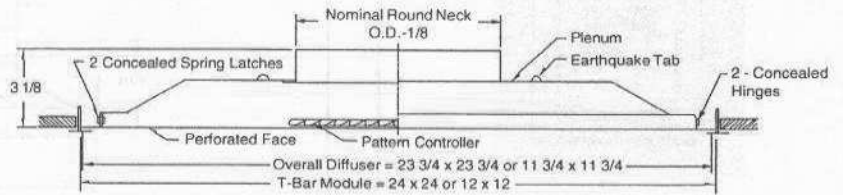


Model 7500-6, -8, -9

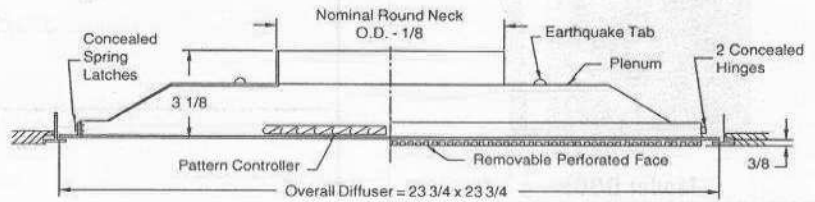
PRODUCT DETAILS

- ★ Finish 01 White
- ★ Steel Construction
- ★ Border type 6 – T-bar Lay-in
Border type 8 – Drop Face
Border type 9 – Narrow Tee
- ★ Lay-in border designed to be installed in standard 15/16" wide tees.
- ★ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ★ The hinged perforated face allows access to the pattern controllers.
- ★ The face is fully removable.
- ★ The 7500 set for 4-way discharge produces a 360 degree discharge pattern for superior induction and occupant comfort
- ★ The 7500 series is an excellent choice for VAV applications
- ★ For Dampers and Plaster Frames see pages 13/14

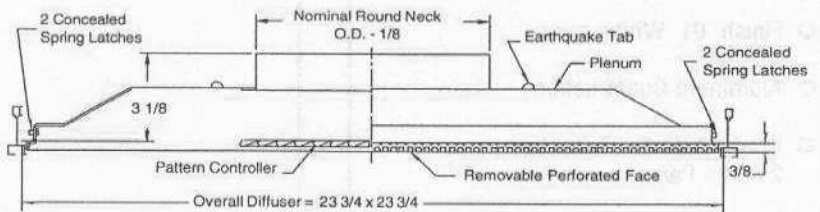
MODEL 7500-6



MODEL 7500-8



MODEL 7500-9



MODEL 7500-6 Stock Sizes

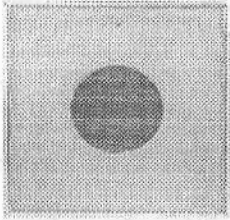
24 x 24 Lay-In Panel
6, 8, 10, 12, 14, 16
12 x 12 Lay-In Panel
6

MODEL 7500-8 Stock Sizes

24 x 24 Lay-In Panel
6, 8, 10, 12

MODEL 7500-9 Stock Sizes

24 x 24 Lay-In Panel
6, 8, 10, 12, 14

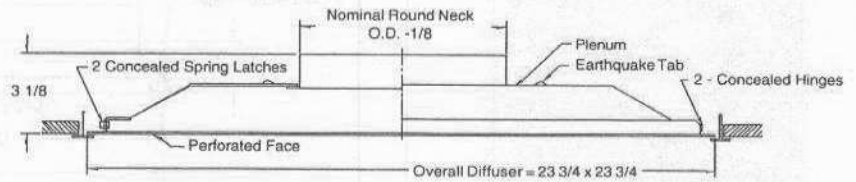


Model 7500R-6, -8, -9

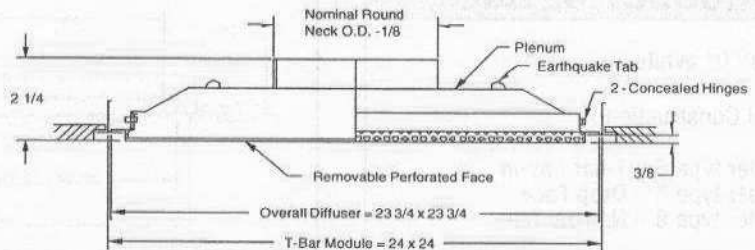
PRODUCT DETAILS

- ✪ Finish 01 White
- ✪ Steel Construction
- ✪ Border type 6 – T-bar Lay-in
Border type 8 – Drop Face
Border type 9 – Narrow Tee
- ✪ Lay-in border designed to be installed in standard 15/16" wide tees.
- ✪ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ✪ The hinged perforated face allows access to the pattern controllers.
- ✪ The face is fully removable.
- ✪ The 7500 series is an excellent choice for VAV applications
- ✪ For Dampers and Plaster Frames see pages 13/14

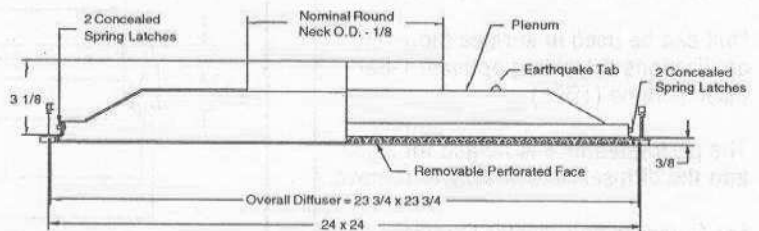
MODEL 7500R-6



MODEL 7500R-8



MODEL 7500R-9



MODEL 7500R-6 Stock Sizes

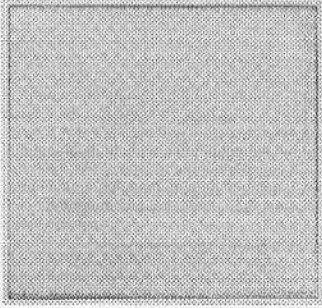
24 x 24 Lay-In Panel
6, 8, 10, 12, 14, 16, 18
12 x 12 Lay-In Panel
6

MODEL 7500R-8 Stock Sizes

24 x 24 Lay-In Panel
8, 10, 12, 14, 16

MODEL 7500R-9 Stock Sizes

24 x 24 Lay-In Panel
8, 10

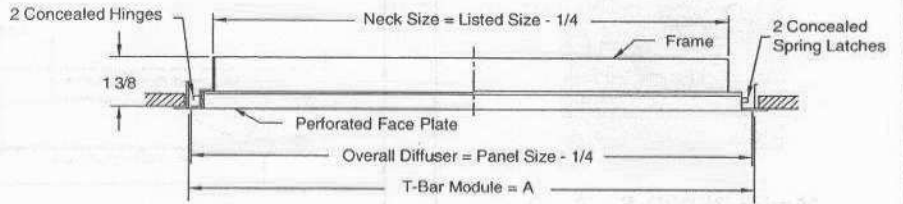


Model 7550R

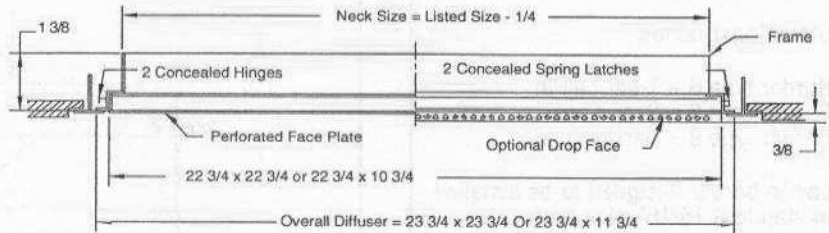
PRODUCT DETAILS

- ⊛ Finish 01 White
- ⊛ Steel Construction
- ⊛ Border type 6 – T-bar Lay-in
Border type 8 – Drop Face
Border type 9 – Narrow Tee
- ⊛ Type 6 Lay-in border designed to be installed in standard 15/16" wide tees.
- ⊛ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ⊛ The perforated face is hinged for access into the diffuser and is easy to remove.
- ⊛ For Dampers and Plaster Frames see pages 13/14

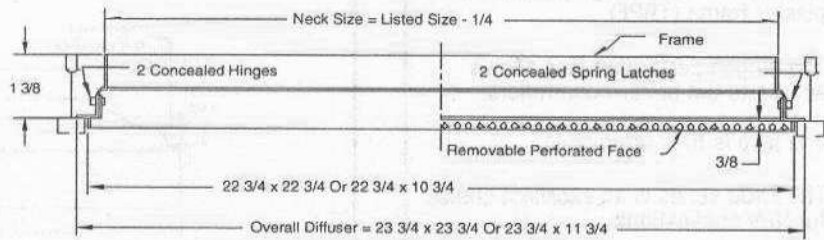
MODEL 7550R-6



MODEL 7550R-8



MODEL 7550R-9



MODEL 7550R-6 Stock Sizes

Neck Size	A = Panel Size
10 x 10	12 x 12
22 x 22	24 x 24
22 x 10	24 x 12
46 x 22	48 x 24

MODEL 7550R-8 Stock Sizes

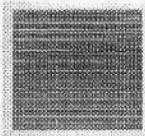
22 x 22 Neck - 24 x 24 Panel

MODEL 7550R-9 Stock Sizes

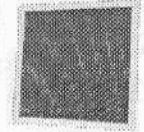
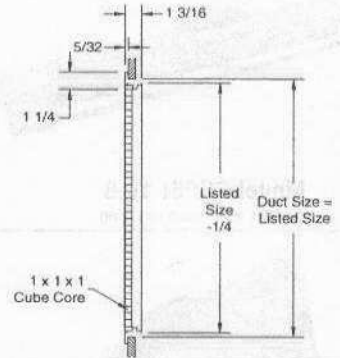
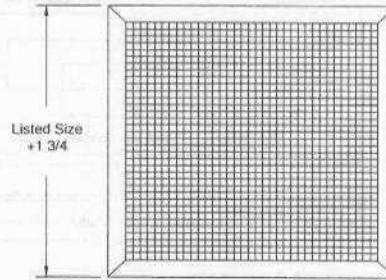
22 x 10 Neck - 24 x 12 Panel

22 x 22 Neck - 24 x 24 Panel

MODEL CC1-6

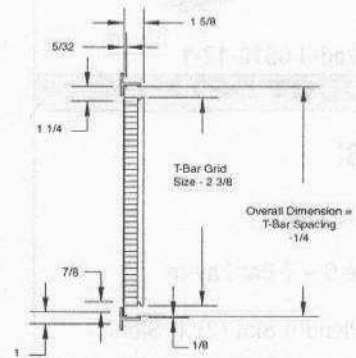
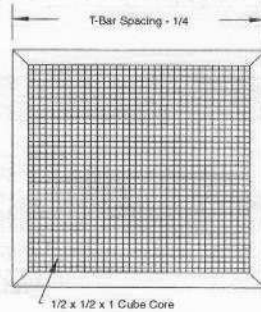


Model CC1-6



Model CC5-6

MODEL CC5-6



PRODUCT DETAILS

- ✦ Finish 01 White
- ✦ Aluminum Construction

Model CC1-6

- ✦ Border type 6 – T-Bar Lay-In
- ✦ The CC1 has a 1x1x1 cubed core face for minimum pressure drop.

Model CC5-6

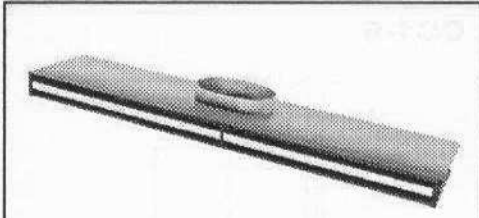
- ✦ Border type 6 – T-bar Lay-in
- ✦ Lay-in border designed to be installed in standard 15/16" wide tees.
- ✦ Unit can be used in surface mounting applications by adding optional T-Bar plaster frame (TBPF)
- ✦ The CC5 has a 1/2x1/2x1/2 cubed core face for minimum pressure drop

MODEL CC1 / CC5

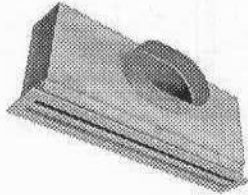
22 x 10

22 x 22

46 x 22



Model PHPSI-10-6
*Shown with cross notching



Model 6610-12-1

PRODUCT DETAILS

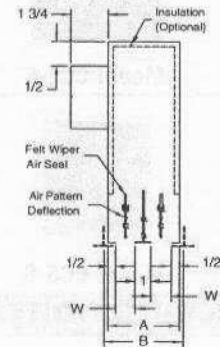
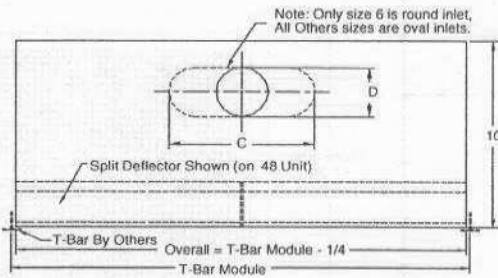
Model PHPSI

- ⊛ Steel Construction
- ⊛ Border type 6 – T-Bar Lay-In
- ⊛ Insulated Plenum Slot (2) 1" Slots
- ⊛ Cross Notches Available - 48" Long Only

Model 6610-12-1

- ⊛ Finish White Face with Black pattern controllers on supply diffusers
- ⊛ Extruded Aluminum Construction
- ⊛ Available with (2) 1" Slots
- ⊛ Pattern controllers on supply units are adjustable from the face of the diffuser and can be set to adjust volume or throw direction from vertical to horizontal.
- ⊛ Insulated Plenum available - Model BPI

MODEL PHPSI-10-6



Inlet Size	C	D
6 Round	-	5 7/8
8 Oval	8 15/16	6
10 Oval	12 1/16	6
12 Oval	15 1/4	6

MODELS Supply	L	W	1 Slot		2 Slots	
			A	B	A	B
PHPSI-10-6	24, 36, 48, 60	3	2	2 1/4	4	4 1/4

Dimensions are in inches

MODEL PHPSI-10-6

White Center Tee

24 x 2 slot x 2" Slot

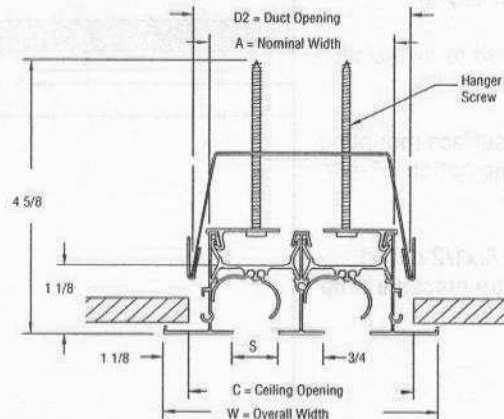
*48 x 2 slot x 2" Slot

6 and 8 Inch Oval Inlet

8 and 10 Inch Oval Inlet

* Also available with center notch

MODEL 6610-12-1

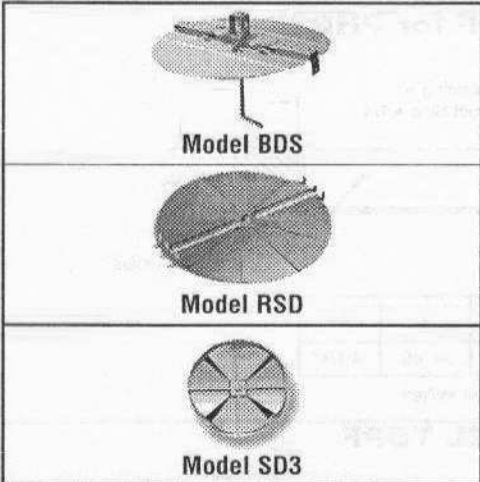


MODEL 6610-12-1 Stock Sizes

4' Long, 6' Long

MODEL BPI-12-1 Stock Sizes

4' Long - 8 or 10 Inches Oval Inlet



Model BDS

Model RSD

Model SD3

PRODUCT DETAILS

Model BDS

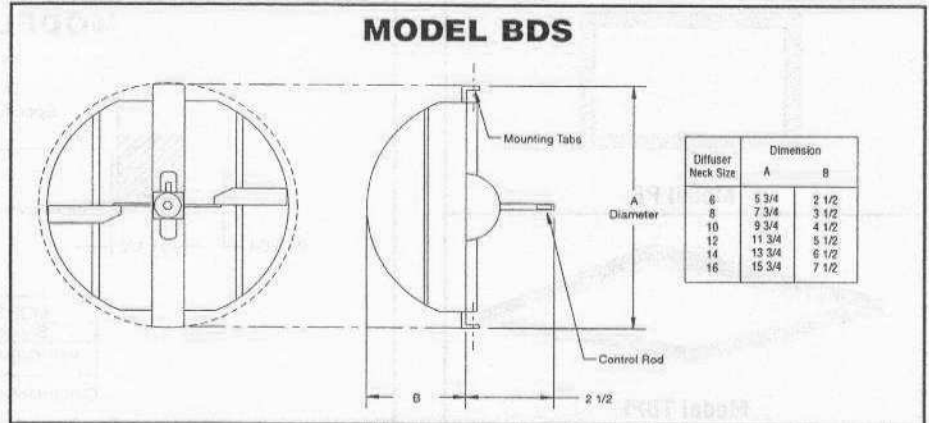
- ✦ Finish Mill 24 / Steel Construction
- ✦ Available in sizes only as listed
- ✦ All are shipped unattached
- ✦ Handle shipped separately

Model RSD

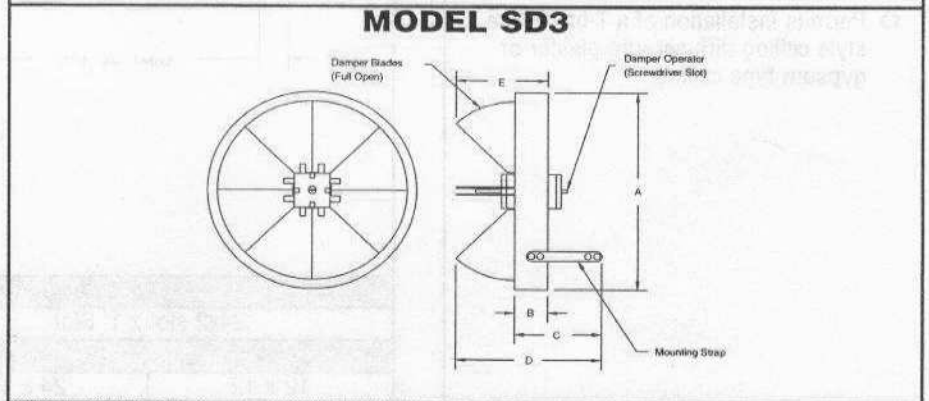
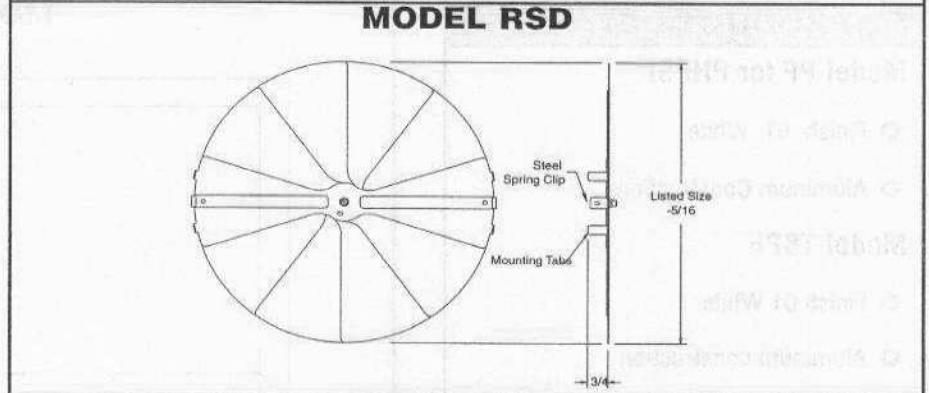
- ✦ Finish 24 Mill
- ✦ Galvanized steel construction for maximum strength, corrosion resistance and dimensional stability
- ✦ Design permits very precise damper control and does not interfere with diffuser air patterns

Model SD3

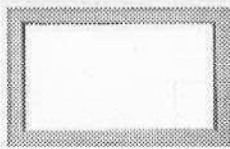
- ✦ Finish 01 White / Steel construction
- ✦ Provides full radial volume control resulting in lower than normal pressure losses
- ✦ Provide durable, jam-free operation
- ✦ Overlapping blade design insures positive shut-off when required



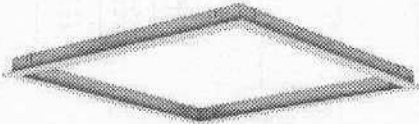
Diffuser Neck Size	Dimension	
	A	B
6	5 3/4	2 1/2
8	7 3/4	3 1/2
10	9 3/4	4 1/2
12	11 3/4	5 1/2
14	13 3/4	6 1/2
16	15 3/4	7 1/2



MODEL BDS
6, 8, 10, 12
MODEL RSD
6, 8, 10, 12
MODEL SD3
14, 16



Model PF



Model TBPf

PRODUCT DETAILS

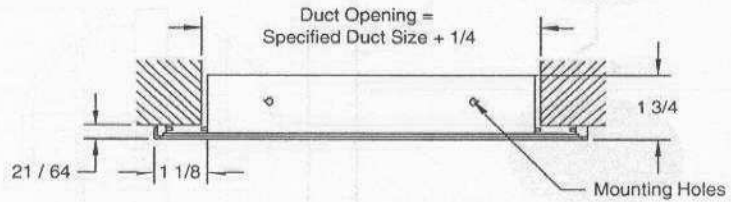
Model PF for PHPSI

- ★ Finish 01 White
- ★ Aluminum Construction

Model TBPf

- ★ Finish 01 White
- ★ Aluminum construction
- ★ Permits installation of a T-bar frame style ceiling diffuser into plaster or gypsum type ceiling

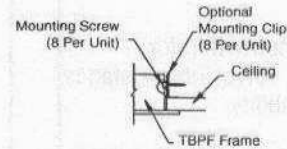
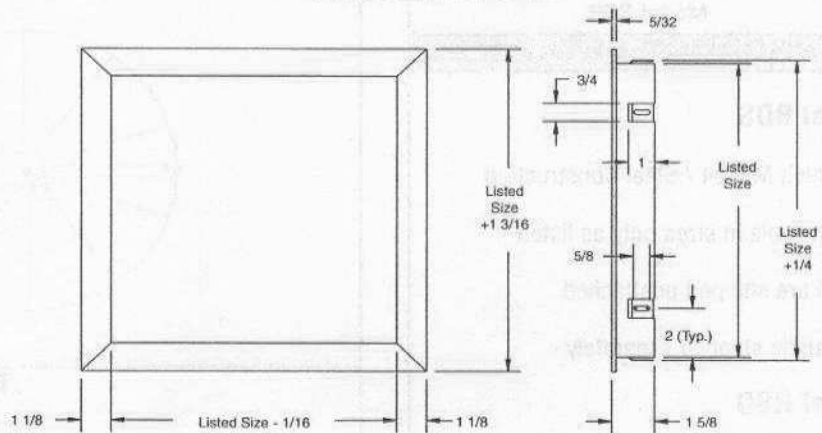
MODEL PF for PHPSI



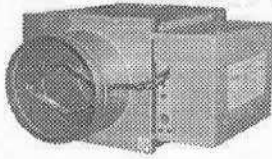
MODEL Supply	L	W
PHPS(I)-10-6	24, 48,	4 1/4"

Dimensions are in inches

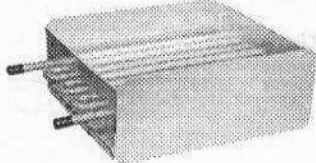
MODEL TBPf



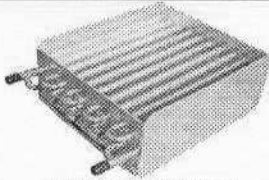
MODEL PF			
24x2 slot x 1" Slot		48x2 slot x 1" Slot	
MODEL TBPf			
12 x 12	24 x 12	24 x 24	48 x 24



Model TH-500



1 Row Hot Water



2 Row Hot Water

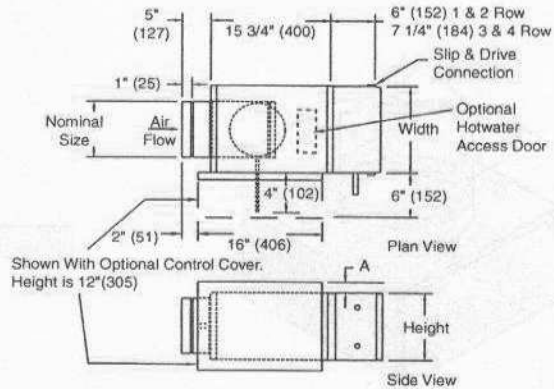
PRODUCT DETAILS

- ✪ 1/2" Dual Density Fiberglass liner-meets UL-181 and NFPA90 requirements
- ✪ 20 Gauge valve with 22 Gauge Casing
- ✪ ARI Listed
- ✪ Slip & Drive Connection
Acetal Resin Bearings
Control Enclosure - Dust Tight
- ✪ Square shaft with arrow embossment
- ✪ Fixed inlet sensor w/balancing tips
- ✪ 1 / 2 Row Hot Water Coils Available

1 / 2 Row Hot Water Coil

- ✪ The hot water coil is constructed of aluminum fin and copper serpentine type tubes with sweat connection tested at 300 psig
- ✪ Hot water housing must be externally insulated after installation in the field

MODEL TH-500



Model Number	Nominal Size In. (mm)	Height In. (mm)	Width In. (mm)	Dim "A" In. (mm)	Weight* with 1R HW Coil	1R HW Inlet Tube Diameter	Weight* with 2R HW Coil	2R HW Inlet Tube Diameter
506TH	6" Dia. (152)	8" (203)	12" (305)	2" (51)	16.7 (7.6)	5/8" (15.9)	17.7 (8)	7/8"(22)
508TH	8" Dia. (203)	10" (254)	12" (305)	1" (25)	20 (9.1)	5/8" (15.9)	21.6 (9.8)	7/8"(22)
510TH	10" Dia. (254)	12 1/2" (318)	14" (356)	-	24.3 (11)	5/8" (15.9)	26.6 (12)	7/8"(22)
512TH	12" Dia. (305)	15" (381)	16" (406)	-	31 (14.1)	7/8" (22)	34.3 (15.6)	7/8"(22)
514TH	14" Dia. (356)	17 1/2" (445)	20" (508)	-	34.1 (15.5)	5/8" (15.9)	36.9 (17.6)	7/8"(22)
516TH	16" Dia. (406)	18" (457)	24" (610)	-	42.3 (19.2)	5/8" (15.9)	46 (21.8)	7/8"(22)

*Dry weight

MODEL TH-500 Stock Sizes

6, 8, 10, 12, 14, 16

Available Controls

- *Bare Box - Set up for Field Mounting Controls - Control By Others (Option 105)
- *Pressure Independent Analog Electronic Control With Wall Thermostat
 - Cooling Only (Option 160N)
 - Cooling Only with on/off Heat (Option 161N)
 - Cooling / Heating with Automatic changeover (Option 165N)
- (NOTE: 24 volt, 40va Transformer By Others)
- *Multi-Function Pneumatic Reset Velocity Controller (Option 115N)
 - Direct Acting - Normally Open (DA - NO)*
 - Direct Acting - Normally Closed (DA - NC)*
 - Reverse Acting - Normally Open (RA - NO)*
 - Reverse Acting - Normally Closed (RA - NC)*

(NOTE: 2 Pipe Reverse Acting & Direct Acting Wall Thermostats are available)

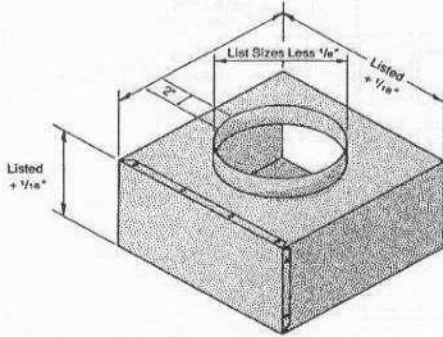
- * Stock Setting
- * Field Settable

1 and 2 Hot Water Coil Stock Sizes

6, 8, 10, 12, 14 ✓, 16 ✓

✓ 2 Row Only

AIR-TRAC[®]

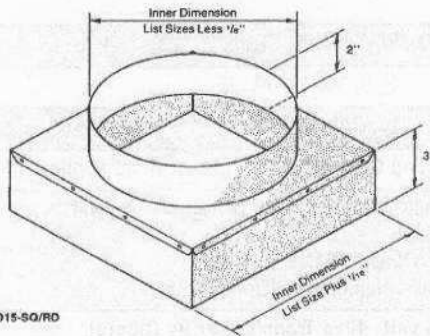


022-SIT

• Side-Inlet Transition

06 - 22 x 4

08 - 22 x 6

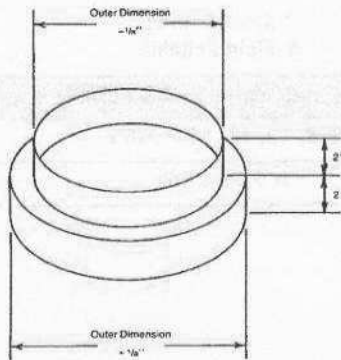


015-SQ/RD

• Square To Round Adapters

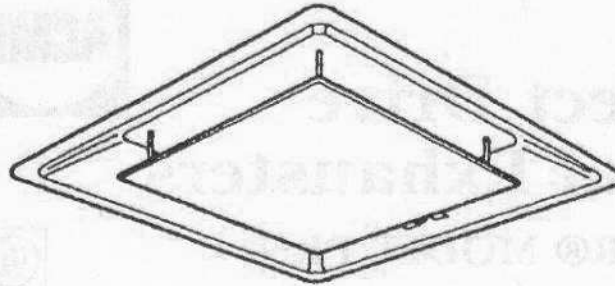
06 - 6 x 6
06 - 8 x 8
06 - 10 x 10
06 - 22 x 4
06 - 22 x 10
06 - 22 x 22
08 - 8 x 8
08 - 9 x 9
08 - 10 x 10
08 - 12 x 12
08 - 22 x 6
08 - 22 x 10
08 - 22 x 22
10 - 10 x 10
10 - 12 x 12
10 - 22 x 10

10 - 22 x 22
12 - 12 x 12
12 - 22 x 22
14 - 14 x 14
14 - 15 x 15
14 - 18 x 18
14 - 22 x 22
16 - 18 x 18
16 - 20 x 20
16 - 21 X 21
16 - 22 x 22
18 - 18 x 18
18 - 20 x 20
18 - 22 x 22
20 - 22 x 22



• Round To Round Adapters

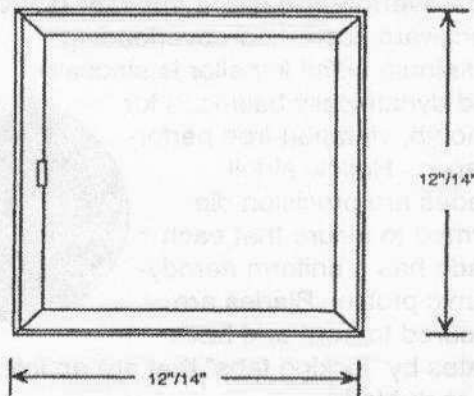
6-8	8-10	10-12
12-14	16-18	



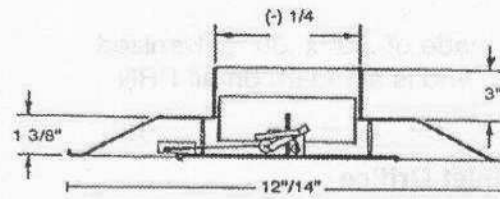
VFS24 Series Vari-Flow

24" x 24" Square Ceiling Diffuser

Dimensions



Face View



Side View

Model

- VFS-24H-VAV cooling, constant volume heat

Neck Sizes

- 8" 12"
- 10" 14"

FEATURES:

Construction: 24 ga. electro galvanized steel

Controls: Self-Contained-Thermally Actuated



SYMBOL
OF QUALITY

Acme Direct Drive Centrifugal Exhausters

CENTRIMASTER® MODEL PRN

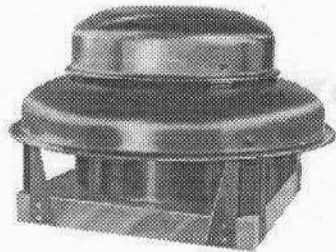


U.L. 705 Listed



CSA Certified

Consult your Acme representative for availability.



Model PRN direct drive fans are centrifugal power roof ventilators designed for exhausting clean air. Capacities up to 2770 CFM and up to 1 inch static pressure. The PRN is a downblast exhauster suitable for all types of commercial and institutional buildings such as schools, hospitals, office buildings, and retail stores.



Acme Engineering and Manufacturing Corporation certifies that the CENTRIMASTER® Exhauster shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

CONSTRUCTION FEATURES

Heavy Gauge Aluminum Hoods

Die-formed for uniformity, with a rolled bead for improved strength. Easily removed for access to motor compartment.

Birdscreen

Birdscreen is made of .50" x .50" galvanized hardware cloth and is standard on all PRN models.

Die-Formed Inlet Orifice

Inlet orifices are die-formed to insure that the inlet's aerodynamic profile is maintained. The curbcap and inlet orifice are constructed of one piece, with continuous welded corners to assure weather tightness.

Polarized Disconnect Plug

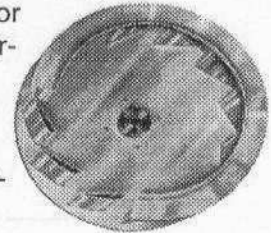
All motors, except explosion resistant, are factory wired with polarized plug and socket. Positive locking prevents accidental disconnect and subsequent loss of circuit continuity.

Vibration Isolators

Impeller, motor and drive assembly completely supported and cushioned by multi-directional neoprene vibration isolators.

Non-overloading airfoil Impeller (PRN100-171)

Backward curved non-overloading aluminum airfoil impeller is statically and dynamically balanced for smooth, vibration free performance. Hollow airfoil blades are precision die-formed to insure that each blade has a uniform aerodynamic profile. Blades are secured to front and back plates by "locking tabs" that are an integral part of each blade.



Forward Curve Impeller (PRN80 Only)

Forward curved aluminum impeller is statically and dynamically balanced for smooth, vibration-free performance. Blades are precision die formed to insure that each blade has a uniform aerodynamic profile. Blades are secured to front and back plates by "locking tabs" that are an integral part of each blade. Available in 1", 1 3/4", 2 1/2" impeller widths.



SYMBOL
OF QUALITY

Acme Direct Drive Centrifugal Exhausters

CENTRIMASTER® MODEL PRN

PERFORMANCE DATA

Fan Model No.	RPM	HP	Tip Spd.	.000		.125		.250		.375		.500		.750		1.000	Max BHP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	
PRN80-2	1550	1/10	3019	295	11.0	255	8.2	200	8.2									.106
PRN80-3	1550	1/10	3019	382	13.0	328	9.0	248	9.0									.170
PRN100	1550	1/10	4058	770	6.8	690	6.2	610	5.8	520	5.3	380	5.3					.067
PRN100	1300	1/10	3403	650	5.3	550	4.6	450	4.0	280	4.0							.067
PRN100	1050	1/10	2749	520	3.8	410	6.0	210	3.0									.067
PRN100	860	1/10	2251	430	2.6	270	1.8											.067
PRN110	1550	1/10	4464	1090	8.7	990	8.2	890	7.6	780	8.5	650	8.0	210	8.0			.100
PRN110	1300	1/10	3744	910	6.9	790	6.2	670	6.5	510	6.1	270	6.1					.100
PRN110	1050	1/10	3024	740	5.1	590	4.2	400	4.4									.100
PRN110	860	1/10	2477	600	3.7	420	2.7											.100
PRN118E	1725	1/4	5229	1582	12.1	1489	11.9	1397	9.9	1305	9.8	1195	10.2	932	9.3	578	8.3	.182
PRN118E	1300	1/4	4016	1192	7.0	1069	6.6	942	6.1	780	6.0	571	6.0					.182
PRN118E	1100	1/4	3398	1009	4.8	864	4.6	691	4.1	442	4.0							.182
PRN118E	860	1/4	2657	789	3.1	594	3.0	284	2.4									.182
PRN126E	1625	1/4	5361	1760	13.0	1670	13.0	1560	12.0	1450	12.0	1320	12.0	1040	12.0	680	12.0	.253
PRN126E	1300	1/4	4289	1410	10.0	1290	9.3	1150	9.0	980	9.0	800	8.5	270	8.5			.253
PRN126E	1050	1/4	3464	1140	7.3	980	6.5	790	6.6	540	6.4	150	6.4					.253
PRN145G	1625	1/2	6168	2540	14.9	2420	15.2	2300	14.5	2180	14.6	2060	14.3	1780	13.9	1440	14.2	.453
PRN145G	1300	1/2	4594	2030	10.8	1880	10.8	1730	10.7	1580	10.1	1400	10.7	920	10.1			.453
PRN145G	1050	1/2	3986	1640	8.2	1460	7.8	1270	7.6	1030	7.4	710	7.2					.453

Performances shown are for Installation Type A: Free Inlet, Free Outlet.

Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sonos at 5 ft (1.524 m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A: Free Inlet fan sone levels.

Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use solid state controller (SSC).

Speed (RPM) shown is nominal for PRN80-1, PRN80-2, and PRN80-3 only. Performance is based on actual speed of test.

The brake horsepower capability of an exhauster motor is dependent on the degree of cooling the motor receives from the air moving through the motor.

The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



AMCA
CERTIFIED
RATINGS



ROUND
88



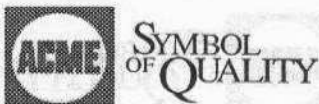
UL U.L. 705 Listed



CSA Certified

Acme Engineering and Manufacturing Corporation certifies that the CENTRIMASTER® Exhauster shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

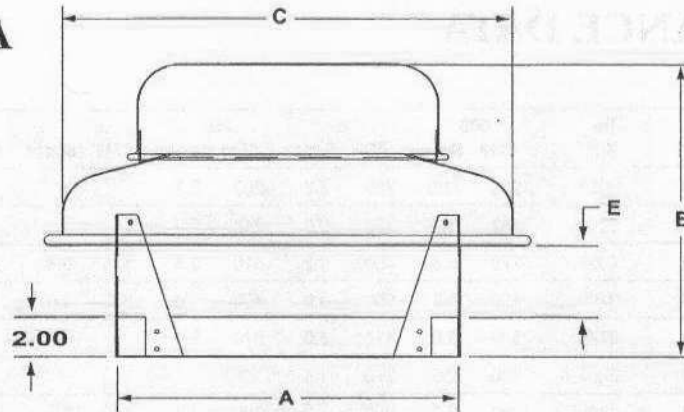
Consult your Acme representative for availability.



Acme Direct Drive Centrifugal Exhausters

CENTRIMASTER® MODEL PRN

DIMENSIONAL DATA



DIMENSIONS

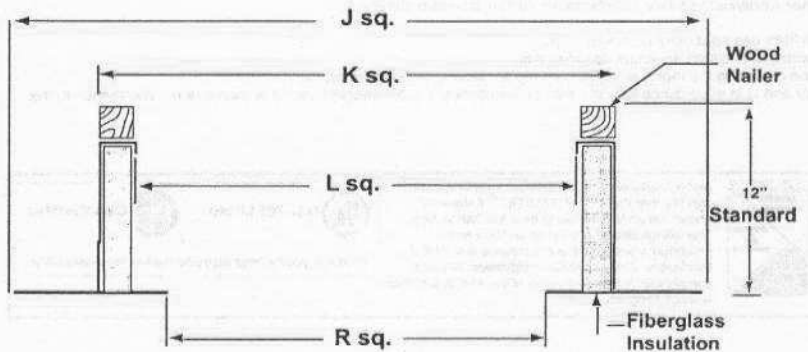
Model No.	A	B	C	E	Roof Opening*	Damper Model	Curb Model	SSC	Duct Size	Est. Ship Wt.	Est. Unit Wt.
PRN080	13.50	9.00	18.25	-	9 x 9	AR8.75	12	3 AMP	8.00	24	22
PRN100	16.00	13.25	21.12	3.81	11.5 x 11.5	AR11	14.5	3 AMP	10.00	25	23
PRN110	16.00	13.25	21.12	3.81	11.5 x 11.5	AR11	14.5	3 AMP	10.00	26	24
PRN118	21.00	16.38	27.75	4.81	16.5 x 16.5	AR16	19.5	6 AMP	12.00	42	37
PRN126	21.00	16.38	27.75	4.81	16.5 x 16.5	AR16	19.5	6 AMP	12.00	44	38
PRN145	21.00	16.38	27.72	4.81	16.5 x 16.5	AR16	19.5	6 AMP	12.00	64	58

Dimensions are shown in inches.

Weights are shown in pounds.

*Recommended maximum.

CURB DIMENSIONS



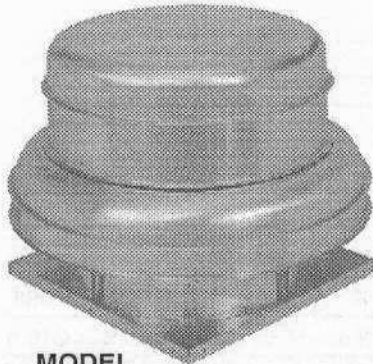
CURB DIMENSIONS

Model No.	J	K	L	R
12	20.00	12.00	9.00	8.00
14.5	22.50	14.50	11.50	10.00
19.5	27.50	19.50	16.50	13.50

Dimensions are shown in inches.

Acme Belt Drive Centrifugal Roof Exhausters

CENTRIMASTER® MODEL PV



MODEL
PV260 TO PV543



MODEL
PV075 TO PV240

Model PV centrifugal power roof ventilators are energy efficient, quiet and reliable fans designed to exhaust clean air from the building through the roof. The aerodynamical design of the air flow passage through the fan yields a signature flow passage characterized by the precise shapes of the venturi impeller inlet, deep formed impeller shroud, three dimensional shape of the impeller blades, and deep formed discharge hood. This unique design yields high energy efficiency of the fan, thus ensuring high air performance and low sound levels.



Acme Engineering & Manufacturing Corporation certifies that the Centri Master® Exhausters 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.

CONSTRUCTION FEATURES

Centrifugal Wheel

PV exhausters have non-overloading aluminum impellers with backward curved blades.

Aluminum Construction

Hoods, housing and base are constructed of heavy gauger aluminum.

Disconnect Switch

Factory installed disconnect switch is standard.

Birdscreen

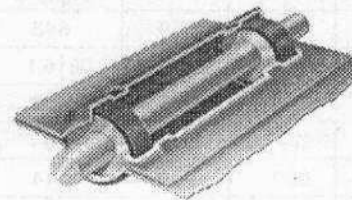
Heavy gauge galvanized birdscreen is standard.



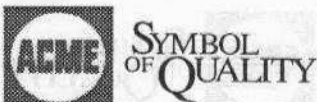
Acme Centri Master® fans are available with the U.L. listing mark; consult the Acme representative for availability.

Bearings

Permanently bearings are used in duplex split pillow block housing. The bearings remain in perfect alignment after shipment, installation, and subsequent operation. Bearings are resiliently mounted in neoprene rings, providing extra protection and vibration isolation. The bearing assembly is rated at an L-50 life of 200,000 hours and features Acme's 5 year limited warranty.

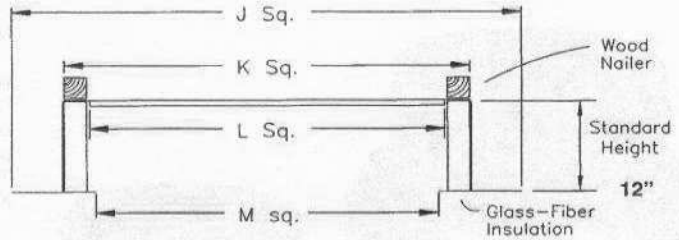
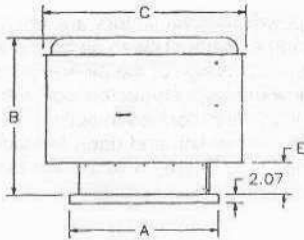


Most Acme Centri Master® fans are listed by the Canadian Standards Association Testing Laboratory as approved.



Acme Belt Drive Centrifugal Roof Exhausters

CENTRIMASTER® MODEL PV DIMENSIONAL DATA



DIMENSIONS (INCHES)

Model No.	A	B	C	E	ROOF OPENING
PV100	21.00	23.62	23.67	3.44	16.50 X 16.50
PV135	21.00	26.75	29.38	4.06	16.50 X 16.50
PV165	24.00	30.96	34.99	5.19	19.50 X 19.50
PV200	28.00	35.40	39.60	6.19	23.50 X 23.50
PV240	34.00	38.39	46.49	7.75	29.50 X 29.50

PREFABRICATED CURB TYPE RF AND SF (INCHES)

Model No.	OD (SQ)	J	K	L	M	DAMPER	CURB
PV100	16	27.5	19.5	16.5	13.5	AR16	C19.5
PV135	16	27.5	19.5	16.5	13.5	AR16	C19.5
PV165	18	30.5	22.5	19.5	16.5	AR18	C22.5
PV200	22	34.5	26.5	23.5	20.5	AR22	C26.5
PV240	28	40.5	32.5	29.5	26.5	AR28	C32.5

PV 100E3 1/4 HP 115V/1Ø Phase 1 SPEED ODP MOTOR PERFORMANCE DATA - CFM vs Static Pressure (in. wg.)

RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
977	736	629	472								
	0.03 4.3	0.04 4.1	0.04 3.9								
1039	783	683	556	315							
	0.04 4.9	0.04 4.5	0.05 4.4	0.04 4.1							
1228	925	843	752	622	416						
	0.06 6.5	0.07 6.1	0.07 6.0	0.07 5.7	0.07 5.5						
1247	940	858	769	648	450						
	0.06 6.9	0.07 6.5	0.06 6.1	0.08 6.1	0.07 5.9						
1360	1032	958	879	792	649	458					
	0.09 7.7	0.09 7.2	0.10 7.1	0.10 6.7	0.10 6.5	0.09 6.3					
1421	1071	999	924	844	722	551					
	0.10 8.1	0.10 7.6	0.11 7.3	0.11 7.2	0.12 6.7	0.11 6.7					
1468	1106	1037	965	888	785	631	443				
	0.11 8.4	0.11 8.1	0.12 7.7	0.12 7.6	0.13 7.4	0.12 7.1	0.11 7.1				



Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses. The sound ratings shown are loudness values shown are for: Installation Type A; Free Inlet fan Sone levels. The brake horsepower capability of an exhauster motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor

nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



Acme Belt Drive Centrifugal Roof Exhausters

CENTRIMASTER® MODEL PV



PV 135E3 1/4 HP 115V/1 Phase 1 SPEED ODP MOTOR		PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)									
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
887	1196	1032	849	517							
	0.05 4.8	0.05 4.9	0.06 4.7	0.06 4.5							
907	1223	1063	886	589							
	0.05 5.0	0.06 5.0	0.06 5.0	0.06 4.6							
1080	1456	1323	1185	1028	766	389					
	0.08 7.0	0.09 7.0	0.10 6.8	0.11 6.7	0.11 6.4	0.08 6.0					
1149	1549	1424	1295	1154	970	682					
	0.10 7.9	0.11 7.9	0.12 7.8	0.13 7.4	0.13 7.2	0.12 6.8					
1260	1699	1584	1468	1349	1211	1028	752				
	0.13 9.1	0.14 9.1	0.15 9.0	0.16 8.8	0.17 8.6	0.17 8.2	0.16 7.8				
1304	1758	1648	1535	1421	1291	1129	906	579			
	0.15 9.8	0.16 9.8	0.17 9.5	0.18 9.3	0.19 9.1	0.19 8.5	0.19 8.4	0.16 8.2			



PV 135F 1/3 HP 115V/1 Phase 1 SPEED ODP MOTOR		PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)									
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
1260	1699	1584	1468	1349	1211	1028	752				
	0.13 9.1	0.14 9.1	0.15 9.0	0.16 8.8	0.17 8.6	0.17 8.2	0.16 7.8				
1304	1758	1648	1535	1421	1291	1129	906	579			
	0.15 9.8	0.16 9.8	0.17 9.5	0.18 9.3	0.19 9.1	0.19 8.5	0.19 8.4	0.16 8.2			
1382	1863	1759	1654	1546	1430	1303	1130	888	564		
	0.17 10.9	0.19 10.9	0.20 10.3	0.21 10.2	0.22 9.9	0.22 9.6	0.22 9.3	0.22 8.8	0.19 8.6		
1489	2008	1911	1814	1714	1614	1499	1372	1212	991		
	0.22 12.3	0.23 12.3	0.24 11.7	0.25 11.8	0.26 11.1	0.27 10.8	0.28 10.5	0.28 10.2	0.27 9.7		
1633	2202	2113	2025	1935	1844	1752	1646	1536	1391	994	
	0.29 14.0	0.30 14.0	0.32 14.0	0.33 13.5	0.34 13.5	0.35 12.8	0.36 12.2	0.37 11.8	0.37 11.8	0.35 11.6	

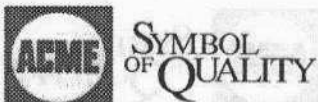


PV 165F 1/3 HP 115V/1 Phase 1 SPEED ODP MOTOR		PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)									
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
725	1915	1664	1364	887							
	0.09 5.3	0.10 5.2	0.10 5.1	0.10 4.8							
863	2280	2073	1851	1560	1170						
	0.14 7.5	0.16 7.5	0.17 6.8	0.17 6.7	0.17 6.6						
882	2330	2128	1911	1645	1265	791					
	0.15 7.8	0.17 7.6	0.18 7.4	0.19 7.0	0.18 6.7	0.16 6.5					
936	2473	2282	2080	1845	1527	1146					
	0.18 8.7	0.20 8.6	0.21 8.1	0.22 8.1	0.22 7.8	0.21 7.2					
998	2637	2458	2270	2063	1809	1473	1096				
	0.22 10.4	0.24 10.2	0.25 9.7	0.26 9.0	0.27 8.8	0.27 8.3	0.25 8.2				
1088	2871	2710	2541	2365	2156	1897	1588	1242			
	0.29 12.7	0.30 11.9	0.32 12.0	0.33 11.3	0.34 11.2	0.35 10.1	0.34 9.8	0.32 8.9			



Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses. The sound ratings shown are loudness values shown are for: Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



CENTRIMASTER® MODEL PV

PV 200F 1/3 HP 115V/1 Phase 1 SPEED ODP MOTOR			PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)								
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
459	2596	1993	961								
	0.10 5.1	0.10 5.0	0.08 4.6								
469	2653	2078	1093								
	0.10 5.5	0.11 5.0	0.09 4.7								
527	2981	2500	1714								
	0.14 6.7	0.16 6.1	0.14 5.5								
550	3111	2659	1934	1006							
	0.16 6.8	0.18 6.6	0.17 6.2	0.13 5.5							
594	3360	2958	2337	1559							
	0.21 7.8	0.22 7.5	0.22 7.0	0.19 6.2							
632	3575	3209	2671	1962	1117						
	0.25 8.8	0.26 8.1	0.27 7.6	0.25 6.8	0.19 6.8						
689	3898	3561	3139	2512	1834	979					
	0.32 10.0	0.34 9.2	0.35 8.8	0.34 8.1	0.30 7.7	0.22 7.3					



PV 200K 1/2 208/230/460/3 Phase 1 SPEED ODP MOTOR			PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)								
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
805	4554	4266	3947	3537	2988	2421	1804				
	0.51 12.8	0.53 11.8	0.55 11.2	0.56 10.2	0.54 10.2	0.50 9.8	0.45 9.0				
886	5012	4751	4489	4143	3710	3211	2695	2142	1469		
	0.69 15.9	0.71 14.5	0.73 13.4	0.74 12.9	0.74 11.9	0.71 11.3	0.67 10.8	0.61 9.8	0.50 9.7		
907	5131	4875	4620	4290	3891	3404	2910	2377	1768		
	0.74 16.2	0.76 14.7	0.78 14.4	0.79 13.3	0.79 12.7	0.77 12.1	0.73 11.2	0.68 10.7	0.59 10.0		
1006	5691	5461	5230	4970	4663	4282	3843	3402	2934	1863	
	1.00 19.1	1.03 17.8	1.05 16.8	1.07 16.2	1.09 15.0	1.08 14.4	1.06 13.8	1.02 12.5	0.97 12.4	0.78 12.0	
1140	6449	6246	6042	5839	5592	5322	5015	4628	4240	3440	2572
	1.46 24	1.49 22	1.51 21	1.54 19.7	1.56 18.8	1.58 17.8	1.58 17.2	1.56 15.7	1.53 15.8	1.42 15.6	1.27 15.8

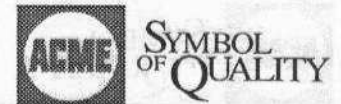


PV 240G 1/2 HP 115V/1 Phase 1 SPEED ODP MOTOR			PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)								
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
434	3679	3078	2118								
	0.12 4	0.15 4.9	0.15 4.9								
497	4213	3723	3037	1966							
	0.18 6.9	0.21 6.4	0.23 6.2	0.22 6.0							
526	4459	4010	3390	2496	961						
	0.22 7.6	0.24 7.0	0.27 7.0	0.27 6.6	0.18 6.7						
537	4553	4112	3521	2686	1387						
	0.23 7.9	0.26 7.3	0.29 7	0.29 6.9	0.22 7.1						
572	4849	4436	3912	3239	2233						
	0.28 8.9	0.31 8.4	0.34 7.9	0.36 7.7	0.33 7.8						
614	5205	4820	4356	3785	3000	1982					
	0.34 9.8	0.38 9.6	0.41 9.3	0.44 9.0	0.44 8.7	0.37 8.6					
663	5621	5264	4861	4376	3779	2934	1873				
	0.43 11.3	0.47 10.7	0.51 10.8	0.54 10.4	0.56 10.3	0.54 9.6	0.44 9.5				



Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses. The sound ratings shown are loudness values in fan Sones at 5 feet (1.524 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for: Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



Acme Belt Drive Centrifugal Roof Exhausters

CENTRIMASTER® MODEL PV

PV 240K 1 1/2 HP 200/230/460/3 PHASE 1 SPEED ODP MOTOR PERFORMANCE DATA – CFM vs Static Pressure (in. wg.)											
RPM	.000	.125	.250	.375	.500	.625	.750	.875	1.000	1.250	1.500
	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone
614	5205	4820	4356	3785	3000	1982					
	0.34 9.38	0.38 9.6	0.41 9.3	0.44 9.0	0.44 8.7	0.37 8.6					
663	5621	5264	4861	4376	3779	2934	1873				
	0.43 11.3	0.17 10.7	0.51 10.8	0.54 10.4	0.56 10.3	0.54 9.6	0.44 9.5				
729	6180	5856	5526	5094	4615	4035	3263	2396			
	0.57 13.7	0.61 13.3	0.66 12.4	0.70 12.2	0.73 12.2	0.74 11.7	0.72 11.6	0.63 10.5			
759	6435	6123	5811	5408	4975	4469	3791	3111	1947		
	0.65 15.0	0.69 14.4	0.73 14.0	0.78 13.5	0.82 13.5	0.84 12.1	0.83 12.6	0.78 11.2	0.63 11.6		
820	6952	6663	6375	6035	5651	5219	4751	4098	3371		
	0.82 17.2	0.86 16.9	0.91 15.5	0.95 15.0	1.00 15.3	1.04 14.2	1.06 14.5	1.05 12	1.00 13.5		
938	7952	7700	7448	7196	6879	6543	6193	5783	5351	4156	2661
	1.22 21	1.27 21	1.33 19.7	1.38 19.1	1.43 19.7	1.49 17.8	1.54 18.3	1.56 16.9	1.59 16.7	1.52 16.2	1.25 15.9



Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses. The sound ratings shown are loudness values shown are for: Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhauster motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

STANDARD CONSTRUCTION FEATURES

- Direct Drive Uplift Cross Exhauster
- Standard Construction Features
- Backward curved non-overlapping motor fan blades
- Two-piece motor cap - integral motor fan
- Heavy duty aluminum cabinet
- Cast iron motor base
- Fastener application
- Two-piece motor cap

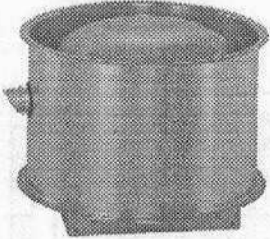
STANDARD CONSTRUCTION FEATURES

- Direct Drive Uplift Cross Exhauster
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Direct & Belt Drive Centrifugal Roof & Wall Exhausters

CENTRIMASTER® MODELS PDU & PNU

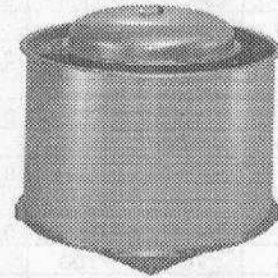


MODEL PDU DIRECT DRIVE EXHAUSTER

Model PDU is a direct drive centrifugal upblast exhauster designed for discharging exhaust air high above the roof surface. The PDU is available in two models; the PDU-RF for clean air exhaust applications and the PDU-RG for grease laden exhaust applications. PDU exhausters are available in nine (9) sizes ranging in capacities from 253 to 5317 CFM and up to 1 1/4 inches static pressure. Wall adapter kit is available to mount PDU for wall application.

MODEL PNU BELT DRIVE EXHAUSTER

Model PNU is a belt drive centrifugal upblast exhauster designed for discharging exhaust air high above the roof surface. The PNU is available in two models: the PNU-RF for clean air exhaust applications and the PNU-RG for grease laden exhaust applications. High pressure models PNUH and PNUXP are available for applications with static pressures up to 4" and 5" respectively. PNU exhausters are available in thirteen (13) sizes ranging in capacities from 74 to 33,374 CFM. Wall adapter kit is available to mount PNU for wall applications.



Acme Engineering & Manufacturing Corp. certifies that models PDU and PNU exhausters 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.



Models PDU-RG and PNU-RG are Listed 21G9 UL762.

CONSTRUCTION FEATURES

PDURG

• Direct Drive Upblast Grease Exhauster

Standard Construction Features:

- Backward inclined non-overloading aluminum wheel
- Disconnect switch
- Galvanized curb cap • Integral drain hole
- Heavy gauge aluminum housing
- Quick release hood latches
- Restaurant applications
- Two-year limited warranty

PNURG

• Belt Drive Upblast Grease Exhauster

Standard Construction Features:

- Vibration isolation
- Backward inclined non-overloading aluminum wheel
- Disconnect switch
- Galvanized curb cap • Integral drain hole
- Heavy gauge aluminum housing
- Pre-lubricated bearings in duplex split pillow block housing rated at 200,000 hours - 5-year limited warranty
- Quick release hood latches
- Restaurant applications
- Two-year limited warranty
- W/Variable pitch drives designed for 1.5 Service Factor

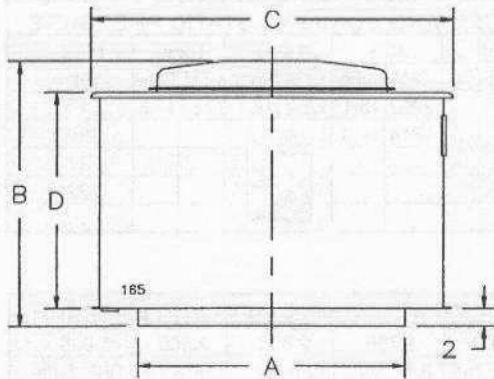


SYMBOL
OF QUALITY

Direct & Belt Drive Centrifugal Roof & Wall Exhausters

CENTRIMASTER® MODELS PDU & PNU

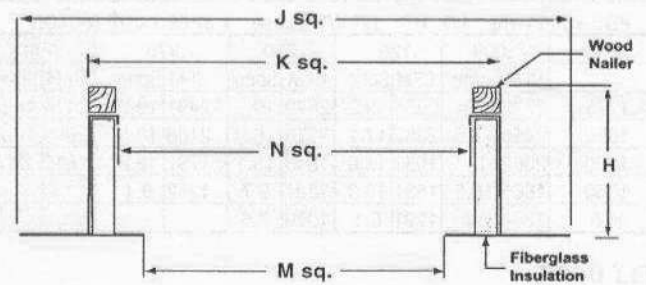
DIMENSIONAL DATA



DIMENSIONS (INCHES)

Model No.	A	B	C	D	ROOF OPENING
PDU110RG	13.50	16.10	20.63	12.84	9.00 X 9.00
PDU135RG	19.00	20.87	26.41	16.59	14.50 x 14.50
PNU185RG	28.00	31.56	39.75	28.73	23.50 x 23.50
PNU245RG	34.00	36.25	44.75	31.50	29.50 x 29.50

CURB DIMENSIONS



PREFABRICATED C CURB DIMENSIONS

Model No.	CURB	J	K	N	M	*H	Damper
PDU110RG	12	20.00	12.00	9.00	8.00	12"	AR8.75
PDU135RG	17.5	25.50	17.50	14.50	11.50	12"	AR14
PNU185RG	26.5	34.50	26.50	23.50	20.50	12"	AR22
PNU245RG	32.5	40.50	32.50	29.50	26.50	12"	AR28

WALL MOUNTING BRACKET

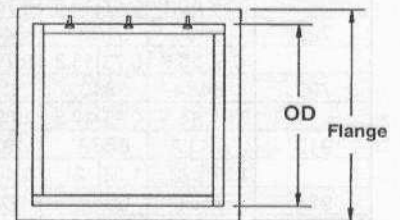
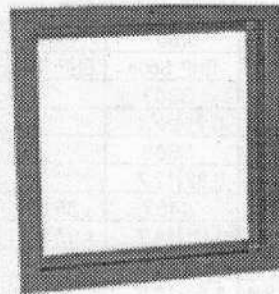
Model WP allows wall mounting of all models up to size 245.

OPTIONAL ACCESSORIES

BACKDRAFT DAMPERS

Model AR

All aluminum multiple blade construction. Precision balanced full opening blades with nylon bearings. Wide damper frame for installing flush to ceiling opening or mounting frame in roof opening. Mounts inside Acme prefabricated curb. Available as automatic or motor operated.



DIMENSIONS

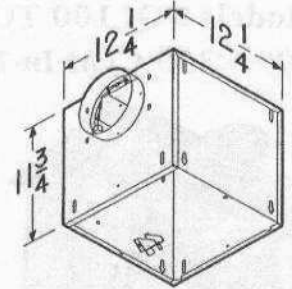
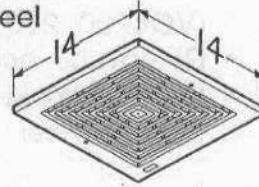
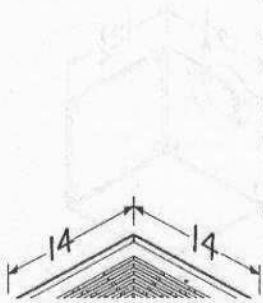
Model No.	Sizes	OD	Flange
Direct Drive	110	13.08	17.08
Direct Drive	135	18.58	22.58
Belt Drive	185	27.58	31.58
Belt Drive	245	33.58	37.58

VQ CONSTRUCTION & DIMENSIONAL DATA

Models VQ100, VQ150, VQ200, VQ250, VQ300

100 – 150 – 200 – 250 – 300 CFM Ceiling Mount Exhausters

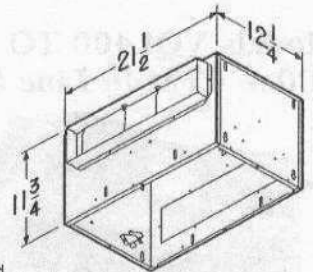
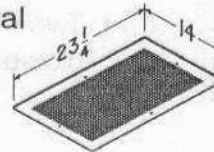
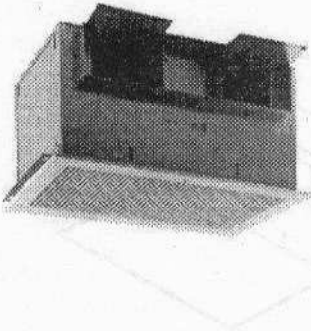
- 120V, 1 Φ , 60 Hz
- 220-240 VAC, 1 Φ , 50/60 Hz
- 6" round duct connector (VQ100, 150)
- 8" round duct connector (VQ200, 250, 300)
- Low profile white polymeric grille
- Single, impact-resistant centrifugal blower wheel
- Sound-absorbing acoustic insulation



Models VQ400, VQ500, VQ700

400 – 500 – 700 CFM Ceiling Mount Exhausters

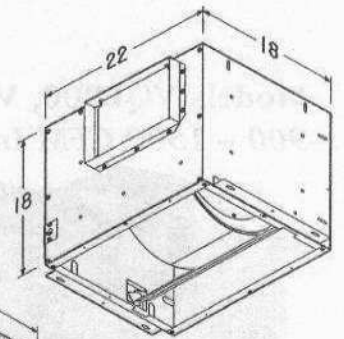
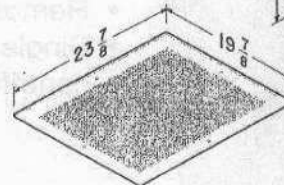
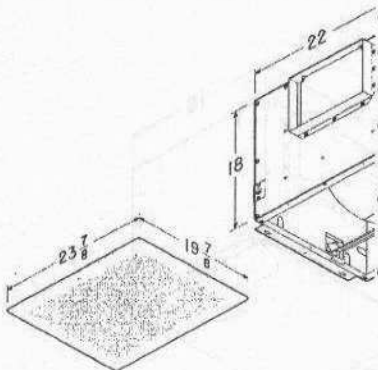
- 120V, 1 Φ , 60 Hz
- 220-240 VAC, 1 Φ , 50/60 Hz
- 4 1/2" x 18 1/2" duct connector
- Sturdy, low profile metal grille with white enamel finish
- Two impact-resistant centrifugal blower wheels
- Sound-absorbing acoustic insulation



Models VQ900, VQ1500

900 – 1500 CFM Ceiling Mount Exhausters

- 120V, 1 Φ , 60 Hz
- 220-240 VAC, 1 Φ , 50/60 Hz
- 8" x 12" duct connector
- Sturdy, low profile metal grille with white enamel finish
- Single impact-resistant centrifugal blower wheel
- Sound-absorbing acoustic insulation

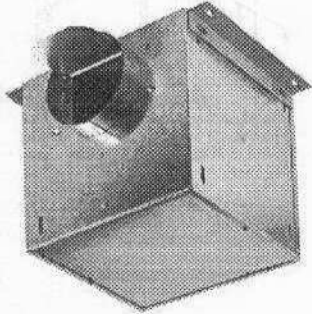


VQL CONSTRUCTION & DIMENSIONAL DATA

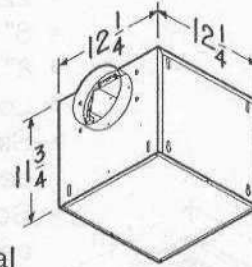
VQL 100 TO VQL 300

Models VQL100 TO VQL300

100 – 300 CFM In-Line Exhausters

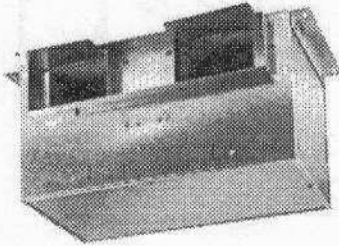


- 120 VAC, 1 Φ , 60 Hz
- Two 6" round duct connectors (VQL100, 150)
- Two 8" round duct connectors (VQL200, 250, 300)
- Removable access panel
- Single, impact-resistant centrifugal blower wheel

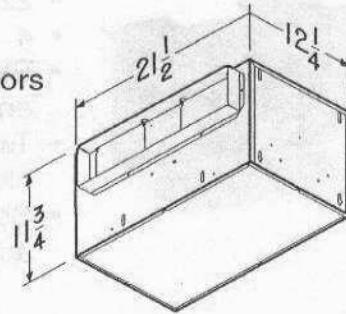


Models VQL400 TO VQL700

400 – CFM In-Line Exhausters

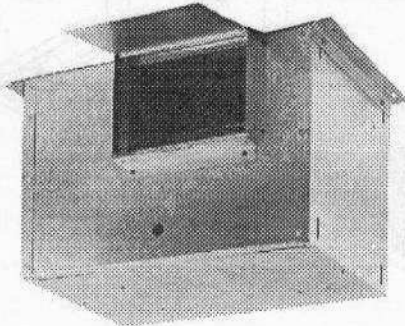


- 120 VAC, 1 Φ , 60 Hz
- Two 4 1/2" x 18 1/2" duct connectors
- Removable access panel
- Two impact-resistant centrifugal blower wheels

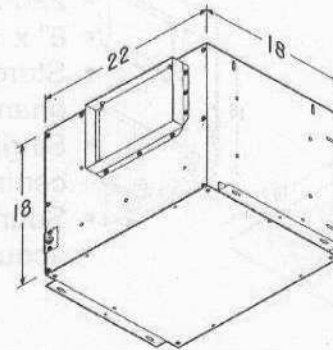


Models VQL900, VQL1500

900 – 1500 CFM In-Line Exhausters



- 120 VAC, 1 Φ , 60 Hz
- Two 8" x 12" duct connectors
- Removable access panel
- Single impact-resistant centrifugal blower wheel

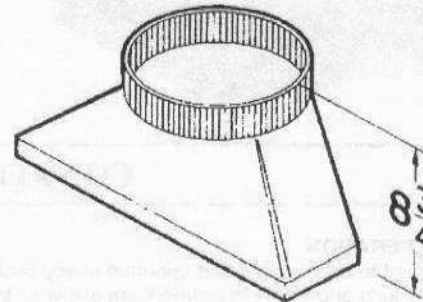


ACCESSORIES

DUCT TRANSITIONS

Model 423 & T81210 Duct Transitions

- Galvanized steel
- Allows for quick transition to easy-to-obtain-and-install round ducting
- 423 (4 1/2" x 18 1/2" to 10" round)
- T81210 (8" x 12" to 12" round)



WALL CAPS

Model 441

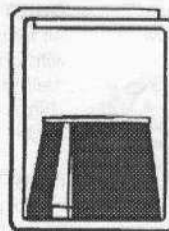
- Aluminum - natural finish
- Built-in backdraft damper and bird screen
- For 10" ϕ round duct

Picture Not Available

VIBRATION DAMPING HANGERS

Model VDH100

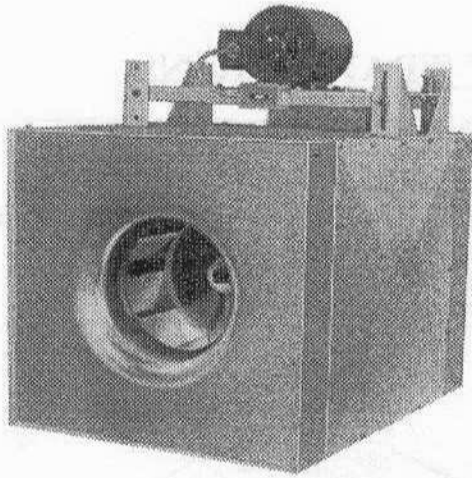
- Use with VQ/VQL100 - 1500
- Set of 4
- Holes for 10-32 hanger rods



Centri Master®

IN-LINE CENTRIFUGAL FANS

MODEL XB Belt Driven



SQUARE IN-LINE DIRECT OR BELT DRIVE

Model XB and XD Centrifugal In-Line Fans provide an efficient, straight-through or right angle airflow with a minimum of complicated duct connections. Costly round to square type transition pieces are eliminated. Its aerodynamic engineering and design features meet today's higher static pressure ventilation requirements.



Acme Engineering & Manufacturing Corporation certifies that the XB and XD Exhausters 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.

CONSTRUCTION FEATURES

ALL ANGLE OPERATION

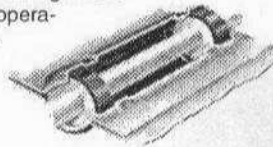
Fans are designed to be mounted and operated in any position. Fan support brackets and vibration isolators are available to ease installation.

HOUSING

Heavy-duty housing and drive enclosure, internal structural supports and bracing are constructed of galvanized steel. Duct connection collars are an integral part of in-line housing on all model sizes. Removable panels and on both sides allow easy access to all working parts for inspection, servicing or cleaning. Panels may be removed allowing for side discharge.

BEARINGS

Pre-lubricated bearings are used in a duplex split pillow block housing (except X1425 which has heavy duty self-aligning unitary pillow block bearings.) The bearings remain in perfect alignment after shipment, installation, and subsequent operation. Bearings are resiliently mounted in neoprene rings, providing extra protection and vibration isolating. The bearing assembly is rated at an L-50 life of 200,000 hours and features Acme's 5 year limited warranty.



MOTORS OUT OF AIR STREAM

These fans are suitable for continuous duty applications with gas temperatures of 140°F on direct drive applications and 200°F on belt drive applications.

X1 and XD units have AMCA B spark resistant construction as a standard feature.

THESE UNITS ARE NOT AIR TIGHT AND SHOULD NOT BE USED WHERE SOME ESCAPE OF CONTAMINATED AIR WOULD CAUSE PROBLEMS.

MOTOR AND DRIVE ASSEMBLY

Motors are continuous duty and matched to the fan load. Only motors of nationally recognized motor manufacturers are used.

The entire drive assembly located out of the air stream. Steel fan shaft and impeller hub have a corrosion resistant coating.

Cast iron machined sheaves used throughout. Variable pitch motor sheaves are standard equipment and are precision selected so when set at maximum speed, the impeller cannot exceed the cataloged speed rating and will not overload the motor. Drives are 1 or 2-belt combinations, depending on horsepower. Heavy-duty oil and heat resistant belts are designed for 150% of driven horsepower.

QUIET HOLLOW AIRFOIL IMPELLER

All fans have backward curved non-overloading aluminum impeller with hollow airfoil blades. Impeller are statically and dynamically balanced. Air moves smoothly over the airfoil blades resulting in a higher airflow performance impeller that operates with a minimum of air noise, and at less horsepower.

FACTORY WIRED DISCONNECT SWITCH

Factory wiring provides big savings in installation time and costs. All motors (except for explosion resistant and motors shipped not mounted) are factory wired to an external mounted disconnect switch. Standard wiring complies with NEC and materials used are U.L. listed.

Fans located outdoors will require rain-tight type disconnect switches, which are available (except for explosion resistant) as an optional extra. These must be field-mounted and wired.



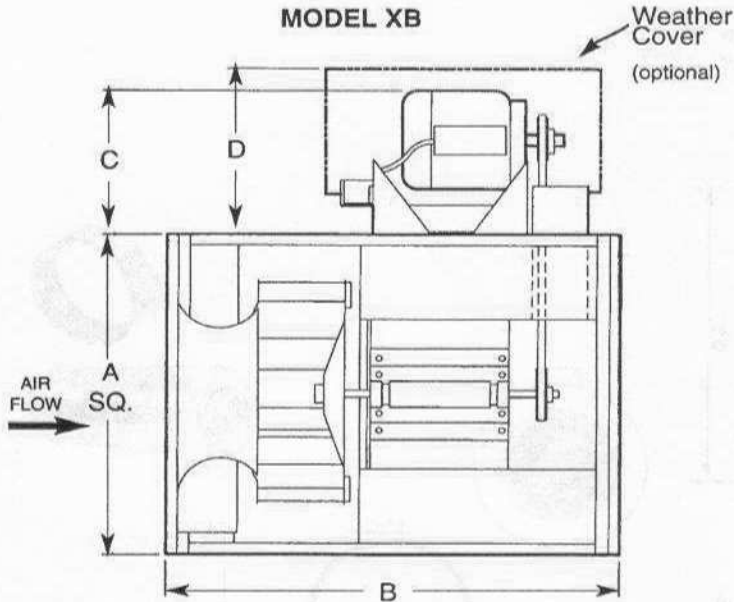
Centri Master®

IN-LINE CENTRIFUGAL FANS



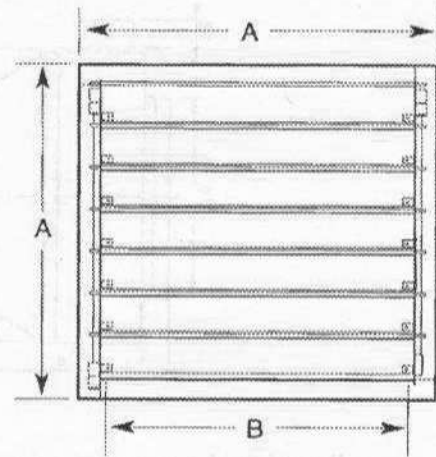
MODEL XB Belt Driven

DIMENSIONAL DATA



BACKDRAFT DAMPERS

All aluminum multiple blade construction. Precision balanced full opening blades with nylon bearings. Available in gravity or motor operated configurations for in-duct mounting.



Fan Model	A	B	C Max	D Max	Housing Thickness	Impeller Size
XB120	17.88	24.88	11.19	15.25	.04	11.94

Fan Model		MODEL	A	B*
XD	XB			
120	120	ARF17	17.00	13.25

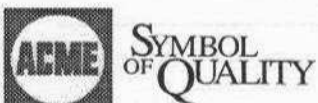
*I.D. of frame (flow area)

BELT DRIVE

MODEL No.	MAX/MIN RPM	HP	SONES @ .125"	.125"	.250"	.375"	.500"	.625"	.750"	1.000"	1.250"	1.500"	1.750"	2.000"	2.250"	2.500"	MAX BHP	Est Ship Wt. Lbs.
				995	910	730												
XB120F	1140	1/3	7.3	995	910	730											11	110
	1725		15.9	1565	1515	1465	1410	1345	1250	760							.35	

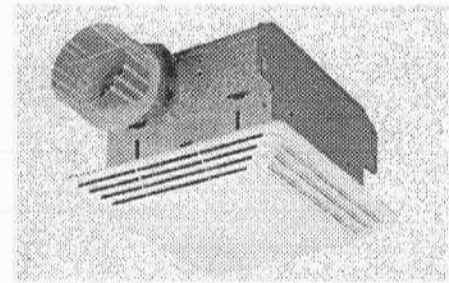
XB PERFORMANCE DATA

Outlet Velocity = CFM x .571

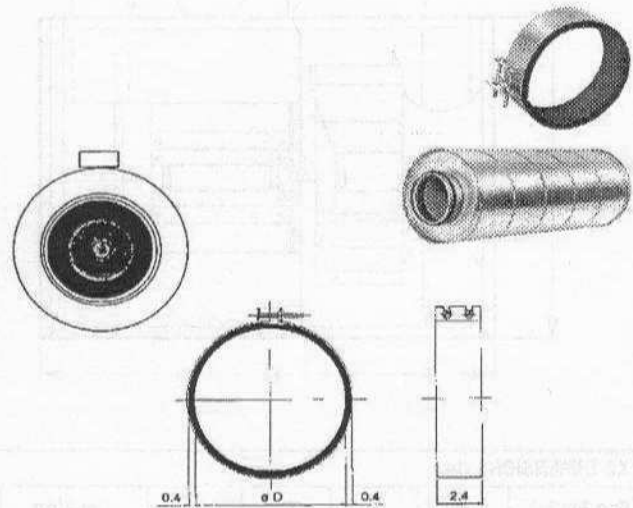
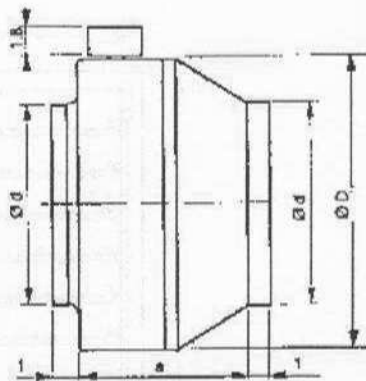


Broan Ceiling Fans

Model No.	CFM at .1 Inch	Discharge Size
688	50	3" dia.
671	70	3" dia.
684	80	4" dia.
676	110	4" dia.
679 Fan Light	70	4" dia.



Kanalflakt In-Line



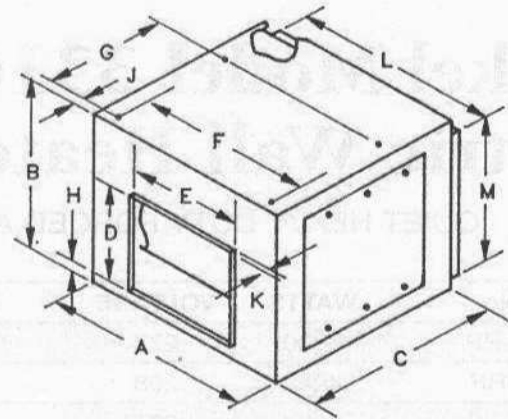
- Round tight housing of galvanized steel
- Backward-inclined blades for quietness and efficiency
- Ball bearings permanently lubricated and sealed for maintenance-free performance
- Mounting brackets available for versatile installation at any angle
- 100% Speed Control with optional SSC

Mounting Clamp with Neoprene Pad

• City of Chicago approved for plenum ceilings

Model No.	CFM	IN. W.G.	RPM	HP	Sones	O.D.	o.d.	a	Wt.
K6	225	.25	2400	.11	6.5	11½	6	5½	6.8
	185	.50							
K8	436	.25	2400	.15	7.7	13¼	8	6¼	10.6
	356	.50							
K10XL	580	.25	2785	.34	12.1	13¼	10	6½	11
	524	.50							

Duct Blowers

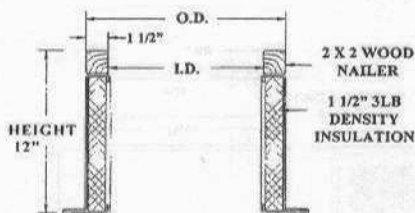


Forward Curved Wheel • Belt Drive — Motor in Air Stream Insulated Cabinet

Model No.	A	B	C	D	E	F	G	H	J	K	L	M
207	18	15 ³ / ₈	23	8 ¹ / ₄	9 ³ / ₁₆	14 ¹ / ₂	9 ⁵ / ₈	1 ¹ / ₄	1 ¹ / ₄	7/8	15 ⁷ / ₈	13 ³ / ₈

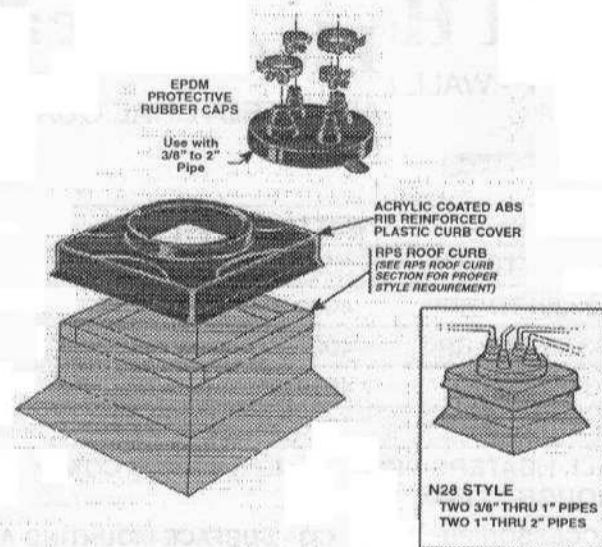
Model No.	H.P.	Volt	RPM Range	1/4" STATIC			1/2" STATIC		
				CFM	SONES	BHP	CFM	Sones	BHP
207	1/4	115/1	967	790	3.4	.14	900	6.6	.26
			1219	1080	12.7	.30			

Roof Curbs



12-Inch High Straight Sided with Nailer and Damper Tray

O.D.	
12 x 12	22-1/2 x 22-1/2
14-1/2 x 14-1/2	26-1/2 x 26-1/2
17-1/2 x 17-1/2	32-1/2 x 32-1/2
19-1/2 x 19-1/2	38-1/2 x 38-1/2

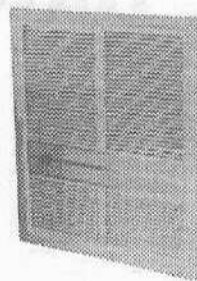


Four Pipe Curb System 12 x 12 O.D. Curb

2—(3/8" to 1") Pipes
2—(1" to 2") Pipes

Markel Model 3310 Electric Wall Heater

QUIET HEAVY DUTY FORCED AIR HEATERS



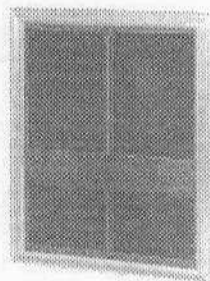
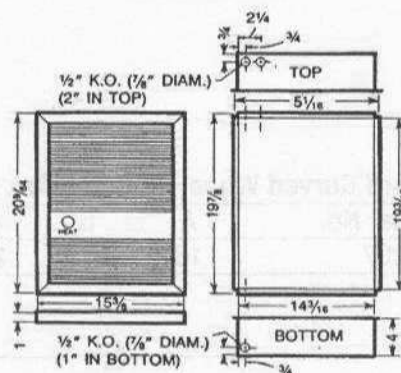
Model No.	WATTS	VOLTAGE	WEIGHT
G3315T-RP	3000	277	22
F3316T-RP	4000	208	22
G3316T-RP	4000	277	22
F3317TS-RP	4800	208	22
G3317TS-RP	4800	277	22

HEATER INCLUDES BUILT-IN SPST THERMOSTAT

ACCESSORIES: 3310EX33 - SURFACE MOUNTING ADAPTER
BOX 3310 - ROUGH-IN BOX ONLY

FEATURES: DECORATIVE WHITE FINISH
A SIMPLE FIELD CONVERSION TO A
TAMPER-RESISTANT FEATURE

Dimensions



Markel Model 3320 Electric Wall Heater

ARCHITECTURAL QUALITY • WALL MOUNTED

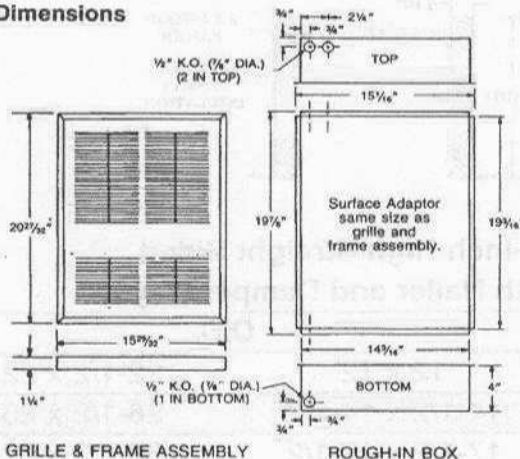
Model No.	WATTS	VOLTAGE	WEIGHT
G3325TTD-RP	3000	277	26
F3326TTD-RP	4000	208	26
G3326TTD-RP	4000	277	26
F3327TTD-RP	4800	208	26
G3327TTD-RP	4800	277	26

ALL HEATERS PRICED AND SHIPPED COMPLETE WITH ROUGH-IN BOX

ACCESSORIES: 3320EX33 - SURFACE MOUNTING ADAPTER
BOX 3310 - ROUGH-IN BOX ONLY
BRONZE FINISH

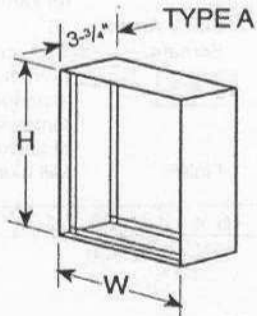
FEATURES: BUILT-IN DISCONNECT SWITCH
BUILT-IN TAMPER RESISTANT THERMOSTAT
RICHLY STYLED, RUGGED GRILLE
WHISPER-QUIET SOUND LEVEL
FAN DELAY

Dimensions



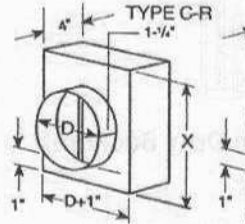
Fire Dampers

**Model FDD-VA80 • Fire Damper
Curtain Type
1-1/2 Hour**



6 x 6	14 x 14	20 x 10
8 x 6	16 x 6	20 x 12
8 x 8	16 x 8	20 x 14
10 x 6	16 x 10	22 x 10
10 x 8	16 x 12	22 x 12
10 x 10	16 x 14	22 x 22
12 x 6	16 x 16	24 x 8
12 x 8	18 x 8	24 x 10
12 x 10	18 x 10	24 x 12
12 x 12	18 x 12	24 x 14
14 x 6	18 x 14	24 x 16
14 x 8	18 x 16	24 x 18
14 x 10	18 x 18	24 x 24
14 x 12	20 x 8	

**Model FDD-RVC-80 • Fire Damper
Curtain type
1-1/2 Hour**

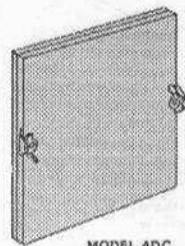


6" Round
8" Round
10" Round
12" Round
14" Round

FIRE DAMPER SIZE CHART	
DUCT HEIGHT	TYPE C-R, C-S/R & C-OV DAMPER HEIGHT
INCHES	INCHES
6	9
8	11
10	13
12	15
14	17

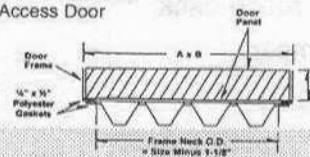
Duct Access Doors • ADC-D

**1" thick door w/double wall construction.
1" insulation and cam latches.**

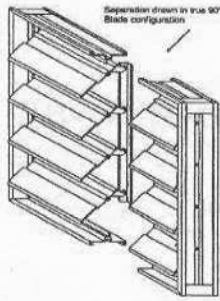


MODEL ADC
w/CAM LATCHES

Typical Double Panel
Access Door



6 x 6	8 x 8	10 x 10	12 x 12	14 x 14
16 x 16	18 x 18	20 x 20	24 x 24	

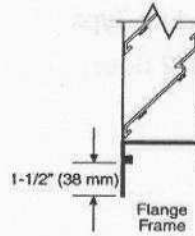


Model SHM • Medium Duty Backdraft Damper

- Frame: 3" Deep .064" Extruded aluminum
- Blades: .064 - .105 Extruded aluminum, 4.25" Wide
- Blade Axles & Bearings: Axle - Injection molded delrin pin
Bearing - Brass sleeve
- Linkage: Mounted at the center point of the width dimension of face of blades.
Blade Bracket - .050" thick aluminum.
Linkage Bar - .064" extruded aluminum.
Polyurethane foam blade edge.
- Seals: Polyurethane foam blade edge.
- Maximum Velocity & Static Pressure: 2000 FPM @ 4" H₂O
- Undersized: 1/4" under ordered size.

8 x 8	16 x 16
10 x 10	18 x 18
12 x 12	24 x 24
14 x 14	

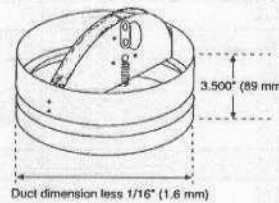
Model XAZ-4 • Extruded Aluminum Louver Step Blade, AMCA Licensed



- Frame: 4" x .081 (1001 mm x 2.1 mm) extruded aluminum (6063.T5).
- Blades: .081 (2.1 mm) extruded aluminum (6063-T5), approximately 4-3/8" (111 mm) on centers.
- Blade Angle: 45°
- Screen: Bird screen - 3/4 x .050 (19mm x 12.7 mm) flattened expanded aluminum in a removable frame on interior of louver.
- Finish: Mill aluminum

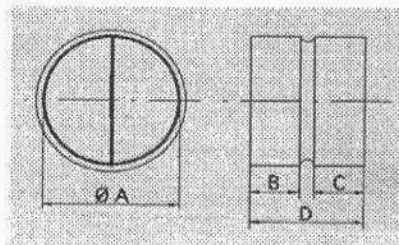
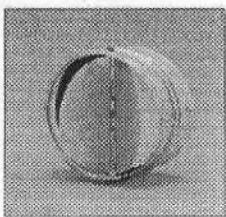
12 x 12*	18 x 18	24 x 16	24 x 24
* 2" deep			

Radiation Damper • Round



- Frame: 24 ga. galv. steel.
- Blades: 22 ga. galv. steel.
- Thermal Blanket: Non-asbestos, ceramic blanket
- Spring: Corrosion resistant steel spring.
- Fusible Link: Replaceable 212° F standard. Others available.
- Finish: Mill.

6"	8"	10"	12"	14"
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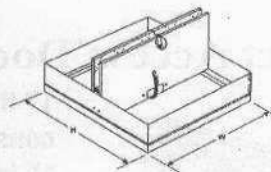


Model RSK • Butterfly round back draft damper

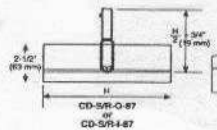
Type	A	B	C	D
RSK6	6	4.7	2.2	2.1
RSK8	8	5.5	2.6	2.5
RSK10	10	5.5	2.6	2.5

Radiation Damper • Model CD-S/R-0-87

Square and Rectangular Butterfly type for over diffuser neck installation.



- Frame: Roll formed, 22 ga. galv. steel
- Blades: 22 ga. galv. steel.
- Thermal Blanket: Non-asbestos, ceramic blanket
- Spring: Corrosion resistant steel spring.
- Fusible Link: Replaceable 212° F standard. Others available.
- Finish: Mill galvanized.



22 x 10	22 x 22
---------	---------

*24 x 24" Thermal Blankets Available