

# RECTORSEAL

ENGINEERED HVACR PRODUCTS CATALOG



Equipment Mounting  
Commercial Lineset Ducting  
Locking Refrigerant Caps  
Condensate Management  
Lineset Covers  
Universal Condenser Brackets



**RD Series Engineered Commercial Metal Duct System  
Protects VRF AC & Refrigeration Linesets  
on Roof Tops & Vertical Building Surfaces**

# Professional Engineering Solutions that Provide Strength, Protection & Durability!

## Table of Contents



**Big Foot®  
Equipment Mounting  
Systems**

page 4



**RD Series  
Commercial Rooftop Metal  
VRF Ducting Systems**

page 8



**PD Series  
Light Commercial PVC  
Lineset Duct Systems**

page 11



**Locking  
Refrigerant  
Gas Caps**

page 13



**Condensate  
Management**

page 15



**Aspen® Pumps  
for Mini Split Units**

page 16



**Residential /  
Light Commercial  
Lineset Covers**

page 20



**RectorSeal®  
Universal Condenser  
Brackets & Risers**

page 25



For Submittal Data Sheets, visit  
[www.rectorseal.com/qr/epsub.html](http://www.rectorseal.com/qr/epsub.html)  
or scan this code.





# Equipment Mounting

## Heavy duty framework systems for equipment mounting on flat roofs.



### The Advantages of Big Foot Systems.

#### The industry standard

Big Foot Systems set the industry standard for free standing flat roof mounting of air conditioning, refrigeration and other equipment.

The system is modular and completely flexible. Allows for multiple design layouts. Mounting is strong, secure, flexible, vibration absorbing and leak proof.

Installation is quick, clean, practical and aesthetically pleasing. Free-standing design makes roofing repairs simpler and resurfacing less costly.

**Rugged removable legs** Each leg assembly holds 720 lbs. and can be removed individually. Costly removal of equipment is unnecessary when re-roofing or resurfacing.

**Optimum weight distribution** The Big Foot base is designed to transfer weight beyond the roof's center stress point.

**Optimum strength and durability** The Big Foot base is made of glass filled Nylon with UV protection. Frameworks are hot dip galvanized for all weather protection.

**Quiet durability** Each foot assembly includes a recycled crumb rubber pad for vibration isolation and to protect the roof surface.

**Quick on-site leveling** The legs allow for vertical height adjustment to permit easy leveling. A stepped roof option is available.

**Reduced risk of roof leaks** The Big Foot System does not penetrate the waterproof membrane, eliminating difficult flashing around concrete structures. The roofing system warranty is never compromised.

**Architecturally friendly** Big Foot clean contemporary framework suspends equipment above the roof surface, allowing for a simpler, more flexible roof design.

**Equipment Clamps** secure equipment at both ends of crossbars and are fully adjustable.

**Linear Adjustment** The cross bars supporting the equipment slide along the end bars into position required, then are locked securely in place.

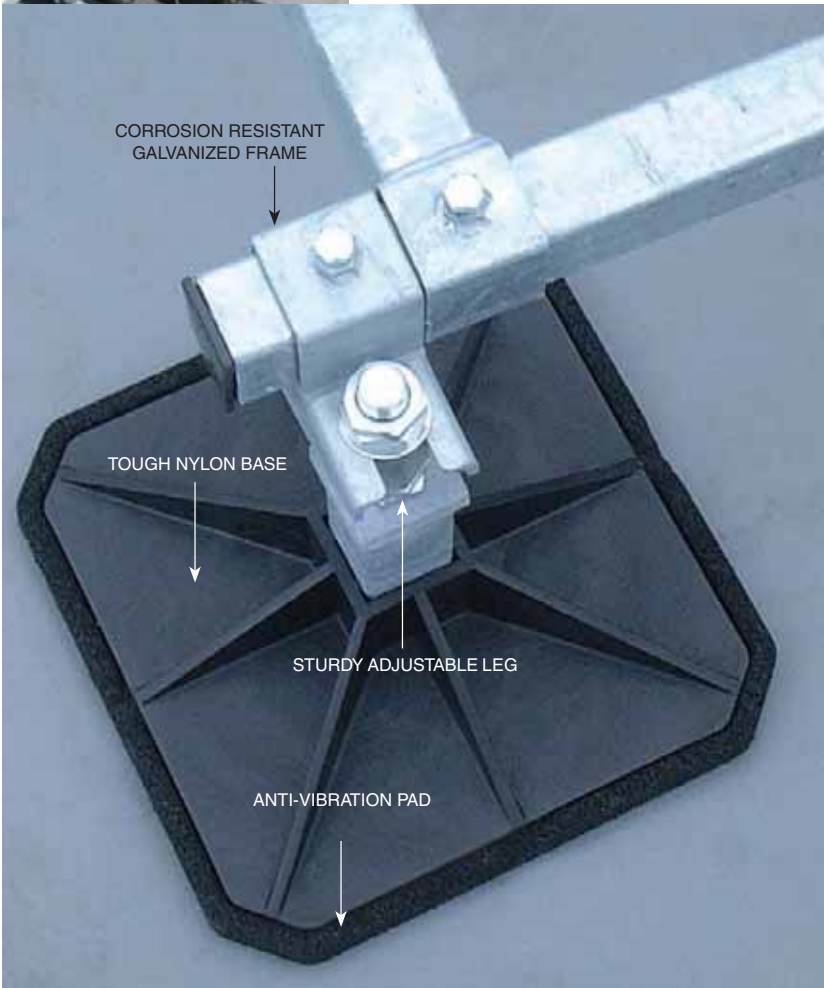
**Leg Assembly Positioning** The leg assembly is typically positioned outside the framework, but can be placed inside the framework to avoid an obstruction, if necessary.

#### Custom frameworks

For larger, more complex projects, RectorSeal offers a custom frame design service.

Available upon request for Big Foot frames, Cube & Beam assemblies, Computational Fluid Dynamics (CFD) modeling and engineering design & analysis.

Contact RectorSeal 1-800-231-3345 or your bid & spec representative.





## Heavy Duty Cube & Beam



RS# (ref. #)	Description	Support Wt lbs.	L	W	H	Foot Size	Frame Wt lbs.
87650 (RHC 200 450)	HD Cube 200 kit 18"	2646	44.5"	44.5"	13"	18"	137
87651 (RHC 200 600)	HD Cube 200 kit 24"	4409	51"	51"	13"	24"	159
87652 (RHC 600 450)	HD Cube 600 kit 18"	2646	44.5"	44.5"	23"	18"	165
87653 (RHC 600 600)	HD Cube 600 kit 24"	4409	51"	51"	23"	24"	181
87654 (RHC 800 450)	HD Cube 800 kit 18"	2646	44.5"	44.5"	35"	18"	177
87655 (RHC 800 600)	HD Cube 800 kit 24"	4409	51"	51"	35"	24"	192
87657 (RHCA ADJUSTER)	Cube Adjuster	-	9.75"	6"	-	-	24
87662 (RHB 450)	HD Beam kit 18"	1323	49"	19"	12"	18"	66
87663 (RHB 600)	HD Beam kit 24"	2205	55"	25"	12"	24"	71
87667 (RHAB 450)	HD Adjustable Beam kit 18"	1102	52"	19"	12-14"	18"	77
87668 (RHAB 600)	HD Adjustable Beam kit 24"	1764	59"	25"	12-14"	24"	82

## Frames for VRF Condensers - 78" Wide



RS# (ref. #)	Description	VRF Dimensions		Support Wt lbs.	Frame Dimensions		# of Feet	Frame Wt lbs.
		L	W		L	W		
87721 (VRF1000)	1000 Frame kit	37"	30"	1056	50"	78"	4	108
87621 (VRF1500)	1500 Frame kit	49"	30"	1056	70"	78"	4	117
87722 (VRF2000)	2000 Frame kit	69"	30"	1584	90"	78"	6	155
87723 (VRF2500)	2500 Frame kit	73"	30"	1584	110"	78"	6	161
87724 (VRF3000)	3000 Frame kit	104"	30"	2112	130"	78"	8	194
87622 (VRF3500)	3500 Frame kit	100"	30"	2112	130"	78"	8	194
87725 (VRF4000)	4000 Frame kit	117"	30"	2112	149"	78"	8	216
87623 (VRF4500)	4500 Frame kit	120"	30"	2112	149"	78"	8	216
87624 (VRF5000)	5000 Frame kit	117"	30"	2640	169"	78"	10	279
87625 (VRF5500)	5500 Frame kit	145"	30"	2640	169"	78"	10	257
87626 (VRF6000)	6000 Frame kit	142"	30"	2640	169"	78"	10	279
87627 (VRF6500)	6500 Frame kit	165"	30"	2640	169"	78"	10	293
87628 (VRF7000)	7000 Frame kit	174"	30"	3168	208"	78"	12	334
87629 (VRF7500)	7500 Frame kit	207"	30"	3168	228"	78"	12	372

**Angled AV Pads** The solution to sloping roofs. 2.5° & 5° AV pads are available for 12" & 18" feet.

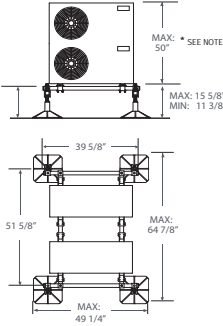
**Leg Height Adjustment** 11<sup>3</sup>/<sub>8</sub>" - 15<sup>5</sup>/<sub>8</sub>"; floor to top of framework.

**Linear Adjustment** The cross-bars which support the condenser units can slide along the plain bars into the position required, then are locked securely in place.

**Equipment Clamps** secure equipment and are fully adjustable on both sides of the cross-bars.

**Leg Assembly Positioning** The leg assembly is typically positioned outside the frame work, but can be placed inside the framework to avoid an obstruction, if necessary.


**Foot Protection Covers** are recommended for use on PVC membrane roof surfaces to prevent migration of plasticizers.



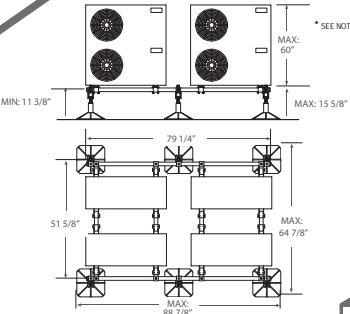
### 40" System Framework

SYSTEM COMPONENTS

- (2) Plain Bars 15/8" x 39 5/8"
- (2) Cross Bars 15/8" x 46 7/8"
- (4) Leg Assemblies with AV Pads 12" x 12"
- (2) Clamp Kits




RS #	STYLE	SUPPORT WT LBS	FRAME WT LBS	FRAME WIDTH
<b>87701</b>	<b>(RES4840)</b>	<b>1072</b>	<b>93</b>	<b>48"</b>



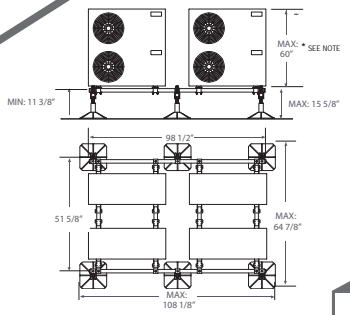
### 80" System Framework

SYSTEM COMPONENTS

- (2) Plain Bars 15/8" x 79 1/4"
- (4) Cross Bars 15/8" x 46 7/8"
- (6) Leg Assemblies with AV Pads 12" x 12"
- (4) Clamp Kits




RS #	STYLE	SUPPORT WT LBS	FRAME WT LBS	FRAME WIDTH
<b>87702</b>	<b>(RES4880)</b>	<b>1608</b>	<b>154</b>	<b>48"</b>



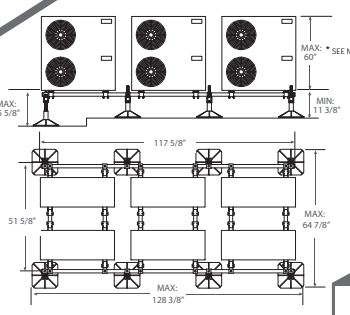
### 100" System Framework

SYSTEM COMPONENTS

- (2) Plain Bars 15/8" x 98 1/4"
- (4) Cross Bars 15/8" x 46 7/8"
- (6) Leg Assemblies with AV Pads 12" x 12"
- (4) Clamp Kits




RS #	STYLE	SUPPORT WT LBS	FRAME WT LBS	FRAME WIDTH
<b>87703</b>	<b>(RES48100)</b>	<b>1608</b>	<b>154</b>	<b>48"</b>



### 120" System Framework

SYSTEM COMPONENTS

- (2) Plain Bars 15/8" x 117 5/8"
- (4) Cross Bars 15/8" x 46 7/8"
- (8) Leg Assemblies with AV Pads 12" x 12"
- (6) Clamp Kits



RS #	STYLE	SUPPORT WT LBS	FRAME WT LBS	FRAME WIDTH
<b>87704</b>	<b>(RES48120)</b>	<b>2144</b>	<b>214</b>	<b>48"</b>

Big Foot is a registered trademark of Aspen Pumps Limited Company UK

\*NOTE: For condensers higher than 60" please consult RectorSeal.

Big Foot Systems is a registered trademark of Aspen Pumps Limited Company UK

Additional individual parts available.

# Frame Supports

**Ideal for constructing your own support system on rooftops, floors or slabs.**

Frame Supports provide the base and essential hardware. This system can then be used for piping, tray systems or ductwork. The bases include recycled crumb rubber pads to cushion and protect the roof or other surface. Framework must be cut and fit on-site using readily available 1<sup>5</sup>/<sub>8</sub>" strut and 1/2" threaded rod (not included).



RS # (ref. #)	DESCRIPTION	WT LBS.
87711 (RPS16)	MULTI FOOT 16"	3.7
87712 (RPS24)	MULTI FOOT 24"	6.2

Multi Foot can accept both 1/2" coarse threaded rod OR 1<sup>5</sup>/<sub>8</sub>" strut (not included). Installer must provide rod or strut for custom on-site fabrication. Ideal for smaller systems. Sold individually.

**Materials:** Rubber/PVC

**Multi Foot kit includes:**  
1 foot, 1 anti-vibration pad

**Max weight capacity:**  
RPS16 - 572 lbs RPS24 - 1045 lbs



RS # (ref. #)	DESCRIPTION	WT LBS.
87713 (RSPD12)	H-FRAME KIT 12"	14.5
87714 (RSPD18)	H-FRAME KIT 18"	28.5

H-Frame Kits accepts a standard 1<sup>5</sup>/<sub>8</sub>" strut (not included) that fits securely into pockets provided in the foot. Any frame shape can then be built up for sturdy support. AV pads provide insulation from vibration, creeping and noise. Sold in pairs.

**Materials:** Rubber/PVC

**H-Frame Kit includes:**  
2 feet, 2 AV pads, 2 strut inserts  
2 L-Brackets, 4 M10 Bolts, 4 channel nuts

**Max weight capacity:**  
RPSD12 - 330 lbs (per pair) RPSD18 - 661 lbs (per pair)

**INABA DENKO®**

# Commercial Lineset Metal Ducting Systems

**RD Series**

**for VRF Linesets on Rooftops  
& Vertical Building Surfaces**



STRENGTH

PROTECTION

DURABILITY

**RD Series commercial lineset ducting.**  
**Designed to meet the demands of the expanding  
market trend towards VRF applications.**



**Triple hot dipped protection.**

RD ducts and fittings feature ZAM® brand hot dip coating for excellent durability. ZAM® features three layers of protection - zinc, aluminum and magnesium.

**Superior corrosion & scratch resistance.**

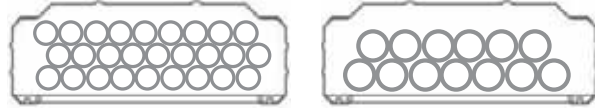
RD/ZAM hot coated steel sheet delivers corrosion resistance 10 to 20 times greater than that of ordinary galvanized steel sheet and 5 to 8 times more than zinc-aluminum alloy coated steel sheet when subjected to accelerated spray salt testing. ZAM® coating provides better scratch resistance.

Tough ZAM® coating out performs galvanized steel. Stainless steel duct & fittings are available by special order only. Optional anti-slip walking surface is available for select RD duct and fittings.

**RD Series**

**Specifications & Technical Information**

**Maximum Lineset Capacity**

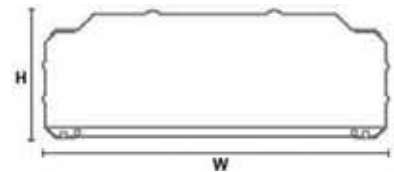


Duct Series Model type	Insulation Thickness		Tubing Diameter (Liquid) (Gas) in inches										
	Liquid	Gas	(3/8) (5/8)	(3/8) (3/4)	(1/2) (1)	(1/2) (1 1/8)	(5/8) (1 1/8)	(5/8) (1 1/4)	(3/4) (1 1/4)	(3/4) (1 1/2)	(7/8) (1 1/2)	(7/8) (1 5/8)	
RD300	1/2"	1/2"	8	8	5	5	5	4	4	3	3	3	
	1/2"	3/4"	5	4	3	3	3	2	2	2	2	2	
RD450	1/2"	1/2"	12	11	9	9	7	7	6	5	5	5	
	1/2"	3/4"	9	8	7	6	6	4	4	3	3	3	
RD600	1/2"	1/2"	19	17	13	13	12	10	10	8	8	6	
	1/2"	3/4"	10	9	8	7	7	6	6	5	4	4	
RD900	1/2"	1/2"	25	24	19	18	16	14	14	10	10	8	
	1/2"	3/4"	18	16	14	13	12	8	8	6	6	6	

Table calculations utilize 75% area fill for linesets. Additional free area should be considered for complex installations.

**Dimensions and Availability**

Duct Series	Width (inches)	Height (inches)	In-Stock	Special Order
RD300	11 7/8"	5 1/8"	•	
RD450	17 3/4"	5 1/8"	•	
RD600	23 5/8"	5 1/8"	•	
RD900	35 3/8"	5 1/8"		•



In-Stock items are warehoused in Fall River, MA. For special order RD Series sizes or RDWK Walkway Styles, allow 16 weeks delivery time.

**Maximum Load Capacity for Duct Base & Brackets**

Duct Series	3ft. 3in. Bracket Spacing	6ft. 6.5in. Bracket Spacing
RD300	1187 lbs./ft.	883 lbs./ft.
RD450	775 lbs./ft.	572 lbs./ft.
RD600	565 lbs./ft.	413 lbs./ft.
RD900	349 lbs./ft.	248 lbs./ft.

Maximum Duct Cover Load:

**Type RD - standard**

102.40 lbs./sq. ft. or less.

**Type RDWK - walkway**

1024 lbs./sq. ft. or less.

**Maximum Load Capacity for Brackets Only**

When brackets are fastened with 4 bolts tightened to the torque specification in column 1, column 2 (below) shows the maximum allowable load before the bracket / riser combination will shift and fail.

Torque (column 1)	Shift Starting Load (column 2)
21.70 lbs./ft.	1432.93 lbs./ft.

# Ordering Information

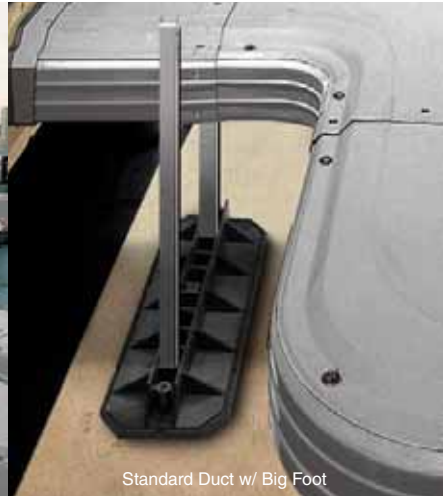
## RD Series



Anti-Slip Walkway



Standard Duct



Standard Duct w/ Big Foot

Anti-slip walking surface is available for select RD duct and fittings.

Multiple support options are available, including Big Foot. Contact RectorSeal for details.

### Standard Duct & Fittings

RS# (ref. #)	Description
86364 (RD-300)	300 duct 12" x 78"
86370 (RSJ-300)	300 fixed coupler 12"
86378 (RSJ-300)	300 coupler 12"
86379 (RSS-300)	300 telescopic coupler 12"
86360 (RCF-300)	300 45° vertical ELL 12"
86372 (RF-300)	300 45° flat ELL 12"
86362 (RCI-300)	300 90° inner vertical ELL 12"
86363 (RCO-300)	300 90° outer vertical ELL 12"
86371 (RE-300)	300 90° flat ELL 12"
86375 (RT-300)	300 TEE 12"
86376 (RSP-300)	300 wall inlet seal plate 12"
86377 (RWP-300)	300 wall flange 12"
86365 (REC-300)	300 end cap 12"
86464 (RD-450)	450 duct 18" x 78"
86470 (RSJ-450)	450 fixed coupler 18"
86478 (RFJ-450)	450 coupler 18"
86479 (RSS-450)	450 telescopic coupler 18"
86460 (RCF-450)	450 45° vertical ELL 18"
86472 (RF-450)	450 45° flat ELL 18"
86462 (RCI-450)	450 90° inner vertical ELL 18"
86463 (RCO-450)	450 90° outer vertical ELL 18"
86471 (RE-450)	450 90° flat ELL 18"
86475 (RT-450)	450 TEE 18"
86466 (RR-450-350)	450-300 reducer 18" to 12"
86476 (RSP-450)	450 wall inlet seal plate 18"
86477 (RWP-450)	450 wall flange 18"
86465 (REC-450)	450 end cap 18"
86384 (RD-600)	600 duct 24" x 78"
86390 (RSJ-600)	600 fixed coupler 24"
86398 (RFJ-600)	600 coupler 24"
86399 (RSS-600)	600 telescopic coupler 24"
86380 (RCF-600)	600 45° vertical ELL 24"
86392 (RF-600)	600 45° flat ELL 24"
86382 (RCI-600)	600 90° inner vertical ELL 24"
86383 (RCO-600)	600 90° outer vertical ELL 24"
86391 (RE-600)	600 90° flat ELL 24"
86395 (RT-600)	600 TEE 24"
86387 (RR-600-450)	600-450 reducer 24" to 18"

RS# (ref. #)	Description
86386 (RR-600-300)	600-300 reducer 24" to 12"
86396 (RSP-600)	600 wall inlet seal plate 24"
86397 (RWF-600)	600 wall flange 24"
86385 (REC-600)	600 end cap 24"
86438 (RPH-90)	Bracket to connect RD series to PD 90 Duct
86439 (RPH-120)	Bracket to connect RD series to PD 120 Duct
86484 (RD-900)	900 duct 36" x 78"
86490 (RSJ-900)	900 fixed coupler 36"
86498 (RFJ-900)	900 coupler 36"
86499 (RSS-900)	900 telescopic coupler 36"
86492 (RF-900)	900 45° flat ELL 36"
86482 (RCI-900)	900 90° inner vertical ELL 36"
86483 (RCO-900)	900 90° outer vertical ELL 36"
86488 (RR-900-600)	900-600 reducer 36" to 24"
86497 (RWF-900)	900 wall flange 36"
86485 (REC-900)	900 end cap 36"

### Walkway Duct & Fittings Includes Reinforced Anti-Slip Surface

RS# (ref. #)	Description
86564 (RDWK-300)	300 walk duct 12" x 78"
86565 (RTWK-300)	300 walk TEE 12"
86562 (RFWK-300)	300 walk 45° flat ELL 12"
86561 (REWK-300)	300 walk 90° flat ELL 12"
86574 (RDWK-450)	450 walk duct 18" x 78"
86575 (RTWK-450)	450 walk TEE 18"
86572 (RFWK-450)	450 walk 45° flat ELL 18"
86571 (REWK-450)	450 walk 90° flat ELL 18"
86584 (RDWK-600)	600 walk duct 24" x 78"
86585 (RTWK-600)	600 wall TEE 24"
86582 (RFWK-600)	600 walk 45° flat ELL 24"
86581 (REWK-600)	600 walk 90° flat ELL 24"
86594 (RDWK-900)	900 walk duct 36" x 78"
86595 (RTWK-900)	900 walk TEE 36"
86592 (RFWK-900)	900 walk 45° flat ELL 36"
86591 (REWK-900)	900 walk 90° flat ELL 36"

- Non Stock Item: Special order only, approx. lead 16 weeks.

**PD Series**



# PVC Duct Systems for Light Commercial VRF & Industrial Linesets

## Functional & Professional Appearance

**Light & Tough:** UV & weather resistant heavy duty PVC construction resists deformation.

The PD series is designed to protect linesets from the elements, vandalism and mechanical damage while enhancing the external appearance of the entire system.

Currently available in 2 sizes, 3.5" diameter and 4.7" diameter, this series is designed primarily for use in smaller VRF systems where use of the larger metal RD series is not needed.

It can also be used in conjunction with the RD series to cover the linesets from the condenser to the point where they enter the Metal Duct system.

It is particularly effective for cladding any configuration of final connections into a condenser.

In addition, this series can be used for industrial linesets for both refrigeration and conventional Air Conditioning applications.

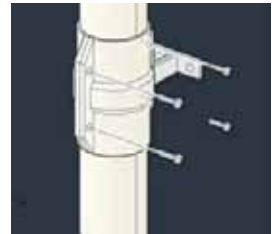
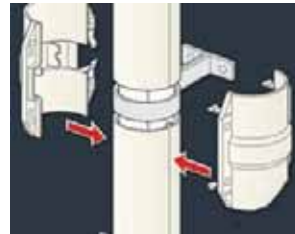
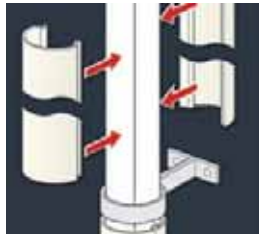
The PD Series can be fitted during the installation process or can easily be retrofitted after the linesets have been installed.

**Easy Installation:** All duct and fittings disassemble for ease of installation and mount with commercially available standard wall mounted pipe brackets.

**Step 1:** Clip duct into place over installed lineset.

**Step 2:** Install mounting couplers & fittings.

**Step 3:** Secure with provided screws.



## Specifications & Technical Information

<b>Application</b>	Offset from vertical or horizontal surface
<b>Temperature Range</b>	-4°F to 140°F (surface temperature)
<b>Material</b>	Fire resistant & UV stable rigid PVC
<b>Color</b>	Ivory

## Maximum Lineset Combinations

Item No.	Matching Pipe Clamp Size*1	Insulation Thickness		
		0.39" x 0.39" *2	0.39" x 0.78" *2	0.78" x 0.78"
<b>PD-90</b>	3.5" or less	∅ 0.62" x ∅ 1.12"	∅ 0.37" x ∅ 0.75"	-
<b>PD-120</b>	4.7" or less	∅ 0.75" x ∅ 1.50"	∅ 0.75" x ∅ 1.25"	∅ 0.37" x ∅ 0.75"

\*1 System is designed for use with pipe clamps sized for steel pipe. Pipe clamps sized for PVC pipe can also be used provided their OD is 3.5" or less.

\*2 Lineset capacity mentioned is based on Insulation thickness up to 0.75". For thicker insulation reduce Lineset capacity accordingly.

**PD Series**



## Ordering Information

RS# (ref. #)	Description (Ivory)
86403 (PD90-1000-I)	PD 90 duct 3.5" x 38"
86413 (PD90-1500-I)	PD 90 duct 3.5" x 58"
86404 (PD120-1000-I)	PD 120 duct 4.7" x 38"
86414 (PD120-1500-I)	PD 120 duct 4.7" x 58"
86401 (PDE-90-I)	PD 90 - 90° ELL
86411 (PDE-120-I)	PD 120 - 90° ELL
86400 (PDJ-90-I)	PD 90 plain coupler
86402 (PDF-90-I)	PD 90 - 45° ELL
86412 (PDF-120-I)	PD 120 - 45° ELL
86410 (PDJ-120-I)	PD 120 plain coupler
86405 (PDT-90-I)	PD 90 TEE
86415 (PDT-120-I)	PD 120 TEE
86406 (PDC-90-I)	PD 90 end fitting
86416 (PDC-120-I)	PD 120 end fitting
86407 (PWP-90-I)	PD 90 wall flange
86417 (PWP-120-I)	PD 120 wall flange
86409 (PDB-90-I)	PD 90 mounting coupler
86419 (PDB-120-I)	PD 120 mounting coupler
86429 (PDL)	PD metal mounting clip
86420 (PDPC-90)	PD 90 pipe clamp 3.5"
86421 (PDPC-120)	PD 120 pipe clamp 4.7"
86425 (PDTM60)	PD TEE type mounting bracket, 2.5" long
86426 (PDTM80)	PD TEE type mounting bracket, 3" long
86427 (PDTM100)	PD TEE type mounting bracket, 4" long

For Submittal Data Sheets, visit  
[www.rectorseal.com/qr/epsub.html](http://www.rectorseal.com/qr/epsub.html)  
 or scan this code.



# GasGuard™ Keyless Locking Refrigerant Gas Caps



The simplest way to comply with IMC & IRC codes for protection against refrigerant gas misuse.



1/4" Thread Gray

RS #	DESCRIPTION	QTY
86640	Socket Tool / 2 Free Caps	10
86641	Universal 10 pk	10
86643	Universal 50 pk	1
86646	Universal 100 pk	1

5/16" Thread Available in Gray Only

86650	Socket Tool / 2 Free Caps	10
86621	Universal 10 pk	10



1/4" Thread Green

RS #	DESCRIPTION	QTY
86610	Socket Tool / 2 Free Caps	10
86611	R22 10 pk	10
86613	R22 50 pk	1
86616	R22 100 pk	1



1/4" Thread Pink

RS #	DESCRIPTION	QTY
86630	Socket Tool / 2 Free Caps	10
86631	R410 10 pk	10
86633	R410 50 pk	1
86636	R410 100 pk	1

**It's in the Code.** Effective February 2009 the International Mechanical Code and International Residential Code now require that all outdoor access ports on AC Refrigerant circuits be made tamper resistant.

#### International Mechanical Code 1101.10 -

Locking access port caps. "Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps."

#### International Residential Code M1411.6 -

Locking access port caps. "Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps."

# NOVENT® Locking Refrigerant Caps

# Dual protection One simple screw-on installation.

NOVENT® locking caps seal standard Schraeder service valves on all central AC units and minisplits to help prevent refrigerant leakage. Novent provides dual protection with a single screw-on installation. Safe guard your AC system's efficiency and the environment from lost or accidental mixing of refrigerant gases. Help protect children from serious injury or death resulting from the inhalation of dangerous refrigerants.

Patented Novent Caps are precision machined from high grade brass surrounded by a protective aluminum shroud and can only be installed and removed with a special tool.

- Integral neoprene O-ring resists oils & sealants
- Integral torque limiter prevents overtightening
- Resists crushing & removal without key
- Corrosion resistant
- Selection of installation tools available



SILVER universal caps are for commonly used refrigerants.

R22 & R410 color coded caps and embossed ID prevent refrigerant gas mixing.

RS # (ref. #) Description QTY  
Pink R410 Cap 1/4" Thread

86682 (NP-R410) 2PK	2 cap blister pack
86681 (NP-R410) 10PK	10 cap blister pack
86683 (NP-R410) 50PK	50 cap blister pack

Green R22 Cap 1/4" Thread

86662 (NG-R22) 2PK	2 cap blister pack
86661 (NG-R22) 10PK	10 cap blister pack
86663 (NG-R22) 50PK	50 cap box

Euro Pink R410 cap 5/16" Thread

86672 (NPE-R410) 2PK	2 cap blister pack
86671 (NPE-R410) 10PK	10 cap blister pack
86673 (NPE-R410) 50PK	50 cap box

Silver Cap - any gas 1/4" Thread

86692 (NS-UNI) 2PK	2 cap blister pack
86691 (NS-UNI) 10PK	10 cap blister pack
86693 (NS-UNI) 50PK	50 cap box

Starter Pack assortments

86668 (NG-STARTPAK)	(3) R22, (3) R410 caps & (1) Multi key
86680 (NP-STARTPAK)	(6) R410 caps & (1) Multi key
86690 (NS-STARTPAK)	(6) UNI caps & (1) Multi key

Multikey unlocks all caps

86698 (NV MULTI-KEY) 20PK	1 Multi key blister pack
---------------------------	--------------------------

Screwdriver key unlocks Pink & Euro Pink caps

86688 (NP-R410 SDT) 20PK	1 screwdriver
--------------------------	---------------

Screwdriver key unlocks Green & Silver caps

86660 (NG-R22-SDT) 20PK	1 screwdriver
-------------------------	---------------

Caps available in blister packs of 2 or 10 & box of 50.

NOVENT® products are available only to licensed refrigerant technicians and authorized personnel. They are distributed exclusively through HVACR distributors worldwide.



RS #	DESCRIPTION	QTY
97622	SS 610 E	12

- Designed for mini split systems • For installation directly on primary drain pan or clipped to coil above primary drain pan • Multi-voltage • Can be wired in both normally open & normally closed systems



### FEATURES

- Sensor connects to indoor mini split units
- Attaches to pan or coil with unique bracket
- Onboard LED indicator can be mounted to side of unit
- No batteries required
- Patent Pending



### FEATURES

- Dual sensors
- Simple 2-wire design
- Onboard LED indicator
- Connect to either red or yellow wire

RS #	DESCRIPTION	QTY
97692	SS 103 E	24

- For primary drain line and auxiliary drain pan or primary drain line and auxiliary drain outlet • Can be installed horizontally or vertically or inline • Onboard LED indicates the condition of the unit at a glance • No moving parts



### FEATURES

- Commercial rooftop downflow units
- Plenum rated wire
- Simple 2-wire design
- Onboard LED indicator
- Connect to either red or yellow wire

RS #	DESCRIPTION	QTY
97693	SS 500 EP	24

- Install on primary drain pan when plenum rating is needed • Small size and slim profile great for use on commercial rooftop downflow units



### FEATURES

- Works in any position directly in the secondary drain pan
- Universal puck works in all secondary drain pans
- Onboard LED indicator

RS #	DESCRIPTION	QTY
97695	SS 700 E	24

- Designed to sit directly in a secondary drain pan, eliminating screws and clips • Multiple position option for the sensor and provides adjustable heights • Great for use in plastic overflow pans with round edges



# Surface Mounted Monobloc Kits



**Lime**  
S E R I E S

## Mini & Maxi pump kits

Original elbow pump. Quick installation. Completely reversible.



(Patent No. 6,976,367)

RS # (ref. #)	LINESET KIT	POWER SUPPLY & CONSUMPTION			WT LBS.
<b>UNIVERSAL VOLTAGE MINI KITS</b>					
83849 (ASP-ML-UNI)	Slimline Ivory	100-250 VAC	.10-.16A	16W	4
83859 (ASP-MLF-UNI)	Fortress White	100-250 VAC	.10-.16A	16W	4
<b>SILENT PLUS MINI KITS</b>					
83851 (ASP-ML-115-SP)	Slimline Ivory	115 VAC	.16A	13.5W	4
83852 (ASP-ML-230-SP)	Slimline Ivory	230 VAC	.10A	15W	4
83860 (ASP-MLF-115-SP)	Fortress White	115 VAC	.16A	13.5W	4
83861 (ASP-MLF-230-SP)	Fortress White	230 VAC	.10A	15W	4
<b>MAXI KITS</b>					
83830 (ASP-MAXLF-115)	Fortress White	115 VAC	.23A	18W	4
83831 (ASP-MAXLF-230)	Fortress White	230 VAC	.10A	15W	4
<b>OEM MINI KITS</b>					
83842 (ASP-MLOEM-115)	No Duct	115 VAC	.16A	13.5W	2
83843 (ASP-MLOEM-230)	No Duct	230 VAC	.10A	15W	2
<b>OEM MAXI KITS</b>					
83834 (ASP-MAXOEM-115)	No Duct	115 VAC	.16A	13.5W	2
83835 (ASP-MAXOEM-115)	No Duct	230 VAC	.10A	15W	2

Duty Cycle:  
Mini - continuous  
Maxi - 66% 10 mins on / 5 mins off

Capacity:  
Mini - 3.2 GPH @ zero head  
0.8 GPH @ 33ft head  
Up to 30,000 BTU/hr

Maxi - 10 GPH @ zero head  
3.8 GPH @ 49ft head  
Up to 60,000 BTU/hr

Maximum head: Mini - 33ft Maxi - 49ft

Maximum water temp: 104° F

Sound level: Mini - 26dB(A) Maxi - 35dB(A)  
Silent Plus - 21dB(A)



**White**  
S E R I E S

## Mini pump kits

Monobloc pump assembly. Surface mounts directly below evaporator.



RS # (ref. #)	LINESET KIT	POWER SUPPLY & CONSUMPTION			WT LBS.
<b>UNIVERSAL VOLTAGE KITS</b>					
83939 (ASP-MW-UNI)		100-250 VAC	.11-.18A	16W	2
<b>MINI KITS</b>					
83931 (ASP-MW-115)		115 VAC	.18A	15W	2
83932 (ASP-MW-230)		230 VAC	.11A	16W	2

Duty Cycle: Continuous

Capacity:  
2.8 GPH @ zero head  
0.8 GPH @ 33ft head  
Up to 30,000 BTU/hr

Maximum head: 33ft

Maximum water temp: 104° F

Sound level: 25dB(A)



For Submittal Data Sheets, visit  
[www.rectorseal.com/qr/epsub.html](http://www.rectorseal.com/qr/epsub.html)  
or scan this code.

ASPEN® is a registered trademark of Aspen Oldco Limited Company UK  
Mini White is a registered trademark of Aspen Pumps Limited Company UK

# Two-Component Split-Type Concealed Condensate Pump Kits



## Aqua SERIES

### Mini pump kits

Ultra-slim profile. Fits inside evaporator or lineset cover.



RS # (ref. #)	POWER SUPPLY & CONSUMPTION			WT LBS.
<b>UNIVERSAL VOLTAGE KITS</b>				
83809 (ASP-MA-UNI)	100-250 VAC	.07-13A	16W	2
<b>SILENT PLUS KITS</b>				
83811 (ASP-MA-115-SP)	115 VAC	.13A	15W	2
83812 (ASP-MA-230-SP)	230 VAC	.07A	16W	2

**Duty Cycle:**  
50% duty cycle  
5 mins on / 5 mins off

**Capacity:**  
3.7 GPH @ zero head,  
0.8 GPH @ 33ft head  
Up to 24,000 BTU/hr

**Maximum head:** 33ft  
Maximum water temp: 104° F  
**Suction lift:** 5ft  
**Sound level:** Mini - 24dB(A)  
Silent Plus - 19dB(A)



## Orange SERIES

### Mini & Maxi pump kits

Installation flexibility. Proven reliability.



RS # (ref. #)	POWER SUPPLY & CONSUMPTION			WT LBS.
<b>UNIVERSAL VOLTAGE MINI KITS</b>				
83909 (ASP-MO-UNI)	100-250 VAC	.11-18A	16W	2
<b>SILENT PLUS MINI KITS</b>				
83911 (ASP-MO-115-SP)	115 VAC	.18A	15W	2
83912 (ASP-MO-230-SP)	230 VAC	.11A	16W	2
<b>MAXI KITS</b>				
83901 (ASP-MAXO-115)	115 VAC	.28A	21W	2
83902 (ASP-MAXO-230)	230 VAC	.15A	21W	2

**Duty Cycle:**  
Mini - continuous  
Maxi - 50% 5 mins on / 5 mins off

**Capacity:**  
Mini - 3.2 GPH @ zero head  
0.8 GPH @ 33ft head  
Up to 24,000 BTU/hr  
Maxi - 10 GPH @ zero head  
3.8 GPH @ 50ft head  
Up to 60,000 BTU/hr

**Maximum head:**  
Mini - 33ft Maxi - 50ft  
Maximum water temp: 104° F  
**Suction lift:** 5ft  
**Sound level:**  
Mini - 26dB(A) Maxi - 35dB(A)  
Silent Plus - 19dB(A)



## Purple SERIES

### Mechanical & Universal Peristaltic pump kits

The ideal condensate pump for remote location applications.



RS # (ref. #)	POWER SUPPLY & CONSUMPTION			WT LBS.
<b>UNIVERSAL SENSOR KITS</b>				
83965 (ASP-PERI-UNI-115)	115 VAC	.20A	46W	6
83966 (ASP-PERI-UNI-230)	230 VAC	.20A	46W	6
<b>MECHANICAL SENSOR KITS</b>				
83963 (ASP-PERI-MECH-115)	115 VAC	.20A	46W	6
83964 (ASP-PERI-MECH-230)	230 VAC	.20A	46W	6
<b>PERI REPLACEMENT TUBE</b>				
83892 (ASP-PERITUBE)				

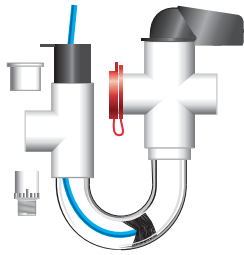
**Duty Cycle:**  
100% - continuous  
**Capacity:**  
1.65 GPH @ 39ft head,  
Up to 24,000 BTU/hr

**Maximum head:** 39ft  
Maximum water temp: 104° F  
**Suction lift:** 10ft  
**Sound level:** 47dB(A)



## SmartTrap™ Kits

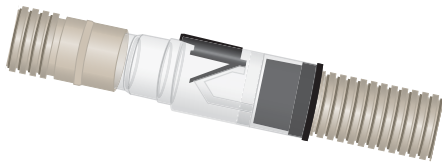
Float switch overflow protection. Clear cleanable trap.



RS #	DESCRIPTION	SIZE
83210	EZT-210	3/4"

Standard SmartTrap kit  
Fits most applications requiring automatic shut down.  
10 per carton.  
Includes: 3/4" Standard Trap, 3/4" cross, 3/4" red cap, 1" x 3/4" bushing, 3/4" tee, 3/4" black stub, 3/4" male adapter, float switch assembly, 48" cable, cleaning brush, 1" drop

## UltraTrap™ Waterless Condensate Traps



RS #	DESCRIPTION	SIZE
83180	EZT-180	5/8"

Mini waterless in-line trap  
Sized for use in ductless mini-split applications. Use on any mini-split evaporator with gravity drain.  
Permits free condensate flow while blocking odors, noise and insects. Freeze resistant. Only 2-3/4" long. 10 per carton.  
Includes: 5/8" MiniTrap, 9/16" adapter



## Mini-Split Condensate Drain Hose and Fittings



RS# (ref. #)	Description
83001 (DH-14)	14mm (9/16") drain hose 164' coil lite
83003 (DH-16S)	16mm (5/8") drain hose 20' coil standard
83002 (DH-16)	16mm (5/8") drain hose 164' coil standard
83004 (DHQ-16)	16mm (5/8") UV resistant drain hose 164' coil outdoor
83005 (DSB-16)	16mm (5/8") smooth bore drain hose 65' coil
83006 (DSB-20)	20mm (3/4") smooth bore drain hose 65' coil
83011 (DSH-14)	14mm (9/16") drain hose 65' coil insulated
83012 (DSH-20N)	20mm (3/4") drain hose 65' coil insulated
83013 (DSH-25N)	25mm (1") drain hose 65' coil insulated
83022 (DY-16)	Vented drain WYE 5/8"
83020 (DSH-14-16V)	Pipe adaptor dsh14 or dh16 hose to 3/4" PVC
83021 (DSH-14J)	14mm (9/16") coupler for dsh14 hose
83023 (DSH-20NJ)	20mm (3/4") coupler for dsh20 hose
83024 (DSH-20NV)	Pipe adaptor for dsh20 hose to 3/4" PVC
83016 (HN-75-I)	UV resistant non adhesive wrap 3" x 70'
83017 (NFP-75)	Wall sleeve 3"x5"-7"
83015 (FPS-65)	5° Inclined wall sleeve 2-1/2" x up to 8"
83028 (DHJ-14)	1/2" Drain hose coupler standard
83029 (DHJ-16)	5/8" Drain hose coupler standard
83031 (DSH-14C)	Insulated A/C drain hose adapter coupling
87795 (CAB-14450)	Minisplit interconnect cable 4/C 14 gauge shielded 50ft
87790 (CAB-144100)	Minisplit interconnect cable 4/C 14 gauge shielded 100ft

### STANDARD HOSE

Corrugated construction provides maximum flexibility, eliminates crimping; interior use only.

### Smooth Bore

Resists clogging, reduces resistance and maximizes condensate flow, less flexible than standard hose.

### UV Resistant

Resists deterioration from Sunlight, suitable for exterior applications.

### Insulated

Eliminates sweating that can occur in dead airspace.

# INABA DENKO® SLIMDUCT®

Lineset Ducting System

## Lineset Covers

Attractive wall mounted ducting system  
for residential & light commercial linesets.

SlimDuct: • Heavy weight professional grade • Gloss finish

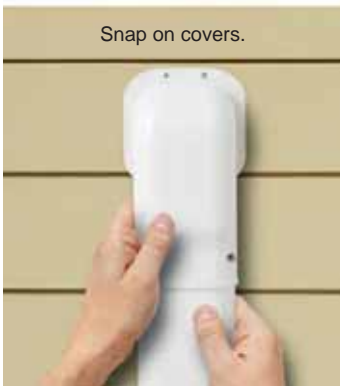
- 3 sizes. 3 1/2", 4" and 5 1/2"
- 3 colors. Choose white, ivory or brown.
- 15 fittings. Assures complete flexibility of installation
- 78" lengths. 5 lengths per box
- 10 fittings per box.
- 1 year warranty.



# SLIMDUCT®

## Lineset Ducting System

### Quick Installation



**Application.** Slimduct® is perfect for minisplits, high velocity and conventional ducted split air conditioning systems.

**Strong.** Slimduct® ducting is extruded with our special formula rigid polyvinyl chloride. Slimduct is UV, weather & fire resistant, with a temperature range from -4°F to 140°F. The result is a long lasting quality product that will remain attractive and provide protection for many years.

**Protective.** Slimduct® protects lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

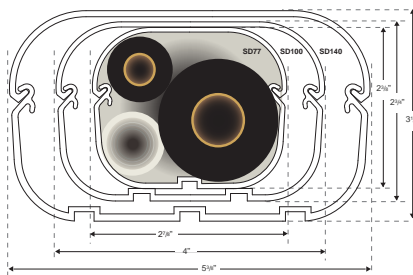
**Easy to install.** Slimduct® installs quickly, and can be easily accessed for repairs or replacement of the lineset.

**Stylish.** Slimduct® offers three duct sizes. Each size is available in three neutral colors - white, ivory and brown. Slimduct colors are designed to compliment any natural stone, brick, wood, stucco, vinyl or painted facade, and can be used for both residential or commercial installations.

### Technical Information

**Weather Resistance**  
Weather resistant PVC, UV stabilized & fire resistant. Tested to over 2,000 hours.

**Temperature Range**  
-4°F to 140°F



### Size Specifications

Choose duct size  
SD77, SD100 or SD146.

## 3 Colors for Residential & Commercial Applications

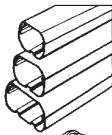



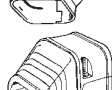
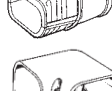

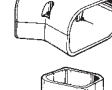







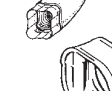




SLIMDUCT is a registered trademark of Inaba Denki Sangyo Co.

# SLIMDUCT®

Lineset Ducting System

## Ordering Information

	RS# (ref. #) White	RS# (ref. #) Ivory	RS# (ref. #) Brown	Description	L	W	H
	85004 (SD-77-W)	85024 (SD-77-I)	85064 (SD-77-B)	SD Slimduct 78" length 77	78"	2 7/8"	2 3/8"
	85104 (SD-100-W)	85124 (SD-100-I)	85164 (SD-100-B)	SD Slimduct 78" length 100	78"	4"	2 3/4"
	85204 (SD-140-W)	85224 (SD-140-I)	85264 (SD-140-B)	SD Slimduct 78" length 140	78"	5 3/8"	3 1/4"
	86010 (SJ-77-W)	86030 (SJ-77-I)	85370 (SJ-77-B)	SJ coupler 77	2"	3 3/8"	2 5/8"
	86110 (SJ-100-W)	86130 (SJ-100-I)	85470 (SJ-100-B)	SJ coupler 100	2 1/2"	4 1/4"	3"
	86210 (SJ-140-W)	86230 (SJ-140-I)	85570 (SJ-140-B)	SJ coupler 140	3 1/2"	5 3/4"	3 3/8"
	86016 (SW-77-W)	86036 (SW-77-I)	85376 (SW-77-B)	SW wall inlet 77	8"	4 3/8"	3"
	86116 (SW-100-W)	86136 (SW-100-I)	85476 (SW-100-B)	SW wall inlet 100	8 3/4"	5"	3 3/8"
	85216 (SW-140-W)	85236 (SW-140-I)	85576 (SW-140-B)	SW wall inlet 140	11"	6 1/2"	3 3/8"
	85014 (SP-77-W)	85034 (SP-77-I)	85374 (SP-77-B)	SP soffit inlet 77	5 1/8"	4 3/8"	5 1/8"
	86114 (SP-100-W)	86134 (SP-100-I)	85474 (SP-100-B)	SP soffit inlet 100	5 5/8"	5 3/8"	5 5/8"
	85214 (SP-140-W)	85234 (SP-140-I)	85574 (SP-140-B)	SP soffit inlet 140	5 3/4"	6 7/8"	5 3/4"
	86007 (SE/SEN-77-W)	86027 (SE/SEN-77-I)	85367 (SE/SEN-77-B)	SEN end fitting 77	1 3/4"	3 1/4"	2 5/8"
	86107 (SEN-100-W)	86127 (SEN-100-I)	85467 (SEN-100-B)	SEN end fitting 100	4 1/2"	4 1/4"	3"
	86207 (SEN-140-W)	86227 (SEN-140-I)	85567 (SEN-140-B)	SEN end fitting 140	6"	5 3/4"	3 3/8"
	86011 (SK-77-W)	86031 (SK-77-I)	85371 (SK-77-B)	SK 90° flat ELL 77	5"	2 5/8"	5"
	86111 (SK-100-W)	86131 (SK-100-I)	85471 (SK-100-B)	SK 90° flat ELL 100	6"	3"	6"
	85211 (SK-140-W)	85231 (SK-140-I)	85571 (SK-140-B)	SK 90° flat ELL 140	7 1/2"	3 3/8"	7 1/2"
	85012 (SKF-77-W)	85032 (SKF-77-I)	85372 (SKF-77-B)	SKF 45° flat ELL 77	4 1/2"	3 1/4"	2 5/8"
	86112 (SKF-100-W)	86132 (SKF-100-I)	85472 (SKF-100-B)	SKF 45° flat ELL 100	5 1/4"	4 1/4"	3"
	85212 (SKF-140-W)	85232 (SKF-140-I)	85572 (SKF-140-B)	SKF 45° flat ELL 140	6 1/4"	5 3/4"	3 3/8"
	86002 (SC-77-W)	86022 (SC-77-I)	85362 (SC-77-B)	SC 90° vertical ELL 77	4"	3 1/4"	4"
	86102 (SC-100-W)	86122 (SC-100-I)	85462 (SC-100-B)	SC 90° vertical ELL 100	4 5/8"	4 1/4"	4 5/8"
	85202 (SC-140-W)	85222 (SC-140-I)	85562 (SC-140-B)	SC 90° vertical ELL 140	5"	5 3/4"	5"
	85000 (SCF-77-W)	85020 (SCF-77-I)	85360 (SCF-77-B)	SCF 45° vertical ELL 77	4 1/8"	3 1/4"	2 5/8"
	86100 (SCF-100-W)	86120 (SCF-100-I)	85460 (SCF-100-B)	SCF 45° vertical ELL 100	4 5/8"	4 1/4"	3"
	85200 (SCF-140-W)	85220 (SCF-140-I)	85560 (SCF-140-B)	SCF 45° vertical ELL 140	4 5/8"	5 3/4"	3 3/8"
	86015 (ST-77-W)	86035 (ST-77-I)	85375 (ST-77-B)	ST TEE 77	6 1/2"	4 7/8"	2 5/8"
	86115 (ST-100-W)	86135 (ST-100-I)	85475 (ST-100-B)	ST TEE 100	7 1/8"	6"	3"
	85215 (ST-140-W)	85235 (ST-140-I)	85575 (ST-140-B)	ST TEE 140	9 1/8"	7 7/8"	3"
	85106 (SDR-100-77-W)	85126 (SDR-100-77-I)	85466 (SDR-100-77-B)	SDR reducer 100-77	2 1/2"	4 1/4"	3"
	86206 (SDR-140-100-W)	86226 (SDR-140-100-I)	85566 (SDR-140-100-B)	SDR reducer 140-100	4"	5 3/4"	3 3/8"
	85119 (SJA-100-W)	85139 (SJA-100-I)	85479 (SJA-100-B)	SJA rear entry coupler 100	5 5/8"	4 1/4"	3"
	86219 (SJA-140-W)	86299 (SJA-140-I)	85579 (SJA-140-B)	SJA rear entry coupler 140	6 3/8"	5 3/8"	3 1/4"
	86018 (SIF-77-W)	86038 (SIF-77-I)	85378 (SIF-77-B)	SIF 2" fixed offset 77	7 1/8"	3 1/4"	3 1/4"
	86118 (SIF-100-W)	86138 (SIF-100-I)	85478 (SIF-100-B)	SIF 2" fixed offset 100	7 1/8"	4 1/4"	4 1/4"
	85008 (SF-77-500-W)	85028 (SF-77-500-I)	85368 (SF-77-500-B)	SF flexible ELL 20" length 77-500	19 1/2"	3"	2 1/2"
	86108 (SF-100-100-W)	86128 (SF-100-100-I)	86468 (SF-100-100-B)	SF flexible ELL 31" length 100-800	31 1/2"	4"	2 3/4"
	85208 (SF-140-800-W)	85228 (SF-140-800-I)	85568 (SF-140-800-B)	SF flexible ELL 31" length 140-800	31 1/2"	5 3/4"	3 3/8"
	-	85188 (SF-77-1000-I)	-	SF flexible ELL 39" length ivory 77-1000	2 3/4"	3"	2 1/2"
	85009 (SFJ-77-W)	85029 (SFJ-77-I)	85369 (SFJ-77-B)	SFJ flexible adaptor 77	1 3/8"	3 1/4"	3 1/4"
	85109 (SFJ-100-W)	85129 (SFJ-100-I)	85469 (SFJ-100-B)	SFJ flexible adaptor 100	1 1/2"	4 1/4"	4 1/4"
	86105 (SWC-100-W)	86125 (SWC-100-I)	-	SD 3.75" Slim wall flange 100	5 5/8"	1 5/8"	6 7/8"
	85205 (SWC-140-W)	85225 (SWC-140-I)	-	SD 5.5" Slim wall flange 140	7 1/8"	1 5/8"	8 3/8"
	86005 (SWC-77-W)	86025 (SWC-77-I)	-	SD 2.75" Slim wall flange 77	4 1/2"	1 5/8"	5"
	86117 (SWM-100-W)	86137 (SWM-100-I)	85477 (SWM-100-B)	SD 3.75" Flanged wall inlet 100	6 1/2"	3 3/4"	8 1/2"
	86017 (SWM-77-W)	86037 (SWM-77-I)	85377 (SWM-77-B)	SD 2.75" Flanged wall inlet 77	5 3/4"	3 1/3"	7 3/8"
	85080 (SN-77-W)	85085 (SN-77-I)	85395 (SN-77-B)	SD 2.75" Twist ELL 77	5 1/2"	5 1/2"	3 3/16"
	86001 (SFS-77)	-	-	SFS saddle for flexible ELL (stainless steel) 77	1 3/8"	3 1/4"	2 1/2"
	86101 (SFS-100)	-	-	SFS saddle for flexible ELL (stainless steel) 100	1 1/2"	3 1/4"	3"
	86201 (SFS-140)	-	-	SFS saddle for flexible ELL (stainless steel) 140	1 1/2"	4 1/4"	3"
	86299 (SL-300)	-	-	SL strap kit for line sets	-	-	-



## Lineset Covers

**Professional grade ducting, protects and hides unsightly mini-split linesets in a snap!**

Fortress: • Standard professional grade • Satin finish • More moderate price point

- 2 sizes. Duct & fittings are available in both 3<sup>1</sup>/<sub>2</sub>" or 4<sup>1</sup>/<sub>2</sub>"
- 4 colors. Choose white, ivory, brown or gray.
- 17 fittings. Assures complete flexibility of installation.
- 8' lengths. 6 lengths per box
- 6 fittings per box. Efficient ordering and inventory.
- 1 year warranty.



## 3-Step Installation



Step 1. Secure base



Step 2. Place lineset



Step 3. Clip on covers



Traditional      Fortress

**Application.** Fortress® is perfect for minisplits, high velocity and conventional split air conditioning systems.

**Strong.** Fortress® ducting is extruded with our special formula rigid polyvinyl chloride, which is UV and weather resistant. The result is a long lasting quality product that will remain attractive and provide protection for many years.

**Protective.** Fortress® protects lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

**Easy to install.** Fortress® installs quickly, and can be easily accessed for repairs or replacement of the lineset.

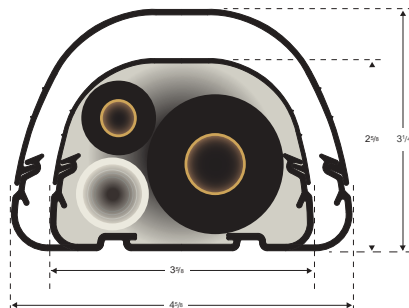
**Stylish.** Fortress® eliminates unsightly lineset used in a typical installation. Ducting is available in two lineset sizes and four neutral colors - white, ivory, brown and gray to compliment any residential or commercial building.

**Paintable.** Brush, spray or roller to match or compliment custom colors. Follow paint manufacturers recommendations for vinyl products.

### Technical Information

**Weather Resistance**  
Weather resistant PVC,  
UV stabilized & fire resistant.  
Tested to over 2,000 hours.

**Temperature Range**  
-4°F to 140°F



### Size Specifications

Choose duct size  
LD92 or LD122

## 4 Colors for Residential & Commercial Applications



White



Ivory




















Gray



Brown



# Ordering Information

	RS# (ref. #) White	RS# (ref. #) Ivory	RS# (ref. #) Brown	RS# (ref. #) Gray	Description	L	W	H
	84004 (LD-92-W)	84024 (LD-92-I)	84064 (LD-92-B)	84044 (LD-92-G)	LD92 3 1/2 Ducting	96"	3 5/8"	2 5/8"
	84104 (LD-122-W)	84124 (LD-122-I)	84164 (LD-122-B)	84144 (LD-122-G)	LD122 4 1/2 Ducting	96"	4 5/8"	3 1/4"
	84010 (LJ-92-W)	84030 (LJ-92-I)	84270 (LJ-92-B)	84250 (LJ-92-G)	LJ92 3 1/2 Coupler	2 5/8"	3 7/8"	2 3/4"
	84110 (LJ-122-W)	84130 (LJ-122-I)	84370 (LJ-122-B)	84350 (LJ-122-G)	LJ122 4 1/2 Coupler	2 5/8"	4 7/8"	3 1/2"
	84016 (LW-92-W)	84036 (LW-92-I)	84276 (LW-92-B)	84256 (LW-92-G)	LW92 3 1/2 Wall Inlet	9"	4 3/8"	3 1/8"
	84116 (LW-122-W)	84136 (LW-122-I)	84376 (LW-122-B)	84356 (LW-122-G)	LW122 4 1/2 Wall Inlet	9 3/4"	5 3/8"	4"
	84007 (LEN-92-W)	84027 (LEN-92-I)	84267 (LEN-92-B)	84247 (LEN-92-G)	LEN92 3 1/2 End Fitting	4 1/4"	3 7/8"	2 3/4"
	84107 (LEN-122-W)	84127 (LEN-122-I)	84367 (LEN-122-B)	84347 (LEN-122-G)	LEN122 4 1/2 End Fitting	4 1/4"	4 7/8"	3 1/2"
	84011 (LK-92-W)	84031 (LK-92-I)	84271 (LK-92-B)	84251 (LK-92-G)	LK92 3 1/2 90° Flat Ell	5 3/4"	5 3/4"	2 3/4"
	84111 (LK-122-W)	84131 (LK-122-I)	84371 (LK-122-B)	84351 (LK-122-G)	LK122 4 1/2 90° Flat Ell	6 1/4"	6 1/2"	3 1/2"
	84014 (LP-92-W)	84034 (LP-92-I)	84274 (LP-92-B)	84254 (LP-92-G)	LP92 3 1/2 Soffit Inlet	3 1/2"	6"	4 7/8"
	84114 (LP-122-W)	84134 (LP-122-I)	84374 (LP-122-B)	84354 (LP-122-G)	LP122 4 1/2 Soffit Inlet	3 1/2"	7"	5 1/2"
	84012 (LKF-92-W)	84032 (LKF-92-I)	84272 (LKF-92-B)	84252 (LKF-92-G)	LKF92 3 1/2 45° Flat Ell	4 7/8"	4 7/8"	2 3/4"
	84112 (LKF-122-W)	84132 (LKF-122-I)	84372 (LKF-122-B)	84352 (LKF-122-G)	LKF122 4 1/2 45° Flat Ell	6 1/2"	6 1/2"	3 1/2"
	84002 (LCI-92-W)	84022 (LCI-92-I)	84262 (LCI-92-B)	84242 (LCI-92-G)	LCI92 3 1/2 90° Inside Vertical Ell	5 1/4"	5 1/4"	2 3/4"
	84102 (LCI-122-W)	84122 (LCI-122-I)	84362 (LCI-122-B)	84342 (LCI-122-G)	LCI122 4 1/2 90° Inside Vertical Ell	5 1/4"	5 1/4"	3 1/2"
	84003 (LCO-92-W)	84023 (LCO-92-I)	84263 (LCO-92-B)	84243 (LCO-92-G)	LCO92 3 1/2 90° Outside Vertical Ell	4 1/2"	4 1/2"	2 3/4"
	84103 (LCO-122-W)	84123 (LCO-122-I)	84363 (LCO-122-B)	84343 (LCO-122-G)	LCO122 4 1/2 90° Outside Vertical Ell	5 1/4"	5 1/4"	3 1/2"
	84000 (LCFI-92-W)	84020 (LCFI-92-I)	84260 (LCFI-92-B)	84240 (LCFI-92-G)	LCFI92 3 1/2 45° Inside Vertical Ell	4 3/4"	3 7/8"	2 3/4"
	84100 (LCFI-122-W)	84120 (LCFI-122-I)	84360 (LCFI-122-B)	84340 (LCFI-122-G)	LCFI122 4 1/2 45° Inside Vertical Ell	6 1/4"	4 7/8"	3 1/2"
	84001 (LCFO-92-W)	84021 (LCFO-92-I)	84261 (LCFO-92-B)	84241 (LCFO-92-G)	LCFO92 3 1/2 45° Outside Vertical Ell	4 5/8"	3 7/8"	2 3/4"
	84101 (LCFO-122-W)	84121 (LCFO-122-I)	84361 (LCFO-122-B)	84341 (LCFO-122-G)	LCFO122 4 1/2 45° Outside Vertical Ell	5 1/4"	4 7/8"	3 1/2"
	84015 (LT-92-W)	84035 (LT-92-I)	84275 (LT-92-B)	84255 (LT-92-G)	LT92 3 1/2 Tee	7 3/4"	5 3/4"	2 3/4"
	84115 (LT-122-W)	84135 (LT-122-I)	84375 (LT-122-B)	84355 (LT-122-G)	LT122 4 1/2 Tee	7 3/4"	6 1/2"	3 1/2"
	84106 (LDR-12292-W)	84126 (LDR-12292-I)	84366 (LDR-12292-B)	84346 (LDR-12292-G)	LDR12292 4 1/2-3 1/2 Reducer	3"	4 7/8"	3 7/8"
	84013 (LKS-92-W)	84033 (LKS-92-I)	84273 (LKS-92-B)	84253 (LKS-92-G)	LKS92 3 1/2 90° Sweep Ell	13"	13"	2 3/4"
	84113 (LKS-122-W)	84133 (LKS-122-I)	84373 (LKS-122-B)	84353 (LKS-122-G)	LKS122 4 1/2 90° Sweep Ell	14"	14"	3 1/2"
	84008 (LF-92-W)	84028 (LF-92-I)	84268 (LF-92-B)	84248 (LF-92-G)	LF92 3 1/2 Flexible Ell	40"	3 1/2"	2 1/2"
	84108 (LF-122-W)	84128 (LF-122-I)	84368 (LF-122-B)	84348 (LF-122-G)	LF122 4 1/2 Flexible Ell	40"	4 1/2"	3 1/4"
	84009 (LFJ-92-W)	84029 (LFJ-92-I)	84269 (LFJ-92-B)	84249 (LFJ-92-G)	LFJ92 3 1/2 Flexible Adaptor	3 1/8"	3 7/8"	2 3/4"
	84109 (LFJ-122-W)	84129 (LFJ-122-I)	84369 (LFJ-122-B)	84349 (LFJ-122-G)	LFJ122 4 1/2 Flexible Adaptor	3 1/8"	4 7/8"	3 1/2"
	84017 (LWF-92-W)	84037 (LWF-92-I)	84277 (LWF-92-B)	84257 (LWF-92-G)	LWF92 3 1/2 Wall Flange	5"	6"	2 1/8"
	84117 (LWF-122-W)	84137 (LWF-122-I)	84377 (LWF-122-B)	84357 (LWF-122-G)	LWF122 4 1/2 Wall Flange	6 1/2"	7 3/4"	2 5/8"



# Universal Mounting Brackets for Mini-Split Condensers



H = 18"  
W = 33 1/2"  
D = 22" WBB500 = 24"



H = 31 1/4"  
W = 39 1/2"  
D = 20 1/4"

RS # (ref. #)	DESCRIPTION	WT LBS.
87733 (WBB300)	WALL BRACKET	11
87734 (WBB300SS)	WALL BRACKET	14
87735 (WBB500)	WALL BRACKET	14

RS # (ref. #)	DESCRIPTION	WT LBS.
87732 (PCK30)	HEAVY DUTY WALL BRACKET	30

Sliding cross bar gives this bracket an exceptional equipment width range. Available in stainless steel. Includes level for convenience.

**Finish:**

WBB300 - Powdercoat  
WBB300SS - Stainless  
WBB500 - Powdercoat

**Min/Max mounting width:**  
9 3/4" - 30"

**Min/Max mounting depth:**  
10 1/2" - 16"

**Max load capacity:**  
WBB300/WBB300SS - 300 lbs  
WBB500 - 500 lbs

This bracket includes extra integral cross bracing for the ultimate in stability.

**Finish:** Galvanized

**Min/Max mounting width:**  
15 3/4" - 35 1/4"

**Min/Max mounting depth:**  
9 3/4" - 15"

**Max load capacity:** 330 lbs



H = 22"  
W = 39 1/2"  
D = 22"



87741	87744
H = 36 1/4"	H = 36 1/4"
W = 15 1/2"	W = 17"
D = 32"	D = 36"

87741 (CBYW3)	DUPLEX STAND	24
87744 (CWGL)	DUPLEX STAND	24

87745 (WRB250)	SLOPE STAND	13
----------------	-------------	----

Securely mounts two condenser units, one above the other. Includes anti-slip rubber feet.

**Finish:** Powdercoat

**Min/Max mounting width:**  
CBYW3 - 11 7/8" - 27 1/2"  
CWGL - 15 3/4" - 31 1/2"

**Min/Max mounting depth:**  
CBYW3 - 6 1/4" - 13 3/8"  
CWGL - 7 7/8" - 15"

**Max weight capacity:**  
CBYW3 - 76 lbs x 2  
CWGL - 176 lbs x 2

Adjustable bracket follows roof slope up to 45 degrees or 12 inch pitch providing a level mounting surface. Includes level.

**Finish:** Powdercoat

**Min/Max mounting width:**  
6" - 35"

**Min/Max mounting depth:**  
10" - 19"

**Max weight capacity:** 250 lbs



H = 11 1/4"  
W = 29 1/2"  
D = 16 3/4"



87743	87746
H = 4-12 1/4"	H = 12 1/2"
W = 31 3/4"	W = 48 3/4"
D = 15"	D = 21"

87743 (CNG)	SLAB STAND	11
87746 (PCNG63)	SLAB STAND	32

Raises condenser up above a flat surface. Each leg is independently adjustable for uneven surfaces. Anti-slip rubber feet.

**Finish:** 87743 - Powdercoat  
87746 - Galvanized

**Min/Max mounting width:**  
87743 - 11 3/4" - 27 1/2"

87746 - 28 3/4" - 38 1/2"

**Min/Max mounting depth:**  
87743 - 6 1/4" - 13 1/4"  
87746 - 23 1/4" - 30 1/4"

**Max weight capacity:**  
87743 - 176 lbs  
87746 - 440 lbs

87731 (CBZG)	UNDER WINDOW BRACKET	9
--------------	----------------------	---

A top cross bar allows this bracket to be installed under a window or other obstacle. Ideal for window type air conditioner support.

**Finish:** Galvanized

**Min/Max mounting width:**  
11 3/4" - 27 1/2"

**Min/Max mounting depth:**  
6 1/4" - 13"

**Max load capacity:** 176 lbs



H = 28 1/2"  
W = 31 1/2"  
D = 20"

87742 (CDF)	UNDER SLAB HANGER BRACKET	12
-------------	---------------------------	----

Permits condenser to be supported under a slab, overhang or structural member.

**Finish:** Powdercoat

**Min/Max mounting width:**  
12" - 28"

**Min/Max mounting depth:**  
6" - 13"

**Max weight capacity:**  
132 lbs

# Risers

Ideal for simple and secure mounting of small and large piping systems, ductwork runs, cable trays, and smaller equipment such as condensers. Manufactured from recycled crumb rubber with a fully adjustable aluminum mounting track.

Not recommended for large equipment.



RS # (ref. #)	DESCRIPTION	WT LBS.
87772 (RMB10L)	FIX-IT-FOOT LOW 10"	2.6
87774 (RMB16L)	FIX-IT-FOOT LOW 16"	5.5

Low Profile Rubber Risers offer significant vibration isolation, and are ideal for rooftop support of equipment and systems. Aluminum linear track permits the use of standard strut hardware (not included). Underside has recessed area to permit easy leveling.

**Materials:** Recycled Crumb Rubber/Aluminum

**Max weight capacity:**

RMB10L - 356 lbs RMB16L - 572 lbs



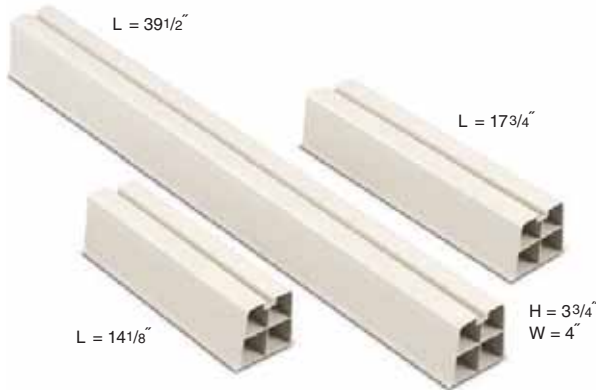
RS # (ref. #)	DESCRIPTION	WT LBS.
87771 (RMB10)	FIX-IT-FOOT 10"	8.3
87773 (RMB16)	FIX-IT-FOOT 16"	7.9
87775 (RMB24)	FIX-IT-FOOT 24"	16.5

Similar to the low profile model, these risers have additional vibration isolation due to their increased height. Their extra weight will increase stability. Aluminum channel accepts standard Unistrut hardware.

**Max weight capacity:**

RMB10 - 356 lbs RMB16 - 572 lbs RMB24 - 1045 lbs

# Light Duty Risers



RS # (ref. #)	DESCRIPTION	WT LBS.
87761 (PR-351N-I)	POLYMER RISER 14" (20)	29
87762 (PR-351N-M)	POLYMER RISER 18" (20)	41
87763 (PR-351N-L)	POLYMER RISER 39" (4)	16
87765 (PRC-351N)	END CAPS (1 pair)	1

Polymer Risers are light, durable and weather resistant. Linear track holds 3/8" hex head bolts - two 7/8" long bolts included. End caps available.

**Material:** Ivory PVC

**Max weight capacity:** PR-351N-I - 308 lbs

PR-351N-M - 397 lbs PR-351N-L - 880 lbs

# PRODUCT CODE INDEX

CODE	PAGE																		
83001	18	84007	24	84127	24	84350	24	85208	21	85572	21	86206	21	86416	12	86610	13	87701	6
83002	18	84008	24	84128	24	84351	24	85211	21	85574	21	86207	21	86417	12	86611	13	87702	6
83003	18	84009	24	84129	24	84352	24	85212	21	85575	21	86210	21	86419	12	86613	13	87703	6
83004	18	84010	24	84130	24	84353	24	85214	21	85576	21	86219	21	86420	12	86616	13	87707	6
83005	18	84011	24	84131	24	84354	24	85215	21	85579	21	86226	21	86421	12	86621	13	87711	7
83006	18	84012	24	84132	24	84355	24	85216	21	86001	21	86227	21	86425	12	86630	13	87712	7
83011	18	84013	24	84133	24	84356	24	85220	21	86002	21	86230	21	86426	12	86631	13	87713	7
83012	18	84014	24	84134	24	84357	24	85222	21	86005	21	86299	21	86427	12	86633	13	87714	7
83013	18	84015	24	84135	24	84360	24	85224	21	86007	21	86299	21	86429	12	86636	13	87721	5
83015	18	84016	24	84136	24	84361	24	85225	21	86010	21	86360	10	86438	10	86640	13	87722	5
83016	18	84017	24	84137	24	84363	24	85228	21	86011	21	86362	10	86439	10	86641	13	87723	5
83017	18	84020	24	84142	24	84366	24	85231	21	86015	21	86363	10	86460	10	86643	13	87724	5
83020	18	84021	24	84144	24	84367	24	85232	21	86016	21	86364	10	86462	10	86646	13	87725	5
83021	18	84022	24	84162	24	84368	24	85234	21	86017	21	86365	10	86463	10	86650	13	87731	25
83022	18	84023	24	84164	24	84369	24	85235	21	86018	21	86370	10	86464	10	86660	14	87732	25
83023	18	84024	24	84240	24	84370	24	85236	21	86022	21	86371	10	86465	10	86661	14	87733	25
83024	18	84027	24	84241	24	84371	24	85264	21	86025	21	86372	10	86466	10	86662	14	87734	25
83028	18	84028	24	84242	24	84372	24	85360	21	86027	21	86375	10	86468	21	86663	14	87735	25
83029	18	84029	24	84243	24	84373	24	85362	21	86030	21	86376	10	86470	10	86668	14	87741	25
83031	18	84030	24	84247	24	84374	24	85367	21	86031	21	86377	10	86471	10	86671	14	87742	25
83180	18	84031	24	84248	24	84375	24	85368	21	86035	21	86378	10	86472	10	86672	14	87743	25
83210	18	84032	24	84249	24	84376	24	85369	21	86036	21	86379	10	86475	10	86673	14	87744	25
83809	17	84033	24	84250	24	84377	24	85370	21	86037	21	86380	10	86476	10	86680	14	87745	25
83811	17	84034	24	84251	24	85000	21	85371	21	86038	21	86382	10	86477	10	86681	14	87746	25
83812	17	84035	24	84252	24	85004	21	85372	21	86100	21	86383	10	86478	10	86682	14	87761	26
83830	16	84036	24	84253	24	85008	21	85374	21	86101	21	86384	10	86479	10	86683	14	87762	26
83831	16	84037	24	84254	24	85009	21	85375	21	86102	21	86385	10	86482	10	86688	14	87763	26
83834	16	84044	24	84255	24	85012	21	85376	21	86105	21	86386	10	86483	10	86690	14	87765	26
83835	16	84064	24	84256	24	85014	21	85377	21	86107	21	86387	10	86484	10	86691	14	87771	26
83842	16	84100	24	84257	24	85020	21	85378	21	86108	21	86390	10	86485	10	86692	14	87772	26
83843	16	84101	24	84260	24	85024	21	85395	21	86110	21	86391	10	86488	10	86693	14	87773	26
83849	16	84102	24	84261	24	85028	21	85439	21	86111	21	86392	10	86490	10	86698	14	87774	26
83851	16	84103	24	84262	24	85029	21	85460	21	86112	21	86395	10	86492	10	87621	5	87775	26
83852	16	84104	24	84263	24	85032	21	85462	21	86114	21	86396	10	86497	10	87622	5	97622	15
83859	16	84106	24	84267	24	85034	21	85466	21	86115	21	86397	10	86498	10	87623	5	97692	15
83860	16	84107	24	84268	24	85064	21	85467	21	86116	21	86398	10	86499	10	87624	5	97693	15
83861	16	84108	24	84269	24	85080	21	85469	21	86117	21	86399	10	86561	10	87625	5	97695	15
83892	17	84109	24	84270	24	85085	21	85470	21	86118	21	86400	12	86562	10	87626	5		
83901	17	84110	24	84271	24	85104	21	85471	21	86120	21	86401	12	86564	10	87627	5		
83902	17	84111	24	84272	24	85106	21	85472	21	86122	21	86402	12	86565	10	87628	5		
83909	17	84112	24	84273	24	85109	21	85474	21	86125	21	86403	12	86571	10	87629	5		
83911	17	84113	24	84274	24	85119	21	85475	21	86127	21	86404	12	86572	10	87650	5		
83912	17	84114	24	84275	24	85124	21	85476	21	86128	21	86405	12	86574	10	87651	5		
83963	17	84115	24	84276	24	85126	21	85477	21	86130	21	86406	12	86575	10	87652	5		
83964	17	84116	24	84277	24	85129	21	85478	21	86131	21	86407	12	86581	10	87653	5		
83965	17	84117	24	84340	24	85139	21	85560	21	86132	21	86409	12	86582	10	87654	5		
83966	17	84120	24	84341	24	85164	21	85562	21	86134	21	86410	12	86584	10	87655	5		
84000	24	84121	24	84343	24	85188	21	85566	21	86135	21	86411	12	86585	10	87657	5		
84001	24	84122	24	84346	24	85200	21	85567	21	86136	21	86412	12	86591	10	87662	5		
84002	24	84123	24	84347	24	85202	21	85568	21	86137	21	86413	12	86592	10	87663	5		
84003	24	84124	24	84348	24	85204	21	85570	21	86138	21	86414	12	86594	10	87667	5		
84004	24	84126	24	84349	24	85205	21	85571	21	86201	21	86415	12	86595	10	87668	5		



Through the use of current technology and social media, RectorSeal provides up-to-date technical information and marketing materials.

**Company Homepage:**

An online hub of readily available resources for our full-line of specialty chemicals and tools including: product codes, MSDS and product data sheets. Promotional literature and artwork can be easily viewed. Trade show scheduling and booth information are also updated frequently.

**Social Media:**

Up to the minute information from RectorSeal regarding new products, press releases, market trends and trade articles are sent directly to your wall, time-line and mobile devices.

**Online Video:**

Watch instructional videos on how to effectively and properly use RectorSeal products. Subscribe to our channel and receive new product videos instantly.

**Online Training:**

Earn certifications from RectorSeal for approved field use of our specialty products. Lessons and exams can be completed at your own pace and results accessed from your personal computer. 5 NATE CEU classes are also available.



To utilize these services, visit [www.rectorseal.com](http://www.rectorseal.com)

Contact: RectorSeal®  
2601 Spenwick Drive, Houston, TX 77055  
P 713-263-8001 | 800-231-3345  
F 713-263-7577 | 800-441-0051  
W [www.rectorseal.com](http://www.rectorseal.com)

Distributed by: