



HVAC installation

SOLUTIONS



rectorseal.com

Represented By:

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Aspen® Pumps

Drain Hoses

NoKink™

PairCoil

Mighty Bracket™

Safe-T-Switch®

EZ Trap®

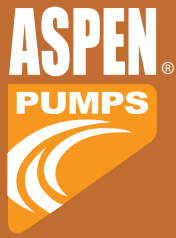
ArmorPad™

Lineset Protection

PRO-Fit™

Mounting & Installation

Novent®



CONDENSATE PUMPS

Condensate pumps designed



Commercial



Residential

- 6 Mini-split pump styles.
- Versatile pump positioning.
- Quiet operation.



ORANGE SERIES ▲



AQUA ▼

LIME SERIES ▲

WHITE

MINI TANK
4 installation options ▼



◀ PERISTALTIC
remote placement -
up to 10ft vertical or
40ft horizontal from
condensate source



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

Contact: RectorSeal®

☎ 713-263-8001 | 800-231-3345

☎ 713-263-7577 | 800-441-0051

🌐 rectorseal.com

The easiest way to find the right pump for any brand of mini-split ...



for mini-split systems.



SELECTING THE CORRECT ASPEN MINI-PUMP

Six pump models

- Aqua • Orange • Lime • White
- Peristaltic • Mini Tank

Four considerations

- **Appearance** – A concealed (Aqua, microV) or remote condensate pump (Orange, Peristaltic, Mini Tank) will preserve the attractive nature of any mini-split installation. Surface mounted pumps (Lime or White) are neatly covered. All pumps provide a clean finished appearance.
- **Quiet Operation** – Choose a remote pump (Orange or Peristaltic) installation for the quietest operation in noise sensitive areas. Silent+ models are also available. They run quieter and are designated by SP suffix.
- **Ease of Installation** – Aspen® pump models can accommodate any installation. See the guide and chart (page 12) for options.
- **Maintenance** – Pump models with filters must be cleaned regularly. Choose a surface type pump (Lime or White) for easy filter access or a pump which requires no filter (Peristaltic).

Two mini-pump types:

- **Split** – (Orange or Aqua series) are designed with separate pump and reservoir. The pump includes an electronic PCB and the pump motor.

The reservoir contains the filter and the switching mechanism to activate the pump, and must always be kept level and clean for proper operation of the float switch. The filter must be cleaned regularly. The 2 elements are connected together with a length of 1/4" ID vinyl tube and a communication cable, both of which are usually around 6 feet long. On our orange series pumps, this may be extended if required.

- **Monobloc** – (Lime, White series, Mini Tank) are designed with both the pump and reservoir as one integral unit, sharing a common body. No connecting tubes or wires are needed. All mini-pumps are cooled and lubricated by the water flowing through them. They require a float switch to detect the presence of water in the drain pan and activate the pump only when water is present.

Aspen® pump features:

- Quick and easy to install
- Fit any mini-split, up to 157,000 BTU/hr
- Self priming
- Hall effect sensors operate on water rise
- Dry contact for overflow protection
- Cleanable filters
- Quiet – 21dB (A) to 47dB (A)
- Thermally protected
- Maximum water temperature 104 degree F
- Discharge hose 1/4" ID
- Kits include all components required
- Anti-siphoning device included
- 24 month limited warranty

Sound level and pump performance varies with voltage and frequency.



MINI-SPLIT PUMP KITS

Continued

Aqua Series

Ultra-slim profile, fits inside evaporator or lineset cover



Code	Universal Voltage Kits	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83809	(ASP-MA-UNI)	100-250 VAC	.2A 16W	2lbs	1
Silent Plus Kits					
83812	(ASP-MA-230-SP)	230 VAC	.1A 16W	2lbs	1

FEATURES

- Ultra-slim profile
- Self Priming
- Integral hanging loop and separate reservoir facilitates attachment in vertical applications
- 3A NC dry contacts rated @ 5A inductive at 230V AC
- Modular terminals for fast connection
- Fully potted electronics*

Specifications:

Duty Cycle:

50% duty cycle
5 mins on / 5 mins off

Capacity:

Up to 49,500 BTU/hr. @ 230v
Up to 54,600 BTU/hr. @ 115v
3.2 GPH @ zero head,
1.6 GPH @ 33ft head

Maximum head: 33ft

Suction lift: 5ft

Sound level:

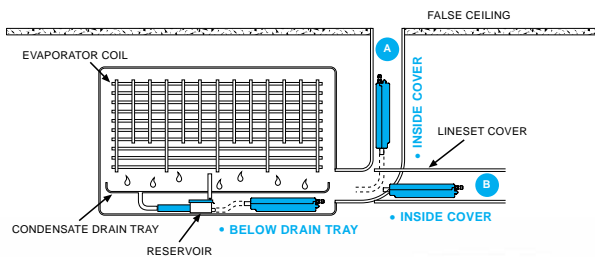
Univolt – 21dB(A)
Silent Plus – 19dB(A)

Pump Dimensions:

L-6¹/₂" x H-1¹/₈" x W-1¹/₈"

Class: II Appliance

TYPICAL PUMP LOCATIONS



silent+

Aspen pre-filter available – see page 19

*Potting is the process of epoxy filling a complete assembly for resistance to shock, vibration, moisture, chemical and promotes sound dampening.

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MINI-SPLIT PUMP KITS

Continued

Orange Series



Installation flexibility, proven reliability

Code	Universal Voltage Mini Kits	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83909	(ASP-MO-UNI)	100-250 VAC	.17A 16W	2lbs	1
Silent Plus Mini Kits					
83911	(ASP-MO-115-SP)	115 VAC	.18A 16W	2lbs	1
83912	(ASP-MO-230-SP)	230 VAC	.11A 16W	2lbs	1
Maxi Kits					
83919	(ASP-MAXO-UNI)	100-250 VAC	.18A 21W	2lbs	1
15' Extension Cable For Mini Kits					
83891	(ASP-MOEXT)				

FEATURES

- Self Priming
- Pump installs remotely above ceiling or inside lineset cover
- Pan mount and inline style reservoir included
- Modular terminals for fast connection
- Gravity Inlet
- Fully potted electronics*
- 3A NC dry contacts rated @ 5A inductive at 230V AC

Specifications:

Duty Cycle:

Mini – non-continuous
Maxi – 50% 5 mins on / 5 mins off

Capacity:

Mini – Up to 54,600 BTU/hr. @ 115v
Up to 49,500 BTU/hr. @ 230v
3.2 GPH @ zero head,
1.6 GPH @ 33ft head

Maxi – Up to 157,000 BTU/hr.
8.9 GPH @ zero head,
1.5 GPH @ 50ft head

Maximum head:

Mini – 33ft Maxi – 49ft

Suction lift: 5ft

Sound level:

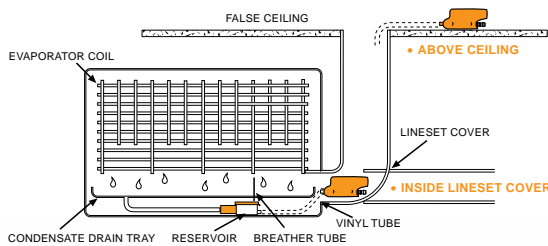
Mini – 21dB(A) Maxi – 35dB(A)
Silent Plus – 19dB(A)

Pump Dimensions:

Mini: L-4¹/₄" x W-1¹/₂" x H-2"
Maxi: L-4⁷/₈" x W-1³/₄" x H-2⁵/₈"

Class: II Appliance

TYPICAL PUMP LOCATIONS



Aspen pre-filter available – see page 19

silent+

MINI-SPLIT PUMP KITS

Continued

Lime Series



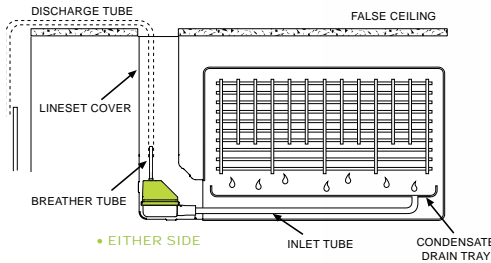
Pump Dimensions:

Mini: H-3¹/₈" x W-3³/₄" x D-1⁵/₈"
 Maxi: H-3³/₈" x W-3³/₄" x D-1⁵/₈"

Lineset Casing Dimensions:

Mini/Maxi Elbow Casing:
 H-5¹/₄" x W-5¹/₄" x D-2³/₄"
 Mini/Maxi Duct Casing:
 H-31" x W-5¹/₄" x D-2³/₄"

TYPICAL PUMP LOCATIONS



Elbow design, completely reversible, duct included

Code	Universal Voltage Mini Kits	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83849	(ASP-ML-UNI) Slimline Ivory	100-250 VAC	.16A 16W	4 lbs	1
83859	(ASP-MLF-UNI) Fortress White	100-250 VAC	.16A 16W	4 lbs	1
Silent Plus Mini Kits					
83852	(ASP-ML-230-SP) Slimline Ivory	230 VAC	.10A 15W	4 lbs	1
Maxi Kits					
83831	(ASP-MAXLF-230) Fortress White	230 VAC	.10A 15W	4 lbs	1
OEM Maxi Kits					
83835	(ASP-MAXOEM-230) No Duct	230 VAC	.10A 15W	2 lbs	1
Code OEM Mini Kits					
83869	(ASP-MLOEM-UNI) No Duct	100-250 VAC	.16A 16W	2 lbs	1

FEATURES

- Left or right install
- Easily accessed for filter cleaning
- Two lineset cover styles available – Slimline or Fortress
- 3A NC dry contacts rated @ 5A inductive at 230V AC
- Fully potted electronics*

Specifications:

- Duty Cycle:**
 Mini – non-continuous
 Maxi – 66% 10 mins on / 5 mins off
- Capacity:**
 Mini – Up to 54,600 BTU/hr.
 2.9-3.2 GPH @ zero head,
 1.3-1.5 GPH @ 33ft head
 Maxi – Up to 157,000 BTU/hr.
 9.0 GPH @ zero head,
 2.9 GPH @ 49 head
- Maximum head:**
 Mini – 33ft Maxi – 49ft
- Sound level:**
 Mini – 25.5dB(A)
 Maxi – 35dB(A)
 Silent Plus – 21dB(A)

Class: II Appliance



US Patent #6,817,194

*Potting is the process of epoxy filling a complete assembly for resistance to shock, vibration, moisture, chemical and promotes sound dampening.

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MINI-SPLIT PUMP KITS

Continued

White Series

Mounts directly below evaporator, quick installation



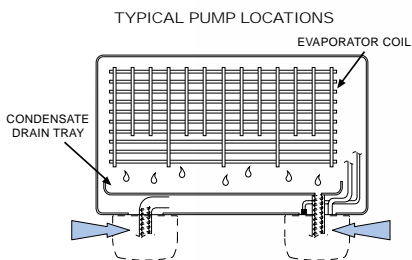
Code	Universal Voltage	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83939	(ASP-MW-UNI)	100-250 VAC	.17A 16W	2lbs	1

FEATURES

- Surface mounts below evaporator, at either end
- Crisp white color and slim profile complement any evaporator. Additional colors available (contact RectorSeal®)
- Resilient mounting minimizes vibration & noise
- Cleanable replaceable plastic filter cartridge accepts water treatment tablet (Actab DMSS tablets)
- Accepts standard 5/8" drain hose from any mini-split
- Extra large reservoir capacity minimize pump operation
- All components clip apart for easy disassembly without tools
- Fully potted electronics*
- No need to disturb evaporator to clean filter, reservoir clips out from front for easy removal and replacement
- 3A N/C dry contacts rated @ 5A inductive @ 230V AC

Specifications:

- Duty Cycle:** Non-continuous
- Capacity:** Up to 54,000 BTU/hr.
2.9 GPH @ zero head
1.2 GPH @ 33ft head
- Maximum head:** 39ft
- Maximum Water Temp:** 104° F
- Suction Lift:** NA
- Sound level:** 21dB(A)
- Pump Dimensions:** L-7¹/₈" x H-4¹/₂" x W-2"
- Class: II Appliance



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MINI-SPLIT PUMP KITS

Continued

Peristaltic



Ideal for remote location applications

Code	Universal Sensor	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83966	(ASP-PERI-UNI-230)	230 VAC	.20A 46W	6 lbs	1
Replacement Pump Head					
83892	(ASP-PERITUBE)				

FEATURES

- Reliability – low maintenance
- Filterless operation. Pump evacuates wash from the evaporator coil during condensate production.
- Quick replacement pump head
- Self priming. Can run both wet and dry.
- 3 minute timer overrun protection
- Siphon proof
- Thermally protected pump
- Eliminates corrosion & clogging
- High level of lift allows remote placement – up to 10ft vertical or 40ft horizontal from condensate source
- Manual test switch
- Fire retardant housing
- Internal fuse
- Push in plug facilitates service without disconnecting wiring
- Wall bracket includes storage or spare pump head

Specifications:

Duty Cycle:

100% Continuous

Capacity:

Up to 30,000 BTU/hr.
1.65 GPH @ 39ft head

Maximum head: 39ft

Maximum Water Temp: 104° F

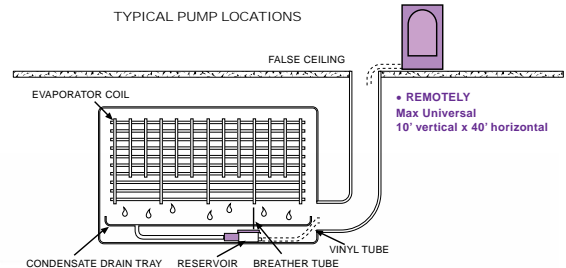
Suction Lift: 10ft

Sound level: 47dB(A)

Pump Dimensions:

L-5 1/4" x H-4 1/2" x W-3"

Class: II Appliance



MINI-SPLIT PUMP KITS

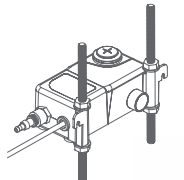
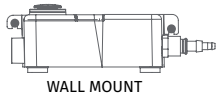
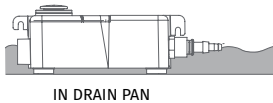
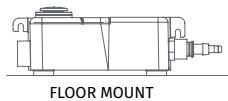
Continued

Mini Tank

Versatile and powerful multi-functional condensate pump



Mounting Options:



Code	Tank Pump Kit	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83941	FP 1056/2	230 VAC	.15-.28A 21W	1.5lbs	1

FEATURES

- Ideal for ducted units, floor standing and chassis units, ceiling cassette units
- High performance piston technology
- Includes anti-siphon device.
- Great alternative to large and noisy traditional condensate pumps
- 4-installation options – can be wall mounted, floor mounted, in-pan or suspended on 1/4" or 3/8" rod.
- Accepts standard 5/8" drain hose from any mini-split
- Extra large reservoir capacity minimize pump operation
- Components clip apart for easy access to reservoir and filter
- Fully potted electronics*
- No need to disturb evaporator to clean filter
- 3A N/C dry contacts rated @ 5A inductive @ 230V AC
- Thermal protection

Specifications:

- Duty Cycle:**
50% duty cycle
5 mins on / 5 mins off
- Capacity:**
Up to 157,000 BTU/hr.
8.0 GPH @ zero head,
1.6 GPH @ 49ft head
- Maximum head:** 49ft
- Maximum Water Temp:** 104° F
- Sound level:** 35dB(A)

Pump Dimensions:

L-8 1/2" x H-2 5/8" x W-3 1/2"



Pump Selector Guide

Electrical

	83809 (ASP-MA-UNI)	83812 (ASP-MA-230-SP)	83909 (ASP-MO-UNI)	83911 (ASP-MO-115-SP)	83912 (ASP-MO-230-SP)	83919 (ASP-MAXO-UNI)	83849 (ASP-ML-UNI)	83859 (ASP-MLF-UNI)	83852 (ASP-ML-230-SP)	83831 (ASP-MAXLF-230)	83835 (ASP-MAXOEM-230)	83869 (ASP-MLOEM-UNI)	83939 (ASP-MW-UNI)	83966 (ASP-PERI-UNI-230)	83941 MINI TANK PUMP
230V Model	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
115V Model	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Univolt Model	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Overflow Switch	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Mounting

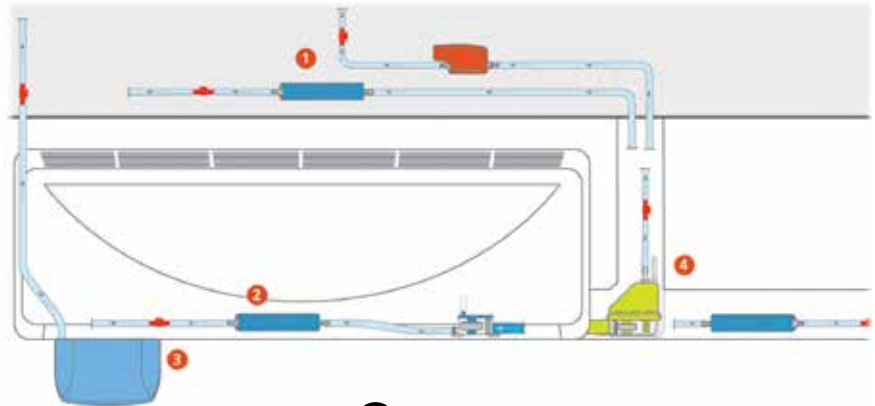
Surface Mount	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Concealed in Evaporator	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Concealed in Lineset Cover	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote Pump Install (ideal for noise sensitive areas)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Easy Filter Access	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lineset Duct Kit included	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

General

Inline Reservoir Included (5/8 inlet)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Drain Pan Mounted Reservoir Included (optional for ducted systems)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Integral Reservoir on Pump	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

For more detailed selection information see our Technical Bulletin "Selecting the Right Model Aspen® Pump for Your Mini-split Installation" on our web site.

Prior to installation, calculate condensate production of indoor evaporating coil to confirm suitability of condensate pump in application.



Type 1 Installation

For optimum quietness, the solution is a remote mounted pump.

PERISTALTIC, AQUA, ORANGE, MINI TANK

Type 2 Installation – rear entry lineset

Lineset enters the evaporator from directly behind.

WHITE – Pump assembly mounts on wall surface below the evaporator (easy filter access).

AQUA – Both pump and reservoir mount inside of evaporator, below the drain pan.

Type 4 Installation – exposed straight lineset

Lineset enters the evaporator from either side, extending horizontally to outside wall.

AQUA or **ORANGE** – Pump mounts outside the evaporator hidden inside horizontal lineset cover. Reservoir mounts inside of evaporator, below the drain pan.

Type 4 Installation – side entry lineset

Lineset enters the evaporator from either side, turns 90 degrees up into the ceiling and is completely concealed by lineset cover (included in kit).

LIME – Pump assembly mounts outside the evaporator, behind easy to remove elbow cover. Transparent reservoir clips off pump for easy filter access.



MINI-SPLIT CONDENSATE DRAIN HOSE

Condensate Drain Hose

Non-Insulated

Code	ID	Length	Ctn Qty	Ctn Wt
83001 (DH-14) STANDARD	1/2 in	164 ft	1	6 lbs.
83002 (DH-16) STANDARD	5/8 in	164 ft	1	7 lbs.
83003 (DH-16S) STANDARD	5/8 in	20 ft	5	6 lbs.
83004 (DHQ-16) UV RESISTANT	5/8 in	164 ft	1	6 lbs.
83005 (DSB-16) SMOOTH BORE	5/8 in	65 ft	1	2 lbs.



Non-Insulated

UV Resist

Smooth Bore



Smooth Bore (DSB-16)

Reduces resistance and maximizes condensate flow. Resists clogging.

UV Resistance (DHQ-16)

Resists deterioration from Sunlight.

Condensate Drain Hose

Insulated

Code	ID	Length	Ctn Qty	Ctn Wt
83011 (DSH-14)	1/2 in	65 ft	1	7 lbs.
83012 (DSH-20N)	3/4 in	65 ft	1	10 lbs.
83013 (DSH-25N)	1 in	65 ft	1	13 lbs.



Insulated



Insulated

Protects hose from sweating that can occur from cooler condensate and warmer ambient air.

Fittings and Cable

For mini-split installation



CONNECTOR FOR NON-INSULATED DRAIN HOSE

Code	ID	Length	Ctn Qty	Ctn Wt
83028 (DHJ-14) Joins DH-14 hose to DH-14 hose	1/2 in	-	10	1 lb.
83029 (DHJ-16) Joins DH-16 hose to DH-16 hose	5/8 in	-	10	1 lb.

PIPE ADAPTER

Code	ID	Length	Ctn Qty	Ctn Wt
83031 (DSH-14C) INSULATED Joins DSH-14 insulated drain hose to A/C drain pipe	-	-	10	2 lbs.

CONNECTOR FOR INSULATED DRAIN HOSE

Code	ID	Length	Ctn Qty	Ctn Wt
83021 (DSH-14J) DSH-14 Joins DSH-14 hose to DSH-14 hose	1/2 in	-	10	2 lbs.
83023 (DSH-20-NJ) DSH-20 Joins DSH-20 hose to DSH-20 hose	3/4 in	-	10	2 lbs.

PIPE ADAPTER

Code	ID	Length	Ctn Qty	Ctn Wt
83020 (DH-14-16V) DSH-14 Hose to 3/4 PVC	3/4 in	-	10	2 lbs.
83024 (DSH-20-NV) DSH-20 Hose to 3/4 PVC	3/4 in	-	10	2 lbs.

VENTED DRAIN WYE*

Code	ID	Length	Ctn Qty	Ctn Wt
83022 (DY-16)	5/8 in	-	10	1 lbs.

*Recommended to be used with EZT-180 Mini waterless in-line trap, can be found on page 21.

WALL SLEEVE

Code	Size	Ctn Qty	Ctn Wt
83017 (NFP-75) WALL SLEEVE	3"x 5" - 7"	10	1 lb.

NON-ADHESIVE WRAP

Code	Size	Ctn Qty	Ctn Wt
83016 (HN-75-I) UV RESISTANT NON-ADHESIVE WRAP	3" x 70'	4	1 lb.

INTERCONNECT CABLE

Code	Length	Ctn Qty	Ctn Wt
87795 (CAB-14450) 4/C 14 GAUGE SHIELDED	50'	1	5 lbs.
87790 (CAB-144100) 4/C 14 GAUGE SHIELDED	100'	1	10 lbs.



DUCTLESS A/C INSTALLATION ACCESSORIES

RectorSeal® NoKink™

Flexible mini-split refrigerant line connector



Code	Description	Qty.
66731	1/4" x 3' flex hose	4
66733	3/8" x 3' flex hose	4
66737	1/2" x 3' flex hose	4
66735	5/8" x 3' flex hose	4
66732	3/4" x 3' flex hose	4
66734	7/8" x 3' flex hose	4
68231	1/4" x 6' flex hose	4
68233	3/8" x 6' flex hose	4
68235	5/8" x 6' flex hose	4
68237	1/2" x 6' flex hose	4

APPLICATION • Corrugated 300 series stainless steel flexible piping, protected with woven stainless steel jacketing, connects evaporator units to linesets quickly and easily • Eliminate kinks and refrigerant leaks • Allows for ease of future maintenance
 • UL Recognized for R410A

SPECIFICATIONS
 36" and 72" overall length
 3" copper stub length
 10 sizes available



FEATURES

- Eliminates kinking of refrigerant line
- Stainless steel internal piping and jacketing
- 3" copper stubs allow for easy flaring and quick connections

NoKink™ PVC Tubing

Reinforced PVC tubing

Code	Description	Qty.
83000	1/4" x 50'	1

FEATURES

- Stronger hold strength at the pump discharge connection
- Reduces kinks during installation
- Reinforced braided tubing
- No sagging or reduced (ID) during hot summer months
- Condensate drain lines

APPLICATION • Flexible PVC tubing for use with Aspen condensate pumps for ductless and VRF applications



RectorSeal® Paircoil™

Pre-insulated and paired linesets



Code	Description	Qty.
87781	1/4" liquid line w/ 1/2" insulation & 3/8" suction line w/ 1/2" insulation	1

APPLICATION • For air conditioning & refrigeration installations using R410A, R22, etc. • Saves time and labor on mini-split installs & retrofits

FEATURES

- 50' rolls can be freely cut
- Tough, coated insulation will not tear
- Length markings for fast, accurate measuring & cutting
- Meets ASTM B280 standard
- Meets IMC & IRC code



Mighty Bracket™

Mini-split installation support tool

Code	Description	Qty.
97705	Mini-split support tool	4

FEATURES

- Allows single person installation
- Simple clip on support
- Does not damage walls
- Use on most brands of mini-splits
- Folds for easy storage
- Includes tote bag

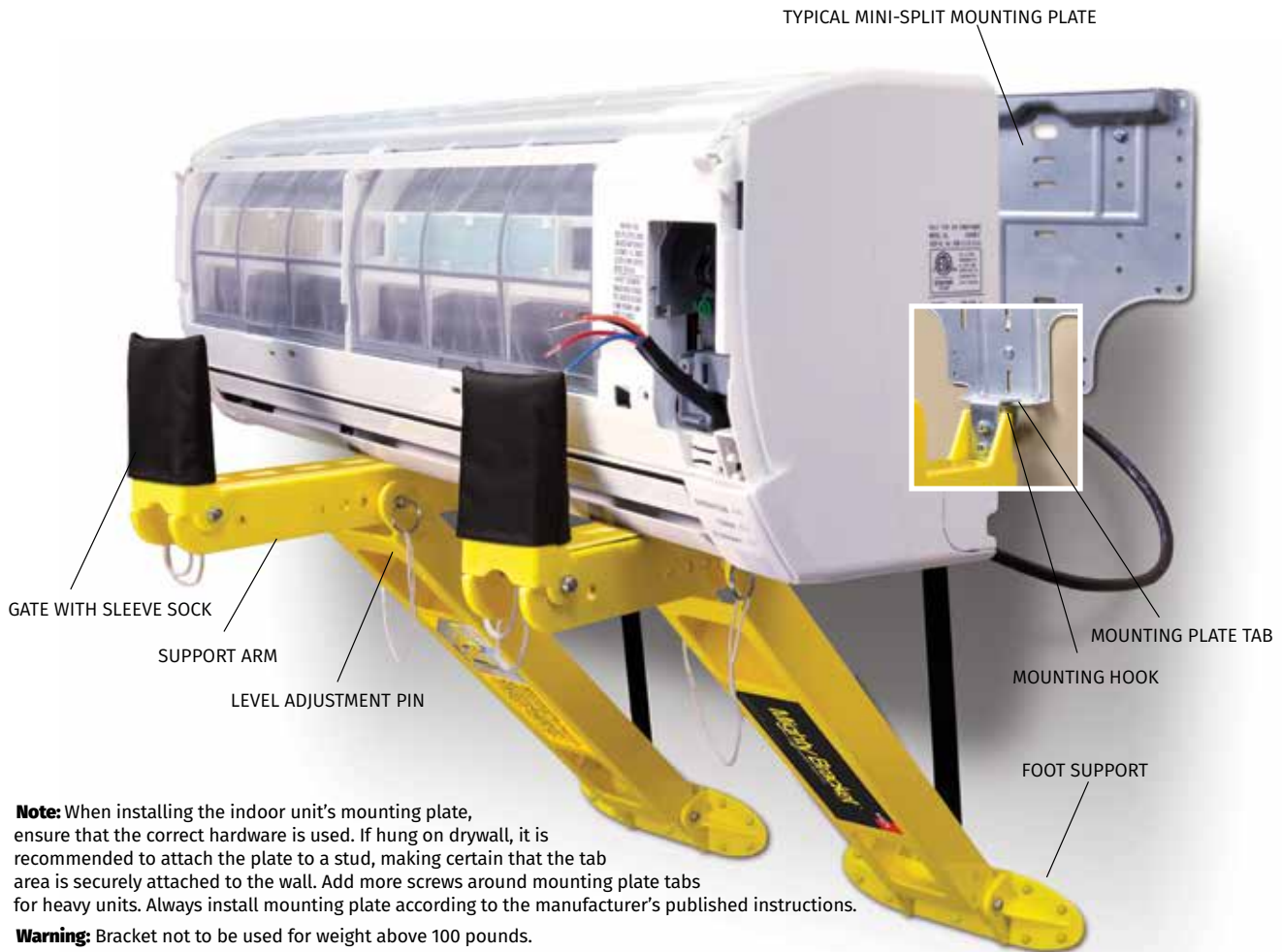
US Patent No 9,772,113



APPLICATION • Hook onto mini-split mounting plate to hold mini-split unit securely in place while installing refrigerant lines, condensate line and electrical hookup.

USER INSTRUCTIONS 1. Attach Mounting Hooks of Mighty Bracket to the mini-split mounting plate tabs. (If no tabs are present on the mounting plate, Mighty Bracket hooks can be attached by screws threaded into the wall stud.) 2. Place Foot Supports flat against the wall. (If necessary to avoid potential wall scratching, place clean towel or cardboard between support foot and wall surface) 3. Position Level Adjustment Pins to make Support Arm of the brackets horizontal. 4. Position lift Gates at the end of Support Arms to make sure the unit cannot slide off. 5. Place protective Sleeve Socks over Gates to avoid scratching the unit. 6. Set unit securely onto the top of the Support Arms. 7. Connect refrigerant lines using RectorSeal® NoKink™.* 8. Connect condensate drain piping and electrical wiring. 9. Carefully lift and place the indoor unit onto top tabs of mounting plate. 10. While ensuring unit does not fall, carefully remove Mighty Bracket and installation is complete.

* When paired with RectorSeal® NoKink™, Mighty Bracket™ allows simple installation without damaging or kinking copper refrigerant lines.



Note: When installing the indoor unit's mounting plate, ensure that the correct hardware is used. If hung on drywall, it is recommended to attach the plate to a stud, making certain that the tab area is securely attached to the wall. Add more screws around mounting plate tabs for heavy units. Always install mounting plate according to the manufacturer's published instructions.

Warning: Bracket not to be used for weight above 100 pounds.

Aspen® Xtra

FEATURES

Keep a ready stock of accessories on-hand with our Xtra Tool Box

- Connectors
- Adapters
- Check valves

Ductless A/C installation accessory tool box

ACCESSORY TOOL BOX

Code	Model	Description	Qty.
83999	AX00051/R	12 section fitting and accessory box (18"x14"x3")	1

ACCESSORY TOOL BOX CONTENTS LISTING

Code	Model	Description	Qty.
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Mini Pump Rubber Adapter/Connector

83970	FP2001	5/8" mini pump to 3/4" ducted drain (16mm-20mm)	2
83971	FP2002	5/8" mini pump to 1" ducted drain (16mm-25mm)	2
83972	FP2003	5/8" mini pump to 1-1/4" ducted drain (16mm-32mm)	2

Mini Pump 90° Long Arm Bend Connector

83973	FP2006	1/2" to 5/8" (12mm-16mm) long arm	2
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Pipe to Pipe Rubber Connector/Adapter

83977	FP2042	3/4" PVC to 5/8" (20mm-16mm)	2
83978	FP2044	3/4" PVC to 1" (20mm-25mm)	2
83979	FP2046	3/4" PVC to 1-1/4" (20mm-32mm)	y 2

Hose to Hose Connectors

83984	FP2024	1/4" "T" connectors (6mm)	3
83985	FP2028	1/4" elbow connectors (6mm)	4
83986	FP2622	1/4" straight connectors (6mm)	3
83987	FP2030	3/8" "T" connectors (10mm)	3
83988	FP2032	3/8" elbow connectors (10mm)	3
83989	FP2624	3/8" straight connectors (10mm)	3

Tube Adapter/Fitting

83990	FP2038	3/8" or 1/4" (10mm/6mm) self sealing soil pipe connector	2
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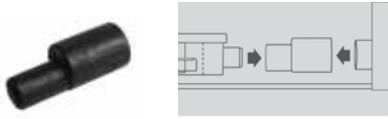
Check Valves

83982	FP2628	1/4" Non Return Valves (6mm)	2
83983	FP2630	3/8" Non Return Valves (10mm)	2





Code	Model	Description	Units/Bag	Bags/Carton
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Rubber adapter
Connects a ducted unit to a Mini Pump Reservoir.

83970	FP2001	5/8" mini pump to 3/4" ducted drain (16mm-19mm)	Qty 3	Qty 10
83971	FP2002	5/8" mini pump to 1" ducted drain (16mm-25mm)	Qty 3	Qty 10
83972	FP2003	5/8" mini pump to 1-1/4" ducted drain (16mm-32mm)	Qty 3	Qty 10



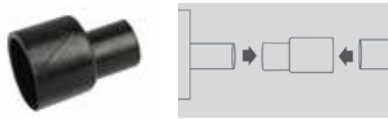
90° Long Arm Bend
Connects a Wall Mount to Mini Pump Reservoir.

83973	FP2006	1/2" to 5/8" (12mm-16mm) long arm	Qty 3	Qty 10
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Rubber Adapter
Connects a Cassette Unit Condensate Drain Pipe to a Tank Pump.

83974	FP2011	5/8" cassette unit outlet to 3/4" hose (16mm-19mm)	Qty 3	Qty 10
83975	FP2012	1" cassette unit outlet to 3/4" hose (25mm-19mm)	Qty 3	Qty 10
83976	FP2013	1-1/4" cassette unit outlet to 3/4" hose (32mm-19mm)	Qty 3	Qty 10



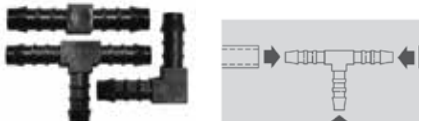
Pipe to Pipe Rubber Connector/Adapter
Connect 3/4" PVC Overflow Pipe to Waste Pipe.

83977	FP2042	3/4" PVC to 5/8" (19mm-16mm)	Qty 3	Qty 10
83978	FP2044	3/4" PVC to 1" (19mm-25mm)	Qty 3	Qty 10
83979	FP2046	3/4" PVC to 1-1/4" (19mm-32mm)	Qty 3	Qty 10



Tube Connector Fitting and Straight Reducer
In-line junction for mismatched tubing.

83980	FP2020	3/8" to 1/4" straight reducer (10mm to 6mm)	Qty 5	Qty 10
83981	FP2632	5/8" to 1/4" reducing connector (16mm-6mm)	Qty 5	Qty 10



Hose to Hose Connector
In-line junction for matched size tubing.

83985	FP2028	1/4" elbow connectors (6mm)	Qty 5	Qty 10
83986	FP2622	1/4" straight connectors (6mm)	Qty 5	Qty 10
83989	FP2624	3/8" straight connectors (10mm)	Qty 5	Qty 10


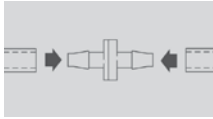

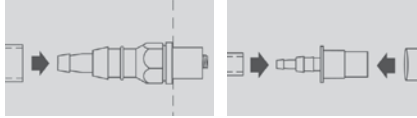


Mini Pump Pre-Filter
Protects mini pump from condensate debris.

83893	FP2040	5/8" Pre-filter for Aspen Mini Pumps	Qty 3	Qty 10
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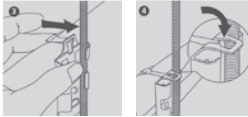

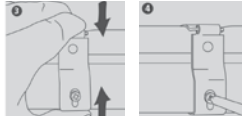

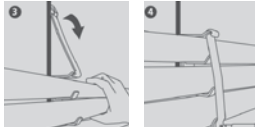
ASPEN *Xtra* ACCESSORIES

Code	Model	Description	Units/Bag	Bags/Carton
		Check Valve Connector/Fitting – Prevents back-flow of condensate.		
83982	FP2628	1/4" Non Return Valves (6mm)	Qty 5	Qty 10
		Tube Adapter – Connects discharge condensate to waste/soil pipe		
83991	FP2040	3/4" to 3/8" or 1/4" (20mm-10mm or 6mm)	Qty 3	Qty 10
83990	FP2038	3/8" or 1/4" self sealing soil pipe connector (10mm/6mm)	Qty 3	Qty 10

ASPEN *Xtra* PIPE SUPPORTS

All pipe supports are multi-packed in transparent Point-of-Purchase ready poly bags.



Code	Model	Description	Units/Bag	Bags/Carton
		Metal Pipe Hanger – Designed for supporting lineset pairs.		
83992	B6492	Fits 3/8" liquid & 5/8" gas pipes (incl. insulation)	Qty 10	Qty 10
83993	B6494	Fits 5/8" liquid & 1-1/8" gas pipes (incl. insulation)	Qty 10	Qty 10
		Grip Locks – Versatile. Mounts to any surface. Ideal for insulated linesets.		
83996	B6188	Fits 1/2" liquid & 7/8" gas pipe (incl. insulation)	Qty 10	Qty 10
83997	B6189	Fits 5/8" liquid & 1-1/8" gas pipe (incl. insulation)	Qty 10	Qty 10
		Three Pipe Clip – Supports VRV / VRF systems insulated linesets.		
83994	B6362	For pipe groups 1/2", 3/4", 1-1/8", to 5/8", 1", 1-1/8"	Qty 5	Qty 10
83995	B6364	For pipe groups 7/8", 1-1/8", 1-3/8" to 3/4", 1-3/8", 1-5/8"	Qty 5	Qty 10

OVERFLOW SWITCHES & EQUIPMENT PAD

Safe-T-Switch® SS610E

Code	Description	Qty.
97622	Model SS610E	12



FEATURES

- Sensor connects to indoor units
- Attaches to pan or coils with unique bracket
- Onboard LED indicator can be mounted to side of unit
- No batteries required
- Code Compliant & IMC 307.2.3.4

Mini-split systems

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

US Patent No. 8,887,392



EZT180

Code	Description	Qty.
83180	EZT180 5/8"	10

FEATURES

- Ultratrap
- Captive twist-off locking ring
- Transparent trap for easy cleaning
- Stainless steel spring

Mini Waterless In-Line Trap

APPLICATION • Sized for use in ductless mini-split applications • Use on any mini-split condensate drain line • Permits free condensate flow while blocking odors, noise and insects • Freeze resistant
 • Only 2-3/4" long
Includes: 5/8" MiniTrap, 9/16" adapter.

* Per 2015 IMC 307.2.4.1 Commentary: All mini-splits shall require an inline check valve in the drain line or trap to prevent airflow from interfering with condensate flow and prevent the escape of air through the drain.



ArmorPad™

Code	Description	Qty.
84418	35"x 18"x 2" Mini-split Equipment Pad	12

FEATURES

- Light-weight
- Extreme durability with load capacity of 220 lbs
- High anchoring strength for securing equipment
- Textured surface to prevent equipment sliding
- Long-term exterior weather resistance including UV resistance, and freeze and thaw resistance
- Vibration absorbing
- Chemical resistance against R-407c and R-410A, compressor oil, coil cleaners, and salt solution

Equipment pad

APPLICATION • Provides support and lift for the HVAC outdoor mini-split condenser unit • Provides a strong and stable equipment platform for uneven surfaces

RECOMMENDED FOR • Residential and commercial mini-split HVAC units • Outdoors



FORTRESS[®]

LINESET COVER SYSTEM

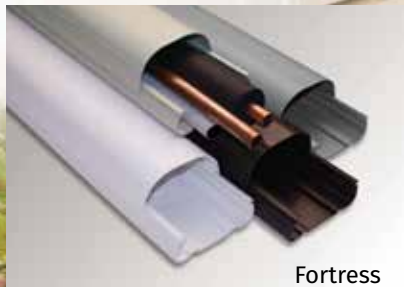
SLIMDUCT[®]

LINESET COVER SYSTEM

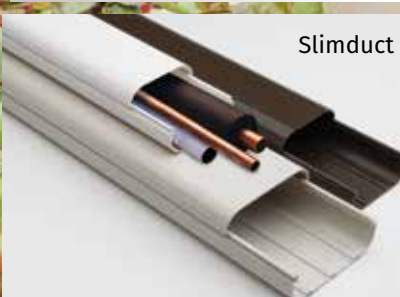
Architectural grade polymer



- Professional quality.
- Quick assembly.
- Professional appearance.
- High UV resistance.



Fortress



Slimduct



Both Fortress and Slimduct are now available in convenient kit form.
Kit includes duct and fittings for typical mini-split installation.



lineset ducting. Simple, rugged protection.



C H O O S E F O R T R E S S O R S L I M D U C T Q U A L I T Y



Fortress® SATIN FINISH

Moderate price point. For mini-splits, high velocity and conventional split air conditioning systems.

Protects lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

Snap together ducting easily accessed for repairs or replacement of the lineset.

UV and weather resistant with a temperature range from - 4°F to 140°F. Will remain attractive and provide protection for many years.

Stylish. Compliments any residential or commercial building. Paintable. Brush, spray or roller to match or compliment custom colors.*

2 sizes. Duct & fittings are available in both LD92 (3½"), LD122 (4½")

4 color options white, ivory, brown, gray

8' duct lengths. 6 lengths per box

17 fittings. Assures complete flexibility of installation

1 year warranty.

*Follow paint manufacturers recommendations for vinyl products.

Slimduct® GLOSS FINISH

Heavy duty grade. For mini-splits, high velocity and conventional ducted air conditioning systems.

Protects lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

Snap together ducting easily accessed for repairs or replacement of the lineset.

UV, weather and fire resistant with a temperature range from - 4°F to 140°F. Will remain attractive and provide protection for many years.

Stylish. Compliments any residential or commercial building.

3 sizes. Duct & fittings are available in SD77 (2¾"), SD100 (3¾"), SD140 (5½")

3 color options. white, ivory, brown

78" duct lengths. 5 lengths per box

15 fittings. Assures complete flexibility of installation

1 year warranty.

NOTE: Dark colors fade in sunlight sooner than lighter colors.

FORTRESS® LINESET COVER ORDERING INFORMATION















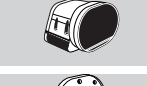



Longer 8ft ducting

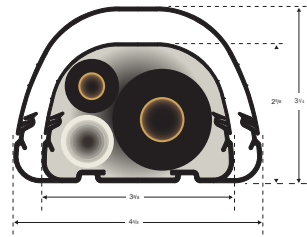
minimizes joints and reduces waste.

Paintable.

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



	MODEL	SIZE	DESCRIPTION	L	W	H
	LD92	3 1/2	Ducting	96"	3 5/8"	2 5/8"
	LD122	4 1/2	Ducting	96"	4 5/8"	3 1/4"
	LJ92	3 1/2	Coupler	2 5/8"	3 7/8"	2 3/4"
	LJ122	4 1/2	Coupler	2 5/8"	4 7/8"	3 1/2"
	LW92	3 1/2	Wall Inlet	9"	4 3/8"	3 1/8"
	LW122	4 1/2	Wall Inlet	9 3/4"	5 3/8"	4"
	LEN92	3 1/2	End Fitting	4 1/4"	3 7/8"	2 3/4"
	LEN122	4 1/2	End Fitting	4 1/4"	4 7/8"	3 1/2"
	LK92	3 1/2	90° Flat Ell	5 3/4"	5 3/4"	2 3/4"
	LK122	4 1/2	90° Flat Ell	6 1/4"	6 1/2"	3 1/2"
NEW! Above fittings now also available in LDK Kit pack (shown right)						
	LP92	3 1/2	Soffit Inlet	3 1/2"	6"	4 7/8"
	LP122	4 1/2	Soffit Inlet	3 1/2"	7"	5 1/2"
	LKF92	3 1/2	45° Flat Ell	4 7/8"	4 7/8"	2 3/4"
	LKF122	4 1/2	45° Flat Ell	6 1/2"	6 1/2"	3 1/2"
	LCI92	3 1/2	90° Inside Vertical Ell	5 1/4"	5 1/4"	2 3/4"
	LCI122	4 1/2	90° Inside Vertical Ell	5 1/4"	5 1/4"	3 1/2"
	LCO92	3 1/2	90° Outside Vertical Ell	4 1/2"	4 1/2"	2 3/4"
	LCO122	4 1/2	90° Outside Vertical Ell	5 1/4"	5 1/4"	3 1/2"
	LCFI92	3 1/2	45° Inside Vertical Ell	4 3/4"	3 7/8"	2 3/4"
	LCFI122	4 1/2	45° Inside Vertical Ell	6 1/4"	4 7/8"	3 1/2"
	LCFO92	3 1/2	45° Outside Vertical Ell	4 5/8"	3 7/8"	2 3/4"
	LCFO122	4 1/2	45° Outside Vertical Ell	5 1/4"	4 7/8"	3 1/2"
	LT92	3 1/2	Tee	7 3/4"	5 3/4"	2 3/4"
	LT122	4 1/2	Tee	7 3/4"	6 1/2"	3 1/2"
	LDR12292	3 1/2 - 4 1/2	Reducer	3"	4 7/8"	3 7/8"
	LKS92	3 1/2	90° Sweep Ell	13"	13"	2 3/4"
	LKS122	4 1/2	90° Sweep Ell	14"	14"	3 1/2"
	LF92	3 1/2	Flexible Ell	40"	3 1/2"	2 1/2"
	LF122	4 1/2	Flexible Ell	40"	4 1/2"	3 1/4"
	LFJ92	3 1/2	Flexible Adaptor	3 1/8"	3 7/8"	2 3/4"
	LFJ122	4 1/2	Flexible Adaptor	3 1/8"	4 7/8"	3 1/2"
	LWF92	3 1/2	Wall Flange	5"	6"	2 1/8"
	LWF122	4 1/2	Wall Flange	6 1/2"	7 3/4"	2 5/8"
	LDC	-	Twistlock Lineset Duct Clip	-	-	-



Technical Information

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

Temperature Range
-4°F to 140°F



12' Wall Duct Kit

Kit includes 12' of duct and all essential fittings to hide and protect the lineset for a typical A/C installation. Available in white, ivory, gray and brown

LDK Kit includes:

- LD – Ducting 4' Long (3)
- LJ – Couplers (2)
- LW – Wall Inlet (1)
- LEN – End Fitting (1)
- LK – 90° Flat Ell (1)

Fortress Kits:

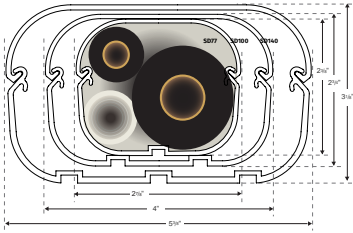
- 84045 LDK92G – Gray 3½
- 84145 LDK122G – Gray 4½
- 84065 LDK92B – Brown 3½
- 84165 LDK122B – Brown 4½
- 84005 LDK92W – White 3½
- 84105 LDK122W – White 4½
- 84025 LDK92I – Ivory 3½
- 84125 LDK122I – Ivory 4½



Ducting and fittings packaged 6 per box helps minimize inventory

WHITE		IVORY		BROWN		GRAY	
Order code / Ref No	Qty	Order code / Ref No	Qty	Order code / Ref No	Qty	Order code / Ref No	Qty
84004 (LD92W)	6	84024 (LD92I)	6	84064 (LD92B)	6	84044 (LD92G)	6
84104 (LD122W)	6	84124 (LD122I)	6	84164 (LD122B)	6	84144 (LD122G)	6
84010 (LJ92W)	6	84030 (LJ92I)	6	84270 (LJ92B)	1	84250 (LJ92G)	1
84110 (LJ122W)	6	84130 (LJ122I)	6	84370 (LJ122B)	1	84350 (LJ122G)	1)
84016 (LW92W)	6	84036 (LW92I)	6	84276 (LW92B)	1	84256 (LW92G)	1
84116 (LW122W)	6	84136 (LW122I)	6	84376 (LW122B)	1	84356 (LW122G)	1
84007 (LEN92W)	6	84027 (LEN92I)	6	84267 (LEN92B)	1	84247 (LEN92G)	1
84107 (LEN122W)	6	84127 (LEN122I)	6	84367 (LEN122B)	1	84347 (LEN122G)	1
84011 (LK92W)	6	84031 (LK92I)	6	84271 (LK92B)	1	84251 (LK92G)	1
84111 (LK122W))	6	84131 (LK122I)	6	84371 (LK122B)	1	84351 (LK122G)	1
84014 (LP92W)	6	84034 (LP92I)	6	84274 (LP92B)	1	84254 (LP92G)	1
84114 (LP122W)	6	84134 (LP122I)	6	84374 (LP122B)	1	84354 (LP122G)	1
84012 (LKF92W)	6	84032 (LKF92I)	6	84272 (LKF92B)	1	84252 (LKF92G)	1
84112 (LKF122W)	6	84132 (LKF122I)	6	84372 (LKF122B)	1	84352 (LKF122G)	1
84002 (LCI92W)	6	84022 (LCI92I)	6	84262 (LCI92B)	1	84242 (LCI92G)	1
84102 (LCI122W)	6	84122 (LCI122I)	6	84362 (LCI122B)	1	84342 (LCI122G)	1
84003 (LCO92W)	6	84023 (LCO92I)	6	84263 (LCO92B)	1	84243 (LCO92G)	1
84103 (LCO122W)	6	84123 (LCO122I)	6	84363 (LCO122B)	1	84343 (LCO122G)	1
84000 (LCFI92W)	6	84020 (LCFI92I)	6	84260 (LCFI92B)	1	84240 (LCFI92G)	1
84100 (LCFI122W)	6	84120 (LCFI122I)	6	84360 (LCFI122B)	1	84340 (LCFI122G)	1
84001 (LCFO92W)	6	84021 (LCFO92I)	6	84261 (LCFO92B)	1	84241 (LCFO92G)	1
84101 (LCFO122W)	6	84121 (LCFO122I)	6	84361 (LCFO122B)	1	84341 (LCFO122G)	1
84015 (LT92W)	6	84035 (LT92I)	6	84275 (LT92B)	1	84255 (LT92G)	1
84115 (LT122W)	6	84135 (LT122I)	6	84375 (LT122B)	1	84355 (LT122G)	1
84106 (LDR12292W)	6	84126 (LDR12292I)	6	84366 (LDR12292B)	1	84346 (LDR12292G)	1
84013 (LKS92W)	6	84033 (LKS92I)	6	84273 (LKS92B)	1	84253 (LKS92G)	1
84113 (LKS122W)	6	84133 (LKS122I)	6	84373 (LKS122B)	1	84353 (LKS122G)	1
84008 (LF92W)	6	84028 (LF92I)	6	84268 (LF92B)	1	84248 (LF92G)	1
84108 (LF122W)	6	84128 (LF122I)	6	84368 (LF122B)	1	84348 (LF122G)	1
84009 (LFJ92W)	6	84029 (LFJ92I)	6	84269 (LFJ92B)	1	84249 (LFJ92G)	1
84109 (LFJ122W)	6	84129 (LFJ122I)	6	84369 (LFJ122B)	1	84349 (LFJ122G)	1
84017 (LWF92W)	6	84037 (LWF92I)	6	84277 (LWF92B)	1	84257 (LWF92G)	1
84117 (LWF122W)	6	84137 (LWF122I)	6	84377 (LWF122B)	1	84357 (LWF122G)	1
84099 (LDC) (12 pk 50 bags)							

SLIMDUCT® LINESET COVER ORDERING INFORMATION



Technical Information

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

Temperature Range
-4°F to 140°F



NEW!

13' Wall Duct Kit

Kit includes 13' of duct and all essential fittings to hide and protect the lineset for a typical A/C installation. Available in white only.














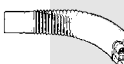



SDK Kit includes:

- SD – Ducting 39' Long (4)
- SJ – Couplers (2)
- SW – Wall Inlet (1)
- SEN – End Fitting (1)
- SK – 90° Flat Ell (1)

Slimduct Kits:

- 85005 SDK77W – 2 3/4" White kit
- 85105 SDK100W – 3 3/4" White kit

Duct is packaged
5 per box.
Fittings are packed
5 or 10 per box.

	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" L – 77	78"	2 1/8"	2 3/8"
	85104 (SD-100-W)	85124 (SD-100-I)	85164 (SD-100-B)	SD Slimduct 78" L – 100	78"	4"	2 3/8"
	85204 (SD-140-W)	85224 (SD-140-I)	85264 (SD-140-B)	SD Slimduct 78" L – 140	78"	5 3/8"	3 1/8"
	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 7/8"
	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 3/8"	5 3/8"	5 3/8"
	85214 (SP-140-W)	85234 (SP-140-I)	85574 (SP-140-B)	SP soffit inlet 140	5 3/4"	6 1/4"	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 1/4"	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 1/4"	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 1/4"	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 3/8"	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 1/4"	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 1/8"	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 1/4"	3 3/8"
	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"
	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 1/16"
	85008 (SF-77-500-W)	85028 (SF-77-500-I)	85368 (SF-77-500-B)	SF flex ELL 20" L – 77-500	19 1/2"	3"	2 1/2"
	86108 (SF-100-800-W)	86128 (SF-100-800-I)	85468 (SF-100-800-B)	SF flex ELL 31" L – 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 flex ELL 31" L – 140-800	31 1/2"	5 1/4"	3 3/8"
	85009 (SFJ-77-W)	85029 (SFJ-77-I)	85369 (SFJ-77-B)	SFJ flex adaptor 77	1 3/8"	3 1/4"	3 1/4"
	85109 (SFJ-100-W)	85129 (SFJ-100-I)	85469 (SFJ-100-B)	SFJ flex adaptor 100	1 1/2"	4 1/4"	4 1/4"
	86001 (SFS-77)	-	-	SFS saddle for flex ELL 77	1 3/8"	3 1/4"	2 1/2"
	86101 (SFS-100)	-	-	SFS saddle for flex ELL 100	1 1/2"	3 1/4"	3"
(stainless steel)	86201 (SFS-140)	-	-	SFS saddle for flex ELL 140	1 1/2"	4 1/4"	3"
	86299 (SL-300)	-	-	SL strap kit for line sets	-	-	-

3-in-1

Lineset Cover Cutter



Code	Description	Qty.
84380	Lineset Cover Cutter	6

FEATURES

- Light-weight at 1.15 lbs
- Easy one-touch open/close
- Advanced corrosion resistance
- Safety hook
- Strong handles
- Stays in adjustment
- Cuts cleanly
- Equipped with quick opening mechanism and safety stopper

APPLICATION • Designed to cut HVAC lineset covers

RECOMMENDED FOR

- Residential and commercial HVAC lineset covers • SLIMDUCT SD-77 2.75" and SD-100 3.75" • FORTRESS LD-92 3.5"



PRO-Fit™

Precision Flaring & Swaging tool bit kits



PRO-Fit Flare
Copper Flare



PRO-Fit Swage
Copper Swage

Code	Description	Qty.
87001	PRO-Fit Flare kit	4
87011	PRO-Fit Swage kit	4

FEATURES

- Stopper ensures a consistent length of the flare/swage surface
- Tip guides the bit into the tube & forms a standard 45° flare or consistent swage
- Standard 1/4" Hex Shank fits directly into most power tools without adapter
- Color coded hex bits for easy ID
- Available in flare or swage bits
- Comes in a durable see-through case for better tool visibility

APPLICATION • Creates precise and fast standard 45° flare or swage in copper and aluminum line sets for Mini-split HVAC units • The spinning hex flare bit forms a standard 45° flare, and the hex swage bit forms a consistent swage without splits, burrs, blemishes or uneven edges that typically cause fitting connection leaks

RECOMMENDED FOR

- Copper & aluminum line sets • Mini-split HVAC units
- Any application requiring a 45° flare

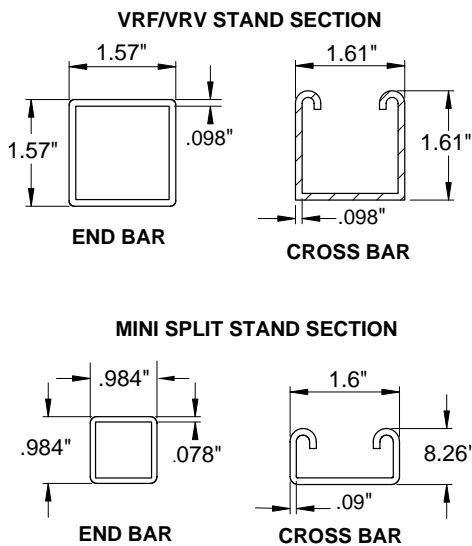




BIG FOOT® FAST FIX STAND RANGE

Simple, strong and sturdy ground mount support system.

Mini-split & VRF/VRV condenser stands



The **Fast Fix Stand Range** is a versatile ground mount support system split into two ranges, mini-splits and VRF/VRV condensing units. Available in a variety of sizes, with optional Extender Kits, the Stand Range is designed to support units both individually and in multiples.

With adjustability of cross bar positions, anti-vibration mounts for mini-splits and clamp kits for the VRF/VRV units, these frames can support a wide variety of units, are cost-effective and quick to assemble. • Rugged ASTM-A36 galvanized steel corrosion resistant support. • More corrosion resistant than competitor stands. • Pre-boxed – quick assembly.

- Base extensions allow unlimited mounting possibilities.
 - Compatible with all leading mini-split condensing units
- Available in a variety of sizes with extender kits.

Fast Fix Stands

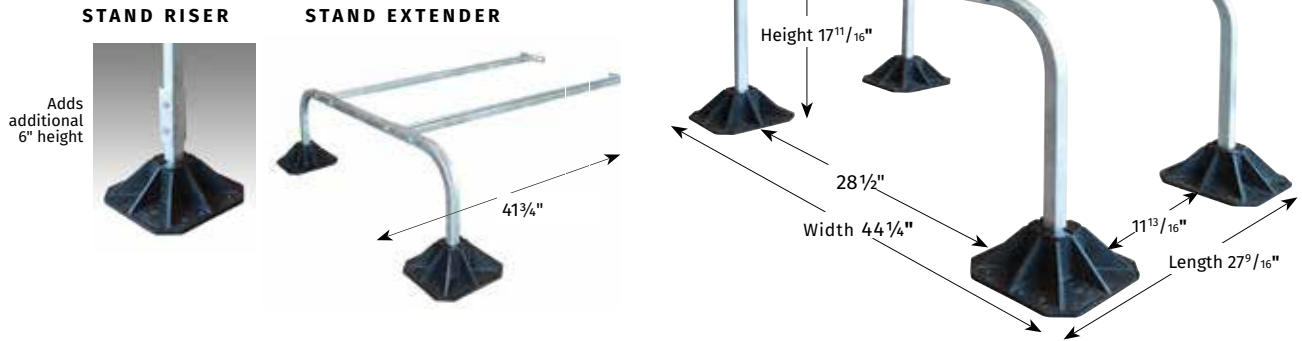
Mini-split Stand Range - 2 skus cover all mini-splits

Code	Description	Load lbs.	Wt. lbs.	Qty.
87630	B5551 Mini-split stand kit	385	49	1
87632	B5555 Riser – 4 pk.	-	3	1

Code	Description	Load lbs.	Wt. lbs.	Qty.
87631	B5554 Extender	385	42	1
87633	B5562 Riser – 2 pk.	-	2	1

B5551 SYSTEM COMPONENTS

- (4) 8 in.(200mm) Footings. (2) End Bar. (2) Cross Bar
- (4) Unit Clamp/Fixing Kit.



Fast Fix Stands

VRF/VRV Stand Range - 6 skus cover all VRF/VRV units

Code	Description	Load lbs.	Wt. lbs.	Qty.
87634	B5556 VRF 990 stand kit	1,323	77	1
87636	B5557 VRF 1290 stand kit	1,102	84	1
87638	B5558 VRF 1450 stand kit	882	90	1

Code	Description	Load lbs.	Wt. lbs.	Qty.
87635	B5559 VRF 990E Extender	1,323	55	1
87637	B5560 VRF 1290E Extender	1,102	62	1
87639	B5561 VRF 1450E Extender	882	68	1

990/1290/450 SYSTEM COMPONENTS

- (4) 8 in.(200mm) Footings. (2) End Bar. (2) Cross Bar
- (4) Unit Clamp/Fixing Kit.



Big Foot

Multi Frame



Code	Description	Qty.
87658	Multi Frame	1
87659	Multi Frame Extension	1
87660	Multi Frame 24" Leg	1
87661	Multi Frame Extension 24" Leg	1
87656	48" Multi Frame Crossbar	1

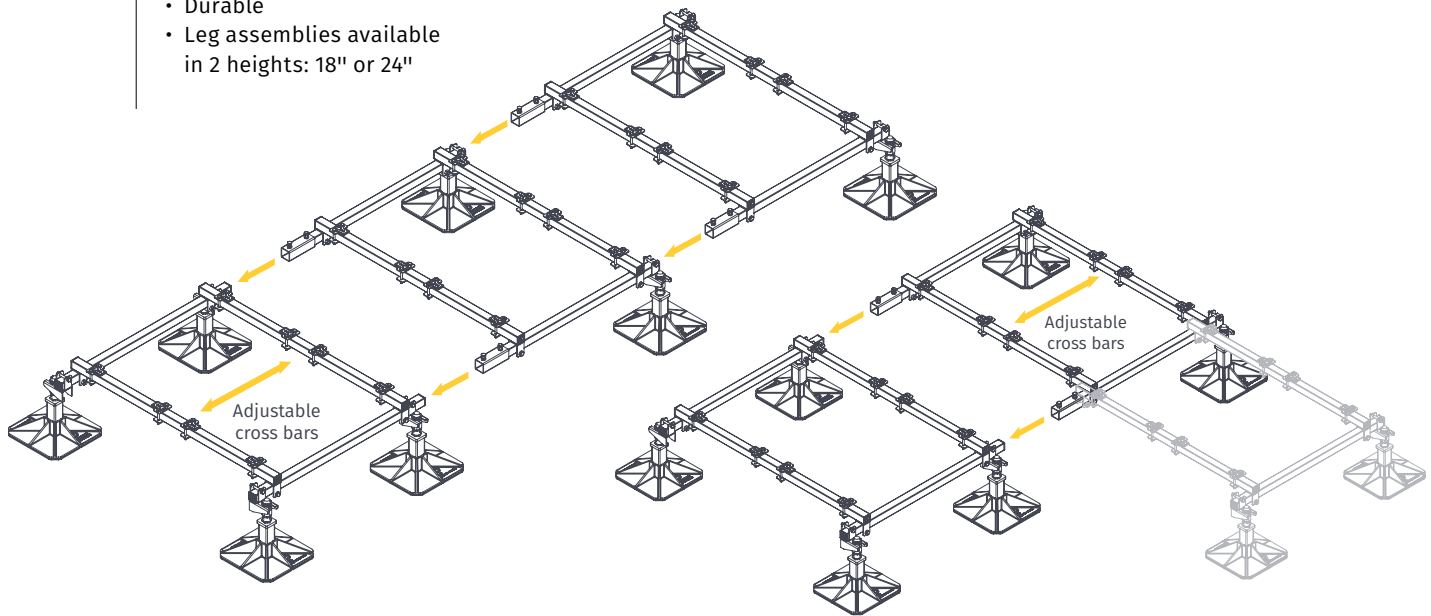
APPLICATION • Designed for VRF/VRV mounting
• Extendable from any side with extension kits

RECOMMENDED FOR

- Compressor • Condensers • VRV/VRFs • Small AHUs
- Unitary fans • Rooftops

FEATURES

- Galvanized steel frame with 12" feet
- 40" x 48" multiples
- Adjustable leg assemblies
- Supplied boxed with clamp kits
- Ideal rooftop support of equipment and systems
- Weather resistance
- Easy & quick to assemble
- Durable
- Leg assemblies available in 2 heights: 18" or 24"



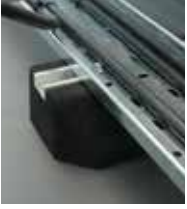
Multi Frame + 2 Extension kits

Multi Frame + 2 Extension kits (alternative layout)



Frame Tech on-line Configuration & Engineering Tool

Frame Tech is an on-line tool to help you configure the precise Multi Frame parts you'll need for your equipment and environment. Frame Tech will ask the right questions and will automatically provide you with engineering specs for max wind load (tip and slip) along with the pounds per foot calculations. Register for access to Frame Tech at: <https://frametech.bigfootsupport.com>



POLYMER & RUBBER RISERS

Polymer Risers

Simple lightweight raised mounting support



Code	Description	Qty.
87761 (PR-351N-I)	14" Polymer Riser	20
87762 (PR-351N-M)	18" Polymer Riser	20
87763 (PR-351N-L)	39" Polymer Riser	4
87765 (PRC-351N)	End Caps	1 Pair

FEATURES

- Ideal for piping, duct runs, cable trays and condensers
- Weather resistant PVC
- Linear track holds 3/8" hex head bolts
- Two 7/8" long bolts included

Max load capacity: PR-351N-I – 308 lbs.
PR-351N-M – 397 lbs. PR-351N-L – 880 lbs



Fix-It-Foot

Additional vibration isolation and stability

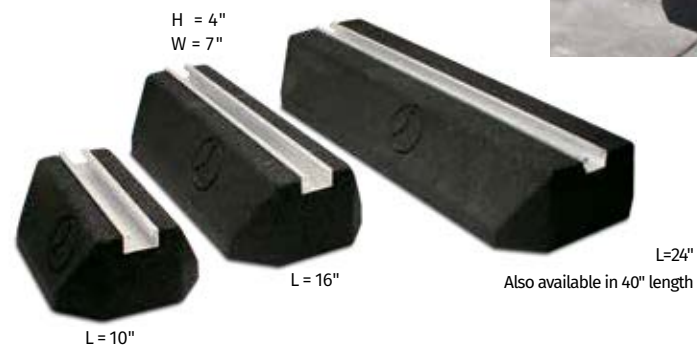


Code	Description	Qty.
87771 (RMB10)	Fix-It-Foot 10"	1
87773 (RMB16)	Fix-It-Foot 16"	1
87775 (RMB24)	Fix-It-Foot 24"	1
87776 (RMB40)	Fix-It-Foot 40"	1

FEATURES

- Ideal for rooftop support of equipment & systems
- Weather resistant
- Recycled crumb rubber pad
- Recessed underside permits solid stance
- Aluminum track permits the use of standard strut hardware (not included)

Max load capacity: RMB10-181 lbs. RMB16-282 lbs.
RMB24-494 lbs. RMB40-650 lbs



Fix-It-Foot Low

Low profile rubber riser



Code	Description	Qty.
87772 (RMB10L)	Fix-It-Foot Low 10"	1
87774 (RMB16L)	Fix-It-Foot Low 16"	1

FEATURES

- Ideal for rooftop support of equipment & systems
- Weather resistant
- Recycled crumb rubber pad
- Recessed underside permits stability
- Aluminum track permits the use of standard strut hardware (not included)

Max load capacity: RMB10L – 181 lbs RMB16L – 282 lbs





UNIVERSAL BRACKETS

Wall Bracket

Sliding cross bar provides exceptional width range



Code	Description	Qty.
87733 (WBB300)	Wall Bracket – powdercoat	1
87734 (WBB300SS)	Wall Bracket – stainless steel	1
87735 (WBB500)	Wall Bracket – powdercoat	1

FEATURES

- Strong secure support
- Stainless steel or powdercoat finish
- Includes level for convenience

Min/Max mounting width: 9³/₄" – 31"

Min/Max mounting depth: 10¹/₂" – 16"

Max load capacity: WBB300 – 300 lbs.

WBB300SS – 300 lbs. WBB500 – 500 lbs.



Wall Bracket

Extra integral cross bracing provides ultimate stability



Code	Description	Qty.
87732 (PCK30)	Wall Bracket	1

FEATURES

- Extra stability
- Galvanized finish

Min/Max mounting width: 15³/₄" – 35¹/₄"

Min/Max mounting depth: 9³/₄" – 15"

Max load capacity: 330 lbs.



Wall Bracket

Hurricane rated wind resistant support

Code	Description	Qty.
87740 (WBB500HR)	Wall Bracket	1

FEATURES

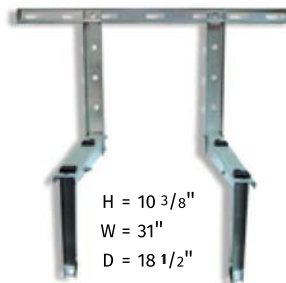
- Ultimate stability
- Galvanized finish

STATE OF FLORIDA APPROVED – FL18362

Min/Max mounting width: 9³/₄" – 31"

Min/Max mounting depth: 10¹/₂" – 16"

Max load capacity: 500 lbs.



**Miami-Dade
County, Florida**
NOA No. 15-0820.06, Expiration date 10/6/21

Wall Bracket

Ideal for in window mounted A/C support



Code	Description	Qty.
87731 (CBZG)	Under Window Bracket	1

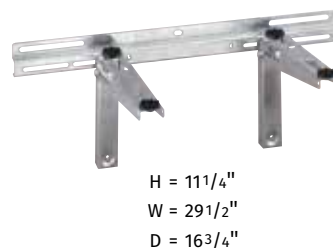
FEATURES

- Strong secure support • Galvanized finish

Min/Max mounting width: 11³/₄" – 27¹/₂"

Min/Max mounting depth: 6¹/₄" – 13"

Max load capacity: 176 lbs.



Slab Stand

Raises equipment up above flat surface



Code	Description	Qty.
87743 (CNG)	Slab Stand - powdercoat	1
87746 (PCNG63)	Slab Stand - galvanized	1

FEATURES

- Anti-slip rubber feet
 - Galvanized or powdercoat finish
- Min/Max mounting width:
87743 - 11³/₄" - 27¹/₂" 87746 - 15³/₄" - 39⁴/₆₄"
- Min/Max mounting depth:
87743 - 6¹/₄" - 13¹/₄" 87746 - 11¹³/₁₆" - 17"
- Max weight capacity:
87743 - 176 lbs. 87746 - 440 lbs.

Individually adjustable legs for uneven surfaces



Slope Stand

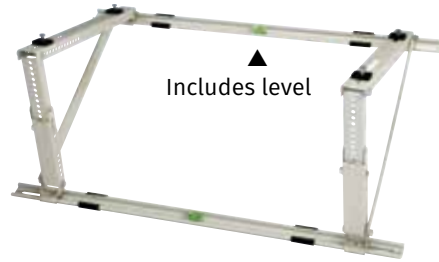
Provides level mounting surface on sloped roofs



Code	Description	Qty.
87745 (WRB250)	Wall Bracket	1

FEATURES

- Levels slopes up to 45° or 12" pitch
 - Powdercoat finish
- Min/Max mounting width: 6" - 35"
Min/Max mounting depth: 10" - 19"
Max load capacity: 250 lbs.



Duplex Stand

Securely mounts two condenser units



Code	Description	Qty.
87744 (CWGL)	Duplex Stand	1

FEATURES

- Sturdy support
 - Powdercoat finish
 - Anti-slip rubber feet
- Min/Max mounting width: CWGL - 15³/₄" - 31¹/₂"
Min/Max mounting depth: CWGL - 7⁷/₈" - 15"
Max load capacity: CWGL - 176 x 2 lbs.



87744
H = 36¹/₄"
W = 17"
D = 36"



NOVENT® LOCKING REFRIGERANT CAPS

Dual protection. Simple key style installation.

Novent® Pink

R410, Euro 5/16" thread, key

Code	Description	Qty.
86672 (NPE-R410)	2 cap blister 5/16"	20
86671 (NPE-R410)	10 cap blister 5/16"	5
86673 (NPE-R410)	50 cap box 5/16"	1

FEATURES

- Resists crushing & removal without key
- Corrosion resistant anodized aluminum
- Integral neoprene O-ring resists oils & sealants
- Torque limiter prevents overtightening

APPLICATION • Seals standard Schrader service valves on all central A/C units and mini-splits to help prevent refrigerant leakage • Protects from serious injury or death resulting from the inhalation of dangerous gases

RECOMMENDED FOR

- R410

5/16" Thread Pink

Patent No. 6,612,455





Safe-T-Switch®

EZ Trap®

AquaGuard®

Goliath®/Titan™ Pans & Risers

ArmorPad™

Novent®

Air Diffusers

GulfCoat™

TripleGuard™

Mounting & Installation



SAFE-T-SWITCH® OVERFLOW SWITCHES

The most reliable switch.

SS1 Float Switch

For primary drains or auxiliary drain outlets

Code	Description	Qty.
97632	Model SS1	24
97630	Contractor Pack	50



FEATURES

- Condensate overflow switch
- Magnetic reed switch
- Install vertically or horizontally
- Connect to either red or yellow wire
- NEW! Includes directional cleanout tool to provide cleanout access.
- POP Blister packaged

APPLICATION • Detects clogged A/C condensate drains and shuts off the system to prevent water damage to floors, walls and ceilings • Can be installed horizontally or vertically, inline or on the primary pan's auxiliary drain outlet by using the included 3/4" adapter, bushing and cap

- Can be installed on a sloping line and does not need to be level or plumb

US Patent No. 6,442,955



Can be installed in a horizontal or vertical position

SS2 Float Switch

For primary drain pan auxiliary outlet

Code	Description	Qty.
97637	Model SS2	24
97635	Contractor Pack	50



FEATURES

- Condensate overflow switch
- Magnetic reed switch
- Connect to either red or yellow wire
- POP Blister packaged

APPLICATION • Detects clogged A/C condensate drains and shuts off the system • Using the 3/4" adapter the SS2 can be installed on the auxiliary outlet of the primary drain pan • Easy access to the switch and the primary drain line for service

US Patent No. 6,442,955



A plenum rated model is available - SS2AP

SS3 Float Switch

For primary and auxiliary drain pans

Code	Description	Qty.
97647	Model SS3	24
97645	Contractor Pack	50



FEATURES

- Condensate overflow switch
- Magnetic reed switch
- Connect to either red or yellow wire
- POP Blister packaged

APPLICATION • Detects clogged A/C condensate drains and shuts off the system • Steel mounting bracket clips firmly over the edge of most drain pans • Slim profile can be installed on primary or auxiliary drain pans.

US Patent No. 6,698,215



Model SS2AP

Plenum rated

Code	Description	Qty.
97640	Model SS2AP	50



FEATURES

- Condensate overflow switch
- Magnetic reed switch
- Connect to either red or yellow wire

APPLICATION • Detects clogged A/C condensate drains and shuts off the system • Schedule 40 CPVC, plenum rated and listed to UL 2043 • Use 3/4" adapter to install on the auxiliary outlet of the primary drain pan.

US Patent No. 6,442,955



Model SS103E

Primary & auxiliary drain pans

Code	Description	Qty.
97692	Model SS103E	24



FEATURES

- Electronic probe sensor
- 5-wire design
- Onboard LED indicator
- Connect to either red or yellow wire

APPLICATION • For primary drain line and auxiliary drain pan or auxiliary drain outlet and auxiliary drain pan • Can be installed horizontally or vertically or inline

- Onboard LED indicates the condition of the unit at a glance
- No moving parts

US Patent No. 6,698,215



Model SS500EP

Commercial rooftop downflow units

Code	Description	Qty.
97693	Model SS500EP	12



FEATURES

- Electronic probe sensor
- 5-wire design
- Onboard LED indicator
- Plenum rated wire
- Connect to either red or yellow wire

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

US Patent No. 6,698,215



Model SS700E

Directly in the secondary drain pan

Code	Description	Qty.
97695	Model SS700E	12



FEATURES

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

APPLICATION • 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





EZ TRAP® 100 SERIES CLEAR TRAP™ KITS

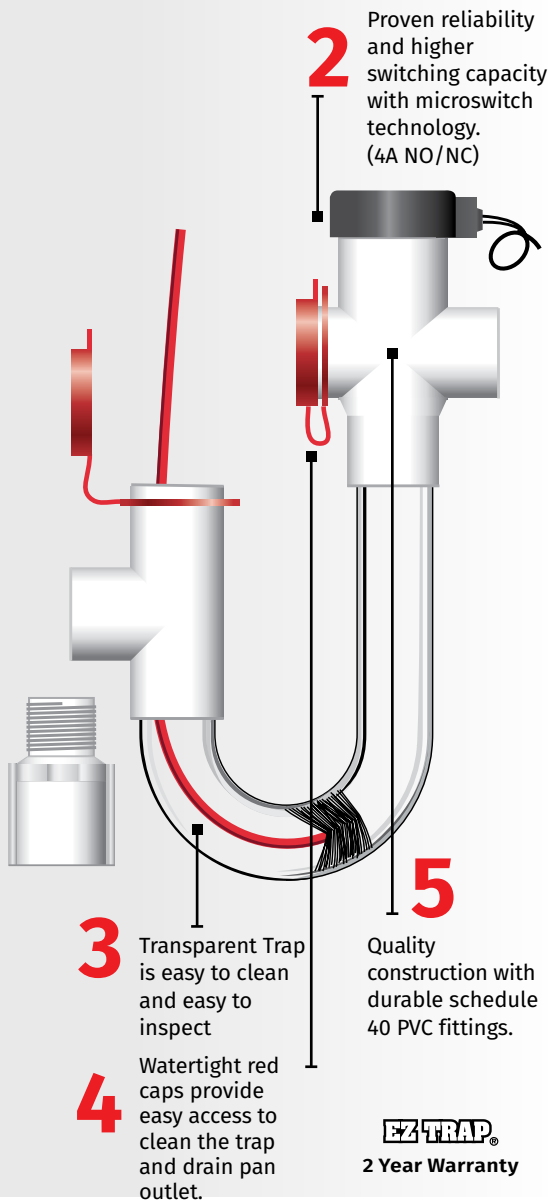
Clear cleanable trap



Condensate Traps and Overflow Switches

Easy Maintenance & Overflow Protection

1 **SmartTrap™** (200 SERIES) adds a float switch that warns of blockage and shut down the A/C unit. Slip fit float switch removes easily for cleaning and inspection.



Patent No. 5,069,042

RS #	(ref. #)	Size
83113	(EZT113)	3/4"



Economy trap kit no brush
Thinner walled trap for light duty applications. 10 per carton.
Includes: 3/4" trap, 3/4" cross, 3/4" tee, three 3/4" red caps, **1" drop.**

RS #	(ref. #)	Size
83114	(EZT113B)	3/4"



Economy trap kit w/brush
Thinner walled trap for light duty applications. 10 per carton.
Includes: 3/4" trap, 3/4" cross, 3/4" tee, three 3/4" red caps, cleaning brush, **1" drop.**

RS #	(ref. #)	Size
83119	(EZT119)	1"



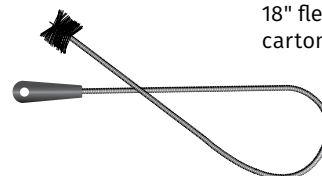
High flow commercial trap kit
for use when a 1" dia. discharge is required. 10 per carton.
Includes: 1" standard trap, 1" cross, 1" tee, 1" x 3/4" reducer bushing, 3/4" black stub, two 1" red caps, 1" male adaptor, cleaning brush, **1" drop.**

RS #	(ref. #)
83406	(EZT406)



Standard Cleaning Brush
18" flexible rod. 25 per carton

RS #	(ref. #)
83405	(EZT405)



Heavy Duty Cleaning Brush
18" flexible stainless rod. 10 per carton

200 SERIES SMARTTRAP™ KITS

Float switch overflow protection. Clear cleanable trap

RS #	(ref. #)	Size
83205	(EZT205)	3/4"



Deep SmartTrap kit

for fluctuating static pressure found in systems with variable speed air handlers. 10 per carton. **Includes:** 3/4" Deep Standard Trap, 1" cross, 1" red cap, 1"x 3/4" bushing, 3/4" tee, 3/4" black stub, 3/4" male adapter, float switch assembly, 72" cable, cleaning brush, **3" drop.**

RS #	(ref. #)	Size
83207	(EZT207)	3/4"



Side entry SmartTrap kit

for offset mounting on "A" coil applications on top of a vertical furnace. 10 per carton. **Includes:** 3/4" Standard Trap, 3/4" cross, two 3/4" red caps, 3/4" tee, 3/4" black stub, 3/4" male adapter, float switch assembly, 72" cable, cleaning brush, reducing tee, **1" drop.**

RS #	(ref. #)	Size
3210	(EZT210)	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, 72" cable, cleaning brush, **1" drop.**

RS #	(ref. #)	Size
83230	(EZT230)	3/4"



Tamper resistant SmartTrap kit

with threaded cleaning cap. Fits most applications Includes clear u-bend for inspection, and access ports for easy cleaning. 10 per carton. **Includes:** 3/4" Standard Trap, 1" cross, 3/4" locking cap, 1"x 3/4" bushing, 3/4" tee, 3/4" black stub, 3/4" male adapter, float switch assembly, 72" cable, cleaning brush, **1" drop.**

220 SERIES OVERFLOW SWITCHES

Float switch overflow protection.

RS #	(ref. #)	Size
83224	(EZT224)	3/4"



Compact overflow switch with 3/4" male threaded inlet

Thread into fitting on secondary drain pan. 10 per carton. **Includes:** 1"x 3/4" male threaded street ell, float switch assembly, 72" cable.

RS #	(ref. #)	Size
83225	(EZT225)	3/4"



Inline universal primary/secondary overflow switch

3/4" or 1" inlet, with 3/4" outlet. Install vertical or horizontal, inline or plugged. 10 per carton.

Includes: 1"x 3/4"x 1" tee, 3/4" male adaptor, 3/4" plug, 1"x 3/4" bushing, float switch assembly, 72" cable.

RS #	(ref. #)	Size
83226	(EZT226)	3/4"



Compact overflow switch with 3/4" female slip inlet

Two part design for use where obstructions prevent direct threading. 10 per carton.

Includes: 1"x 3/4" slip female street ell, 3/4" male adaptor, float switch assembly, 72" cable.

RS #	(ref. #)	Size
83228	(EZT228)	3/4"



Inline primary/secondary overflow switch

Same as 225 with clear extension tube for visual indication. 10 per carton.

Includes: 1"x 3/4"x 1" tee, 3/4" male adaptor, 3/4" plug, 1"x 3/4" bushing, float switch assembly, extension tube, 72" cable.

EZ TRAP® 100 SERIES WATERLESS KITS

Waterless freeze protection.

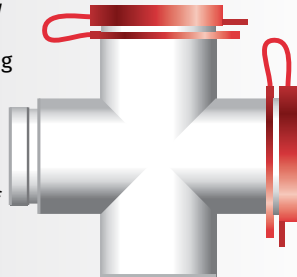


UltraTrap™ Waterless Condensate Traps

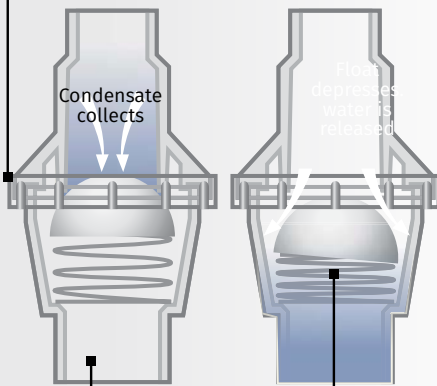
For Negative & Positive Pressure Systems
Up to .5" WG, Capacity 2.7 GPM

1 UltraTrap™

Unique patented design retains no water and needs no priming. Spring-assisted float eliminates standing water and freezing problems associated with conventional P traps. UltraTrap allows free flow of condensate while preventing reverse airflow.



2 Captive twist-off locking ring.



3 Transparent trap allows for easy cleaning and inspection.

4 Stainless steel spring.



2 Year Warranty

RS # (ref. #) Size

83150 (EZT150) 3/4" OR 1"



UltraTrap waterless trap kit

eliminates standing water and freezing problems. Positive or negative pressure systems. 5 per carton.

Includes: 3/4" UltraTrap, 3/4" cross, two 3/4" red caps, 3/4" male adaptor, 3/4" coupler, cleaning brush.

600 Combo kit

SERIES Clear Trap and Overflow Switch

RS # (ref. #) Size

83626 (EZT626) 3/4"

For coverage of the entire condensate drain system. 5 per carton.

Compact overflow switch with 3/4" female slip inlet

Two part design for use where obstructions prevent direct threading.

Includes: 1" x 3/4" slip female street ell, 3/4" male adaptor, float switch assembly, 72" cable.



Economy trap kit w/brush

Thinner walled trap for light duty applications.

Includes: 3/4" blow molded trap, 3/4" cross, 3/4" tee, three 3/4" red caps, cleaning brush, 1" drop.



AQUAGUARD SENSORS



AG-1100+

Magnetic Float Switch System for Metal Pans

Code	Description	Qty.
96100	Float Switch	30



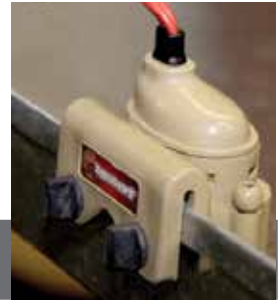
FEATURES

- Easy, Drill-Free Installation
- Pull Up Test Knob
- Protective Cover
- UL 508

US Patent 7,710,283

APPLICATION The AG-1100+ is incredibly easy to install. It can be mounted to the drain pan in 10 seconds or less. Installation does not require any pre-drilling for screws. The AG-1100+ incorporates a protective cover to keep out insulation and debris that could prevent the float from rising.

- Normally Open 3rd Wire for Optional External Alarm, Digital Controller, or Energy Management System
- Residential and Commercial
- High Capacity 5 Amp, 24 Volt AC Magnetic Float Switch



AG-1200+

Magnetic Float Switch System for Metal & Plastic Pans

Code	Description	Qty.
96106	Float Switch	30



FEATURES

- Easy, Drill-Free Installation
- Pull Up Test Knob
- Protective Cover
- UL 508

US Patent 7,710,283

APPLICATION • The AG-1200+ has all of the features of the 1100+ plus an innovative two-piece clamp design which allows it to be mounted to a metal secondary drain pan (without a lip) or a plastic secondary drain pan (with a lip) in 10 seconds or less, without screws or drilling. • Protective cover keeps out insulation, pests and debris.

- Normally Open 3rd Wire for Optional External Alarm, Digital Controller, or Energy Management System
- Residential and Commercial
- High Capacity 5 Amp, 24 Volt AC Magnetic Float Switch



AG-3175E

Primary Pan Sensor (Plenum Rated)

Code	Description	Qty.
96126	Primary Pan Sensor	10



FEATURES

- Time delay
- Plenum-rated probe & wire
- Install horizontal or vertical
- Water detection LED light
- Bonus secondary sensor
- Compact waterproof design
- UL 508 & UL 2043

US Patent 7,744,395; 8,151,580; 8,561,417; 8,578,770

APPLICATION • The AquaGuard AG-3175E's primary pan sensor is mounted directly in the auxiliary drain port of the primary drain pan. The bonus secondary sensor can be installed either vertically or horizontally and features a water detection LED.

- Redesigned probe sensor for increased reliability
- Two sensors for the price of one
- 6 Feet of both plenum rated probe & sensor wire
- 5 Amp, 24 Volts AC solid state sensor with water detection LED light
- Switch can be normally open or normally closed
- Normally open 4th wire for optional external alarm, digital controller or energy management systems



AG-1250E

Multipurpose Water Sensor

Code	Description	Qty.
96108	Water Sensor	30



FEATURES

- Either normally open or normally closed
- Solid state sensor with water detection LED
- NEW adjustable height mount
- 6 feet of control wire
- 5 amp capacity, 0-24 Vac/dc
- Can be used with communicating systems
- UL 508

US Patent 8,578,770

APPLICATION • The AG-1250E multipurpose water sensor is mounted directly in a metal or plastic secondary pan, floor or wall. The AG-1250E is a high-amperage, solid state sensor with no moving parts to break down or become clogged. The low profile design makes it easy to install.

- Normally Open Wire for Optional External Alarm, Digital Controller or Energy Management
- Versatile mounting options allow positioning on the unit, in a secondary pan, floor or wall
- Clip on mounting base for easy cleaning and drying of sensor



AG-2550E

Inline Water Sensor

Code	Description	Qty.
96110	Inline Water Sensor	10



FEATURES

- Removable cap
- Install horizontal or vertical
- Water detection LED light
- Bonus secondary sensor
- Either normally open or normally closed
- 6 feet of probe & sensor wire
- Elbow & straight coupling adapters included
- 5 amp capacity, 0-24 Vac/dc
- Can be used with communicating systems
- 2 Sensors for price of 1
- UL 508

US Patent 8,154,313 & 8,578,770

APPLICATION • The AG-2550E electronic water sensor is designed for use on the primary drain line and is integrated with an access port for clearing and removing clog causing debris. The water sensor has no moving parts and the unique design of the insulated housing allows the application of chemicals to clean the drain without any worry of retrograde backflow into your HVAC unit.

- Electronic In-Line Water Sensor and Insulated Access Port for Primary Drain Lines
- Unobstructed 3/4 Inch Flow-Switch does not Impede Drainage
- Integrated Easy Access Port for Cleaning Out Drain Lines and Adding Chemicals.
- Bonus Secondary Sensor with Water Detection LED Light for secondary drain pans
- Normally Open Wire for Optional External Alarm, Digital Controller or Energy Management Systems.



AQUAGUARD® SENSORS

Continued

AG-3125E

Primary Pan Sensor

Code	Description	Qty.
96120	Primary Pan Sensor	30
96122	Primary pan Sensors - 6 pks	5



FEATURES

- Time delay
- Water detection LED
- Adhesive tape mounting
- 6 feet of wire
- Either normally open or normally closed
- 5 amp capacity, 0-24 Vac/dc
- Can be used with communicating systems
- UL 508

US Patent
8,151,580; 8,154,313;
8,561,417; 8,578,770

APPLICATION • The AG-3125E primary pan sensor is mounted directly in the auxiliary drain port of the primary pan. The AG-3125E is a high amperage (24VAC, 5Amp), solid state sensor with no moving parts to break down or become clogged.

- Voltage rating: 24 vac, 5 amp
- LED indicator light for easy troubleshooting
- Compact waterproof design



AG-3150E

Primary pan sensor

Code	Description	Qty.
96124	Primary Pan Sensor	10



FEATURES

- Time delay
- Plenum-rated probe & wire
- Install horizontal or vertical
- Water detection LED light
- Bonus secondary sensor
- Compact waterproof design
- UL 508

US Patent 7,744,395; 8,151,580; 8,561,417; 8,578,770

APPLICATION • The AquaGuard AG-3150E's primary pan sensor is mounted directly in the auxiliary drain port of the primary drain pan. The bonus secondary sensor can be installed either vertically or horizontally and features a water detection LED.

- Redesigned probe sensor for increased reliability
- Two sensors for the price of one
- 6 Feet of both probe & sensor wire
- 5 Amp, 24 Volts AC solid state sensor with water detection LED light
- Switch can be normally open or normally closed
- Normally open 4th wire for optional external alarm, digital controller or energy management systems



AG-3180E

Micro pan sensor (Plenum Rated)



Code	Description	Qty.
96128	Micro Pan Sensor	10



FEATURES

- Time Delay Up to 60 sec
- Plenum Rated Probe & Wire
- Micro pan sensor
- Water detection LED light
- Bonus Secondary Sensor
- Adjustable mounting clips
- Can be mounted with double sided tape or adjustable mounting clips
- UL 508

US Patent 8,578,7700

APPLICATION • The AquaGuard AG-3180E micro-electronic condensate sensor is mounted directly in the primary drain pan. The bonus secondary sensor features water detection LED and easily installs in the metal or plastic secondary drain pan. Both sensors continuously monitor any condensate overflow in the primary and secondary drain pans and automatically shut off the system and activate an alarm if any overflow is detected.

- Ideal for commercial package units, metal/plastic secondary drain pans & primary pan with time delay
- Meets International Building Codes & Primary Pan Code Requirements
- 6 Feet of Both Plenum Rated Probe and Sensor Wire
- 5 Amp, 24 VAC Solid State Sensor
- Switch Can Be Normally Open or Normally Closed
- Normally Open Wire for Optional External Alarm, Digital Controller or Energy Management Systems



AG-2510

AquaMate In-line Accessory Port

Code	Description	Qty.
96186	In-Line Port	10

FEATURES

- Allows easy access
- Install horizontal or vertical
- Prevents retrograde backflow
- Pre-insulated to prevent freezing or cracking

APPLICATION • The AG-2510 AquaMate In-Line maintenance and clean out port attaches directly to the primary or secondary drain line and allows easy access into the drain line for routine maintenance or in the event of a clog, which can be caused by dust, debris or insulation.



AG-4200E

Electronic condensate management sensor system



Code	Description	Qty.
96143	Primary Pan Sensor	1



FEATURES

- Switch can be normally open or normally closed
- 5 amp, 24 volts AC solid state sensor with water detection LED light
- Adjustable height mount
- 6 feet of control wire
- UL 508

US Patent 8,317,16970

APPLICATION • Multipurpose Condensate Overflow Sensor that combines the proven water sensing technology of the AG-1250E with our industry leading Goliath and Titan drain pan line to deliver the ultimate condensate management system. The AG-4200E is the complete condensate management system for Goliath, Goliath Furnace, Goliath Value Series and Titan Drain Pans

- 24 VAC, 5 Amp
- Controls Normally Open or Normally Closed
- 6' of Standard Control Wire
- Compact Waterproof Design
- Includes Vibration Isolators



AG-4200M

Magnetic condensate management system

Code	Description	Qty.
96142	Primary Pan Sensor	1



FEATURES

- Easy, Drill-Free Installation
- Pull Up Test Knob
- Water detection LED light
- Protective Cover
- UL 508

US Patent 8,578,770; 8,317,1690

APPLICATION • Multipurpose condensate overflow sensor that combines the incredibly easy to install AG-1100+ with our industry leading Goliath and Titan drain pan line to deliver the ultimate condensate management system. It can be mounted to the drain pan in 10 seconds or less. Installation does not require any pre-drilling for screws. The AG-1100+ incorporates a protective cover to keep out insulation and debris that could prevent the float from rising. The AG-4200M is the complete condensate management system for Goliath, Goliath Furnace, Goliath Value series and Titan Drain pans.

- 3/4" PVC threaded male pipe adapter
- Normally Open 3rd Wire for Optional External Alarm, Digital Controller, or Energy Management System
- Residential and Commercial
- High Capacity 5 Amp, 24 Volt AC Magnetic Float Switch
- Includes Vibration Isolators

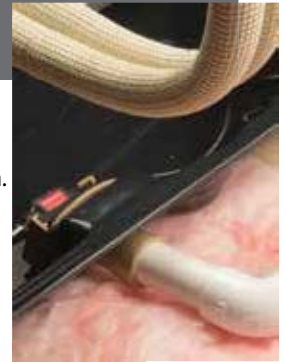


AQUAGUARD® SENSORS

Continued

AG-4250E

Primary and Secondary Pan Condensate Sensor



Code	Description	Qty.
96148	Condensate Management System	1



FEATURES

- Two sensors
- Time delay up to 60 sec
- Smart sensor technology
- 1/4 inch trigger depth
- Water detection LED light
- Wire for alarm
- Either normally open or normally closed
- UL 508

US Patent 8,578,770; 8,317,169

APPLICATION • We've combined the proven water sensing technology of the AG-3150E with our industry leading drain pans to deliver the ultimate condensate management system. Providing the security of TWO sensors and the durability of our drain pans. The AG-4250E is the complete condensate management system for Goliath, Goliath Furnace, Goliath Value, and Titan Flexible Series Secondary Drain Pans.

- 2 Sensors – Primary and Secondary Pans • 24 VAC, 5 Amp
- Smart Sensor Technology (Patent Pending) • 6' of Standard Control Wire • Compact Waterproof Design
- Includes Vibration Isolators



AG-9100

External Audible and Visual Remote Alarm

Code	Description	Qty.
96180	Ext. Audio/Visual Alarm	10

FEATURES

- No battery required
- Bright white LED alarm
- 103db Audible Alert
- 12 Inches of Lead Wire
- 12-24 VAC / 6-32 VDC circuit
- Audio silence switch

APPLICATION • The ONLY multipurpose remote alarm approved for use with AquaGuard condensate management systems. The AG-9100 Audible & Visual Remote Alarm is connected directly to AquaGuard Condensate Management System. When activated, the AG-9100 produces an audible and visual signal. Can be Conveniently Mounted to a Wall, Ceiling, or Directly to a Hot Water Tank or HVAC/R Unit with Two Screws or Included Adhesive Pad Over 250 Feet Away from a Condensate Overflow Switch

- For Use With** • AG-1100+ • AG-1200+ • AG-1250E • AG-2550E
 • AG-3150E • AG-3175E • AG-3180E
 • AG-3575E • AG-4200





GOLIATH CONDENSATE PANS

Goliath®

Secondary Drain Pans

Code	Pan Size	Qty.
96200	26x56"	10
96202	28x57"	10
96204	28x69"	10
96206	30x50"	10
96208	30x62"	10
96210	30x66"	10

FEATURES

- Hangable
- Extreme temperature durability
- High tensile strength
- Crack/split/leak/rust resistant
- Self extinguishing

US Patent 7,900,795



APPLICATION • Goliath Series Secondary Drain Pans are the strongest, most rugged HVAC secondary drain pans on the market today • Made With Pride from our own blend of advanced polymer DexElar® material, Goliath Series Secondary Drain Pans are engineered with superior one piece structural strength to produce a nearly indestructible drain pan with rolled edges and no seams • Each pan is strong enough to hang using only one pair of steel support struts, ensuring a quick-and-easy professional installation • Features a network of built-in risers, which are compatible with a wide variety of sizes of HVAC units and eliminate the need to shop around for additional risers or mounting blocks. Some Goliath pans have lower risers when space is restricted • Risers run the length of pan for better strength when hanging • Each pan has specially designed indentations for placement of hanging brackets • Goliath Series Secondary Drain Pans are compatible with our AG-4200 Condensate Management System water sensor and drain adapter as well as AG-GFR Vibration Isolators to quiet any noisy HVAC unit.



All pans meet or exceed all international building codes and come with a 10 Year Limited Warranty.

Goliath®

Value Series Secondary Drain Pans

Code	Pan Size	Qty.
96214	30x50"	10
96216	30x62"	10
96218	30x66"	10

FEATURES

- Extreme temperature durability
- High tensile strength
- Crack/split/leak/rust resistant
- Self extinguishing

US Patent 7,900,795



APPLICATION • Goliath Value Series Secondary Drain Pans are the affordable solution for fixed placement, solid surface applications when hanging a secondary drain pan and HVAC unit is not necessary. They are Made with Pride from our advanced polymer DexElar® material and feature a network of built-in risers, which are compatible with a wide variety of sizes of HVAC units • Superior strength, durability and versatility when compared to other HVAC secondary drain pans made of traditional ABS plastics. • Will not crack, split, or rust like a metal secondary drain pan • Can support 40% more weight than a traditional ABS plastic pan • Extreme temperature durability – 20°F (-28°C) to 260°F (126.7°C) with a higher melting point and self extinguishing characteristics not found in competitors' secondary drain pans • DexElar® material is a safer material of choice than ABS plastic • Are compatible with our AG-4200 Condensate Management System water sensor and drain adapter as well as AG-GFR Vibration Isolators to quiet any noisy HVAC unit.



Goliath & Titan Series are made of DexElar® advanced polymer.



Goliath Value Series Non-Hangable Secondary Drain Pans are to be used only for fixed placement HVAC installations and must be supported by a solid surface and are not to be hung in any application

All pans meet or exceed all international building codes and come with a 5 Year Limited Warranty.

GOLIATH FURNACE CONDENSATE PANS AND RISERS

Goliath® Furnace

Secondary Drain Pans Furnace Series

Code	Pan Size	Qty.
96220*	30x36"	10
96222	34x64"	10
96224	34x79"	10

FEATURES

- Extreme temperature durability
- High tensile strength
- Crack/split/leak/rust resistant
- Self extinguishing

APPLICATION • Goliath Furnace Series Secondary Drain Pans offer all the same benefits and features of our Goliath Series Secondary Drain Pans and are specifically designed for the unique clearance needs of furnace installations and piping requirements. • With 7" of clearance, Goliath Furnace pans offer the necessary clearances for any piping that needs to run below a furnace unit – especially with condensing furnace installations. • Made with Pride from our own blend of advanced polymer DexElar® material. They are engineered with superior one-piece structural strength to produce a nearly indestructible furnace pan with rolled edges and no seams. Each pan provides extreme temperature durability (-40°F to 260°F), high tensile strength, crack/split/leak/rust resistance, and are self extinguishing. • Goliath Furnace Series Secondary Drain Pans are compatible with our AG-4200 Condensate Management System water sensor and drain adapter as well as 10 AG-GFR Vibration Isolators to quiet the operation of any noisy furnace unit.



*The Goliath Furnace 30" x 36" pan is designed exclusively for vertical, up flow applications.

All pans meet or exceed all international building codes and come with a 10 Year Limited Warranty.



Goliath® Furnace

Riser kits

Code	Pan Size	Qty.
96254	GFR 28x6"	16
96250	GFR 23x4"	16
96252	GFR 23x7"	16

FEATURES

- Constructed of DexElar®, the same durable material as Goliath and Titan HVAC secondary drain pans.
- Will not rust or crack and provide 10x the strength as metal risers.
- Compatible with our Titan secondary drain pans, metal pans or can be used as a standalone.
- Available vibration isolators quiet noisy furnace units

APPLICATION • Goliath Furnace Risers (GFR) are the perfect solution for any furnace installation. GFRs raise furnaces providing the necessary clearance to accommodate piping and p-traps. • Available in three sizes, GFR 28x6, GFR 23x4 and GFR 23x7 to accommodate a variety of furnace installation needs. • Installation is quick and easy, the GFRs are made to fit either lengthwise or width wise in our Titan pans or fabricated metal pans. • DexElar® material is 10X stronger than competing metal risers.

US Patent 8,220,768



All Goliath Furnace Risers meet or exceed all international building codes and come with a 3 Year Limited Warranty.

TITAN CONDENSATE PANS

Titan™

Secondary Drain Pans Flexible Series

Code	Pan Size	Qty.
96230	24x24"	10
96234	30x30"	10
96236	32x32"	10
96238	30x50"	10
96240	30x62"	10

FEATURES

- Extreme temperature durability
- High tensile strength
- Crack/split/leak/rust resistant
- Self extinguishing

APPLICATION • Used when space requirements are tight, the Titan Flexible Series Secondary Drain Pans are more flexible and durable than fabricated metal or plastic pans • Created from our blend of advanced polymer DexElar® material will not rust, crack, split or leak like a traditional fabricated metal secondary drain pan. DexElar® material provides extreme temperature durability (-40°F to 260°F), high tensile strength and is self extinguishing • Titan pans are manufactured with rolled edges and no seams for superior one-piece structural strength and flexibility • They are also specifically designed and engineered to be completely compatible with our Goliath Furnace Series Furnace Risers to create a complete and professional HVAC installation • Made with Pride, Titan Flexible Series Secondary Drain Pans are compatible with our AG-4200 Condensate Management System water sensor and drain adapter



All Titan Flexible Series Secondary Drain Pans meet or exceed all international building codes and come with a 3 Year Limited Warranty.



ARMORPAD EQUIPMENT PAD

ArmorPad™

Code	Description	Qty.
84401	24"x 24"x 3" Equipment Pad	14
84403	30"x 30"x 3" Equipment Pad	14
84404	32"x 32"x 3" Equipment Pad	14
84405	36"x 36"x 3" Equipment Pad	14
84406	40"x 40"x 3" Equipment Pad	14
84418	35"x 18"x 2" Mini-split Equipment Pad	12

FEATURES

- Light-weight at less than 11 lbs
- Extreme durability with load capacity of more than 1400 lbs/sq ft
- High anchoring strength for securing equipment
- Textured surface to prevent equipment sliding
- Long-term exterior weather resistance including UV resistance, and freeze and thaw resistance
- Vibration absorbing
- Chemical resistance against R-407c and R-410A, compressor oil, coil cleaners, and salt solution

Equipment pad

APPLICATION • Provides support and lift for the HVAC outdoor condenser unit outdoor • Provides a strong and stable equipment platform for uneven surfaces

RECOMMENDED FOR • Residential and commercial HVAC units
• Outdoors



◀ Available for Mini-split too!



NOVENT®

LOCKING REFRIGERANT CAPS

Meet IMC® IRC® code



- Protect children.
- Protect homeowners from liability.
- Protect A/C system efficiency.



Inhalant Abuse.

Breathing in vapor or gases to reach a high or altered state of mind, commonly called "Huffing, Sniffing, Bagging or Dusting". Inhalants are legal and found in everyday products like glue, paint and the refrigerant gas (Freon) in your A/C unit.

Over 2.6 million children, aged 12-17 use inhalant each year to get high. Special tools are required to apply and remove the caps, making it difficult for non-professionals to access the refrigerant.

Proven, instant protection.

Novent® protects lineset refrigerant gas against intoxication by inhalation of toxic refrigerant gas. Special tools are required to apply and remove the caps, making it difficult to access the refrigerant. They are code compliant, proven to reduce venting, energy loss, and provide protection from serious injury or homeowner liability.

Insist on code compliant caps.

Effective February 2009 the International Mechanical Code and International Residential Code require that all outdoor access ports on AC Refrigerant circuits be fitted with locking-type caps to make tamper resistant.

Novent® locking AC refrigerant caps are the proven code compliant solution in the marketplace.





NOVENT® LOCKING REFRIGERANT CAPS

Dual protection. Simple key style installation.

Novent® Silver

Any gas, 1/4" thread, key

Code	Description	Qty.
86692 (NS-UNI)	2 cap blister	20
86691 (NS-UNI)	10 cap blister	10
86693 (NS-UNI)	50 cap box	1
86694 (NS-UNI)	100 pack	1

FEATURES

- Resists crushing & removal without key
- Corrosion resistant anodized aluminum
- Integral neoprene O-ring resists oils & sealants
- Torque limiter prevents overtightening

APPLICATION • Seals standard Schrader service valves on all central A/C units and mini-splits to help prevent refrigerant leakage • Protects from serious injury or death resulting from the inhalation of dangerous gases

RECOMMENDED FOR

- Any gas

1/4" Thread Silver

Patent No. 6,612,455



Novent® Pink

R410, 1/4" thread, key

Code	Description	Qty.
86682 (NP-R410)	2 cap blister 1/4"	20
86681 (NP-R410)	10 cap blister 1/4"	10
86683 (NP-R410)	50 cap box 1/4"	1
86684 (NP-R410)	100 pack 1/4"	1

FEATURES

- Resists crushing & removal without key
- Corrosion resistant anodized aluminum
- Integral neoprene O-ring resists oils & sealants
- Torque limiter prevents overtightening

APPLICATION • Seals standard Schrader service valves on all central A/C units and mini-splits to help prevent refrigerant leakage • Protects from serious injury or death resulting from the inhalation of dangerous gases

RECOMMENDED FOR

- R410

1/4" Thread Pink

Patent No. 6,612,455



Novent® Green

R22, 1/4" thread, key

Code	Description	Qty.
86662 (NG-R22)	2 cap blister	20
86661 (NG-R22)	10 cap blister	10
86663 (NG-R22)	50 cap box	1
86664 (NG-R22)	100 pack	1

FEATURES

- Resists crushing & removal without key
- Corrosion resistant anodized aluminum
- Integral neoprene O-ring resists oils & sealants
- Torque limiter prevents overtightening

APPLICATION • Seals standard Schrader service valves on all central A/C units and mini-splits to help prevent refrigerant leakage • Protects from serious injury or death resulting from the inhalation of dangerous gases

RECOMMENDED FOR

- R22

1/4" Thread Green

Patent No. 6,612,455



NOVENT® LOCKING REFRIGERANT CAPS

Continued

Novent® Starter Pack

Code	Description	Qty.
86668 (NG-STARTPACK)	(3) R22, (3) R410 caps (1) Multikey	10
86680 (NP-STARTPACK)	(6) R410 caps (1) Multikey	10
86690 (NS-STARTPACK)	(6) UNI caps (1) Multikey	10

FEATURES

- Resists crushing & removal without key
- Corrosion resistant anodized aluminum
- Integral neoprene O-ring resists oils & sealants
- Torque limiter prevents overtightening

Caps & keys

APPLICATION • Seals standard Schrader service valves on all central A/C units and mini-splits to help prevent refrigerant leakage

- Protects from serious injury or death resulting from the inhalation of dangerous gases

RECOMMENDED FOR

- All types of refrigerants; Color coded caps and embossed ID prevent refrigerant gas mixing

1/4" Thread **Silver**
(universal)

1/4" Thread **Pink**

1/4" Thread **Green**

Patent No. 6,612,455



Novent® Keys

Code	Description	Qty.
86698 (NVMULTIKEY)	Multikey blister	20
86688 (NP-R410SDT)	Pink screwdriver	20
86660 (NG-R22-SDT)	Uni & green screwdriver	20

FEATURES

- Selection of installation tools available
- Corrosion resistant



Special installer & removal key

APPLICATION • 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

RECOMMENDED FOR

- All types of refrigerants

Patent No. 6,612,455



AIRTEC

ONE PIECE AIR DIFFUSERS

Our patented 73 second



- Patented one piece grille, damper box.
- Virtually air tight.
- Lightening fast installation.

Virtually air tight butterfly damper
Rubber gasket delivers superior seal
when closed.

Stepped Collar for
multiple duct sizes ▶

Collar tabs easily tear away
unnneeded sections ▶



Mounting Clip accomodate
thicknesses up to 1¼"

Damper Handle
allows smooth, easy turning
adjustment from below
for fully open to tightly
closed position ▶

▲ High Grade Polymer Grille
resists breakage, scratching,
yellowing and fading.

USA ★

diffuser install is the quickest in the trade.



C H O O S E C L A S S I C O R R E T R O S T Y L E



Airtec® Classic GRILLE DAMPER BOX

Think fast Work smart.® Our one piece design is virtually air tight, eliminating the need for tedious mastic and external sealers. That cuts attic time. Diffuser installation is no longer a two man job. Labor estimates will be more competitive and you can pocket the profit. You won't want to go back to a metal diffuser ever again.

Strong, Versatile, Quiet.

Airtec Classic is molded with professional grade polymers for long lasting durability. Choose from five grille styles to deliver the optimum air flow and movement pattern for any room. Stepped collar tears off easily to enlarge duct size to maximize job site flexibility. Virtually air-tight construction ensures efficient and quiet air delivery. 2 Sizes available.

U. S. Patent No. 6,557,826

Contact: RectorSeal®

☎ 713-263-8001 | 800-231-3345



Airtec® Retro GRILLE DAMPER BOX

Retro style. Same innovation. Something unexpectedly beautiful for your discriminating customer. Retro diffusers simulate the look of traditional cast iron, to add a sense of warmth missing in contemporary diffusers.

For Premium Installations.

Distinguish yourself from your competition with Airtec Retro reproduction antique styled air diffusers. Your discerning customer can have the look and feel of a reproduction cast iron grille without the high cost and weight. Simulated cast iron texturing is scratch and rust resistant. Authentic handle turns easily for full range of air flow adjustment. Airtec Retro offers the same advanced technology and labor saving installation time as the standard Airtec diffuser line. Available in black and white. 2 sizes available.

U. S. Patent No. 6,557,826

☎ 713-263-7577 | 800-441-0051

🌐 rectorseal.com

AIRTEC® DIFFUSER AIR FLOW SPECIFICATIONS



2-way 3-way 4-way Round Return/exhaust Antique

RS # (ref. #)
81912 (MV2) Ak=.33

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.006 WG	4.9 ft	164 ft/min
75	.009 WG	6.7 ft	229 ft/min
90	.014 WG	8.0 ft	264 ft/min
110	.021 WG	9.8 ft	330 ft/min
125	.027 WG	11.1 ft	375 ft/min
150	.039 WG	13.4 ft	451 ft/min
175	.053 WG.	15.6 ft	533 ft/min
200	.069 WG	17.8 ft	604 ft/min
250	.108 WG	22.3 ft	757 ft/min
300	.156 WG	26.7 ft	909 ft/min
350	.212 WG	31.2 ft	1060 ft/min



RS # (ref. #)
81902 (MV2S) (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.028 WG	4.5 ft	308 ft/min
75	.054 WG	6.0 ft	421 ft/min
90	.102 WG	7.1 ft	592 ft/min
110	.145 WG	8.9 ft	663 ft/min
125	.181 WG	10.3 ft	785 ft/min
150	.245 WG	11.5 ft	903 ft/min
175	.325 WG.	12.6 ft	1045 ft/min
200	.430 WG	14.0 ft	1155 ft/min

RS # (ref. #)
81913 (MV3), 81943 (GRD3) (8x8") Ak=.29

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.008 WG	5.0 ft	188 ft/min
75	.014 WG	6.8 ft	255 ft/min
90	.020 WG	8.1 ft	310 ft/min
110	.030 WG	9.9 ft	370 ft/min
125	.038 WG	11.3 ft	445 ft/min
150	.054 WG.	13.5 ft	517 ft/min
175	.073 WG.	15.8 ft	602 ft/min
200	.095 WG	18.0 ft	689 ft/min
250	.148 WG	22.5 ft	862 ft/min
300	.213 WG	27.0 ft	1034 ft/min
350	.289 WG	31.5 ft	1206 ft/min



Throw measurements are equal in all three directions +/-5%

RS # (ref. #)
81903 (MV3S) (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.056 WG	5.3 ft	344 ft/min
75	.075 WG	7.2 ft	426 ft/min
90	.130 WG	8.8 ft	570 ft/min
110	.171 WG	10.2 ft	661 ft/min
125	.230 WG	11.1 ft	785 ft/min
150	.290 WG	11.5 ft	880 ft/min
175	.445 WG.	12.1 ft	994 ft/min
200	.545 WG	12.8 ft	1182 ft/min

RS # (ref. #)
81914 (MV4), 81944 (GRD4) & 81834 (GR4) (8x8") Ak=.30

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.007 WG	3.9 ft	183 ft/min
75	.011 WG	5.3 ft	247 ft/min
90	.017 WG	6.4 ft	293 ft/min
110	.024 WG	7.8 ft	359 ft/min
125	.030 WG	8.9 ft	410 ft/min
150	.043 WG	10.6 ft	505 ft/min
175	.057 WG.	12.4 ft	562 ft/min
200	.073 WG	14.2 ft	640 ft/min
250	.114 WG	17.7 ft	833 ft/min
300	.164 WG	21.3 ft	1000 ft/min
350	.223 WG	24.8 ft	1166 ft/min



RS # (ref. #)
81904 (MV4S) (6x6") Ak=.20

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.050 WG	4.5 ft	330 ft/min
75	.085 WG	6.3 ft	361 ft/min
90	.117 WG	7.1 ft	440 ft/min
110	.160 WG	8.2 ft	527 ft/min
125	.200 WG	9.1 ft	605 ft/min
150	.290 WG	10.2 ft	750 ft/min
175	.395 WG.	10.9 ft	875 ft/min
200	.490 WG	11.5 ft	962 ft/min

RS # (ref. #)
81911 (MV360)(8x8") Ak=.33

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.002 WG	3.0 ft	161 ft/min
75	.003 WG	3.6 ft	223 ft/min
90	.004 WG	3.8 ft	269 ft/min
110	.005 WG	4.0 ft	328 ft/min
125	.006 WG	5.0 ft	381 ft/min
150	.010 WG	5.5 ft	449 ft/min
175	.015 WG.	6.5 ft	527 ft/min
200	.021 WG	7.0 ft	612 ft/min
250	.029 WG	8.0 ft	755 ft/min
300	.038 WG	9.0 ft	904 ft/min
350	.045 WG	10.0 ft	1055 ft/min



RS # (ref. #)
81901 (MV360S) S (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.006 WG	0.8 ft	214 ft/min
75	.009 WG	1.5 ft	284 ft/min
90	.014 WG	2.2 ft	347 ft/min
110	.018 WG	2.3 ft	415 ft/min
125	.025 WG	3.2 ft	437 ft/min
150	.036 WG	4.4 ft	544 ft/min
175	.045 WG.	5.5 ft	614 ft/min
200	.060 WG	6.4 ft	699 ft/min

*All throw measurements are made from the center of the grille to a terminal velocity of 50 feet per minute. Direction determined by grille profile.

**Noise level of any diffuser is directly related to face velocity. As a general rule face velocity should be under 800 FPM for residential applications. The MV diffuser with its one piece molded design, outperforms comparable diffusers causing less turbulence and noise.

RS # (ref. #)
81915 (MVE) (8x8") Ak=.37

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0005 WG	0.8 ft	92 ft/min
75	.0008 WG	2.1 ft	151 ft/min
90	.0014 WG	3.4 ft	207 ft/min
110	.0017 WG	5.6 ft	255 ft/min
125	.0020 WG	7.8 ft	350 ft/min
150	.0030 WG	9.7 ft	445 ft/min
175	.0050 WG.	11.4 ft	545 ft/min
200	.0080 WG	12.8 ft	700 ft/min
250	.0200 WG	14.1 ft	910 ft/min
300	.0250 WG	14.8 ft	1044 ft/min
350	.0300 WG	15.4 ft	1187 ft/min



RS # (ref. #)
81905 (MVES) (6x6") Ak=.31

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0008 WG	1.2 ft	146 ft/min
75	.0018 WG	4.2 ft	230 ft/min
90	.0035 WG	6.2 ft	285 ft/min
110	.0043 WG	7.3 ft	338 ft/min
125	.0054 WG	8.7 ft	434 ft/min
150	.0085 WG	9.8 ft	545 ft/min
175	.0100 WG.	11.0 ft	645 ft/min
200	.0110 WG	12.4 ft	685 ft/min

RS # (ref. #)
81916 (MXE) (8x8") Ak=.37

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0005 WG	0.8 ft	92 ft/min
75	.0008 WG	2.1 ft	151 ft/min
90	.0014 WG	3.4 ft	207 ft/min
110	.0017 WG	5.6 ft	255 ft/min
125	.0020 WG	7.8 ft	350 ft/min
150	.0030 WG	9.7 ft	445 ft/min
175	.0050 WG.	11.4 ft	545 ft/min
200	.0080 WG	12.8 ft	700 ft/min
250	.0200 WG	14.1 ft	910 ft/min
300	.0250 WG	14.8 ft	1044 ft/min
350	.0300 WG	15.4 ft	1187 ft/min

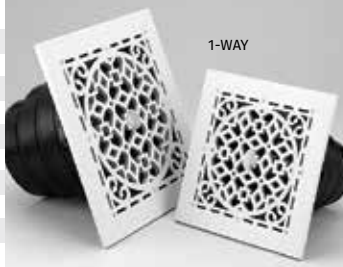


RS # (ref. #)
81906 (MXES) (6x6") Ak=.31

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0008 WG	1.2 ft	146 ft/min
75	.0018 WG	4.2 ft	230 ft/min
90	.0035 WG	6.2 ft	285 ft/min
110	.0043 WG	7.3 ft	338 ft/min
125	.0054 WG	8.7 ft	434 ft/min
150	.0085 WG	9.8 ft	545 ft/min
175	.0100 WG.	11.0 ft	645 ft/min
200	.0110 WG	12.4 ft	685 ft/min

RS # (ref. #)
81909 (MVAW) (8x8") Ak=.26

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0007 WG	4.0 ft	175 ft/min
75	.0009 WG	6.8 ft	269 ft/min
90	.0021 WG	8.2 ft	383 ft/min
110	.0055 WG	9.9 ft	436 ft/min
125	.0064 WG	11.3 ft	472 ft/min
150	.0085 WG	12.9 ft	593 ft/min
175	.0105 WG.	14.3 ft	693 ft/min
200	.0160 WG	15.3 ft	841 ft/min
250	.0230 WG	16.0 ft	1031 ft/min
300	.0391 WG	17.2 ft	1201 ft/min
350	.0552 WG	17.9 ft	1315 ft/min



RS # (ref. #)
81919 (MVASW) (6x6") Ak=.20

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0085 WG	2.1 ft	277 ft/min
75	.0185 WG	5.0 ft	373 ft/min
90	.0240 WG	7.9 ft	445 ft/min
110	.0375 WG	10.9 ft	550 ft/min
125	.0520 WG	13.3 ft	650 ft/min
150	.0730 WG	14.9 ft	771 ft/min
175	.1010 WG.	16.3 ft	899 ft/min
200	.1200 WG	17.5 ft	988 ft/min

RS # (ref. #)
81918 (MVAB) (8x8") Ak=.26

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0007 WG	4.0 ft	175 ft/min
75	.0009 WG	6.8 ft	269 ft/min
90	.0021 WG	8.2 ft	383 ft/min
110	.0055 WG	9.9 ft	436 ft/min
125	.0064 WG	11.3 ft	472 ft/min
150	.0085 WG	12.9 ft	593 ft/min
175	.0105 WG.	14.3 ft	693 ft/min
200	.0160 WG	15.3 ft	841 ft/min
250	.0230 WG	16.0 ft	1031 ft/min
300	.0391 WG	17.2 ft	1201 ft/min
350	.0552 WG	17.9 ft	1315 ft/min



RS # (ref. #)
81908 (MVASB) (6x6") Ak=.20

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0085 WG	2.1 ft	277 ft/min
75	.0185 WG	5.0 ft	373 ft/min
90	.0240 WG	7.9 ft	445 ft/min
110	.0375 WG	10.9 ft	550 ft/min
125	.0520 WG	13.3 ft	650 ft/min
150	.0730 WG	14.9 ft	771 ft/min
175	.1010 WG.	16.3 ft	899 ft/min
200	.1200 WG	17.5 ft	988 ft/min

Note: Supply diameter has no appreciable effect on characteristics or airflow specifications, but should be consistent with the desired airflow of the particular outlet and application. Instruments used in testing: • Shortridge Instruments Flowhood Series 8400 • Shortridge Instruments Air data Multimeter • Davis LCA-6000 Rotating Vane Anemometer

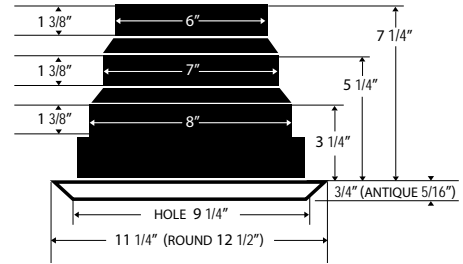
AIRTEC® CLASSIC/RETRO ORDERING INFORMATION



Note: Stepped Collar accommodates:
6", 7", 8" ducting (MV) 4", 5", 6" ducting (MVS)

Airtec Classic standard 8x8" diffuser assembly

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81912 (MV2)	2-way grille/damper/box	4	9 lbs.
81913 (MV3)	3-way grille/damper/box	4	9 lbs.
81914 (MV4)	4-way grille/damper/box	4	9 lbs.
81911 (MV360)	Round grille/damper/box	4	9 lbs.
81915 (MVE)	Return/exhaust grille/damper/box	4	9 lbs.
81916 (MXE)	Return/exhaust grille/box (no damper)	4	9 lbs.

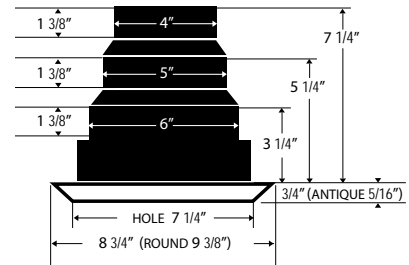


Airtec Retro standard 8x8" diffuser assembly

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81909 (MVAW)	Retro White grille/damper/box	4	9 lbs.
81918 (MVAB)	Retro Black grille/damper/box	4	9 lbs.

Airtec Classic small 6x6" diffuser assembly

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81902 (MV2S)	2-way grille/damper/box	8	10.5 lbs.
81903 (MV3S)	3-way grille/damper/box	8	10.5 lbs.
81904 (MV4S)	4-way grille/damper/box	8	10.5 lbs.
81901 (MV360S)	Round grille/damper/box	6	7.5 lbs.
81905 (MVES)	Return/exhaust grille/damper/box	8	10.5 lbs.
81906 (MXES)	Return/exhaust grille/box (no damper)	8	10.5 lbs.

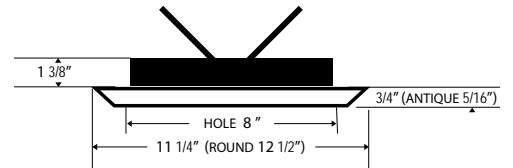


Airtec Retro small 6x6" diffuser assembly

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81919 (MVASW)	Retro White grille/damper/box	8	10.5 lbs.
81908 (MVASB)	Retro Black grille/damper/box	8	10.5 lbs.

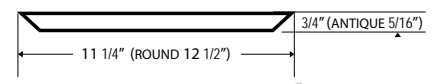
Limited clearance grille/damper

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81943 (GRD3)	3-way grille/damper	12	15.8 lbs.
81944 (GRD4)	4-way grille/damper	12	15.8 lbs.



Standard Limited clearance grille only

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81834 (GR4)	4-way grille	25	6 lbs.





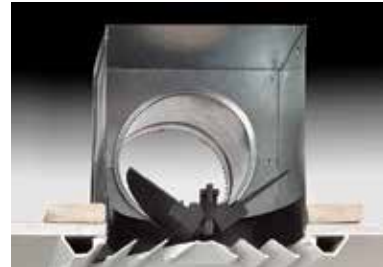
AIRTEC® ACCESSORIES

GRD Limited Clearance Diffusers

Grille with damper

Model GRD grille/damper combination for low clearance side or top entry applications. Same construction as Airtec diffusers but with no boot. Standard 8" size only. Available in all five grille styles.

See page 58 for ordering information.

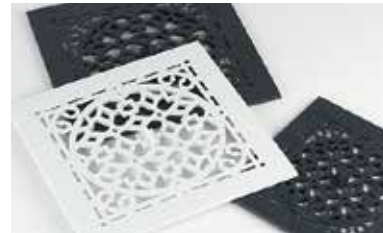


GR Classic/Retro Grilles

Grille only

Model GR grille only. All styles and sizes of both Airtec Classic and Airtec Retro grilles are available. Does not include boot or damper.

See page 58 for ordering information.



RCF Ceiling Support Flanges

Rough in flanges

RS # (ref. #)	Description	L	W	H	CTN QTY	CTN WT
81965 (RCF16)	16"O/C - 9 ¹ / ₄ " hole	16"	12"	3/8"	50	37 lbs.
81964 (RCF24)	24"O/C - 9 ¹ / ₄ " hole	23 ⁵ / ₈ "	12"	3/8"	25	38 lbs.
81955 (RCF16S)	16"O/C - 7" hole	16"	12"	3/8"	50	48 lbs.
81954 (RCF24S)	24"O/C - 7" hole	23 ⁵ / ₈ "	12"	3/8"	25	39 lbs.

Model RCF designed for new construction. Our RCF flanges can be fastened to rough framing. It has a 3/8" lip that drops below the ceiling, requiring dry wall installers to cut the hole for you. RCF flanges are available for both 16" and 24" on center framing.



DCF Drop Ceiling Flanges

Flange only

RS # (ref. #)	Description	L	W	H	CTN QTY	CTN WT
81963 (DCF)	24"O/C - 9 ¹ / ₄ " hole	23 ⁵ / ₈ "	12"	2"	25	45 lbs.

Model DCF will increase strength and performance for lay in type ceiling applications by transferring weight onto the T-bars. This prevents tiles from sagging over time.



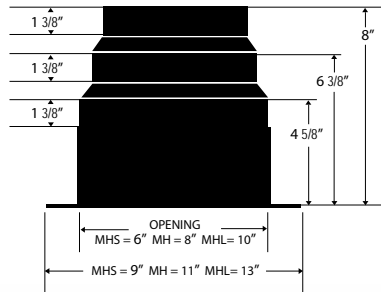


AIRTEC® TUFFBOX AIR DIFFUSERS

Airtec® TuffBox

Quick rough-in polymer register box for HVAC systems

Code	Description	CNY QTY	CTN WT
81966 (MHS)	6x6" Register Box 4,5,6" collars	16	15 lbs.
81968 (MH)	8x8" Register Box 6,7,8" collars	10	12.2 lbs.
81970 (MHL)	10x10" Register Box 8,9,10" collars	8	12 lbs.



Our TuffBox is a heavy, one piece durable polymer shell. Molded design is virtually air-tight to deliver 100% of the air flow passing through it.

Each TuffBox utilizes innovative stepped design to accommodate three duct sizes. Quick breakaway collars allow on-site adjustment, and labor savings. Each collar is 1-3/8" and beaded to hold flexible duct in place while strap is secured. 5/8" standoffs provide correct depth to accommodate strapping or furring used with drywall. Secure using screw holes provided or simply screw anywhere through the inside into framing. Flange is flexible to conform to drywall backing virtually eliminating leakage between grille and box.



- Adaptable.
- Strong & Silent.
- No measuring.
- No guesswork.

GulfCoat™

CONTRACTOR SERIES COIL COATING



Ultimate corrosion protection.



Untreated

Protected



GulfCoat™

Code	Description	Qty.
80401	12 oz. (340 g) Aerosol Blue	6
80400	12 oz. (340 g) Aerosol Clear	6

FEATURES

- Protects HVAC coils & components
- Superior adhesion
- Maximum moisture resistance
- Superior UV protection
- Superior corrosion resistance
- Extends system life & efficiency

Spray on corrosion protection

APPLICATION • Mini-splits • Packaged Rooftops
 • Condensing Units • Modular Air-handlers
 • Air-cooled Chillers • Interior & Exterior HVAC
 Cabinetry and Copper Piping • Heat Exchanger Coils
 (water, condenser, evaporator, DX)

1 can covers 0-2.5 tons unit (0-9 kw)
 coverage of coils only



Resists Corrosion From:

- Salty Sea Air
- UV Rays
- Acid Rain
- Air Pollutants
- Aggressive conditions



WARNING: This product can expose you to Toluene (Clear), Titanium Dioxide (Blue and Clear), Solvent Naphtha (Blue & Clear), Cumene (Clear) which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



TripleGuard™

THE ULTIMATE SOLUTION
FOR WATER LEAK DAMAGE
PREVENTION

Early leak detection protection.



Automated monitoring of the premises 24/7



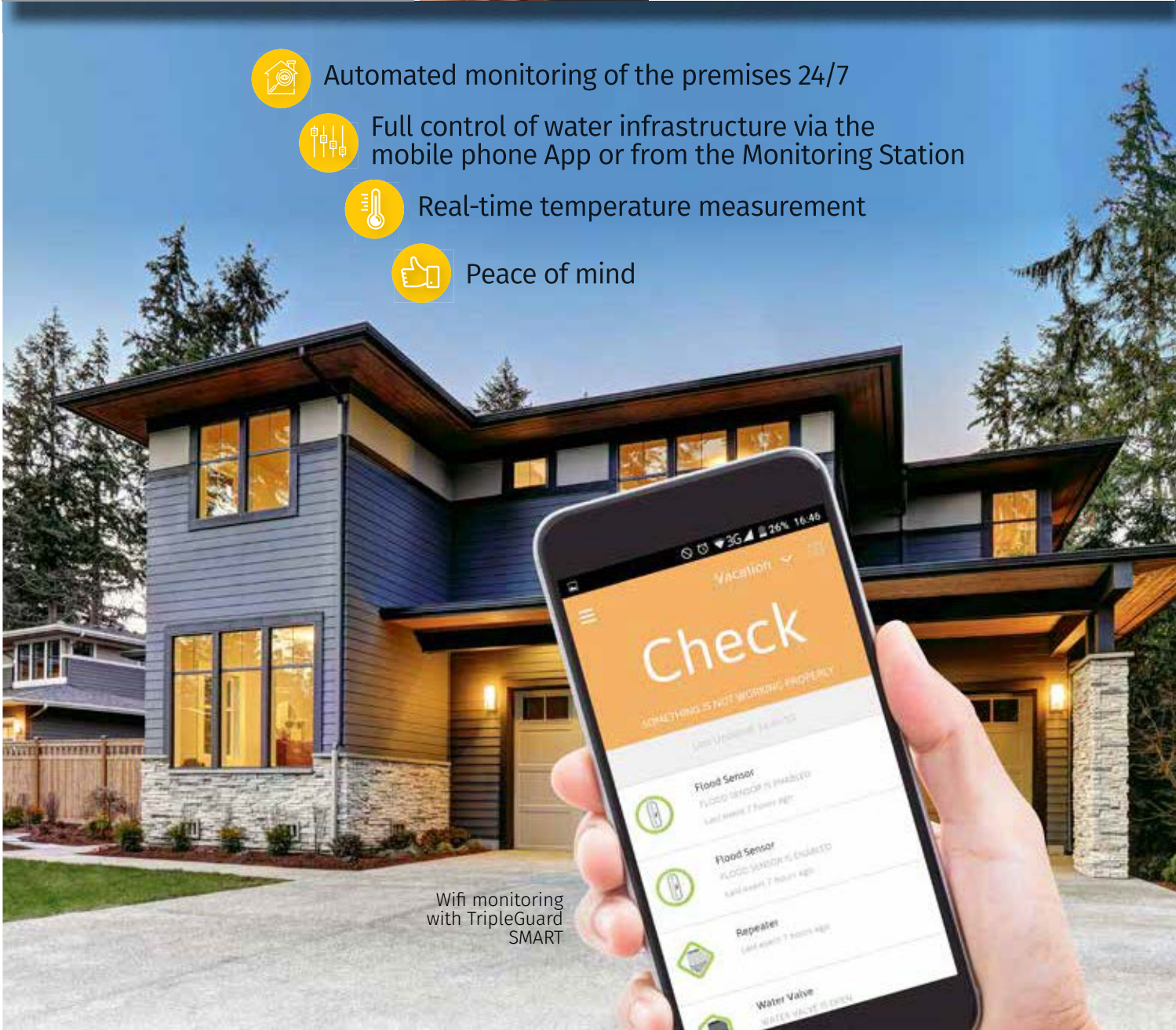
Full control of water infrastructure via the mobile phone App or from the Monitoring Station



Real-time temperature measurement



Peace of mind



Wifi monitoring
with TripleGuard
SMART

TripleGuard **SMART**

Monitored facility leak protection



Code	Description	Qty
97710	Protection System 3/4" valve kit	1
97712	Protection System 1" valve kit	1
97714	Protection System 1-1/4" valve kit	1
97718	Water Leak Detector only	6

APPLICATION • Automatic water leak detection • Detects water leaks in the places that are prone to leaking such as under the sink, near water heaters, washing machines and dish washers • Close the shutoff unit and block the water supply into the premises when leaks are detected • Designed for all types of dwellings and businesses – private homes, condominiums, multi-family, apartments, business premises and hotels



HUB LINK – to cloud server.



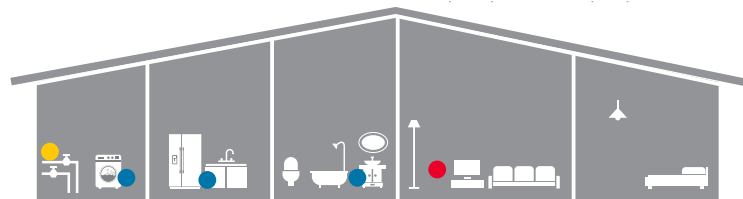
FEATURES

- Easy, fast installation – No drilling and cable trenching required
- No electrician is required
- Communicates through mobile App with real time status
- Immediately senses water leaks using either the array of water detectors or integrated water meter
- Control and manage abnormal water flow and extreme temperature situations
- Simple integration with any 3rd party system
- Robust, secured and operational at all time



SHUTOFF UNIT – Battery operated

WATER LEAK DETECTORS – Battery operated



VALVES

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

TripleGuard **ACTIVE**

Automatic appliance leak shutoff

Code	Description	Qty
97720	Appliance Leak Shutoff	6

FEATURES

- Cold water shut off unit
- 10 ft cable
- Water leak detector
- Battery operated- Long battery life
- Easy installation
- Valve meets the requirements of NSF/ANSI 372

APPLICATION • Designed to protect homes from damages caused by a leaking water heater, washing machine or other appliance • When a leak is detected by the water leak detector, the automatic intake shutoff activates to close off the water source • No wifi monitoring capability



◀ Battery operated

AUTOMATIC APPLIANCE WATER INTAKE SHUTOFF

WATER LEAK DETECTOR



EQUIPMENT MOUNTING

The industry standard for



- Quick setup & Leveling
- Rugged equipment support
- Modular flexibility



▲ Corrosion Resistant Galvanized Frame

Sturdy Adjustable Leg ▶

Tough Nylon Base ▼

Anti-Vibration Pad ▼

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

Contact: RectorSeal®

☎ 713-263-8001 | 800-231-3345

☎ 713-263-7577 | 800-441-0051

🌐 rectorseal.com

free standing flat roof equipment mounting.



THE ADVANTAGES OF BIG FOOT FRAMEWORKS

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

Rugged stance. There are no limits to what can be supported with a Big Foot System. Mounting is strong, secure, flexible, vibration absorbing, and leak proof. Installation is quick, clean, practical and aesthetically pleasing.

Modular flexibility. The system is modular and completely flexible. Custom designs offer the ability to change any part of the design of the frame at any time to increase or reduce weight loading.

Removable legs. Big Foot system legs 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 center stress point.

Optimum strength and longevity.

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

Quiet durability. An independent anti-vibration mat is provided for each foot.

Quick on-site leveling. The legs allow for vertical height adjustment to permit easy leveling. An extended leg set option is available for stepped roof applications.

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.

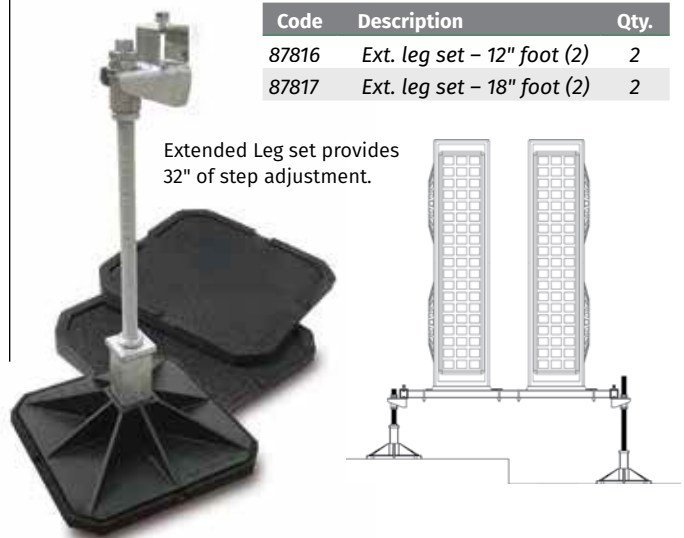
Architecturally friendly. Big Foot clean contemporary framework suspends roofing equipment above the roof surface, allowing for a simpler, more flexible roof design.

Custom Frameworks

For larger, more complex projects, Big Foot offers a custom frame design service. With a plan of your roof and dimensions/weights of the equipment, we can specify standard Big Foot system framework to support up to 10 tons. Contact RectorSeal 1-800-231-3345

EXTENDED LEG SET OPTION

Code	Description	Qty.
87816	Ext. leg set – 12" foot (2)	2
87817	Ext. leg set – 18" foot (2)	2



Extended Leg set provides 32" of step adjustment.



BIG FOOT SYSTEMS® VRF CONDENSER FRAMEWORKS

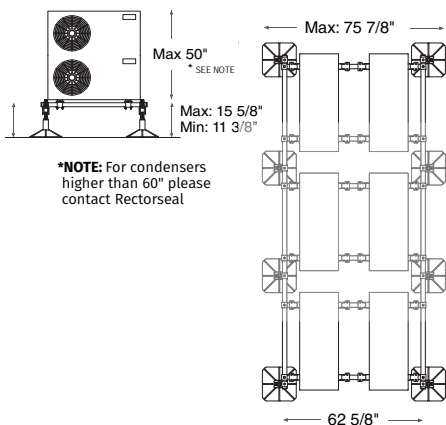
Prefabricated flat roof support for larger multiple VRF condenser application.
Non-penetrative. 59" wide.

VRF Condenser Frameworks



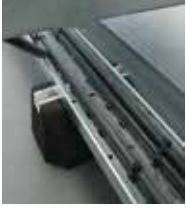
VRF Frameworks

Specialty Frames for VRF Condensers



***NOTE:** For condensers higher than 60" please contact Rectorseal

Code	Model	Description	VRF Dim.	Frame Dim.	Support wt.	Frame wt.	Qty.
87721	(VRF1000)	4 pad framework	37" x 30"	39" x 59"	1,056 lbs	108 lbs	1
87621	(VRF1500)	4 pad framework	49" x 30"	59" x 59"	1,056 lbs	117 lbs	1
87722	(VRF2000)	6 pad framework	69" x 30"	78" x 59"	1,584 lbs	155 lbs	1
87723	(VRF2500)	6 pad framework	73" x 30"	98" x 59"	1,584 lbs	161 lbs	1
87724	(VRF3000)	8 pad framework	104" x 30"	118" x 59"	2,112 lbs	194 lbs	1
87622	(VRF3500)	8 pad framework	100" x 30"	118" x 59"	2,112 lbs	194 lbs	1
87725	(VRF4000)	8 pad framework	117" x 30"	137" x 59"	2,112 lbs	216 lbs	1
87623	(VRF4500)	8 pad framework	120" x 30"	137" x 59"	2,112 lbs	216 lbs	1
87624	(VRF5000)	10 pad framework	117" x 30"	157" x 59"	2,640 lbs	279 lbs	1
87625	(VRF5500)	10 pad framework	145" x 30"	157" x 59"	2,640 lbs	157 lbs	1
87726	(VRF6000)	10 pad framework	142" x 30"	157" x 59"	2,640 lbs	279 lbs	1
87627	(VRF6500)	10 pad framework	165" x 30"	177" x 59"	2,640 lbs	293 lbs	1
87628	(VRF7000)	12 pad framework	174" x 30"	196" x 59"	3,168 lbs	334 lbs	1
87629	(VRF7500)	12 pad framework	207" x 30"	216" x 59"	3,168 lbs	372 lbs	1



BIG FOOT SYSTEMS® FRAME SUPPORTS

Multi Foot

Frame support ideal for smaller systems

Code	Description	Qty.
87711 (RSP16)	16" Multi Foot	1
87712 (RSP24)	24" Multi Foot	2

FEATURES

- Strong and Lightweight
- Weather resistant PVC – Rubber/PVC
- Linear track holds 1/2" hex head bolts
- Two 7/8" long bolts included

Max load capacity:
RSP16 – 572 lbs.
RSP24 – 1045 lbs.

87711	87712
H = 3 3/4"	H = 3 3/4"
W = 7"	W = 8 3/4"
L = 15 3/4"	L = 24"



H-Frame

Accepts standard one 5/8" strut, optimum support

Code	Description	Qty.
87713 (RSPD12)	H-Frame Kit w/ 12" Square	1
87714 (RSPD18)	H-Frame Kit w/ 18" Square	1
87715 (RSPD24)	H-Frame Kit w/ 24" Square	1

each kit contains 2 feet

FEATURES

- Ideal rooftop support of equipment & systems
- Weather resistant
- Recycled crumb rubber pad
- Accepts one 5/8" strut (not included)
- Build custom frames and supports

Max load capacity:
RSPD12 – 661 lbs.
RSPD18 – 1100 lbs.
RSPD24 – 1100 lbs

87713	87714	87715
H = 3 1/2"	H = 4 1/4"	H = 4 3/4"
W = 13"	W = 19"	W = 25 1/4"
L = 13"	L = 19"	L = 25 1/4"





HVAC related **SOLUTIONS**

Thread Sealants

Solvent Cements

Soldering Flux

Metacaulk® Firestopping

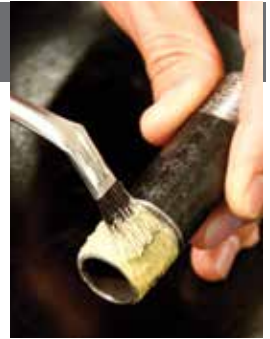


RECTORSEAL® THREAD SEALANTS

The finest thread sealants in the industry formulated by our highly-skilled chemists

RectorSeal No. 5®

Multi-purpose pipe thread sealant



Code	Description	Qty.
25790	1-3/4 oz.	24
25631	1/4 pt.	24
25551	1/2 pt.	24
25431	1 pt.	12
25300	1 qt.	12
25271	1 gal.	4
25191	5 gal.	1
25112	55 gal.	1

APPLICATION • Lubricates and protects threaded pipe and fittings • Can be pressurized immediately up to 100 psi for piping up to 2" diameter • Ideal for a wide variety of fluids and gases including potable water

RECOMMENDED FOR

- Galvanized Steel • Iron • Brass • Copper • Aluminum
- Stainless Steel • Polyethylene • RTRP • PVC



Also available in 55 gal. container.



FEATURES

- Soft set / Slow drying
- Lead free
- Smooth application
- 2 year shelf life
- Certified to NSF/ANSI 61-G & 372

No. 5® Sub-Zero

Low temperature, low odor pipe thread sealant

Code	Description	Qty.
27731	1/4 pt.	24
27651	1/2 pt.	24
27541	1 pt.	12
27460	1 qt.	12
27371	1 gal.	4
27222	55 gal.	1

APPLICATION • Odorless, non-staining, low temperature application • Brushable to - 35°F • Can be pressurized immediately

RECOMMENDED FOR

- Galvanized Steel • Iron • Brass • Copper
- Aluminum • Stainless Steel
- Polyethylene • RTRP • PVC



See ordering chart for container sizes available



FEATURES

- Low temperature application - 35°F
- All weather formula
- Lead free
- 2 year shelf life

RectorSeal T Plus 2[®]

PTFE enriched pipe thread sealant



Code	Description	Qty.
23710	1-3/4 oz.	24
23631	1/4 pt.	24
23551	1/2 pt.	24
23431	1 pt.	12
23391	1 qt.	12
23271	1 gal.	4
23191	5 gal.	1
23112	55 gal.	1



FEATURES

- Non-setting
- Lead free
- 2 year shelf life
- Certified to NSF/ANSI 61-G & 372

APPLICATION • Contains PTFE & synthetic fibers for superior performance • Can be pressurized immediately following application

RECOMMENDED FOR

- Galvanized Steel • Iron
- Brass • Copper
- Aluminum • Stainless Steel
- Polyethylene • RTRP • PVC
- CPVC • ABS



Also available in 5 and 55 gal. containers.

RectorSeal Tru-Blu[™]

Vibration resistant pipe thread sealant



Code	Description	Qty.
31780	1-3/4 oz.	24
31631	1/4 pt.	24
31551	1/2 pt.	24
31431	1 pt.	12
31300	1 qt.	12



FEATURES

- Fast drying / Flexible set
- Contains PTFE
- Lead free
- 2 year shelf life
- Certified to NSF/ANSI 61-G & 372

APPLICATION • For high vibration environments such as refrigeration and industrial applications
• Designed for sealing vibration prone NPT connections

- RECOMMENDED FOR**
- Galvanized Steel • Iron • Brass • Copper • Aluminum
 - Stainless Steel • PVC • Polyethylene
 - Reinforced fiberglass



No. 7

Corrosive chemical pipe thread sealant



Code	Description	Qty.
17432	1 pt.	4

FEATURES

- Soft set
- Lead free
- 2 year shelf life

APPLICATION • Slow drying sealant for use with lines carrying corrosive chemicals: diluted acids, caustics and other chemical solutions

- RECOMMENDED FOR**
- Galvanized Steel • Iron • Brass • Copper
 - Aluminum • Stainless Steel



WARNING: This product can expose you to Methyl Isobutyl Ketone, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.



RECTORSEAL SOLVENT CEMENTS

Jim™ PR-1L

○ Purple – hi-etch primer

Code	Description	Qty.
55910	¼ pt.	24
55912	½ pt.	24
55914	1 pt.	12
55918	1 qt.	12
55920	1 gal.	4



FEATURES

- Fast acting
- Superior bonding
- LEED compliant
- 2 year shelf life
- Meets ASTM F656

APPLICATION • Prepares surfaces for superior bonding strength • For use on PVC and CPVC pipe, tubing and socket-type fittings in both Schedule 40 and Schedule 80

RECOMMENDED FOR

- Potable water • Pressure pipe • Gas • Conduit
- Sewers • DWV systems



Gene™ 404L

○ Clear – regular body PVC solvent cement

Code	Description	Qty.
55901	¼ pt.	24
55902	½ pt.	24
55904	1 pt.	12
55906	1 qt.	12
55908	1 gal.	4



FEATURES

- Fast setting formula
- LEED compliant
- NSF approved for potable water
- 2 year shelf life
- Exceeds ASTM D2564
- Low-VOC

APPLICATION • Polyvinyl chloride (PVC) solvent cement used for joining PVC pipe and socket-type fittings which meet Class 12454 as defined in ASTM specification D1784

- Schedule 40 up to 2" pressure; up to 4" non-pressure pipe (DWV)
- ABS to PVC non-pressured transition joints

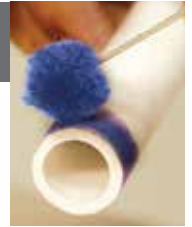
RECOMMENDED FOR • Potable water • Pressure pipe • Gas • Conduit

- Sewers • DWV systems



Hot™ 203L

● Blue – medium body PVC solvent cement



Code	Description	Qty.
55988	¼ pt.	24
55989	½ pt.	24
55990	1 pt.	12
55993	1 qt.	12
55994	1 gal.	4



FEATURES

- Very fast drying
- Excellent in cold weather
- LEED compliant
- 2 year shelf life
- Meets ASTM D2564
- Low-VOC

APPLICATION • Polyvinyl chloride (PVC) solvent cement joins both rigid and flexible PVC pipe and socket-type fittings which meet Class 12454 as defined in ASTM specification D1784

- For all rigid PVC classes up to 6" Schedule 40 and 1-¼" Schedule 80

RECOMMENDED FOR

- Irrigation
- Pools • Spas • Potable water
- Pressure pipe • Gas • Conduit • Sewers
- DWV systems • ENT • Flexible PVC hose



Arctic™ 616L

○ Clear – medium body PVC solvent cement

Code	Description	Qty.
55909	½ pt.	24
55919	1 pt.	12
55948	1 qt.	12
55953	1 gal.	4



FEATURES

- Formulated for use in cold weather
- LEED compliant
- NSF approved for potable water
- 2 year shelf life
- Exceeds ASTM D2564
- Low-VOC

APPLICATION • Premium polyvinyl chloride (PVC) solvent cement used for joining PVC pipe and socket-type fittings which meet Class 12454 as defined in ASTM specification D1784

- Pipe up to 6" Schedule 40; 1-¼" Schedule 80
- Remains stable from 0° F to 120° F

RECOMMENDED FOR

- Potable water • Pressure pipe
- Gas • Conduit • Sewers
- DWV systems





RECTORSEAL® SOLDERING

Nokorode® Regular

Multi-purpose paste flux

Code	Description	Qty.
14000	1.7 oz.	48
14010	4 oz.	24
14020	8 oz. tool box	24
14030	1 lb.	12



FEATURES

- Lead Free
- Cleans & fluxes all at one time
- Safe for potable water systems
- Certified to NSF/ANSI 61-G & 372
- Meets O-F-506 Type 1A & A-A-51145, MIL-F-4995-2 specs

APPLICATION • All purpose, soft soldering paste flux with a special oil base that protects the solder against corrosive attack
 • Non-aggressive formula. Ideal for copper and brass fittings

RECOMMENDED FOR • All solder alloys including 95/5 and lead free solders



Hot Block®

Reusable Heat Absorption Putty

Code	Description	Qty.
83560	8 oz.	12

FEATURES

- Reusable for life
- Blocks direct and conductive heat
- Stops the transfer of heat up to 3000°F (1650°C)
- Non-Toxic
- Non-Flammable
- Odor free
- Biodegradable
- Can be used as a jiggling tool
- Stops warpage on thin metal

APPLICATION • Block direct and conductive heat transfer on any surface or metals when brazing, soldering or welding • Protect heat sensitive parts and eliminate discoloration, warpage and distortion • Hold, align and jig parts for brazing, soldering or welding • Works as a heat shield when protecting valves and fittings • Effective while using MAPP gas, Oxy-Acetylene, MIG, TIG, Arc and propane torches

RECOMMENDED FOR • All types of surfaces and metals, including joints, valves, fittings, composite panels, copper, brass, rubber and plastics



Rectorshield™

Heat absorption paste

Code	Description	Qty.
83554	11 oz. tube	24

FEATURES

- Biodegradable
- Odorless

APPLICATION • A heat absorption paste to help prevent damage to sensitive controls, valves, plastic faucet parts, equipment and other soldered connections • Reduces heat transfer by absorbing thermal energy from heat and flames

RECOMMENDED FOR • Copper
 • Other types of metal pipe



Open Mesh Sandcloth

Reusable waterproof abrasion

Code	Description	Qty.
61760	5 yd.	50
61759	10 yd.	50
61758	25 yd.	20

FEATURES

- Reusable
- 100% waterproof
- Tear-resistant nylon backing

APPLICATION • A premium abrasive, waterproof material with top quality performance • If the material becomes loaded with fillings, simply rinse in water and tap out.





METACAULK FIRESTOP SEALANTS

Metacaulk® 1000

Intumescent, water-based firestop sealant



Code	Description	Qty.
66640	10.3 oz. cartridge	12
66303	30 oz. cartridge	12
66312	20.2 oz. sausage pack	12
66305	1 gal.	4
66307	2 gal.	1
66309	5 gal.	1

APPLICATION • Will prevent the spread of fire through joint openings and through-penetrations • No dilution or mixing required • Can be used in areas under constant vibration and movement • Use in fire-rated gypsum wallboard partitions, concrete walls or floors, wood floors and concrete or corrugated steel deck floor/ceiling assemblies

RECOMMENDED FOR • Metal pipes • Insulated pipes • Fiberglass & plastic pipes • Wall construction joints • Power & telephone cables



FEATURES

- UL Classified systems up to 4 hrs.
- Highly intumescent
- Excellent freeze-thaw
- For interior use – paintable
- VOC compliant
- STC rating 62
- Tested in accordance with ASTM E814 (UL 1479) & ASTM E1966 (UL 2079) standards
- Mold inhibitor tested to ASTM G21
- Complies to UL required Accelerated Aging and High Humidity Testing



See ordering chart for container sizes available

Metacaulk® 150+

General purpose firestop sealant

Code	Description	Qty.
66648	10.3 oz. cartridge	12
66383	30 oz. cartridge	12
66385	20.2 oz. sausage pack	12
66389	5 gal.	1

APPLICATION • One component, general purpose fire-rated sealant and smoke seal for construction joints and through-penetrations on both horizontal and vertical surfaces • Non-sag caulking grade sealant that is easy to apply as well as to retrofit • Can be used in areas under constant vibration or movement

RECOMMENDED FOR • Metal pipes • Insulated pipes • Fiberglass and plastic pipes • Wall construction joints • Power and telephone cables



FEATURES

- Water-based – Elastomeric
- Excellent freeze-thaw
- For interior use – paintable
- For most common applications
- STC rating 65
- Mold inhibitor tested to ASTM G21



*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings.

FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation.



METACAULK FIRESTOP SEALANTS

Metacaulk® 350i

Elastomeric seal firestop sealant

Code	Description	Qty.
66616	10.3 oz. cartridge	12
66611	20.2 oz. sausage pack	12
66613	5 gal.	1



FEATURES

- Flexible cure
- Excellent freeze-thaw
- For interior use – paintable
- STC rating 53
- Complies to UL required Accelerated Aging and High Humidity Testing

APPLICATION • One component, general purpose sealant and smoke seal
 • Intumescent, water-based, non-sag caulking grade sealant that is easy to apply and great for retrofits • Suitable for dynamic movement.

RECOMMENDED FOR • Metal pipes • Insulated pipes • Fiberglass & plastic pipes • Wall construction joints • Power & telephone cables



Metacaulk® 835+

Elastomeric, silicone firestop sealant

Code	Description	Qty.
66645	10.15 oz. cartridge	12
66019	5 gal.	1
66300	20.2 oz caulk grade	12
66301	20.2 oz self-leveling	12



FEATURES

- Exterior / Interior use
- Weather/chemical resistant
- STC rating 55
- Meets ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G, A, O
- Self leveling: Meets ASTM C920, Type S, Grade SL, Class 25, Use NT, M, G, A, O

APPLICATION • Used in systems where dynamic movement is expected
 • Resistant to chemical exposure

RECOMMENDED FOR • Cable and cable trays • EMT
 • Insulated and uninsulated steel pipe • Construction and control joints • Interior expansion joints



*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings.

FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation.



RECTORSEAL® CAULKS & SEALANTS

Metacaulk® RS 136

Code	Description	Qty.
66408	10.3 oz. cartridge	12



FEATURES

- Smoke & acoustic caulk
- Non-combustible
- Interior application
- Tested in accordance with ASTM E136
- 2 year shelf life
- Color: Red

Fireblock / Smoke seal caulk

APPLICATION • General purpose fireblock, draft stop • Seals small voids, splices and gaps • Water soluble • Not for use in vibration or wet environments

RECOMMENDED FOR • Large openings • PVC/CPVC pipe (closed only) • EMT • Steel, Copper, and Aluminum Pipe



RectorSeal® Silicone Sealant

Code	Description	Qty.
57505	10.3 oz. tube – white	12
57506	10.3 oz. tube – clear	12

FEATURES

- Remains flexible
- Vibration resistant
- Indoors/outdoor

General purpose

APPLICATION • Ideal for general sealing • Dries to touch in 30 minutes and fully cures in 24 hours

RECOMMENDED FOR • Around electrical panels • Windows • Doors • Pipes/vents • Corner joints • Aluminum siding • Other interior / exterior building materials



RectorSeal® Hi-Temp™

Code	Description	Qty.
57500	10.1 oz. cartridge	24

FEATURES

- One component
- USDA specs for use in federally inspected meat and poultry plants
- F.D.A. reg #21 CFR 177.2600
- TT-S-001543A (COM-NBS) Class A
- TT-S00230C (COM-NBS) Class AA
- MIL-A-46106A Amendment 2, Type 1
- Canadian 19-GP-9MA, Type 1

100% RTV silicone caulk

APPLICATION • Cures to a strong durable resilient rubber

RECOMMENDED FOR • Glass • Clean metal • Most types of non-oily wood • Vulcanized silicone rubber • Silicone resins • Natural and synthetic fiber • Ceramic • Paper • Many painted and plastic surfaces



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ABOUT RECTORSEAL



Founded in 1937, RectorSeal is a leading manufacturer of chemical specialty sealants and other related products designed for professional tradesmen.

An extensive wholesale distribution network serves the plumbing, industrial, HVAC-R, construction, electrical and hardware marketplaces.

Primary HVAC-R products include chemical cleaners, leak locators, condensate management products, mini-split accessories, and compressor maintenance products,

Leading brands include

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