



HVAC-R PRODUCT CATALOG

Condensate Management
Compressor Maintenance
Air Diffusers
Linesets & Lineset Covers
Locking Refrigerant Caps
Equipment Mounting
Specialty Chemicals
Air Conditioning Chemicals
Heating Chemicals

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Condensate Management

Aspen® Pumps •

Drain Hoses •

Safe-T-Switch® •

EZ Trap® •

AquaGuard® •

Condensate Pans and Risers •

Drain Line Cleaners •

Mighty Pump™ •





MINI-SPLIT PUMP KITS

Selecting the correct Aspen pump model for your mini-split installation.

Seven pump styles

1. Aqua
2. Orange
3. Lime
4. White
5. Peristaltic
6. microV
7. mini tank

Four considerations

1. Appearance

A concealed (Aqua, microV or mini tank) 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 are hidden from view and provide a clean finished appearance.

2. Quiet Operation

Choose a remote pump (Orange or Peristaltic) installation for the quietest operation in noise sensitive areas. Silent Plus models are also available. They run quieter and are designated by SP suffix.

3. Ease of Installation

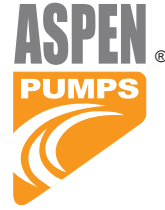
Aspen pump models can accommodate any installation. See the guide and chart (at right) for options.

4. 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).

Multiple Benefits

- 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
- 12 month limited warranty



Peristaltic pumps offer three major **benefits for mini-split applications.**

1. The ability to run both wet and dry, enables intermittent operation with a reservoir and float switch or continuous with the evaporator.

2. The capability to pump contaminates washed from the evaporator coil during condensate production.

3. A High level of lift enables remote mounting up to 40 feet away from the evaporator.

Minipumps always consists of two elements:

1. Pump body - Includes an electronic PCB and the pump motor.

2. Reservoir - Contains the filter and the switching mechanism to activate the pump. This must always be kept level and clean for proper operation of the float switch. The filter must be cleaned regularly.

Minipumps are available in 2 styles:

1. Split type - (Orange, Aqua or microV series) are designed with separate pump and reservoir. 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.

2. Monobloc type - (Lime or White series) are designed with both the pump and reservoir as one integral unit, sharing a common body. No connecting tubes or wires are needed.

Minipumps are not designed to run dry as they are both 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.

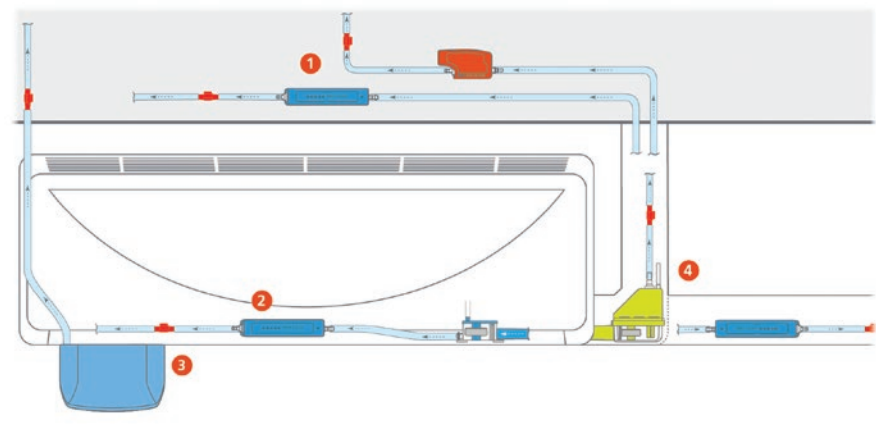
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Prior to installation, calculate condensate production of indoor evaporating coil to confirm suitability of condensate pump in application.

Pump Selector Guide

	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)	83949 (ASP-MV-UNI)	83941 MINI TANK PUMP
Electrical																
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.



Type 1 Installation
 For optimum quietness, the solution is a remote mounted pump.
PERISTALTIC, AQUA, ORANGE, microV MINI TANK

Type 2 3 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.
microV - 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, ORANGE or **microV** - 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 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)	250 VAC	.1A 16W	2lbs	1



FEATURES

- Ultra-slim profile
- Self Priming
- Integral hanging loop and separate reservoir facilitates attachment in vertical applications
- 3A NO/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.
3.2 GPH @ zero head,
1.6 GPH @ 33ft head

Maximum head: 33ft

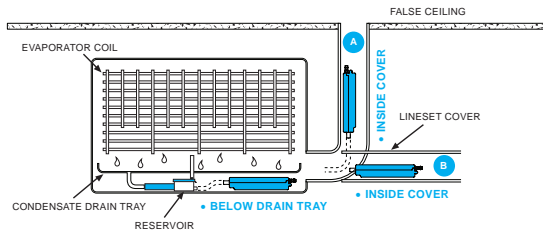
Suction lift: 5ft

Sound level:

Univolt - 24dB(A)
Silent Plus - 19dB(A)

Pump Dimensions:
L-6 1/2" x H-1 1/8" x W-1 1/8"

TYPICAL PUMP LOCATIONS



Aspen pre-filter available - see page 72

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

NOTE: Silent+ models have anti-siphoning device installed.

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Orange Series



Installation flexibility, proven reliability

Code	Universal Voltage Mini Kits	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83909	(ASP-MO-UNI)	100-230 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)	100-240 VAC	.18A 21W	2lbs	1
15' Extension Cable For Mini Kits					
83891	(ASP-MOEXT)				

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"



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 NO/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.
 3.2 GPH @ zero head,
 1.6 GPH @ 33ft head

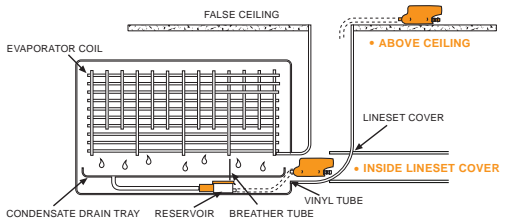
Maxi - Up to 157,000 BTU/hr.
 8.9 GPH @ zero head,
 1.5 GPH @ 50ft head

Maximum head:
 Mini - 33ft Maxi - 49ft

Suction lift: 5ft

Sound level:
 Mini - 26dB(A) Maxi - 35dB(A)
 Silent Plus - 19dB(A)

TYPICAL PUMP LOCATIONS



Aspen pre-filter available - see page 72



NOTE: Silent+ models have anti-siphoning device installed.

MINI-SPLIT PUMP KITS

Continued

Lime Series



Elbow design, completely reversible, duct included

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



FEATURES

- Left or right install
- Easily accessed for filter cleaning
- Two lineset cover styles available - Slimline or Fortress
- 3A NO/NC dry contacts rated @ 5A inductive at 230V AC
- Fully potted electronics*

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"

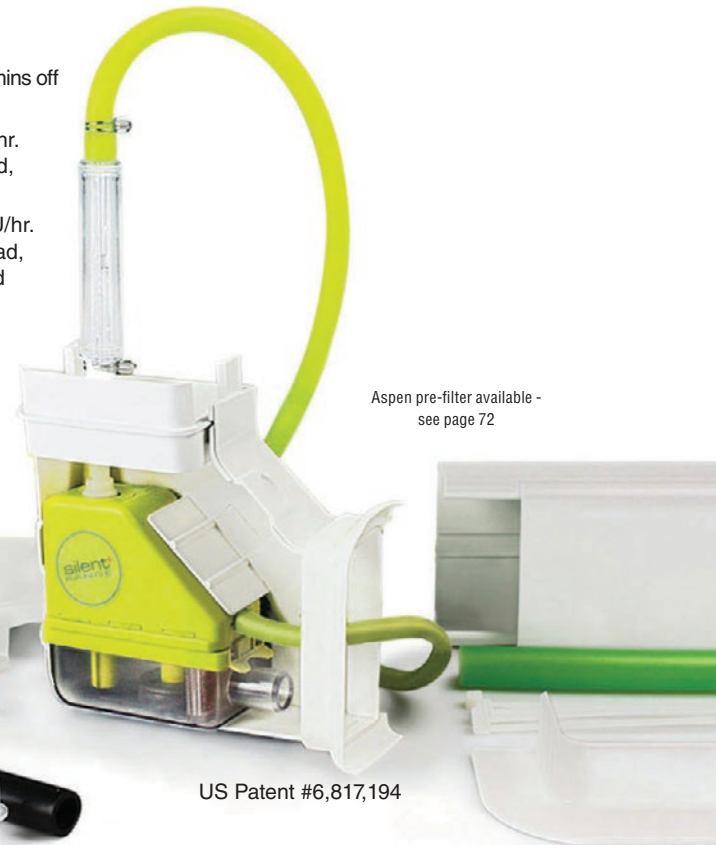
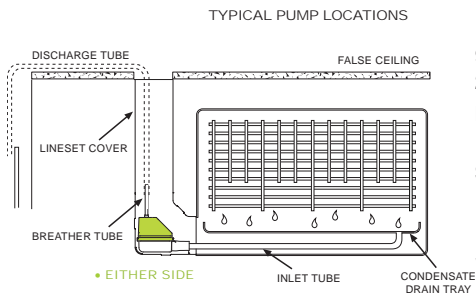
Specifications:

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 115v @ zero head,
 2.9 GPH 230v @ 49 head

Maximum head:
 Mini - 33ft Maxi - 49ft

Sound level:
 Mini - 25.5dB(A)
 Maxi - 35dB(A)
 Silent Plus - 21dB(A)



Aspen pre-filter available - see page 72

US Patent #6,817,194

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microV



Ultra-slim profile, fits inside evaporator or lineset cover

Code	Universal Voltage	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83949	(ASP-MV-UNI)	100-250 V AC	.45A 16W	2lbs	1



FEATURES

- Compatible with all mini-split air conditioners brands/models
- Silent+, Univolt technology Plug and Play connection
- 3A NO/NC dry contacts rated @ 5A inductive at 230V AC
- Fully Potted*
- Self Priming

Specifications:

Duty Cycle:
continuous
5 mins on / 5 mins off

Capacity:
Up to 66,000 BTU/hr.
3.8 GPH @ zero head,
1.8 GPH @ 33ft head

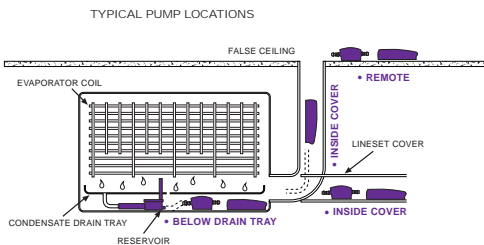
Maximum head: 33ft

Suction lift: 6.6ft

Sound level: 21dB(A)

Pump Dimensions:

H-1³/₈" x W-4¹/₄" x D-1¹/₈"



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
Accessory					
83933	Ivory Cover			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
- 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:

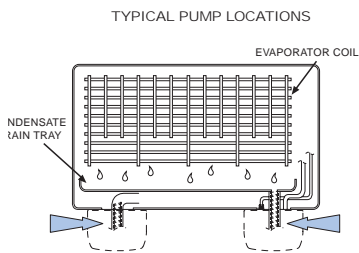
Up to 49,500 BTU/hr.
2.9 GPH @ zero head,
1.2 GPH @ 33ft head

Maximum head: 33ft

Maximum Water Temp: 104° F

Sound level: 25dB(A)

Pump Dimensions:
L-7 1/8" x H-4 1/2" x W-2"



Aspen pre-filter available - see page 72



*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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Peristaltic



Ideal for remote location applications

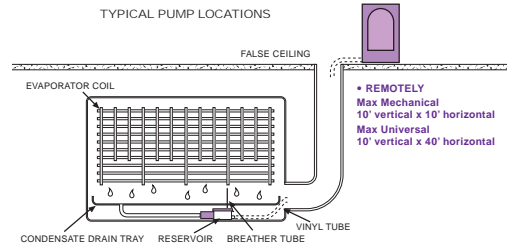
Code	Universal Sensor	Power Supply	Power Consumption	Ctn. Wt.	Qty.
83965	(ASP-PERI-UNI-115)	115 VAC	.20A 46W	6 lbs	1
83966	(ASP-PERI-UNI-230)	230 VAC	.20A 46W	6 lbs	1
Replacement Pump Head					
83892	(ASP-PERITUBE)				

FEATURES

- Quiet operation
- Reliability - low maintenance
- Filterless operation
- Quick replacement pump head
- Self priming
- 3 minute timer overrun protection
- Siphon proof
- Thermally protected pump
- Eliminates corrosion & clogging
- 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)



MINI-SPLIT PUMP KITS

Continued

Mini Tank



Versatile and powerful multi-functional condensate pump

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



FEATURES

- Ideal for ceiling cassette A/C 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 M8 / M10 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 137,850 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-3.5"



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



MINI-SPLIT CONDENSATE DRAIN HOSE & FITTINGS

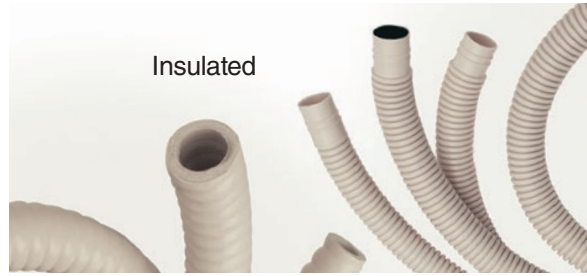
Hose Styles

Smooth Bore
Reduces resistance and maximizes condensate flow. Resists clogging.

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

UV Resistance
Resists deterioration from Sunlight.

Non-Insulated



NON-INSULATED DRAIN HOSE

RS # (ref. #)

Code	ID	Length	Ctn Qty	Ctn Wt
83001 (DH-14) SMOOTH BORE	1/2 in	164 ft	1	6 lbs.
83002 (DH-16) SMOOTH BORE	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.

INSULATED DRAIN HOSE

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

HOSE COUPLER

Code	ID	Length	Ctn Qty	Ctn Wt
83021 (DSH14J) JOIN DSH-14	1/2 in	-	10	1 lb.
83023 (DSH20NJ) JOIN DSH-20	3/4 in	-	10	1 lb.
83028 (DHJ-14)	1/2 in	-	10	1 lb.
83029 (DHJ-16)	5/8 in	-	10	1 lb.
83031 (DSH-14C) INSULATED	-	-	10	2 lbs.

PIPE ADAPTER

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

*EZT-180 Mini waterless in-line trap can be found on page 19.

WALL SLEEVE

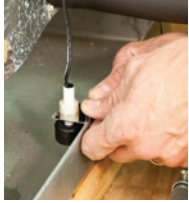
Code	Size	Ctn Qty	Ctn Wt
83017 (NFP-75) WALL SLEEVE	3"x 5" - 7"	10	1 lb.

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	Size	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.



SAFE-T-SWITCH® OVERFLOW SWITCHES

The most reliable switch.

Model SS1

Primary drains or auxiliary drain outlets

Code	Description	Qty.
97632	Model SS1	24



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.

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



Directional Cleanout Tool

Code	Description	Qty.
97629	Directional Cleanout Tool	24

FEATURES

- Simple, versatile, effective
- Works with Mighty Pump™ or standard shop vac

Cleanout access fitting



- Application**
- For directional cleanout of condensate drain line
 - Fits perfectly with Safe-T-Switch SS1 & All 3/4" drain lines
 - Can be left with the Safe-T-Switch or removed for future jobs



Model SS2 Primary pan auxiliary outlet

Code	Description	Qty.
97637	Model SS2	24



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
- 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



Model SS3 Primary & auxiliary drain pans

Code	Description	Qty.
97647	Model SS3	24



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
- 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



SAFE-T-SWITCH® ELECTRONIC SWITCHES

SS 103 E

Dual sensors

Code	Description	Qty.
97692	SS 103 E	24



FEATURES

- Electronic probe sensor
- 5-wire design
- Onboard LED indicator
- 5 amp carrying capacity

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 Pending

SS 500 EP

Commercial rooftop downflow units

Code	Description	Qty.
97693	SS500 EP	24



FEATURES

- Electronic probe sensor
- 5-wire design
- Onboard LED indicator
- Plenum rated wire
- 5 amp carrying capacity

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 Pending

SS610 E

Mini-Split systems

Code	Description	Qty.
97622	SS610 E	12



FEATURES

- Sensor connects to indoor units
- Onboard LED indicator can be mounted to side of unit
- Univolt input 15-250 Vac 15-100 Vdc

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 and normally closed systems
- No batteries required



US Patent No. 8,887,392

SS 700 E

Directly in the secondary drain pan

Code	Description	Qty.
97695	SS700 E	24



FEATURES

- Multiple mounting angles
- Works in any position
- Universal puck works in all secondary drain pans
- Onboard LED indicator
- Stainless steel bracket

Application • Designed to work in any position within a secondary drain pan, eliminating screws and clips

- Multiple position option for the sensor and provides adjustable height
- Great for use in plastic overflow pans with round edges
- Automatically resets when water drains or is removed from secondary pan



US Patent Pending

EZ TRAP® 100 SERIES CLEAR TRAP™ KITS

Clear cleanable trap.

EZ TRAP®

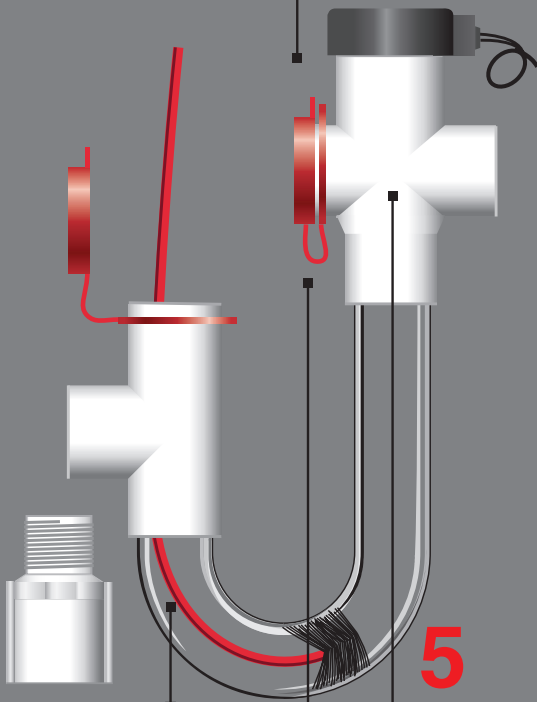
Condensate Traps and Overflow Switches

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.

2 Proven reliability and higher switching capacity with microswitch technology. (4A NO/NC)



3 Transparent Trap is easy to clean and easy to inspect.

4 Watertight red caps provide easy access to clean the trap and drain pan outlet.

5 Quality construction with durable schedule 40 PVC fittings.

EZ TRAP

(Patent No. 5,069,042)

2 Year Warranty

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. #)

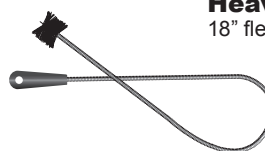
83406 (EZT406)



Standard Cleaning Brush
18" flexible rod. 25 per carton.

RS # (ref. #)

83405 (EZT405)



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

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

200 SERIES SMARTTRAP™ KITS

Float switch overflow protection. Clear cleanable trap

220 SERIES OVERFLOW SWITCHES

Float switch overflow protection.

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

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, 48" cable, cleaning brush, 3" drop.



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, 48" cable.



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, 48" cable, cleaning brush, reducing tee, 1" drop.



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, 48" cable.



RS # (ref. #)

Size

83210 (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, 48" cable, cleaning brush, 1" drop.



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, 48" cable.



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, 48" cable, cleaning brush, 1" drop.



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, 48" cable.



EZ TRAP® 100 SERIES WATERLESS KITS

Waterless freeze protection.

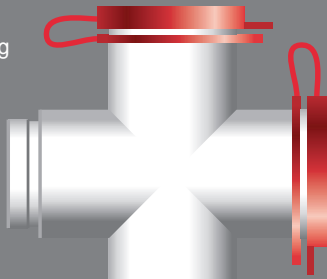
EZ TRAP®

UltraTrap™ Waterless Condensate Traps

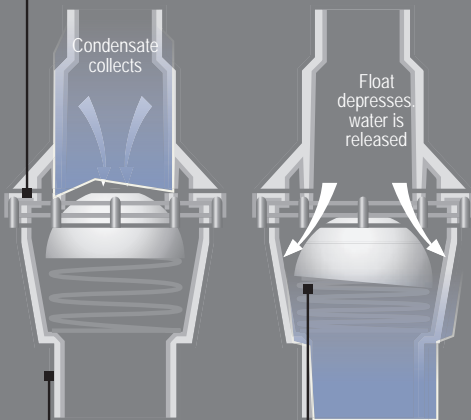
For Negative & Positive Pressure Systems
Up to .5" WG, Capacity 2.7 GPM

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.

EZ TRAP

2 Year Warranty

(Patent No. 6,698,225)

RS # (ref. #)

83150 (EZT150)

Size

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.

U. S. Patent No. 6,698,225

RS # (ref. #)

83180 (EZT180)

Size

5/8"



Mini waterless in-line trap

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. 10 per carton. Includes: 5/8" MiniTrap, 9/16" adapter.

600 SERIES

Combo kit Clear Trap and Overflow Switch

RS # (ref. #)

83626 (EZT626)

Size

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, 48" 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.

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



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 Approved

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, 24Volt 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 Approved

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, 24Volt AC Magnetic Float Switch



AG-1250E

Multipurpose Water Sensor

Code	Description	Qty.
96108	Water Sensor	30



IND. CONT. EQ.
25XE
UL 508

FEATURES

- Switch can be normally open or normally closed
- 5 Amp, 24 Volts AC solid state sensor with water detection LED light
- NEW adjustable height mount
- 6 feet of control wire
- UL 508 Approved

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 4th 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



IND. CONT. EQ.
25XE
UL 508

FEATURES

- Removable cap
- Install horizontal or vertical
- Water detection LED light
- Bonus secondary sensor
- Switch can be normally open or normally closed
- 6 feet of probe & sensor wire
- Elbow & straight coupling adapters included
- 2 Sensors for price of 1
- UL 508 Approved

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 4th 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
96121	Primary Pan Sensors - 3 pks	5
96122	Primary Pan Sensors- 6 pks	5



IND. CONT. EQ.
25XE
UL 508

FEATURES

- Time delay
- Water detection LED
- Adhesive tape mounting
- 6 feet of wire
- UL 508 Approved

US Patent 7,744,395 ; 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.

- Controls normally closed
- 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



IND. CONT. EQ.
25XE
UL 508

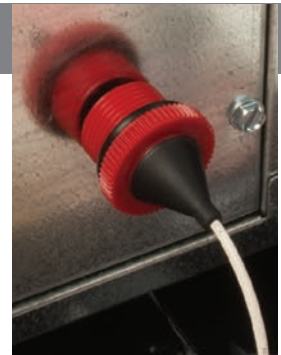
FEATURES

- Time delay
- Install horizontal or vertical
- Water detection LED light
- Bonus secondary sensor
- Compact waterproof design
- UL 508 Approved

US Patents
7,744,395; 8,151,580; 8,154,313; 8,561,417; 8,578,770

Application • The AquaGuard AG-3150E 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



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

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 Approved

US Patent
7,744,395; 8,151,580; 8,154,313; 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-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-3157

Probe Extension Wire

Code	Description	Qty.
96184	Probe Extension Wire	10

- FEATURES**
- 6 foot extension
 - Quick & easy installation
 - Shur plug connectors

US Patent 7,744,395

Application • The AG-3157 is a six foot extension cable for AquaGuard Condensate Management Systems

- The AG-3157 is installed between the condensate water probe and the AG-3000 Series Secondary Sensor on our AquaGuard AG-3150E Condensate Management Systems



AQUAGUARD® SENSORS

Continued

Condensate Management

Compressor Maintenance

Air Diffusers

Lineset Covers & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

AG-3176E

Primary Pan Probe (Plenum Rated)

Code	Description	Qty.
96182	Electronic Probe	10

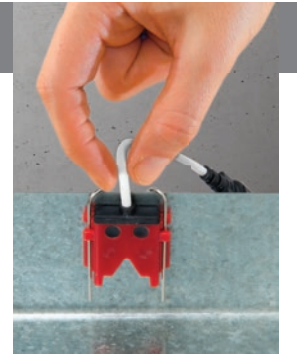
FEATURES

- Slim micro probe
- Adhesive pad
- Two adjustable mounting clips
- Waterproof molded shurr plug connector
- UL 508 Approved

US Patent
7,744,395; 8,151,580; 8,154,313; 8,56, 417;
8,578,770, D527,793

Application • The AquaGuard AG-3176E is an alternative plenum rated primary pan probe for the AquaGuard AG-3150E and AG-3175E.

- The AquaGuard AG-3176E can be substituted for the secondary drain pan probe sensor on our AquaGuard AG-3150E and plenum rated AG-3175E Condensate Management Systems that are normally installed in the auxiliary drain port
- Can detect as little as 1/16 inch of condensate water



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 Approved

US Patent
7,744,395; 8,151,580; 8,151,621; 8,154,313;
8,169,314; 8,561,417; 8,578,770

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 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems



AG-4200E

Electronic Condensate Management 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 approved

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

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



Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

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 Approved

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

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, 24Volt AC Magnetic Float Switch
- Includes Vibration Isolators



Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

AQUAGUARD® SENSORS

Continued

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

AG-4250E

Primary and Secondary Pan Condensate Sensor

Code	Description	Qty.
96148	Condensate Management System	1



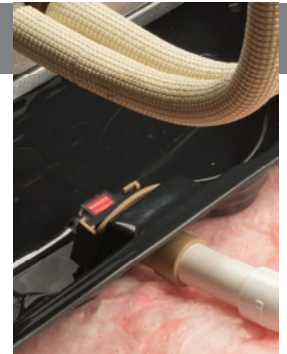
FEATURES

- Two sensors
- Time delay up to 60 sec
- Smart sensor technology
- 1/4 inch trigger depth
- Water detection LED light
- 4th wire for alarm
- UL 508 Approved

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) • Controls Normally Open or Normally Closed • 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 lights
- 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



AG-9150E

Multipurpose Water Sensor & Alarm

Code	Description	Qty.
96190	Multipurpose Water Sensor & Alarm	10

FEATURES

- Versatile Mounting Options
- Water detection LED lights
- 6 Feet of Control Wire
- Up to 250 Ft. away from condensate switch
- AG-1250E is UL 508 Approved

US Patent
8,578,770

Application • The AquaGuard AG-9150E is the ultimate condensate management system for any residential or commercial application. The AG-9150E features our award winning AG-1250E Multipurpose Water Sensor combined with our AG-9100 External Audible and Visual Remote Alarm. For metal or plastic secondary pan, floors, walls and basement installations.

- External Audible & Visual Remote Alarm with Five Bright White LED Lights
- 103 Decibel Audible Alert that can be mounted over 250 Feet Away
- 5 Amp, 24 Volts AC Solid State Sensor
- Switch Can Be Normally Open or Normally Closed with Automatic Reset
- Compact Waterproof Design



AG-9300

Electronic Condensate Drain Sensors

Code	Description	Qty.
96192	Universal Drain Sensor for Ductless Mini-Split Systems	10
96194	Drain Sensor for Mitsubishi Ductless Mini-Split Systems	10
96196	Drain Sensor for LG Ductless Mini-Split Systems	10



IND. CONT. EQ.
75MF
UL 508

FEATURES

- Quick and Easy Installation
- Low Battery Audible Alert
- Meets International Building Codes
- UL 508 Approved

Patent Pending

Application • Each system continuously monitors any condensate overflow in the primary drain pan of any ductless mini-split system, and automatically shuts off the system and activates an alarm if any overflow is detected.

- Universal Model is Compatible with All Major Manufacturer's Ductless Mini-Split Systems Currently on the Market
- Additional Models Available with Exclusive Wire Harness Connectors for Mitsubishi, LG and CS
- Long Life Lithium Battery Included (Lasts Up To the Life of the Ductless Mini-Split Unit)
- Up to 20 Second Make/Break Delay with Automatic Reset





GOLIATH® CONDENSATE PANS AND RISERS

Goliath®

Secondary Drain Pans

Code	Pan Size	Outer (Max) Dimension			Inside (Drip Area) Dimension		
		Length	Width	Depth	Length	Width	Depth
96200	26x56"	56.625"	26.5"	2.75"	51.0"	19.5"	2.0"
96202	28x57"	57.25"	28.375"	5.25"	51.75"	21.5"	2.0"
96204	28x69"	69.125"	28.25"	4.25"	66.5"	26.0"	2.0"
96206	30x50"	50.50"	30.25"	4.00"	45.00"	22.75"	2.1"
96208	30x62"	63.00"	30.375"	4.25"	56.875"	22.75"	2.1"
96210	30x66"	66.50"	30.25"	4.00"	64.00"	22.75"	2.1"

FEATURES

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

US Patent
7,878,019; 7,900,795; D562,963



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 patented 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	Outer (Max) Dimension			Inside (Drip Area) Dimension		
		Length	Width	Depth	Length	Width	Depth
96214	30x50"	56.625"	30.25"	4.00"	45.25"	22.75"	2.1"
96216	30x62"	63.00"	30.375"	4.25"	56.875"	22.75"	2.1"
96218	30x66"	69.50"	30.25"	4.00"	64.00"	22.75"	2.1"

FEATURES

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

US Patent
7,878,019; 7,900,795; D562,963



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.

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 patented 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.

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



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

Titan™ Secondary Drain Pans Flexible Series

Code	Pan Size	Outer (Max) Dimension			Inside (Drip Area) Dimension		
		Length	Width	Depth	Length	Width	Depth
96230	24x24"	24.00"	24.00"	2.25"	20.00"	20.50"	2.25"
96232	26x26"	26.00"	26.00"	2.25"	22.00"	22.50"	2.25"
96234	30x30"	30.00"	30.00"	2.25"	26.00"	26.50"	2.25"
96236	32x32"	32.00"	32.00"	2.25"	28.00"	28.50"	2.25"
96238	30x50"	50.50"	30.25"	2.50"	45.00"	22.75"	2.50"
96240	30x62"	63.00"	30.375"	2.50"	56.875"	22.75"	2.50"

FEATURES

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

US Patent
7,878,019



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 patented 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

* Hangable when properly configured with approved steel supports and pressure treated 4" x 4"s.

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

Goliath® Furnace

Secondary Drain Pans Furnace Series

Code	Pan Size	Outer (Max) Dimension			Inside (Drip Area) Dimension		
		Length	Width	Depth	Length	Width	Depth
96220	30x36"	37.50"	30.50"	3.00"	30.75"	23.00"	2.375"
96222	34x64"	64.125"	34.125"	7.50"	59.00"	26.75"	2.1"
96224	34x79"	79.00"	33.75"	7.50"	73.50"	26.50"	2.1"

FEATURES

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

US Patent
7,637,387; 7,673,646; 7,878,019; D562,963



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 patented 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" x 3.00" 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 & Titan Series are made of DexElar® advanced polymer.

Goliath® Furnace

Riser Kits

Code	Model	Outer (Max) Dimension		
		Length	Width	Depth
96254	GFR 28x6	28.50"	7.50"	6.00"
96250	GFR 23x4	22.50"	5.75"	3.625"
96252	GFR 23x7	22.50"	5.75"	6.50"

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.

US Patent 8,220,768

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.



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



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

CONDENSATE DRAIN LINE CLEANERS

Condensate Management

Hydrex™ A/C Tabs

A/C drain pan & drain line treatment

Code	Description	Qty.
68115	200 tablet bottle	12

FEATURES

- Easily dispensed
- Long lasting

Application • Prevents drain line and pan blockage in air conditioners, humidifiers and refrigerators due to build up of sludge and slime • 2 tablets per one ton of air conditioning controls odor and sludge for up to 3 months

Recommended for

- Drain pan



Compressor Maintenance

Air Diffusers

Nu Line®

A/C condensate drain cleaner

Code	Description	Qty.
97685	8 oz.	24
97690	32 oz.	12

FEATURES

- Easily dispensed
- Long lasting
- Enzyme based
- Environmentally friendly

Application • Helps prevent A/C drain line clogs and water leaks by preventing accumulation of slime and keeping drain lines open • Use every three months to help prevent mold growth

Recommended for

- Drain line • Drain pan



Linesets & Lineset Covers

Locking Refrigerant Caps

Actabs™

Drain line biocide

Code	Description	Qty.
68102	EE - 3 tab pouch	50
68108	6 tablet pouch	72
68104	JR - 200 tab bottle	12
68107	DMSS - 200 tab bottle	12

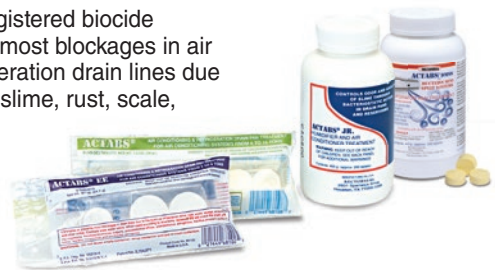
Actabs™ EE	Systems from 1 to 5 tons	EPA Reg. no. 51219-7
Actabs™	Systems from 6 to 15 tons	EPA Reg. no. 51219-7
Actabs™ JR	All systems monthly application	EPA Reg. no. 51219-7
Actabs™ DMSS	Ductless Mini-Split Systems	EPA Reg. no. 51219-7

Application • EPA registered biocide eliminates or prevents most blockages in air conditioning and refrigeration drain lines due to build up of bacterial slime, rust, scale, sludge, airborne dust, silt and other solids

- Lasts up to 3 months

Recommended for

- Drain pan
- Computer rooms
- Ductless Mini-Split Systems



Mounting & Installation

Specialty Chemicals

Easy Klear™

Clean-out valve

Code	Description	Qty.
97585	¾" line	12

FEATURES

- Easy upstream or downstream access to drain line

Application • Three-way clean-out valve for A/C and refrigeration condensate drain lines • Removable cap allows access for shop-vac cleaning • ¼" opening allows access to blow out clogs using CO₂ or nitrogen charges

Recommended for

- Condensate drain line



Air Conditioning Chemicals

Heating Chemicals

Other Related Products

VACUUM OR PUSH-OUT CLOG IN CONDENSATE DRAIN LINES

Mighty Pump™

Quickly & completely clear blockage

Code	Description	Qty.
97795	Mighty Pump™	4
97796	Replacement Hoses 2 per bag	6

FEATURES

- No nitrogen tank or gas cartridges needed
- 2-way flow w/o backflow
- Lightweight, heavy-duty molded PVC
- Easy clean up
- High volume, low pressure

Application • Hand-operated pump that can be used to vacuum or push-out a clogged drain line from inside or outside the home or building

- Generates enough pressure to clear slime, mold & dirt plugs

Recommended for

- Drain Line • A/C condensate pans • Secondary overflow pans • Water heater pans • Tubs & toilets

Includes • Pump body • Flexible hoses • Spring check valves • 3/4" adapter • Spare O-rings



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Compressor Maintenance

- Kickstart® •
- Acid-Away® •
- Acid-Away® for POE •
- Acid-Detector™ •
- Acid-Detector™ for POE •
- Oil-ID™ •
- Turbo-Kleen™ •
- AC Leak Freeze™ •





KICKSTART® ORIGINAL 2-WIRE HARD START DEVICE

The only OEM tested & approved device.

Kickstart®

Potential relay & start capacitor

Code	Description	Qty.
96506	KS-1	20
96503	TO-5	20



FEATURES

- 2-wire design for easy installation
- 3-year warranty
- Extend the life of compressors
- OEM tested & approved

Application • 2-wired starting device that uses a mechanical potential relay & start capacitor • Assists compressors in starting under very adverse conditions such as low voltage or high head pressures, extending the life of compressors by providing the correct torque to bring them up to full speed more quickly and efficiently

Recommended for • Single phase 208V, 230V, and 265V A/C, refrigeration and heat pump compressors

- KS-1 handles 3.5 - 5.0 ton
- TO-5 handles 1.0 - 3.0 ton



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



ACID-AWAY® COMPRESSOR ACID NEUTRALIZER

Recommended by compressor manufacturers and proven to neutralize acid after burnouts.

Condensate Management

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Heating Chemicals

Other Related Products

Acid-Away®

Compressor burnout acid neutralizer

Code	Description	Qty.
45004	4 oz.	12

FEATURES

- Stays active in the system to prevent any future acid
- Great for preventive maintenance
- Safe for system components
- Tested to ANSI/ASHRAE standards 86-1983 & 97-1989
- Approved & recommended by OEM's
- More effective than claimed neutralizers or scavengers

Application • Chemical treatment for A/C and refrigeration systems that have experienced a burnout or operating systems that are showing a buildup in acid content • Protects from future burnouts • Neutralizes acid molecules, unlike other products which merely coagulate to be caught in the filter drier

Recommended for • Specifically formulated for both hermetic or semi-hermetic compressors that operate with standard CFC or HCFC refrigerants using mineral oil or alkylbenzene type refrigeration oils



Acid-Away® for POE

Acid neutralizer for POE oils

Code	Description	Qty.
45009	4 oz.	12

FEATURES

- Removes residual acid
- Compatible with Polyol Ester lubricants
- Great for preventative maintenance
- Tested to ANSI/ASHRAE standards 86-1983 & 97-1989
- Approved & recommended by OEM's

Application • Prevents compressor burnouts by removing the acid buildup that can occur in Polyol Ester refrigeration oils used in A/C and refrigeration systems • Neutralizes acid molecules, unlike other products which merely coagulate to be caught in the filter drier

Recommended for • Specifically formulated for compressors that operate with Polyol Ester oils & is safe for use in all oils





ACID-DETECTOR™ & OIL-ID™

Field test kits to detect acid & determine oil types.

Acid-Detector™

Test kit

Code	Description	Qty.
45002	Kit	12

FEATURES

- Fast acting

Application • Test kit designed for use in the field to detect acid in air conditioning and refrigeration oils

- Quickly detects the smallest trace of acids

Recommended for

- Mineral Oil • Alkylbenzene type refrigeration oil



Acid-Detector™ for POE

Test kit for POE oils

Code	Description	Qty.
45006	Kit	12

FEATURES

- Fast acting

Application • Test kit designed for use in the field to detect acid in Polyol-Ester type oil • Quickly detects unacceptable amounts of acid

Recommended for

- POE air conditioning & refrigeration oil



Oil-ID™

Identify oil type

Code	Description	Qty.
45001	Kit	12

FEATURES

- Cost effective
- Quick & easy to use

Application • Field test kit quickly and easily identifies the type of refrigeration oil used in HVAC-R systems • This inexpensive product will tell you within seconds, if the oil being used is a Polyol-Ester (POE) oil or not

Recommended for

- All types of oil





A/C SYSTEM MAINTENANCE

AC Leak Freeze™

Leak sealant & system enhancer



Code	AC Leak Freeze R - for appliance	Qty.
45301	.5 oz	12
45302	.5 oz w/1/4" adaptor	12

Leak sealant for appliance and refrigeration systems

Code	AC Leak Freeze	Qty.
45311	1.5 oz	12
45312	1.5 oz w/1/4" adapter	12
45313	2 oz	12
45314	2 oz w/1/4" adaptor	12

Leak sealant for A/C and refrigeration systems

Code	AC Leak Freeze with Magic Frost	Qty.
45321	1.5 oz w/Magic Frost	12
45322	1.5 oz w/1/4" adapter & Magic Frost	12
45323	2 oz w/Magic Frost	12
45324	2 oz w/1/4" adapter & Magic Frost	12

Leak sealant and system enhancer for A/C and refrigeration systems

Code	Adapter Kits	Qty.
45344	1/4" adapter only	5
45345	5/16" adapter only	5

Code	Displays	Qty.
45348	Counter Display w/product	1
45349	Floor Display w/product	1

Code	Oil Injector	Qty.
45300	2 fluid oz.	6



Application • Permanently seal gas leaks in A/C and refrigeration systems • For use in copper and aluminum coils • Polymer free: non-clogging to compressors, recovery units, schrader valves, cap tubes, TXV valves, micro channels, evacuation equipment and gauges.

Recommended for • Sealing small, hard-to-find micro leaks • Revitalizing A/C & refrigeration systems • Enhancing system performance • Reducing compressor noise • Extend compressor life.

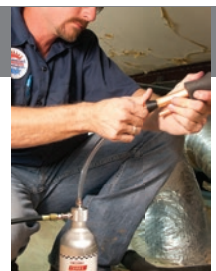
Kit Includes

- Injector nozzle & canister
- Flushing tool
- Plastic connecting line
- 1 pt. of chemical solution



Turbo-Kleen™

Chemically cleans & mechanically scrubs



Code	Description	Qty.
82500	Flush Kit	6
82400	1 pt. refill	12
82450	1 gal. refill	4

FEATURES

- Unique combination of chemical cleaning and scrubbing
- Stays active during the entire cleaning process
- Low toxicity
- Cost effective, reusable system; only buy refills for future jobs

U. S. Patent No. 8,298,345; 8,734,589

Application • Quick and less expensive way to completely clean residual oil and contaminants from A/C line sets • Scrubbing action cleans more completely than chemicals alone

Recommended for • Retrofits • Refrigerant conversions • Compressor change-outs

Kit Includes

- Injector nozzle & canister
- Flushing tool
- Plastic connecting line
- 1 pt. of chemical solution

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Air Diffusers

Airtec® Classic •

Airtec® Retro •

Airtec® Tuffbox •





AIRTEC® CLASSIC AIR DIFFUSERS

Our patented 73 second diffuser install is the quickest in the trade.

AIRTEC

CLASSIC

GRILLE • DAMPER • BOX

Think Fast. Work Smart.

Ask your distributor about the Airtec 73 second diffuser install.

The 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.

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

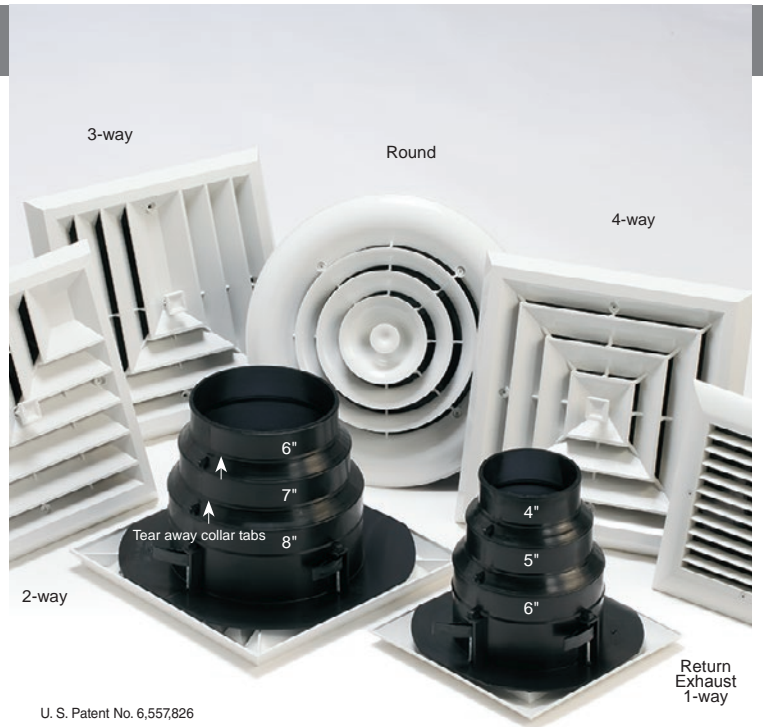
Mounting Clips are designed to accommodate ceiling thickness to 1 1/4". Screw heads are powder coated

Stepped Collar easily fits multiple duct sizes

Zip off bands tear away unneeded sections

High Grade Polymer Grille resists breakage, scratching, yellowing or fading

Virtually airtight butterfly damper
Rubber gasket delivers superior seal when closed



Condensate Management

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Linesets & Lineset Covers

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Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



AIRTEC® RETRO AIR DIFFUSERS

Something unexpectedly beautiful for your discriminating customer.

AIRTEC

RETRO

GRILLE • DAMPER • BOX

Retro Style. Same Innovation

Ask your builder about the Airtec Retro upgrade.

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. Stepped boot design, 2 sizes accommodate from 4" to 8" diameter ductwork.



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



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

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Air Conditioning Chemicals

Heating Chemicals

Other Related Products



AIRTEC® TUFFBOX AIR DIFFUSERS

Quick rough-in polymer register box for HVAC systems.

AIRTEC TUFFBOX

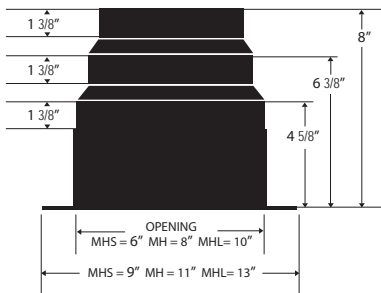
REGISTER BOX

Quick Rough-In Registers

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

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 1³/₈" and beaded to hold flexible duct in place while strap is secured. 5⁵/₈" 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.



ORDERING INFORMATION

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.

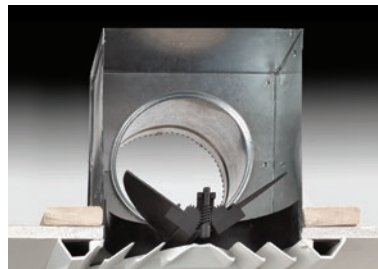


AIRTEC® ACCESSORIES

GRD Limited Clearance Diffusers

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.

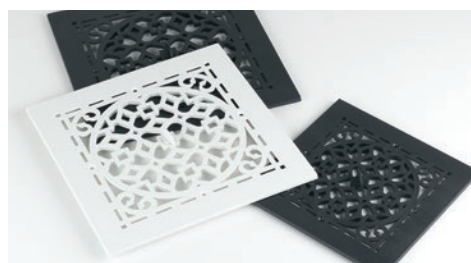
Grille with damper



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.

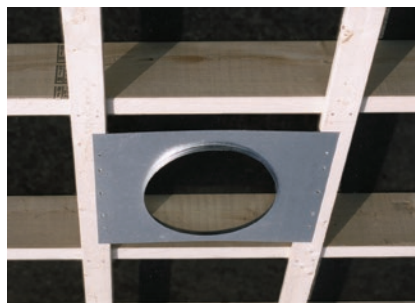


RCF Ceiling Support Flanges

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.

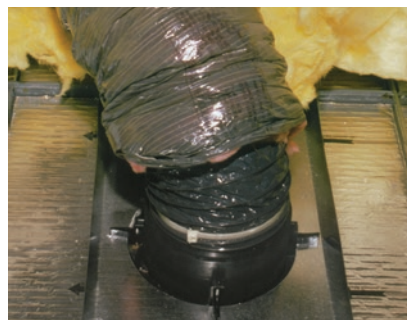


DCF Drop Ceiling Flanges

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.
81953 (DCFS)	24"O/C - 7" hole	23 ⁵ / ₈ "	12"	2"	25	48 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.



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

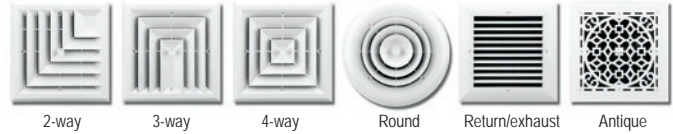
Air Conditioning Chemicals

Heating Chemicals

Other Related Products

AIRTEC® ORDERING INFORMATION

GRILLE PATTERNS



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Linset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

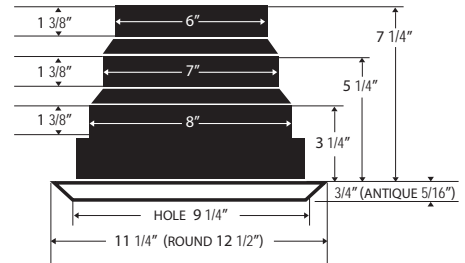
Air Conditioning Chemicals

Heating Chemicals

Other Related Products

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.

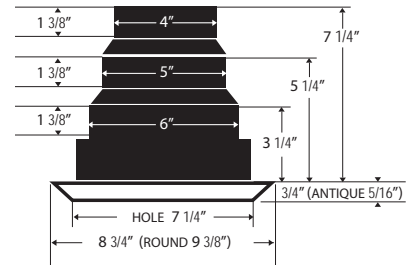


Airtec Retro standard 8x8" diffuser assembly

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.

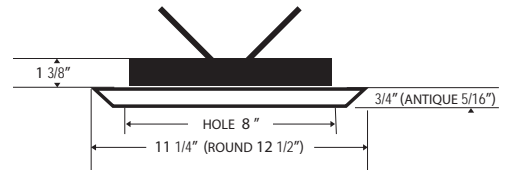


Airtec Retro small 6x6" diffuser assembly

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.

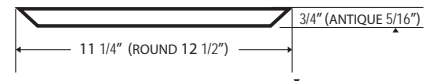
Limited clearance grille/damper

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81942 (GRD2)	2-way grille/damper	12	15.8 lbs.
81943 (GRD3)	3-way grille/damper	12	15.8 lbs.
81944 (GRD4)	4-way grille/damper	12	15.8 lbs.
81941 (GRD360)	Round grille/damper	6	7.7 lbs.
81945 (GRDE)	Return/exhaust grille/damper	12	15.8 lbs.
81949 (GRDAW)	Retro grille/damper (white)	12	15.8 lbs.
81948 (GRDAB)	Retro grille/damper (black)	12	15.8 lbs.



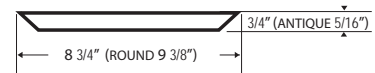
Standard Limited clearance grille only

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81832 (GR2)	2-way grille	10	6 lbs.
81833 (GR3)	3-way grille	10	6 lbs.
81834 (GR4)	4-way grille	25	6 lbs.
81831 (GR360)	Round grille	15	6 lbs.
81835 (GRE)	Return/exhaust grille	25	6 lbs.
81839 (GRAW)	Retro grille (white)	25	8 lbs.
81838 (GRAB)	Retro grille (black)	10	8 lbs.



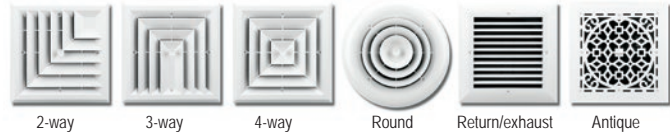
Small limited clearance grille only

RS # (ref. #)	DESCRIPTION	CTN QTY	CTN WT
81822 (GR2S)	2-way grille small	10	2 lbs.
81823 (GR3S)	3-way grille small	10	2 lbs.
81824 (GR4S)	4-way grille small	10	2 lbs.
81821 (GR360S)	Round grille small	10	4 lbs.
81825 (GRES)	Return/exhaust grille small	10	2 lbs.
81829 (GRASW)	Retro grille small (white)	10	5 lbs.
81828 (GRASB)	Retro grille small (black)	10	5 lbs.



AIRTEC® DIFFUSER AIR FLOW SPECIFICATIONS

GRILLE PATTERNS



RS # (ref. #)
81912 (MV2), 81942 (GRD2) & 81832 (GR2) (8x8") Ak=.33

RS # (ref. #)
81902 (MV2S) & 81822 (GR2S) (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.006 WG	4.9 ft	164 ft/min	 <p>2-WAY</p>	55	.028 WG	4.5 ft	308 ft/min
75	.009 WG	6.7 ft	229 ft/min		75	.054 WG	6.0 ft	421 ft/min
90	.014 WG	8.0 ft	264 ft/min		90	.102 WG	7.1 ft	592 ft/min
110	.021 WG	9.8 ft	330 ft/min		110	.145 WG	8.9 ft	663 ft/min
125	.027 WG	11.1 ft	375 ft/min		125	.181 WG	10.3 ft	785 ft/min
150	.039 WG	13.4 ft	451 ft/min		150	.245 WG	11.5 ft	903 ft/min
175	.053 WG	15.6 ft	533 ft/min		175	.325 WG	12.6 ft	1045 ft/min
200	.069 WG	17.8 ft	604 ft/min		200	.430 WG	14.0 ft	1155 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. #)
81913 (MV3), 81943 (GRD3) & 81833 (GR3) (8x8") Ak=.29

RS # (ref. #)
81903 (MV3S) & 81823 (GR3S) (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.008 WG	5.0 ft	188 ft/min	 <p>3-WAY</p>	55	.056 WG	5.3 ft	344 ft/min
75	.014 WG	6.8 ft	255 ft/min		75	.075 WG	7.2 ft	426 ft/min
90	.020 WG	8.1 ft	310 ft/min		90	.130 WG	8.8 ft	570 ft/min
110	.030 WG	9.9 ft	370 ft/min		110	.171 WG	10.2 ft	661 ft/min
125	.038 WG	11.3 ft	445 ft/min		125	.230 WG	11.1 ft	785 ft/min
150	.054 WG	13.5 ft	517 ft/min		150	.290 WG	11.5 ft	880 ft/min
175	.073 WG	15.8 ft	602 ft/min		175	.445 WG	12.1 ft	994 ft/min
200	.095 WG	18.0 ft	689 ft/min		200	.545 WG	12.8 ft	1182 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. #)
81914 (MV4), 81944 (GRD4) & 81834 (GR4) (8x8") Ak=.30

RS # (ref. #)
81904 (MV4S) & 81824 (GR4S) (6x6") Ak=.20

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.007 WG	3.9 ft	183 ft/min	 <p>4-WAY</p>	55	.050 WG	4.5 ft	330 ft/min
75	.011 WG	5.3 ft	247 ft/min		75	.085 WG	6.3 ft	361 ft/min
90	.017 WG	6.4 ft	293 ft/min		90	.117 WG	7.1 ft	440 ft/min
110	.024 WG	7.8 ft	359 ft/min		110	.160 WG	8.2 ft	527 ft/min
125	.030 WG	8.9 ft	410 ft/min		125	.200 WG	9.1 ft	605 ft/min
150	.043 WG	10.6 ft	505 ft/min		150	.290 WG	10.2 ft	750 ft/min
175	.057 WG	12.4 ft	562 ft/min		175	.395 WG	10.9 ft	875 ft/min
200	.073 WG	14.2 ft	640 ft/min		200	.490 WG	11.5 ft	962 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. #)
81911 (MV360), 81941 (GRD360) & 81831 (GR360) (8x8") Ak=.33

RS # (ref. #)
81901 (MV360S) & 81821 (GR360S) (6x6") Ak=.17

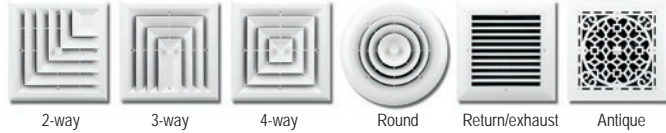
CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.002 WG	3.0 ft	161 ft/min		55	.006 WG	0.8 ft	214 ft/min
75	.003 WG	3.6 ft	223 ft/min		75	.009 WG	1.5 ft	284 ft/min
90	.004 WG	3.8 ft	269 ft/min		90	.014 WG	2.2 ft	347 ft/min
110	.005 WG	4.0 ft	328 ft/min		110	.018 WG	2.3 ft	415 ft/min
125	.006 WG	5.0 ft	381 ft/min		125	.025 WG	3.2 ft	437 ft/min
150	.010 WG	5.5 ft	449 ft/min		150	.036 WG	4.4 ft	544 ft/min
175	.015 WG	6.5 ft	527 ft/min		175	.045 WG	5.5 ft	614 ft/min
200	.021 WG	7.0 ft	612 ft/min		200	.060 WG	6.4 ft	699 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					

*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.

AIRTEC® DIFFUSER AIR FLOW SPECIFICATIONS

GRILLE PATTERNS



RS # (ref. #) 81915 (MVE), 81945 (GRDE) & 81835 (GRE) (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) & 81825 (GRES) (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), 81949 (GRDAW) & 81839 (GRAW) (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) & 81829 (GRASW) (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), 81948 (GRDAB) & 81838 (GRAB) (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) & 81828 (GRASB) (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

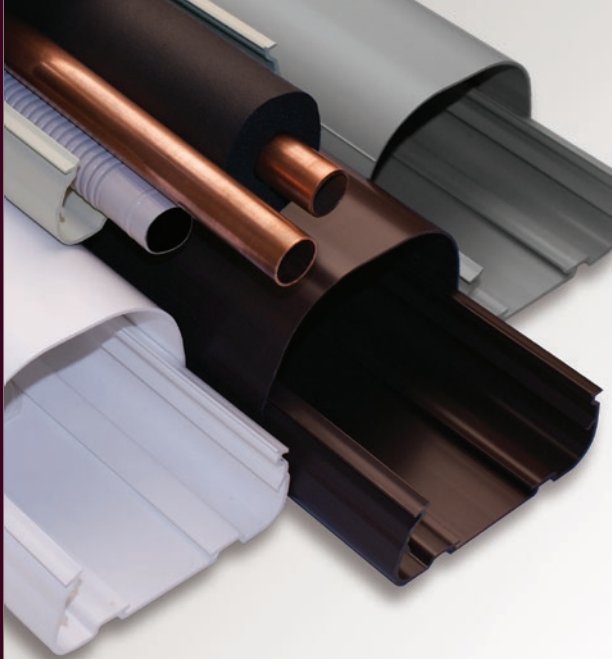
Note: Supply diameter has no appreciable effect on characteristics or airflow specifications, but should be consistent with the desired airflow of the particular outlet and application. Instruments used in testing: • Shortridge Instruments Flowhood Series 8400 • Shortridge Instruments Air data Multimeter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

Linesets & Lineset Covers

Fortress® Lineset Ducting System •

Slimduct® Lineset Ducting System •

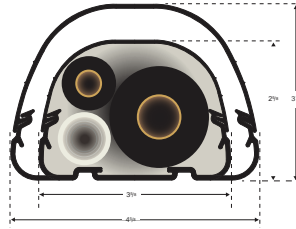
PD Series •





FORTRESS® LINESET COVERS

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



Technical Information

Weather Resistance
Weather resistant PVC,
UV stabilized & fire resistant.
Tested to over 2,000 hours.
Temperature Range
-4°F to 140°F

Standard professional grade lineset cover system • Satin finish • More moderate price point

Application. Perfect for mini-splits, high velocity and conventional split air conditioning systems.

Strong. UV and weather resistant

Protective. Lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

Easy to install. Easily accessed for repairs or replacement of the lineset.

Stylish. Compliments any residential or commercial building.

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

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



Size Specifications - Choose duct size LD92 or LD122.

Fortress® Options

4 Colors for Residential & Commercial Applications



White

Ivory

Gray

Brown

NOTE: Dark colors fade in sunlight sooner than lighter colors

FORTRESS® LINESET COVER ORDERING INFORMATION

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals





























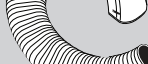





Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Longer 8ft ducting minimizes joints and reduces waste



	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	-	-	-

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)							

NEW!

12' Wall Duct Kit

Kit includes 12' of duct and fittings for a standard 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)

Order:

- 84045 LDK92G - Gray 3 1/2
- 84145 LDK122G - Gray 4 1/2
- 84065 LDK92B - Brown 3 1/2
- 84165 LDK122B - Brown 4 1/2
- 84005 LDK92W - White 3 1/2
- 84105 LDK122W - White 4 1/2
- 84025 LDK92I - Ivory 3 1/2
- 84125 LDK122I - Ivory 4 1/2

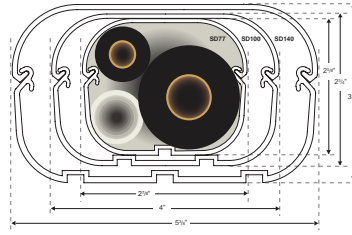
**Ducting and fittings packaged**

6 per box helps minimize inventory



SLIMDUCT® LINESET COVERS

Attractive lineset ducting system for the professional installer.



Technical Information

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

Temperature Range
-4°F to 140°F

SLIMDUCT

Heavy weight professional grade lineset cover system • Gloss finish

Application. Perfect for mini-splits, high velocity and conventional ducted air conditioning systems.

Strong. UV, weather and fire resistant with a temperature range from -4°F to 140°F. The result is a long lasting quality product that will remain attractive and provide protection for many years.

Protective. Lineset, wiring and drain hose from weather, vandalism, pet and pest damage.

Easy to install. Easily accessed for repairs or replacement of the lineset.

Stylish. Compliments any residential or commercial building.

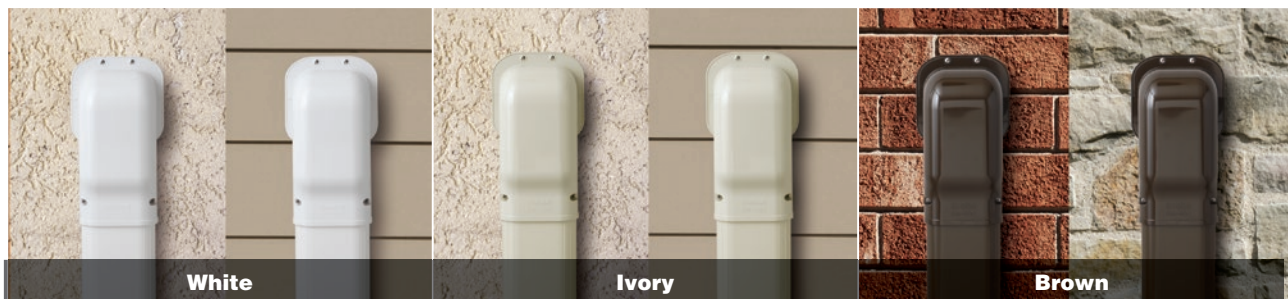
- 3 sizes.** 2³/₄", 4¹/₂" and 5¹/₂"
- 3 colors.** Choose white, ivory, or brown
- 15 fittings.** Assures complete flexibility of installation
- 78" lengths.** 5 lengths per box
- 10 fittings per box.**
- 1 year warranty.**



Size Specifications - Choose duct size SD77, SD100 or SD140.

SlimDuct® Options

3 Colors for Residential & Commercial Applications



White

Ivory

Brown

NOTE: Dark colors fade in sunlight sooner than lighter colors

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation
















Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

SLIMDUCT® LINESET COVER ORDERING INFORMATION

	RS# (ref. #) White	RS# (ref. #) Ivory	RS# (ref. #) Brown	Description	L	W	H
	85004 (SD-77-W)	85024 (SD-77-I)	85064 (SD-77-B)	SD Slimduct 78" 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 3/4"
	85204 (SD-140-W)	85224 (SD-140-I)	85264 (SD-140-B)	SD Slimduct 78" L - 140	78"	5 3/8"	3 1/4"
	86010 (SJ-77-W)	86030 (SJ-77-I)	85370 (SJ-77-B)	SJ coupler 77	2"	3 3/8"	2 5/8"
	86110 (SJ-100-W)	86130 (SJ-100-I)	85470 (SJ-100-B)	SJ coupler 100	2 1/2"	4 1/4"	3"
	86210 (SJ-140-W)	86230 (SJ-140-I)	85570 (SJ-140-B)	SJ coupler 140	3 1/2"	5 1/4"	3 3/8"
	86016 (SW-77-W)	86036 (SW-77-I)	85376 (SW-77-B)	SW wall inlet 77	8"	4 3/8"	3"
	86116 (SW-100-W)	86136 (SW-100-I)	85476 (SW-100-B)	SW wall inlet 100	8 3/4"	5"	3 3/8"
	85216 (SW-140-W)	85236 (SW-140-I)	85576 (SW-140-B)	SW wall inlet 140	11"	6 1/2"	3 3/8"
	85014 (SP-77-W)	85034 (SP-77-I)	85374 (SP-77-B)	SP soffit inlet 77	5 1/8"	4 3/8"	5 1/8"
	86114 (SP-100-W)	86134 (SP-100-I)	85474 (SP-100-B)	SP soffit inlet 100	5 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 1/8"	5 3/4"
	86007 (SE/SEN-77-W)	86027 (SE/SEN-77-I)	85367 (SE/SEN-77-B)	SEN end fitting 77	1 3/4"	3 1/4"	2 5/8"
	86107 (SEN-100-W)	86127 (SEN-100-I)	85467 (SEN-100-B)	SEN end fitting 100	4 1/2"	4 1/4"	3"
	86207 (SEN-140-W)	86227 (SEN-140-I)	85567 (SEN-140-B)	SEN end fitting 140	6"	5 3/4"	3 3/8"
	86011 (SK-77-W)	86031 (SK-77-I)	85371 (SK-77-B)	SK 90° flat ELL 77	5"	2 5/8"	5"
	86111 (SK-100-W)	86131 (SK-100-I)	85471 (SK-100-B)	SK 90° flat ELL 100	6"	3"	6"
	85211 (SK-140-W)	85231 (SK-140-I)	85571 (SK-140-B)	SK 90° flat ELL 140	7 1/2"	3 3/8"	7 1/2"
	85012 (SKF-77-W)	85032 (SKF-77-I)	85372 (SKF-77-B)	SKF 45° flat ELL 77	4 1/2"	3 1/4"	2 5/8"
	86112 (SKF-100-W)	86132 (SKF-100-I)	85472 (SKF-100-B)	SKF 45° flat ELL 100	5 1/4"	4 1/4"	3"
	85212 (SKF-140-W)	85232 (SKF-140-I)	85572 (SKF-140-B)	SKF 45° flat ELL 140	6 1/4"	5 3/4"	3 3/8"
	86002 (SC-77-W)	86022 (SC-77-I)	85362 (SC-77-B)	SC 90° vertical ELL 77	4"	3 1/4"	4"
	86102 (SC-100-W)	86122 (SC-100-I)	85462 (SC-100-B)	SC 90° vertical ELL 100	4 5/8"	4 1/4"	4 5/8"
	85202 (SC-140-W)	85222 (SC-140-I)	85562 (SC-140-B)	SC 90° vertical ELL 140	5"	5 3/4"	5"
	85000 (SCF-77-W)	85020 (SCF-77-I)	85360 (SCF-77-B)	SCF 45° vertical ELL 77	4 1/8"	3 1/4"	2 5/8"
	86100 (SCF-100-W)	86120 (SCF-100-I)	85460 (SCF-100-B)	SCF 45° vertical ELL 100	4 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 3/4"	3 3/8"
	86015 (ST-77-W)	86035 (ST-77-I)	85375 (ST-77-B)	ST TEE 77	6 1/2"	4 1/8"	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 3/4"	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"
	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)	86468 (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 3/4"	3 3/8"
	-	85188 (SF-77-1000-I)	-	SF flex ELL 39" L - ivory 77-100	2 3/4"	3"	2 1/2"
	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"
	86105 (SWC-100-W)	-	-	SD 3.75" Slim wall flange 100	5 5/8"	1 5/8"	6 1/8"
	85205 (SWC-140-W)	-	-	SD 5.5" Slim wall flange 140	7 1/8"	1 5/8"	8 2/3"
	86005 (SWC-77-W)	86025 (SWC-77-I)	-	SD 2.75" Slim wall flange 77	4 1/2"	1 5/8"	5"
	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"
	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"
	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	-	-	-

NEW!

Wall Duct Kit

Boxed kit includes 13' of duct and all essential fittings to hide and protect the lineset for a typical A/C installation. Kit available in 2 sizes • SDK77 • SDK100 White only.



LDK Kit includes:

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

Order:

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

SLIMDUCT is a registered trademark of Inaba Denki Sangyo Co.

* (stainless steel)



INABA DENKO PVC DUCT SYSTEMS

Light commercial VRF and industrial linesets.

INABA DENKO

PD Series

Functional & Professional Appearance

- **Light & Tough:** UV & weather resistant heavy duty PVC construction resists deformation.
- The PD series is designed to protect linesets from the elements, vandalism and mechanical damage while enhancing the external appearance of the entire system.
- Currently available in 2 sizes, 3.5" diameter and 4.7" diameter, this series is designed primarily for use in smaller VRF systems.
- It is particularly effective for cladding any configuration of final connections into a condenser.
- In addition, this series can be used for industrial linesets for both refrigeration and conventional Air Conditioning applications.
- The PD Series can be fitted during the installation process or can easily be retrofitted after the linesets have been installed.
- **Easy Installation:** All duct and fittings disassemble for ease of installation and mount with commercially available standard wall mounted pipe brackets.



Specifications & Technical Information

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

*1 System is designed for use with pipe clamps sized for steel pipe. Pipe clamps sized for PVC pipe can also be used provided their OD is 3.5" or less.
*2 Lineset capacity mentioned is based on Insulation thickness up to 0.75". For thicker insulation reduce Lineset capacity accordingly.

Maximum Lineset Combinations

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

Ordering Information

RS# (ref. #)	Description (Ivory)
86403 (PD90-1000-I)	PD 90 duct 3.5" x 38"
86413 (PD90-1500-I)	PD 90 duct 3.5" x 58"
86404 (PD120-1000-I)	PD 120 duct 4.7" x 38"
86414 (PD120-1500-I)	PD 120 duct 4.7" x 58"
86401 (PDE-90-I)	PD 90 - 90° ELL
86411 (PDE-120-I)	PD 120 - 90° ELL
86400 (PDJ-90-I)	PD 90 plain coupler
86402 (PDF-90-I)	PD 90 - 45° ELL
86412 (PDF-120-I)	PD 120 - 45° ELL
86410 (PDJ-120-I)	PD 120 plain coupler
86405 (PDT-90-I)	PD 90 TEE
86415 (PDT-120-I)	PD 120 TEE

RS# (ref. #)	Description (Ivory)
86406 (PDC-90-I)	PD 90 end fitting
86416 (PDC-120-I)	PD 120 end fitting
86407 (PWP-90-I)	PD 90 wall flange
86417 (PWP-120-I)	PD 120 wall flange
86409 (PDB-90-I)	PD 90 mounting coupler
86419 (PDB-120-I)	PD 120 mounting coupler
86429 (PDL)	PD metal mounting clip
86420 (PDPC-90)	PD 90 pipe clamp 3.5"
86421 (PDPC-120)	PD 120 pipe clamp 4.7"
86425 (PDTM60)	PD TEE type mounting bracket, 2.5" long
86426 (PDTM80)	PD TEE type mounting bracket, 3" long
86427 (PDTM100)	PD TEE type mounting bracket, 4" long

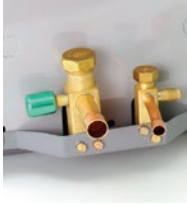
Inaba Denko is a registered trademark of Inaba Denki Sangyo Co.

Locking Refrigerant Caps

Novent® •

GasGuard™ •





NOVENT® LOCKING REFRIGERANT CAPS

Dual protection. Simple key style installation.



It's in the Code. Effective 2009, the International Mechanical Code and International Residential Code now require that all outdoor access ports on A/C Refrigerant circuits be made tamper resistant.

International Mechanical Code 1101.10 - Locking access port caps. "Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps."

International Residential Code M1411.6 - Locking access port caps. "Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps."

Novent® Starter Pack Caps & keys

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

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**
- 1/4" Thread **Pink**
- 1/4" Thread **Green**

Patent No. 6,612,455



Novent® Keys Special removal tool

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

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 Novent refrigerants

Patent No. 6,612,455



Novent® Silver

Any gas, 1/4" thread, key

Code	Description	Qty.
86692 (NP-UNI)	2 cap blister	20
86691 (NP-UNI)	10 cap blister	10
86693 (NP-UNI)	50 cap box	1
86694 (NP-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 & Euro 5/16" 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
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

- Same as Universal Caps above

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

5/16" 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

- Same as Universal Caps above

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

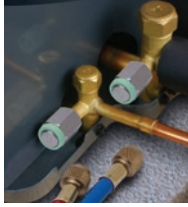
Recommended for

- R22

1/4" Thread **Green**

Patent No. 6,612,455





GASGUARD™ KEYLESS LOCKING REFRIGERANT CAPS

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

GasGuard™ Universal

Code	Description	Qty.
86640	1/4" Universal Socket Tool / 2 Free Caps	10
86642	1/4" 2 pack	10
86641	1/4" Uni 10 cap blister	10
86643	1/4" Uni 50 cap pack	1
86646	1/4" Uni 100 cap pack	1
86650	5/16" Universal Socket Tool / 2 Free Caps	10
86621	5/16" Uni 10 cap blister	10
86622	5/16" 2 pack	10

FEATURES

- Resists crushing & removal without socket tool
- Corrosion resistant stainless steel
- Locking cap has no keyhole to clog
- Integral neoprene O-ring resists oils & sealants

Silver, 1/4" thread & 5/16" thread, socket

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 refrigerants

Recommended for

- Any gas

1/4" Thread

5/16" Thread

Silver

Patent Pending



GasGuard™ R410

Code	Description	Qty.
86630	1/4" R410 Socket Tool / 2 Free Caps	10
86632	1/4" 2 pack	10
86631	1/4" R410 10 cap blister	10
86633	1/4" R410 50 cap pack	1
86636	1/4" R410 100 cap pack	1

FEATURES

- Same as Universal Caps above

Pink, 1/4" thread, socket

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 refrigerants

Recommended for

- R410

1/4" Thread

Pink

Patent Pending



GasGuard™ R22

Code	Description	Qty.
86610	1/4" R22 Socket Tool / 2 Free Caps	10
86612	1/4" 2 pack	10
86611	1/4" R22 10 cap blister	10
86613	1/4" R22 50 cap pack	1
86616	1/4" R22 100 cap pack	1

FEATURES

- Same as Universal Caps above

Green, 1/4" thread, socket

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 refrigerants

Recommended for

- R22

1/4" Thread

Green

Patent Pending





GASGUARD™ INSTALLATION & REMOVAL TOOLS

GasGuard™

Socket Tool

Code	Description	Qty.
86608	1/4"	10
86609	5/16"	10

FEATURES

- Installation and removal of GasGuard™ Caps
- No keyhole to clog

Application • Available to fit both 1/4" and 5/16" schrader valve threads • Simply place cap in socket to install, reverse to remove



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Combo Tool

For Novent® & GasGuard™ 4 in 1 Refrigerent Gas Cap Key

Code	Description	Qty.
86606	Gas Cap Key	10

FEATURES

- 4 in 1 key
- One key for both Novent® and GasGuard™

Application • Use for both Novent and GasGuard 1/4" and 5/16" refrigerant caps



Mounting & Installation

Big Foot® Mounting •

Fast Fix Stands •

Frame Supports •

Universal Brackets •

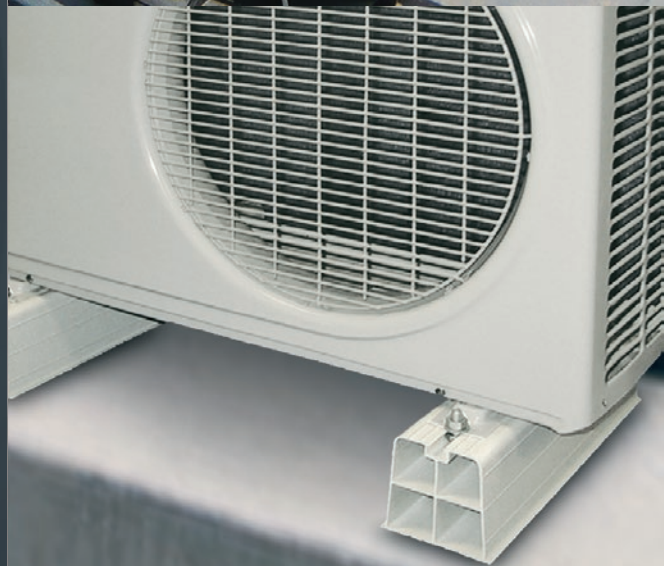
Risers •

NoKink •

Mighty Bracket •

Paircoil •

Aspen Xtra •





BIG FOOT SYSTEMS® EQUIPMENT MOUNTING

Heavy duty framework systems for flat roof equipment mounting

The Advantage of Big Foot Systems.



The industry standard

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

The system is modular and completely flexible. 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. Our free-standing design makes roofing repairs simpler and resurfacing less costly.

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. A stepped roof option is available.

Reduced risk of roof leaks

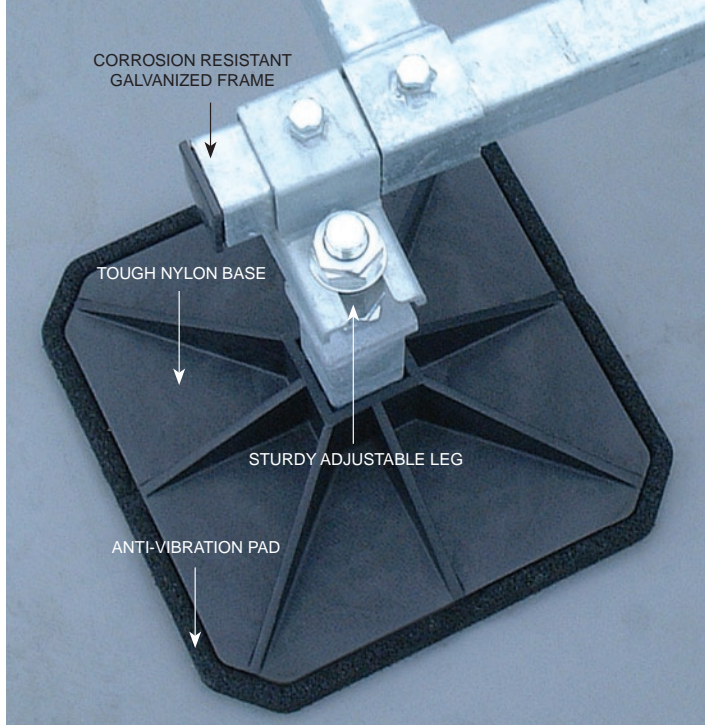
The Big Foot System does not penetrate the waterproof membrane, eliminating difficult flashing around concrete structures. The roofing system warranty is never compromised.

Architecturally friendly

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

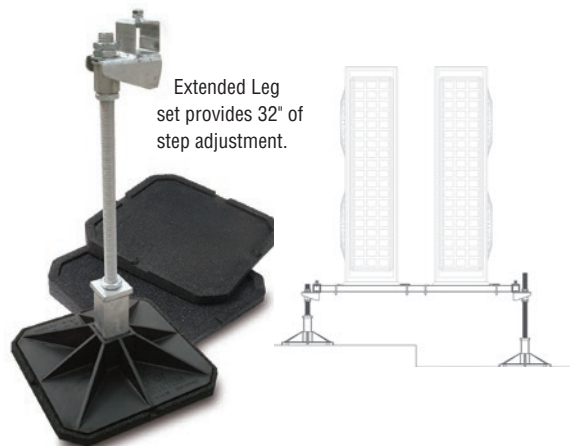
Custom Frameworks

For larger, more complex projects, Big Foot offers custom frame design service. Contact RectorSeal 1-800-231-3345



EXTENDED LEG SET OPTION

Code	Description	Qty.
87816	Ext. leg set -12" foot (2)	1
87817	Ext. leg set -18" foot (2)	1



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



BIG FOOT SYSTEMS® VRF CONDENSER FRAMEWORKS

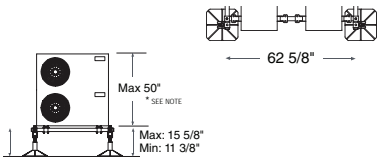
Prefabricated flat roof support for larger multiple VRF condenser application.
Non-penetrative. 59" wide.

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"	1056 lbs	108 lbs	1
87621	(VRF1500)	4 pad framework	49" x 30"	59" x 59"	1056 lbs	117 lbs	1
87722	(VRF2000)	6 pad framework	69" x 30"	78" x 59"	1584 lbs	155 lbs	1
87723	(VRF2500)	6 pad framework	73" x 30"	98" x 59"	1584 lbs	161 lbs	1
87724	(VRF3000)	8 pad framework	104" x 30"	118" x 59"	2112 lbs	194 lbs	1
87622	(VRF3500)	8 pad framework	100" x 30"	118" x 59"	2112 lbs	194 lbs	1
87725	(VRF4000)	8 pad framework	117" x 30"	137" x 59"	2112 lbs	216 lbs	1
87623	(VRF4500)	8 pad framework	120" x 30"	137" x 59"	2112 lbs	216 lbs	1
87624	(VRF5000)	10 pad framework	117" x 30"	157" x 59"	2640 lbs	279 lbs	1
87625	(VRF5500)	10 pad framework	145" x 30"	157" x 59"	2640 lbs	157 lbs	1
87726	(VRF6000)	10 pad framework	142" x 30"	157" x 59"	2640 lbs	279 lbs	1
87627	(VRF6500)	10 pad framework	165" x 30"	177" x 59"	2640 lbs	293 lbs	1
87628	(VRF7000)	12 pad framework	174" x 30"	196" x 59"	3168 lbs	334 lbs	1
87629	(VRF7500)	12 pad framework	207" x 30"	216" x 59"	3168 lbs	372 lbs	1



BIG FOOT SYSTEMS® HD CUBE & HD BEAM

Heavy duty non penetrative support for chillers, AHUs, packaged plant, generators, pipes and steel.

Heavy Duty Cube

Specialty Frames for VRF Condensers

Code	Model	Description	Support wt. lbs	L	W	H	Ft Size	Frame wt. lbs	Qty.
87650*	(RHC-200-450)	HD Cube 200 kit 18"	2646	44.5"	44.5"	13"	18"	137	1
87651*	(RHC-200-600)	HD Cube 200 kit 24"	4409	51"	51"	13"	24"	159	1
87652*	(RHC-600-450)	HD Cube 600 kit 18"	2646	44.5"	44.5"	23"	18"	165	1
87653*	(RHC-600-600)	HD Cube 600 kit 24"	4409	51"	51"	23"	24"	181	1
87654*	(RHC-800-450)	HD Cube 800 kit 18"	2646	44.5"	44.5"	35"	18"	177	1
87655*	(RHC-800-600)	HD Cube 800 kit 24"	4409	51"	51"	35"	24"	192	1
87657*	(RHC-Adjuster)	Cube adjuster	4409	9.75"	6"	-	-	6.6	1



Heavy Duty Beam

Specialty Frames for VRF Condensers

Code	Model	Description	Support wt. lbs	L	W	H	Ft Size	Frame wt. lbs	Qty.
87721*	(RHB-450)	HD Beam Kit 18"	1323	49"	19"	12"	18"	66	1
87651*	(RHB-600)	HD Beam kit 24"	2205	55"	25"	12"	24"	71	1
87652*	(RHAB-450)	HD Adjustable Beam kit 18"	1102	52"	19"	12-14"	18"	77	1
87653*	(RHHB-600)	HD Adjustable Beam kit 24"	1764	59"	25"	12-14"	24"	82	1



*Special order. Allow 6-8 weeks lead time for delivery.



BIG FOOT® FAST FIX STAND RANGE

Simple, strong and sturdy ground mount support system.

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

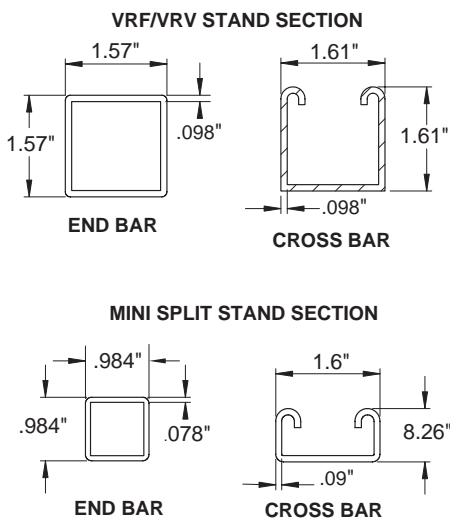
Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Mini-split & VRF/VRV condenser stands



The Fast Fix Stand Range is a versatile ground mount support system split into two ranges, catering for 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

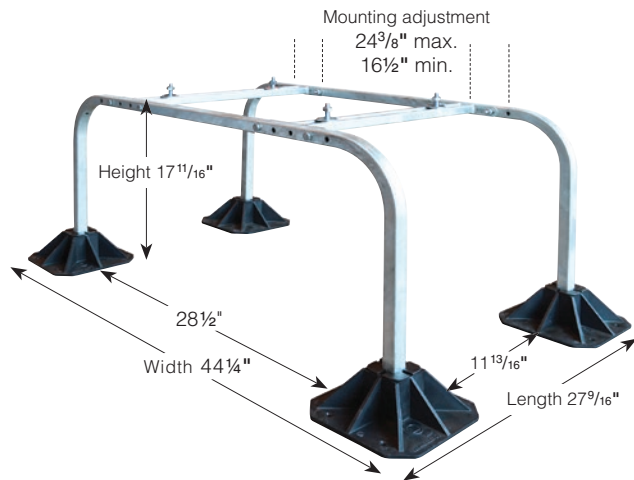
STAND RISER

STAND EXTENDER



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 units

Code	Description	Load lbs.	Wt. lbs.	Qty.
87634	B5556 VRF 990 stand kit	1323	77	1
87636	B5557 VRF 1290 stand kit	1102	84	1
87638	B5558 VRF 1450 stand kit	882	90	1

Code	Description	Load lbs.	Wt. lbs.	Qty.
87635	B5559 VRF 990E Extender	1323	55	1
87637	B5560 VRF 1290E Extender	1102	62	1
87639	B5561 VRF 1450E Extender	882	68	1

VRF/VRV STAND EXTENDER



990/1290/1450 SYSTEM COMPONENTS

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



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 1 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

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"



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

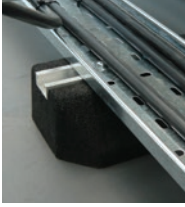
Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



POLYMER & RUBBER RISERS

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Polymer Risers

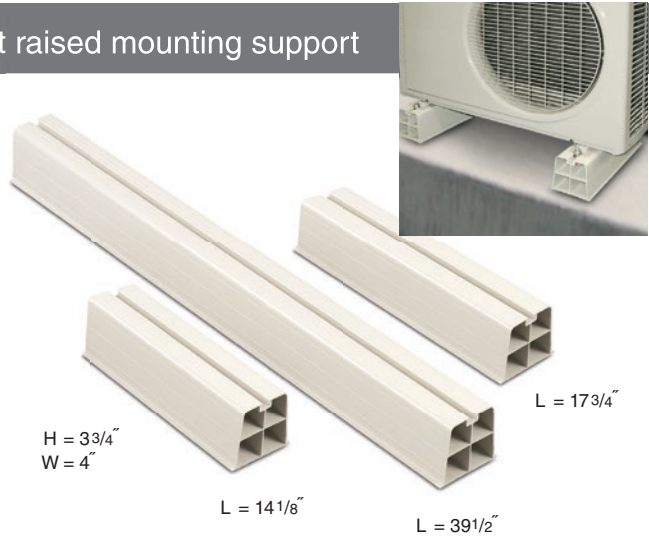
Simple lightweight raised mounting support

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: RRMB10 - 356 lbs. RMB16 - 572 lbs.
RMB24 - 1045 lbs. RMB40- 1420 lbs.



Fix-It-Foot Low

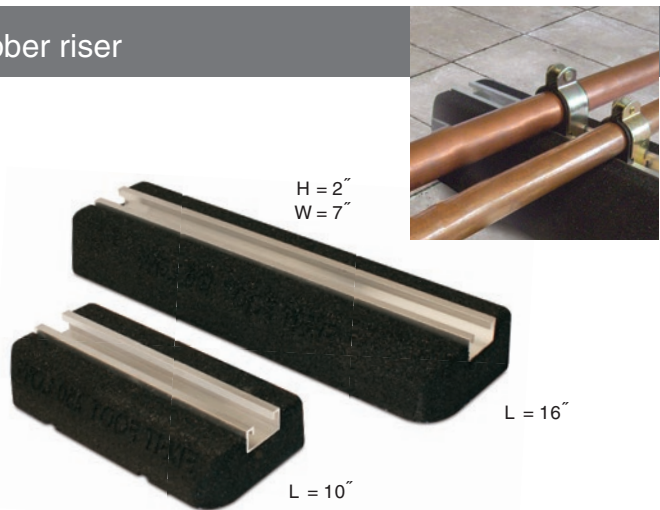
Low profile rubber riser

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- 356 lbs. RMB16L- 572 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.



Shown in Stainless



Wall Bracket

Extra integral cross bracing provides ultimate stability

Code	Description	Qty.
87732 (PCK30)	Wall Bracket	1

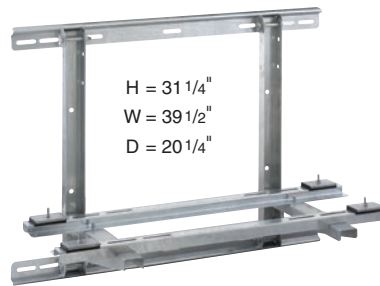
FEATURES

- 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

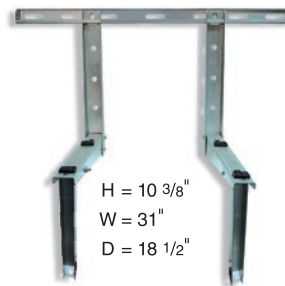
- Ultimate stability • Galvanized finish

Min/Max mounting width: 9³/₄" - 31"

Min/Max mounting depth: 10¹/₂" - 16"

Max load capacity: 500 lbs.

STATE OF FLORIDA APPROVED



Under Window 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.



Condensate Management

Compressor Maintenance

Air Diffusers

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Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

UNIVERSAL BRACKETS

Continued

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"

Condensate Management

Compressor Maintenance

Air Diffusers

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Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



DUCTLESS A/C INSTALLATION ACCESSORIES

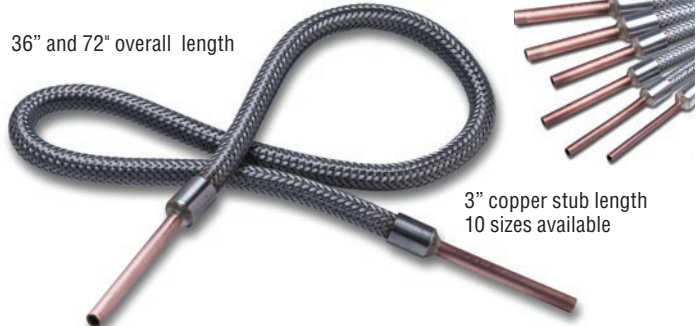
RectorSeal® NoKink™

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 listed for R410A

36" and 72" overall length



3" copper stub length
10 sizes available



FEATURES

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

RectorSeal® Paircoil

Pre-insulated and paired linesets

Code	Description	Qty.
87780	1/4" liquid line w/ 1/4" insulation & 3/8" suction line w/ 1/4" insulation	1
87785	1/4" liquid line w/ 1/4" insulation & 1/2" suction line w/ 3/8" insulation	1

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



FEATURES

- 65' rolls can be freely cut
- Tough, coated insulation will not tear

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

Patent Pending

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



ASPEN® EXTRA A/C INSTALLATION ACCESSORIES

Aspen® Xtra

FEATURES

Keep a ready stock of accessories on hand to 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.
Mini Pump Rubber Adapter/Connector			
83970	FP2001	5/8" mini pump to 3/4" ducted drain (16mm-20mm)	Qty 2
83971	FP2002	5/8" mini pump to 1" ducted drain (16mm-25mm)	Qty 2
83972	FP2003	5/8" mini pump to 1-1/4" ducted drain (16mm-32mm)	Qty 2
Mini Pump 90° Long Arm Bend Connector			
83973	FP2006	1/2" to 5/8" (12mm-16mm) long arm	Qty 2
Pipe to Pipe Rubber Connector/Adapter			
83977	FP2042	3/4" PVC to 5/8" (20mm-16mm)	Qty 2
83978	FP2044	3/4" PVC to 1" (20mm-25mm)	Qty 2
83979	FP2046	3/4" PVC to 1-1/4" (20mm-32mm)	Qty 2
Hose to Hose Connectors			
83984	FP2024	1/4" "T" connectors (6mm)	Qty 3
83985	FP2028	1/4" elbow connectors (6mm)	Qty 4
83986	FP2622	1/4" straight connectors (6mm)	Qty 3
83987	FP2030	3/8" "T" connectors (10mm)	Qty 3
83988	FP2032	3/8" elbow connectors (10mm)	Qty 3
83989	FP2624	3/8" straight connectors (10mm)	Qty 3
Tube Adapter/Fitting			
83990	FP2038	3/8" or 1/4" (10mm/6mm) self sealing soil pipe connector	Qty 2
Check Valves			
83982	FP2628	1/4" Non Return Valves (6mm)	Qty 2
83983	FP2630	3/8" Non Return Valves (10mm)	Qty 2

ASPEN **Xtra**



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

ASPEN *Xtra* ACCESSORIES

All accessories are multi-packed in transparent POP ready poly bags.



Code	Model	Description	Units/Bag	Bags/Carton
  <p>Rubber adapter - Connects a ducted unit to a Mini Pump Reservoir.</p>				
83970	FP2001	5/8" mini pump to 3/4" ducted drain (16mm-20mm)	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
  <p>90° Long Arm Bend - Connects a Wall Mount to Mini Pump Reservoir.</p>				
83973	FP2006	1/2" to 5/8" (12mm-16mm) long arm	Qty 3	Qty 10
  <p>Rubber Adapter - Connects a Cassette Unit Condensate Drain Pipe to a Tank Pump.</p>				
83974	FP2011	5/8" cassette unit outlet to 3/4" hose (16mm-20mm)	Qty 3	Qty 10
83975	FP2012	1" cassette unit outlet to 3/4" hose (25mm-20mm)	Qty 3	Qty 10
83976	FP2013	1-1/4" cassette unit outlet to 3/4" hose (32mm-20mm)	Qty 3	Qty 10
  <p>Pipe to Pipe Rubber Connector/Adapter - Connect 3/4" PVC Overflow Pipe to Waste Pipe.</p>				
83977	FP2042	3/4" PVC to 5/8" (20mm-16mm)	Qty 3	Qty 10
83978	FP2044	3/4" PVC to 1" (20mm-25mm)	Qty 3	Qty 10
83979	FP2046	3/4" PVC to 1-1/4" (20mm-32mm)	Qty 3	Qty 10
  <p>Tube Connector Fitting and Straight Reducer - In-line junction for mismatched tubing.</p>				
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
  <p>Hose to Hose Connector - In-line junction for matched size tubing.</p>				
83984	FP2024	1/4" "T" connectors (6mm)	Qty 5	Qty 10
83985	FP2028	1/4" elbow connectors (6mm)	Qty 5	Qty 10
83986	FP2622	1/4" straight connectors (6mm)	Qty 5	Qty 10
83987	FP2030	3/8" "T" connectors (10mm)	Qty 5	Qty 10
83988	FP2032	3/8" elbow connectors (10mm)	Qty 5	Qty 10
83989	FP2624	3/8" straight connectors (10mm)	Qty 5	Qty 10
  <p>Mini Pump Pre-Filter - Protects mini pump from condensate debris.</p>				
83893	FP2040	5/8" Pre-filter for Aspen Mini Pumps	Qty 3	Qty 10

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

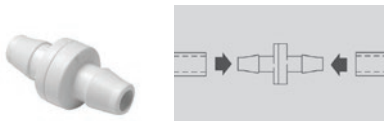
Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

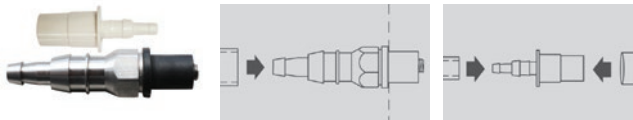
Other Related Products

Code	Model	Description	Units/Bag	Bags/Carton
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Check Valve Connector/Fitting -
Prevents back-flow of condensate.

83982	FP2628	1/4" Non Return Valves (6mm)	Qty 5	Qty 10
83983	FP2630	3/8" Non Return Valves (10mm)	Qty 5	Qty 10



Tube Adapter -
Connects discharge condensate to waste/soil

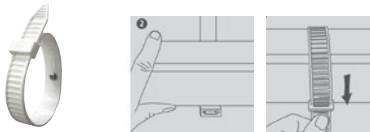
83991	FP2040	3/4" to 3/8" or 1/4" (20mm-10mm or 6mm)	Qty 3	Qty 10
83990	FP2038	3/8" or 1/4" self sealing soil pipe connector (10mm/6mm)	Qty 3	Qty 10

ASPEN Xtra PIPE SUPPORTS

All pipe supports are multi-packed in transparent POP ready poly bags.

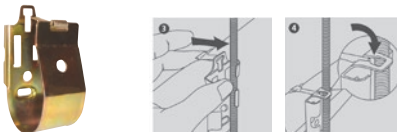


Code	Model	Description	Units/Bag	Bags/Carton
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Pipe Ties -
Wide & Rugged. Perfect for multiple insulated linesets.

83998	B6414	T400 white 15-3/4" long by 3/4" wide	Qty 10	Qty 10
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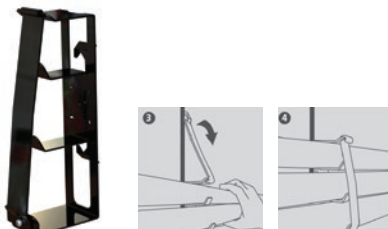
Metal Pipe Hanger -
Designed for supporting lineset pairs.

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

Speciality Chemicals

- Thread Sealants •
- Solvent Cements •
- Soldering Fluxes •
- Metacaulk® Firestop •
- Misc. Sealants •





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	1-¾ oz.	24
25631	¼ pt.	24
25551	½ 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



LISTED
PIPE JOINT
COMPOUND
MH12259

- 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	¼ pt.	24
27651	½ pt.	24
27541	1 pt.	12
27460	1 qt.	12
27371	1 gal.	4
27111	5 gal.	1
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

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

RECTORSEAL® THREAD SEALANTS

Continued

RectorSeal® T plus 2®

PTFE enriched pipe thread sealant

Code	Description	Qty.
23710	1-¾ oz.	24
23631	¼ pt.	24
23551	½ pt.	24
23431	1 pt.	12
23391	1 qt.	12
23271	1 gal.	4
23191	5 gal.	1
23112	55 gal.	1

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 55 gal. container



FEATURES

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



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

RectorSeal® Tru-Blu™

Vibration resistant pipe thread sealant

Code	Description	Qty.
31780	1-¾ oz.	24
31631	¼ pt.	24
31551	½ pt.	24
31431	1 pt.	12
31300	1 qt.	12

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



FEATURES

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



RectorSeal® No. 7

Corrosive chemical pipe thread sealant

Code	Description	Qty.
17432	1 pt.	4

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



FEATURES

- Soft Set
- Lead free

*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.
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RECTORSEAL® SOLVENT CEMENTS

Jim™ PR-1L

○ Purple - Low-VOC 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



pw-G-dwv



FILE NO. 4585

FEATURES

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

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



pw-G-dwv-sw



FILE NO. 1796

FEATURES

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

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

Recommended for

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



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

RECTORSEAL® SOLVENT CEMENTS

Continued

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

- Fast drying
- Excellent in cold weather
- LEED compliant
- 2 year shelf life
- Meets ASTM D2564 specs

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 specifications 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
• Flexible PVC hose



Also available in gal. can

Arctic™ 616L

○ Clear - medium body PVC solvent cement

Code	Description	Qty.
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 specs

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



Condensate Management

Compressor Maintenance

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Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



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



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

- Reuseable
- 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.

Recommended for

- Copper



Condensate Management

Compressor Maintenance

Air Diffusers

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Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



METACAULK® FIRESTOPPING SOLUTIONS

A full line of sealants to meet all your firestopping applications

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 with some 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 • 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
- Meets ASTM E 814, UL 1479 & UL 2079 standards



See ordering chart for container sizes available

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.

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Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Lineset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Metacaulk® MC 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



FEATURES

- Water-based - VOC compliant
- STC rating 51
- Freeze-thaw
- Use for most common applications

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
- Suitable for dynamic movement

Recommended for

- Metal
- Insulated pipes
- Fiberglass and plastic pipes
- Wall construction joints
- Power and telephone cables



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

- Sound rated
- Excellent freeze-thaw
- STC rating 53

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
- Insulated
- 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. sausage pack caulk grade	12
66301	20.2 oz. sausage pack self leveling	12



FEATURES

- Exterior / Interior use
- Water resistant
- STC rating 55

Application • Used in areas under constant vibration or movement

- Resistant to chemical exposure

Recommended for • PVC pipe on closed (pressure) systems

- EMT
- Insulated and uninsulated steel pipe
- Construction and control joints
- Interior expansion joints

Also available in Sausage pack and 5 gal. pail





RECTORSEAL® MISC. SEALANTS

RectorSeal® RS 136

Fireblock / smoke seal caulk

Code	Description	Qty.
66408	10.3 oz. cartridge	12



FEATURES

- Easy application
- Interior applications only
- Water clean-up

Application • General purpose, residential acoustical fireblock

Recommended for

- Electrical • Plumbing • Plastic pipe
- Telephone communication systems penetrations



RectorSeal® Silicone Sealant

General purpose

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

FEATURES

- Remains flexible
- Vibration resistant
- Indoors/outdoor

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™

100% RTV silicone caulk

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-46106B Amend 3, Type 1
- Canadian 19-GP-9MA, Type 1

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



Condensate Management

Compressor Maintenance

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Air Conditioning Chemicals

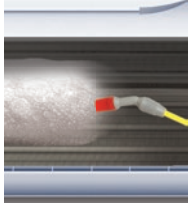
Heating Chemicals

Other Related Products

Air Conditioning Chemicals

- Coil Cleaners •
- Leak Locators •
- Cleaners & Treatments •
- Cooling Tower Treatments •
- Evaporative Cooler Treatments •





COIL CLEANERS

K.O. Dirt Blaster™

Dirt and grease stripper

Code	Description	Qty.
88438	20 oz. aerosol	12

FEATURES

- Dissolves grease quickly
- Quick drying
- Pressure washes small condenser coils without a water rinse
- Non-flammable
- No CFC's



Application

- Quickly dissolves grease
- Non-conductive so will not short out electrical equipment
- Effective on restaurant grease and other greasy surfaces

Recommended for

- Refrigeration coils
- Oil burner surfaces
- Machine parts
- Switches
- Relays
- Circuit breakers
- Motors
- Electrical components

Clean-N-Safe™

Condenser & evaporator coil cleaner

Code	Description	Qty.
83780	20 oz. aerosol	12

FEATURES

- Deep cleaning foam
- Non-acid
- Reduces energy cost
- Environmentally friendly
- Biodegradable



Application

- Effectively cleans and removes soils
- Foam powers off dirt and build-up without chemically attacking (corrode) coils, surrounding metal, other HVAC equipment components or adjacent roofing materials

Recommended for

- Air conditioning
- Refrigeration
- Heat pump coils

Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Liner Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products

Con-Coil™

Foaming acid coil cleaner

Code	Description	Qty.
82622	1 gal.	4
82624	5 gal.	1
82628	55 gal.	1

FEATURES

- Removes contaminants
- Brightens as new

Application • Adhering foam lifts insulating contaminants & dulling oxide film in less than 5 minutes

Recommended for

- Finned air-cooled condenser coils
- Electronic air filters • Aluminum • Copper



Renewz™

Foaming non-acid coil cleaner

Code	Description	Qty.
82644	1 gal.	4
82646	5 gal.	1
82650	55 gal.	1
82652	14 oz. aerosol	12

FEATURES

- High foaming
- Brightener

Application • Leaves aluminum bright, shiny and clean in less than 5 minutes

- Loosens material in hard-to-reach places

Recommended for

- Air-cooled condenser coils • Aluminum
- Cooking grease • Electronic air filters



Coil-Rite™

Evaporator coil cleaner

Code	Description	Qty.
82612	1 gal.	4
82614	5 gal.	1
82618	55 gal.	1

FEATURES

- Non-acid
- Non-flammable

Application • Self-rinsing cleaner and degreaser • Lifts grime and oil from normally inaccessible places

Recommended for

- Evaporator and condenser coils • Air conditioning and air handling equipment
- Electronic & permanent air filters



Foam-A-Coil™

Foaming condenser & evaporator coil cleaner

Code	Description	Qty.
82632	1 gal.	4
82634	5 gal.	1
82638	55 gal.	1
82640	12 oz. aerosol	12

FEATURES

- Non-acid
- Non-flammable

Application • Foaming biodegradable cleaner and degreaser • Lifts grime and oil from normally inaccessible places

Recommended for

- Evaporator and condenser coils • Air conditioning and air handling equipment
- Electronic & permanent air filters



COIL CLEANERS

Continued

Desolv™ Mini-split Evaporator Coil and Blower Fan Cleaner.

Code	Description	Qty.
82565	Desolv Solution (1 gallon)	6

Features

- Safe to Use
- Concentrated
- Will Not Corrode Parts
- Completely Biodegradable

Application • Powers off dirt and build up from air conditioning, refrigeration and heat pump coils safely and effectively. • Reduces energy cost by increasing the efficiency of the A/C system.



Desolv™ Cleaning Kit Mini-split Evaporator Coil Cleaning Kit

Code	Description	Qty.
82560	Desolv Kit with 2 Single Use Funnel Bags	1
82562	Desolv Single Use Funnel Bags	10

Kit Contents

- Desolv Cleaning Solution (1 gal.)
- C-Band Frame Assembly
- Single Use Funnel Bags (2)
- Drain Pail (5 gal)
- Installation Instructions

Application • Use to deep clean the indoor evaporator of mini-split A/C units that are located in areas where wall and floor protection are necessary. Kit is reusable.

Desolv Solution and Funnel Bags are also sold separately.

The replacement funnel bags are for single use only.



Product Licenced Under
U.S. Patent #6863116

CLEANERS & TREATMENTS

Ice Machine Cleaner Food Grade & Nickel-Safe

Code	Description	Qty.
88312	16 oz.	12
88314	1 gal.	4

Application • Removes scale, muck and slime which can cause bad taste and foul odors • Food-grade acid cleaner opens constricted water lines

Recommended for

- Metal & plastic surfaces

FEATURES

- Assures clean, fresh-tasting ice
- Safe for nickel-plated surfaces
- Meets Manitowoc Spec GES-6



Liquid Descalit™ Scale remover

Code	Description	Qty.
80902	1 gal.	4
80904	5 gal.	1

Application • An economical scale and lime dissolver with patented corrosion inhibitors

Recommended for

- Heavily-scaled equipment
- Cooling towers • Condensers
- Water heaters

FEATURES

- Anti-foaming
- Color changing strength indicator





LEAK LOCATORS

Detect gas leaks in pipes or tank systems.

Better Bubble™

Gas leak locator

Code	Description	Qty.
65554	8 oz. - dauber top	12
65432	32 oz. - trigger spray	12
65273	1 gal.	4



FEATURES

- Fast acting
- Long lasting
- Easy to see bubbles
- Continuous bubbling

Application • Thick formula pinpoints the smallest natural gas, LPG and A/C refrigerant leaks with well defined elastic bubbles that stand up under pressure and windy conditions • Use on surface temperatures from 20°F to 250°F

Recommended for • All types of pipe, tubing, valves, tanks, pressure vessels, condenser / evaporator coils, refrigeration coils, and many other similar applications



*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.

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RectorSeek™ Low-Temp

Low temperature leak locator

Code	Description	Qty.
61554	8 oz. dauber top	12
61434	16 oz. trigger spray	12
61273	1 gal.	4
61111	55 gal.	1

FEATURES

- Longer bubbling action
- Dauber or spray application
- Easy to apply

Application • Leak locator for use on pipes or tanks containing gases at low temperatures • Effective from -35°F to 200°F

Recommended for • Pipes*, tubing, valves, cylinders, tanks, pressure vessels, condenser / evaporator coils, refrigeration coils and many other similar applications

*Call Technical Services for compatibility with plastic pipes.



RectorSeek™ Mid-Temp

Normal temperature leak locator

Code	Description	Qty.
60554	8 oz. dauber top	12
60434	16 oz. trigger spray	12
60273	1 gal.	4
60111	55 gal.	1

FEATURES

- Longer bubbling action
- Dauber or spray application
- Easy to apply

Application • Leak locator for use at normal temperature on pipe or tanks that contain gases • Can be used on oxygen, air or gas at temperatures between 40°F to 200°F

Recommended for

• All types of pipe, tubing, valves, cylinders, tanks, pressure vessels, condenser / evaporator coils, refrigeration coils and many other similar applications



Condensate Management

Compressor Maintenance

Air Diffusers

Linesets & Inset Covers

Locking Refrigerant Caps

Mounting & Installation

Specialty Chemicals

Air Conditioning Chemicals

Heating Chemicals

Other Related Products



COOLING TOWER & EVAPORATIVE COOLER TREATMENTS

CTT™ -Tablets

Feeder tablets

Code	Description	Qty.
68036	300 tablet pail	1

FEATURES

- 100% active, non-acidic
- Controls foaming
- For systems up to 400 tons

Application • Prevents hard water mineral scale formation and both ferrous and non-ferrous corrosion • Suspends mud, dirt and silt which can clog condenser tubes and spray nozzles

Recommended for

- Works in many popular feeders



Refresh™ Tablets

Evaporative Cooler Treatments

Code	Description	Qty.
68114	4 tablet tube	12
68112	275 tablet pail	1

FEATURES

- Self-metering
- Reduces break-downs
- EPA Reg. no. 51219-7

Application • Eliminates growths and odors in evaporative coolers, humidifiers & air conditioners

- Improves efficiency and reduces costs

Recommended for

- Reservoirs • Drain pans



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Heating Chemicals

Soot Removers •

Fuel Oil Deodorizers & Absorbents •

Boiler Products •





HEATING CHEMICALS

Sootmaster™ Powder

Soot remover

Code	Description	Qty.
68322	1 lb.	12

FEATURES

Contains no lead • Removes soot from oil and gas-fired burners • supplying extra oxygen • Works both by catalysis and supplying extra oxygen • Applied by scattering or dusting surface with a sprayer



Odorgon™ Powder

Kills odors and absorbs oil

Code	Description	Qty.
68512	1 lb.	12
68514	2 lbs.	12

FEATURES

For oil spills & leaks • Leaves pleasant scent • Non-explosive / non-flammable • Handy for cleaning up after spills and oil leaks • Sifter top for controlled economical usage and clean storage



Sootspray™

The original aerosol soot remover

Code	Description	Qty.
68342	14 oz. aerosol	12

FEATURES

Contains no lead • Removes soot from oil and gas-fired burners • Cuts vacuum time by 50-100% • Catalytically active for safest possible soot removal • Reaches where vacuum cleaners can't



Odorgon™ Spray

Kills odors and absorbs oil

Code	Description	Qty.
68516	14 oz. aerosol	12

FEATURES

For oil spills & leaks • Non-lingering, mild scent • Non-flammable • Kills oil and other industrial odors • Covers vertical surfaces and corners



Sootomagic™

The original soot stick

Code	Description	Qty.
68332	¼ lb. stick	48

FEATURES

Contains no lead • Removes soot from oil and gas-fired burners • Non-corrosive / Non-explosive • Fits through all combustion chamber openings • Destroys soot quickly by catalytic low temperature ignition • Residual soot removal coating works even after stick is consumed



Neutroda™ Powder

Economical deodorizer/absorbent

Code	Description	Qty.
68502	1 lb.	12

FEATURES

For oil spills & leaks • An economical version of Odorgon™ Powder, with a different fragrance and absorption system



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8-Way™ Water treatment for steam/hot water systems

Code	Description	Qty.
68712	1 qt.	12
68714	1 gal.	4
68716	30 gal.	1

FEATURES

For boiler water • Will not damage seals and gaskets • Non-chromate; biodegradable • Removes sludge • Removes rust scale • No petroleum distillates • Inhibits boiler corrosion • Inhibits steam line corrosion • Prevents oxygen pitting • Inhibits lime scale • Prevents surging and foaming • Controls pH with a color indicator



Steammaster™ Tablets Economical treatment

Code	Description	Qty.
68732	36 tab bottle	12

FEATURES

For steam & water systems
 • Removes and prevents scale and corrosion • Will not damage seals and gaskets • No petroleum distillates • Built in color-cure indicator assures accurate treatment



Sealmaster™ Seals leaks in systems

Code	Description	Qty.
68722	1 qt.	12
68724	1 gal.	4

FEATURES

For Steam Boilers • Stops corrosion • Will not damage seals and gaskets • No petroleum distillates • Fills and seals holes, cracks and loose joints in steam boilers



Surgemaster™ Boiler water treatment

Code	Description	Qty.
68742	5.3 oz.	12

FEATURES

For steam boilers • Will not damage seals and gaskets • Inhibits corrosion • No petroleum distillates • Cures and prevents priming, surging & foaming • Sure-cure color indicator tints boiler water to take the guesswork out of treatment dosage



Pyroreal™ Furnace & retort cement

Code	Description	Qty.
68612	1-½ lb.	12
68614	3 lb.	12
68616	6 lb.	8
68618	12 lb.	4
68620	25 lb.	1

FEATURES

For combustion chambers, furnace doors, flue pipes • Shrink-proof, crack-proof • Contains no asbestos or OSHA restricted fibers • Smooth, creamy, easy-spreading furnace & retort cement that sticks where applied • For high temperature sealing & bonding



Surgex™ Inhibits scale and corrosion

Code	Description	Qty.
68752	1-½ oz.	20

FEATURES

For steam boilers • Economical • Cure for foaming, surging and priming steam boilers • Concentrated anti-foam formula, color-coded to insure proper treatment





CLEANER / DEGREASER

High-strength.

Zipp™

Quick drying degreaser

Code	Description	Qty.
82642	14 oz. aerosol	12

FEATURES

- Cleaner / degreaser
- Leaves no residue
- Non-flammable
- Non-conductive

Application • Quick drying, safety solvent degreaser that instantly removes grease, oil, waxes, tar, gums, grime, dirt, carbon, greasy stains, bilge slime and similar soils from most hard surfaces • Will not short out electrical equipment

Recommended for use • Oil burner parts
• Compressors • Refrigeration units
• Greasy fan blades • Strainers • Engines
• Stoves • Relay contact points
• Electrical equipment



Zipp™ II

Environmentally safer, quick drying degreaser

Code	Description	Qty.
82645	12 oz. aerosol	12

FEATURES

- Cleaner / degreaser
- Leaves no residue
- Non-flammable
- Non-conductive
- Non-chlorinated

Application • Quick drying, safety solvent degreaser that instantly removes grease, oil, waxes, tar, gums, grime, dirt, carbon, greasy stains, bilge slime and similar soils from most hard surfaces • Will not short out electrical equipment • Contains no carbon tet or restricted solvents

Recommended for use • Oil burner parts
• Compressors • Refrigeration units
• Greasy fan blades • Strainers • Engines
• Stoves • Relay contact points
• Electrical equipment



Grime-Solv™

Foaming, heavy duty cleaner and degreaser

Code	Description	Qty.
88436	14 oz. aerosol	12

FEATURES

- Safe for metals
- Wipes clean or rinses with water
- Non-flammable
- Non-corrosive

Application • Lifts encrusted grime, grease or carbon • Use to remove stains from concrete driveways and brick walls, to clean white wall tires and for cleaning surfaces before painting

Recommended for • Oil burning • A/C and refrigeration equipment • Marine and automotive engines • Machinery that can be rinsed with water or wiped with a rag



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MISCELLANEOUS

Draft-Block™

Expanding polyurethane foam

Code	Description	Qty.
96500	12 oz. aerosol	12

FEATURES

- Expands 3X
- Tack-free in approx. 45 min.
- No ureaformaldehyde

Application • Excellent filler which bonds and insulates
 • Fill voids, cracks, crevices and small cavities on flat or irregular surfaces
 • Reduces sound transmission
 • Totally dielectric



Lets-Go™

Penetrant, lubricant and freeze-up preventer

Code	Description	Qty.
73012	12 oz. aerosol	12

FEATURES

- Loosens frozen bolts, nuts & joints
- Protects from water & weather

Application • Covers metal surfaces with a clinging, tough, long-lasting film of lubricant
 • The wetting power acts quickly on rusted and seized parts
 • Displaces moisture from wiring and equipment



Cold Galvanizing Spray

Protection of hot-dip galvanizing

Code	Description	Qty.
86625	16 oz. aerosol	12

FEATURES

- Stops rust and corrosion
- Indoors or outdoors

Application • Contains 95% pure zinc and forms a tough, durable and flexible zinc metal coating that bonds electrochemically with the base metal to protect against rust and corrosion
 • To prevent and retard rust and corrosion on welded joints, fencing, storage tanks, pipe lines, metal buildings, marine and other similar applications



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MISCELLANEOUS

Continued

Buz-Awf™ Wasp and hornet spray

Code	Description	Qty.
84390	16 oz. aerosol	12

FEATURES

- High pressure spray
- Non-conductive up to 47KV

Application • Kills wasps, hornets, yellow jackets and bees • E.P.A. REG. NO. 3862-174-51219, E.P.A. EST. NO. 9143-TX-1 • Shoots 20 ft. stream



RectorSeal® EP-200 Epoxy putty

Code	Description	Qty.
97600	2 oz.	24
97601	2 oz. refill	24
97602	Blister card	12
97606	EP-400 4 oz.	12



FEATURES

- Hardens in minutes
- Bonds and fills a variety of materials

Application • Pre-measured, high-grade epoxy and hardener formulated together in one stick

- Break off the amount needed for each repair
- Bonds to most surfaces
- Can be drilled, taped, filed, machined, sanded and painted



RectorSeal® Duct Seal Gray putty compound

Code	Description	Qty.
81880	1 lb.	10
81881	5 lbs.	2



FEATURES

- Air / water tight seal
- Resistant to water, alcohols, mild acids & bases
- Non-corrosive / non-irritant

Application • Permanently soft, non-toxic, putty-type compound which adheres to most clean, dry surfaces

- Can be hand applied from 25°F to 120°F

Recommended for

- Sealing around the ends of electrical conduits and boxes
- Flashings
- Service mast entries



Magne-Patch™ Instantly stops small leaks in steel tanks

Code	Description	Qty.
68442	Blister card	12

FEATURES

- Quickest tank repair available
- Can be reused

Application • A powerful, permanent magnet holds a flexible plug against the hole and against existing pressure

Recommended for

- Steel tanks



GOJO® Hand cleaner

Code	Description	Qty.
40500	Original 14 oz. tub	12
40507	Natural orange 14 oz.	12

FEATURES

- Safe to use • Non-toxic
- Biodegradable

Application • Thoroughly and safely cleans adhesives, asphalt, tar and paint

*GOJO is a registered trademark of GOJO Industries



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Through the use of current technology and social media, RectorSeal provides support for all chemicals, products and tools including:

- Technical information
- Marketing materials
- Product installation training videos
- Product codes
- SDS and product data sheets.
- Trade show scheduling

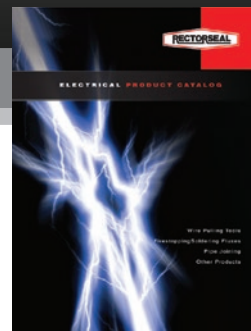
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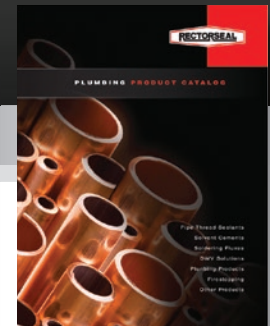
INNOVATIVE PRODUCTS FOR THE TRADES



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