



HVAC installation SOLUTIONS

Ghost™ condensate pumps for mini-split systems



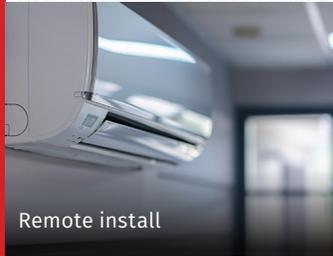
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- ▶ Quick & easy installation and maintenance
- ▶ Versatile pump positioning
- ▶ Quiet operation

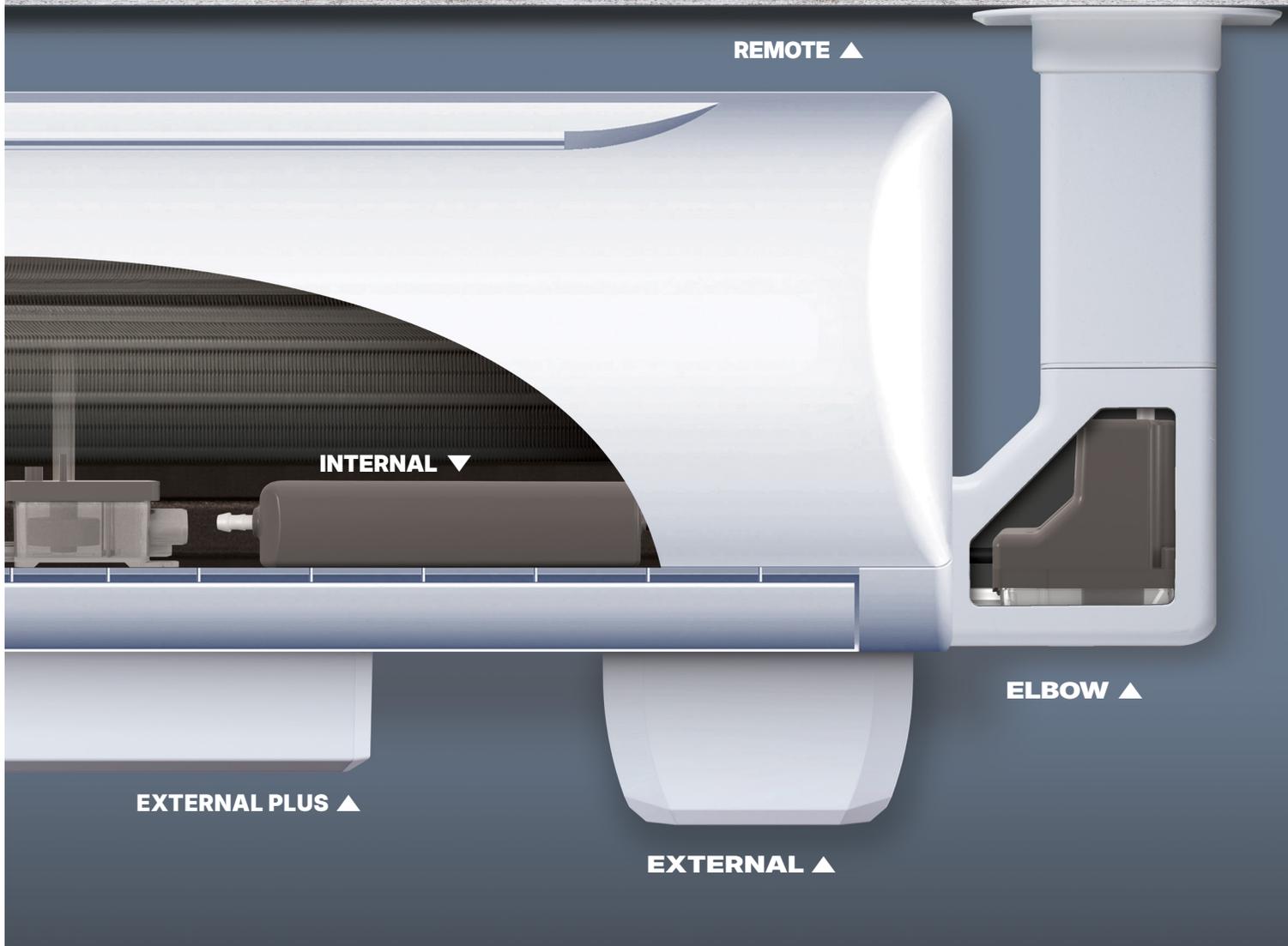
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MINI-SPLIT PUMP KITS

Don't fear the quiet

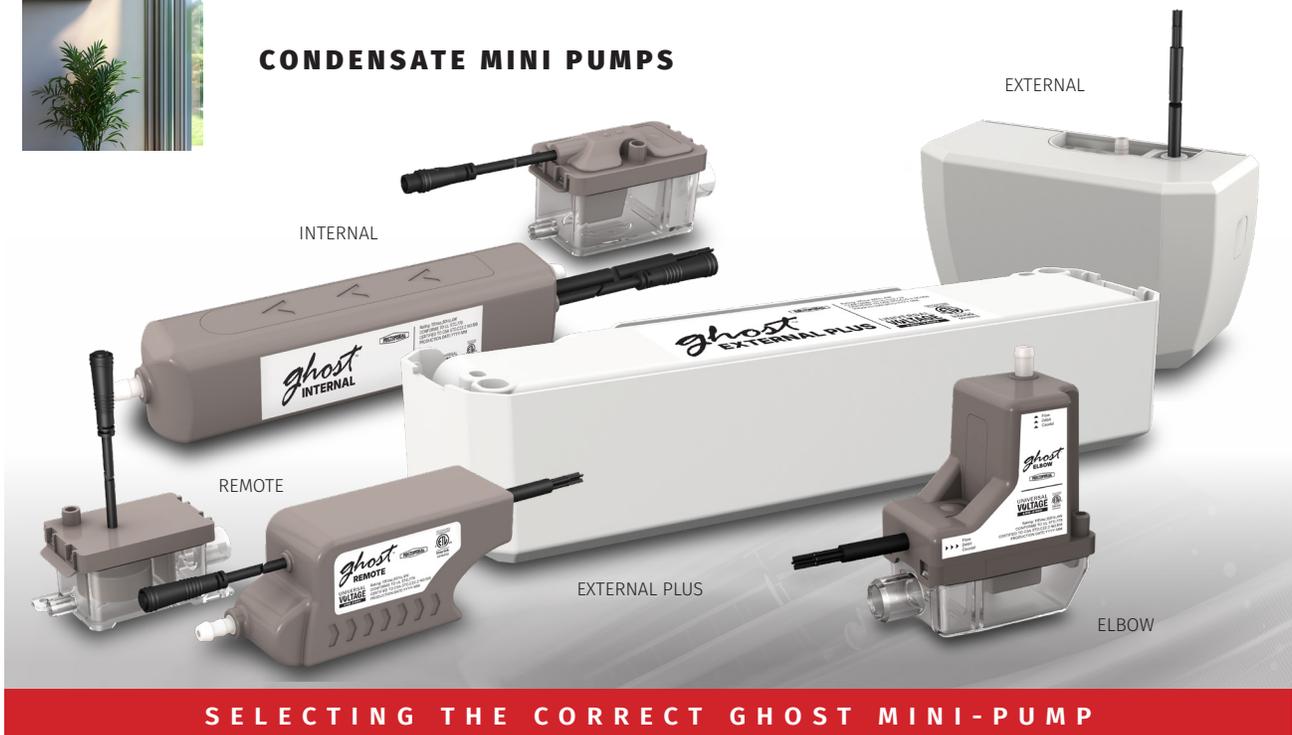


- 5 Mini-split pump styles.
- Versatile pump positioning.
- Quiet operation.





CONDENSATE MINI PUMPS



SELECTING THE CORRECT GHOST MINI-PUMP

Five pump models

1. **EXTERNAL PLUS**
2. **EXTERNAL**
3. **INTERNAL**
4. **ELBOW**
5. **REMOTE**

Four considerations

1. **Appearance** - A concealed (INTERNAL) or remote condensate pump (REMOTE) will preserve the attractive nature of any mini-split installation. Surface mounted pumps (EXTERNAL PLUS, EXTERNAL & ELBOW) are neatly covered. All pumps are hidden from view and provide a clean finished appearance.
2. **Quiet Operation** - For best practice, choose a remote pump (REMOTE) installation for the quietest operation in noise sensitive areas.
3. **Ease of Installation** - There's a Ghost pump model for every installation and application. See the guide and chart for options.
4. **Maintenance** - Pump models with filters must be cleaned regularly. Choose a surface type pump (EXTERNAL PLUS, EXTERNAL & ELBOW) for easy filter access.

Two mini-pump types:

1. **Split** - (REMOTE or INTERNAL)
Designed with a separate pump and reservoir, Split models allow for installation flexibility. The pump module contains the motor and electronic PCB, connected to the reservoir by ¼" ID vinyl tubing and a communication cable. The INTERNAL model utilizes a high-efficiency variable speed pump with a capacitive sensor for solid-state reliability. The REMOTE model utilizes a traditional float switch mechanism; for this unit, the reservoir must remain strictly level and clean for proper float operation. Regular filter maintenance is required for both systems.
2. **Monobloc** - (ELBOW or EXTERNAL)
These systems are designed with both the pump and reservoir as one integral unit, sharing a common body with no need for connecting tubes or wiring. The pumps are cooled and lubricated by the water flowing through them. The External Plus and Elbow models feature a variable speed motor controlled by a capacitive sensor. The standard External model utilizes a mechanical float switch to detect the presence of water in the drain pan and activate the pump.

Ghost Pumps features:

- Quick and easy to install
- Mini Pumps fit mini-splits up to 157,000 BTu/hr
- Rotary diaphragm pumps that can run dry
- EXTERNAL, PLUS, INTERNAL, and ELBOW utilizes an adaptive capacitance sensor for operation. EXTERNAL REMOTE operate using a traditional float to sense the water level.
- Dry contact for overflow protection
- Cleanable filters
- Ultra Quiet - 16dB(A) to 20dB(A)
- Thermally protected
- Maximum water temperature 158°F
- Discharge hose ¼" ID
- Kits include all components required
- 1 amp fuse included (must be installed to validate the warranty)

NOTE: Sound level and pump performance varies with voltage and frequency.





CONDENSATE MINI PUMPS

Ghost™ External Plus

Ultra slim, ultra quiet new generation model

RECOGNIZED
COMPONENT



Intertek

Code	Model	Power Supply	Power Consumption	Ctn. Wt.	Qty
83930	EXTERNAL PLUS	Univolt	<4w	1.59lbs	1

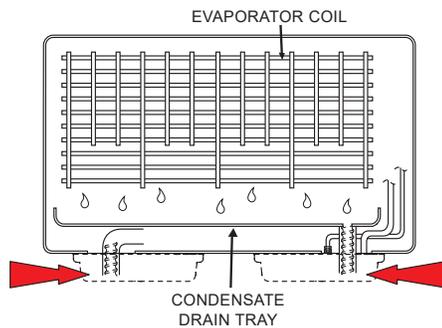
FEATURES

- Rotary diaphragm
- Capacitance technology: Soft start and variable flow; pump speed optimized in response to flow rate
- Ultra quiet operation
- Low profile design allows installation above a door
- Discreet: Pump designed to be positioned within high wall unit shadow line
- Neutral design complements leading manufacturers' high wall units
- Easy installation: Optional easy fit installation insert provided
- Reversible: Position inlet left or right for installation flexibility
- Fully potted electronics
- Includes anti-siphon device

SPECIFICATIONS:

- Power supply:** 100-240V AC 50/60Hz
- Capacity:** 10.6GPH @ 0' Head / 3.6GPH @ 39.4' Head
- Max. discharge head:** 39.4ft (12M)
- Max. suction lift:** 6.6ft (2M)
- Max. unit output:** 157,000 Btu/h / 46kw
- Safety switch:** 3A Normally closed
- Max. water temperature:** 104°F
- Discharge tube:** 1/4" ID
- Protection:** Fully potted, IP-45
- Sound level:** 16dB(A)@ 3.3ft (1M)
- Pump Dimensions:**
11.1" × 2.2" × 2.7"
- Class II Appliance

TYPICAL PUMP LOCATIONS





CONDENSATE MINI PUMPS

Ghost™ External

Mounts directly below evaporator, quick installation

RECOGNIZED COMPONENT



Code	Model	Power Supply	Power Consumption	Ctn. Wt.	Qty
83939	EXTERNAL	Univolt	<4W	1.3lbs	1

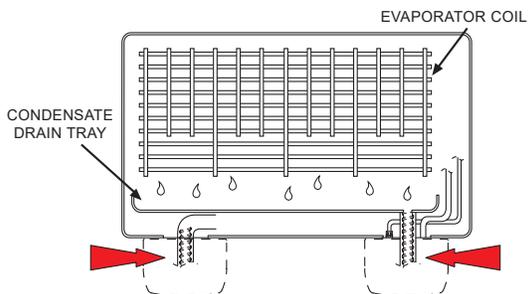
FEATURES

- Rotary diaphragm
- Surface mounts below evaporator, at either end
- Crisp white color and slim profile complement any evaporator
- Resilient mounting minimizes vibration & noise
- Accepts standard 5/8" drain hose from any mini-split
- Fully potted electronics
- No need to disturb evaporator to clean filter, reservoir clips out from front for easy removal and replacement
- Includes anti-siphon device

SPECIFICATIONS:

Power supply: 100-240V AC 50/60Hz
Capacity: 10.6GPH @ 0' Head / 3.6GPH @ 32.8' Head
Max. discharge head: 32.8ft (10M)
Max. unit output: 157,000Btu/h / 46kw
Max. water temperature: 158°F
Water Storage: 7.8oz
Discharge tube: 1/4" ID
Rated: Continuous
IP Protection: IPX5
Fully potted: Yes
Safety switch: 3A Normally closed
Sound level: 20dB(A) @3.3ft (1M)
Pump Dimensions:
 6.5" x 2.7" x 4.2"
 Class II Appliance

TYPICAL PUMP LOCATIONS





CONDENSATE MINI PUMPS

Ghost™ Internal

Ultra-slim profile, fits inside evaporator or lineset cover

RECOGNIZED COMPONENT



Code	Model	Power Supply	Power Consumption	Ctn. Wt.	Qty
83809	INTERNAL	Univolt	<4W	1.37lbs	1

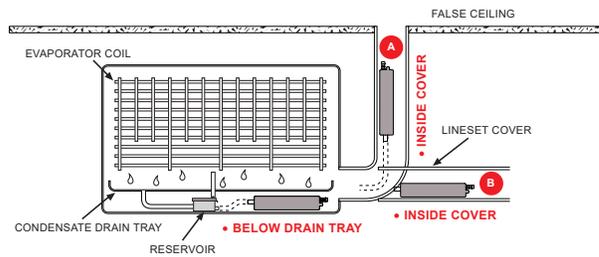
FEATURES

- Self Priming
- Integral hanging loop and separate reservoir facilitates attachment in vertical applications
- Ultra-slim profile
- Installs within evaporator or inside lineset cover
- 3A NC dry contacts
- Modular terminals for fast connection
- Inline fuse
- Fully potted electronics
- Includes anti-siphon device

SPECIFICATIONS:

- Power supply:** 100-240V AC 50/60Hz <4W
- Capacity:** 10.6GPH @ 0' Head / 3.6GPH @ 39.4' Head
- Max. discharge head:** 65.6ft (20M)
- Max. suction lift:** 39.4ft
- Max. unit output:** 157,000 Btu/h / 46kw
- Max. water temperature:** 104°F
- Safety switch:** 3A Normally closed
- Discharge tube:** 1/4" ID
- Protection:** Fully potted, IP-45
- Sound level:** 16dB(A)@ 3.3ft (1M)
- Pump Dimensions:** 7.3" × 1.4" × 1.3"
- Class II Appliance

TYPICAL PUMP LOCATIONS





CONDENSATE MINI PUMPS

Ghost™ Remote

Installation flexibility, proven reliability

RECOGNIZED COMPONENT



Code	Model	Power Supply	Power Consumption	Ctn. Wt.	Qty
83909	REMOTE	Univolt	<4W	1.57lbs	1

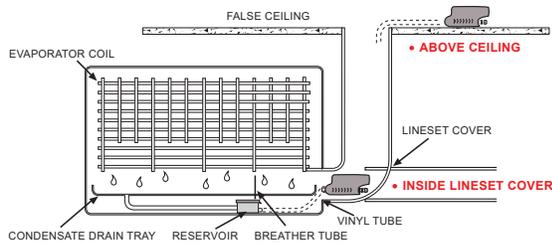
FEATURES

- Rotary diaphragm
- Pump installs remotely above ceiling
- Pan mount and inline style reservoir included
- Modular terminals for fast connection
- Gravity Inlet
- Fully potted electronics
- 3A NC dry contacts
- Includes anti-siphon device

SPECIFICATIONS:

- Power supply:** 100-240V AC 50/60Hz <4W
- Capacity:** 10.6GPH @ 0' Head / 3.6GPH @ 32.8' Head
- Max. discharge head:** 32.8ft (10M)
- Max. suction lift:** 6.6ft (2M)
- Max. unit output:** 157,000 Btu/h / 46kw
- Max. water temperature:** 158°F
- Safety switch:** 3A Normally closed
- Discharge tube:** ¼" ID
- Protection:** Fully potted, IP-45
- Sound level:** 16dB(A)@ 3.3ft (1M)
- Pump Dimensions:** 4.9" × 1.5" × 1.9"
- Class II Appliance

TYPICAL PUMP LOCATIONS





CONDENSATE MINI PUMPS

Ghost™ Elbow

Elbow design, reversible, duct included options available

RECOGNIZED COMPONENT



Code	Model	Power Supply	Power Consumption	Ctn. Wt.	Qty
83869	ELBOW	Univolt	<4W	1.06lbs	1

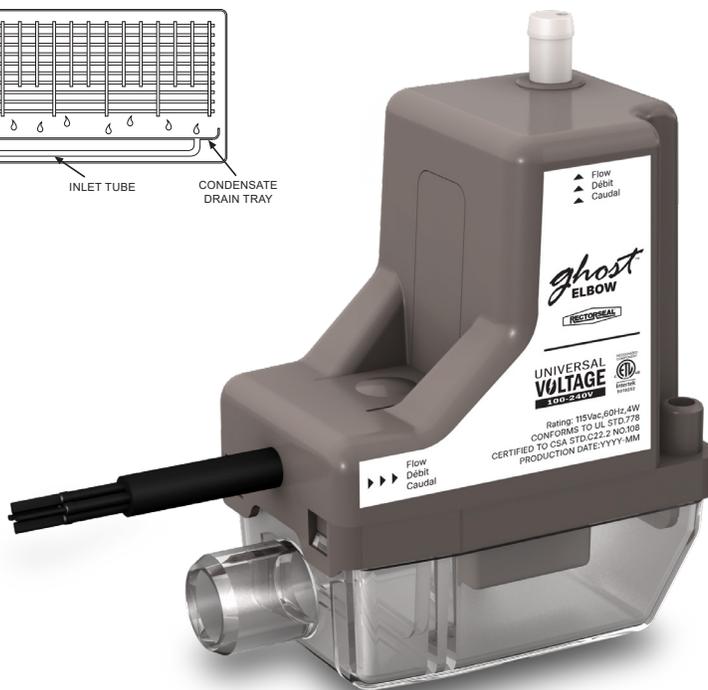
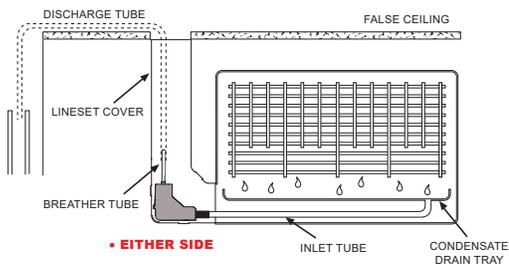
FEATURES

- Rotary diaphragm
- Capacitance technology: Soft start and variable flow;
- pump speed optimized in response to flow rate Left or right install
- Easily accessed for filter cleaning
- 3A NC dry contacts rated
- Fully potted electronics
- Includes anti-siphon device

SPECIFICATIONS:

- Power supply:** 100-240V AC 50/60Hz
- Capacity:** 4.8GPH @ 0' Head / 1.3GPH @ 32.8' Head
- Max. discharge head:** 32.8ft (10M)
- Max. suction lift:** 6.6ft (2M)
- Max. unit output:** 54,600 Btu/h / 16kw
- Max. water temperature:** 104°F
- Safety switch:** 3A Normally closed
- Discharge tube:** ¼" ID
- Protection:** Fully potted, IP-45
- Sound level:** 17dB(A)@ 3.3ft (1M)
- Pump Dimensions:** 3.2" × 1.8" × 3.8"
- Class II Appliance

TYPICAL PUMP LOCATIONS



ghost™

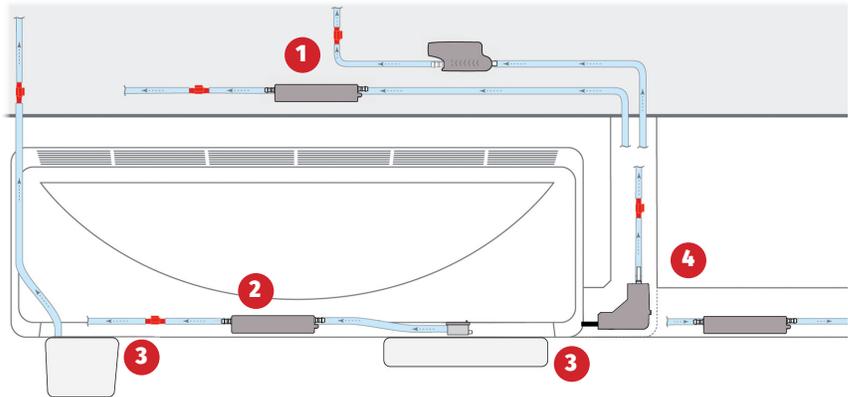
PUMP SELECTOR GUIDE



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

	EXTERNAL PLUS	EXTERNAL	INTERNAL	REMOTE	ELBOW
Electrical					
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, visit rs.today/ghost-pumps



Type 1 Installation

For optimum quiet operation, the solution is a remote mounted pump. **INTERNAL, REMOTE**

Type 2 3 Installation – rear entry lineset

Lineset enters the evaporator from directly behind.

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

INTERNAL – 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.

INTERNAL – 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).

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

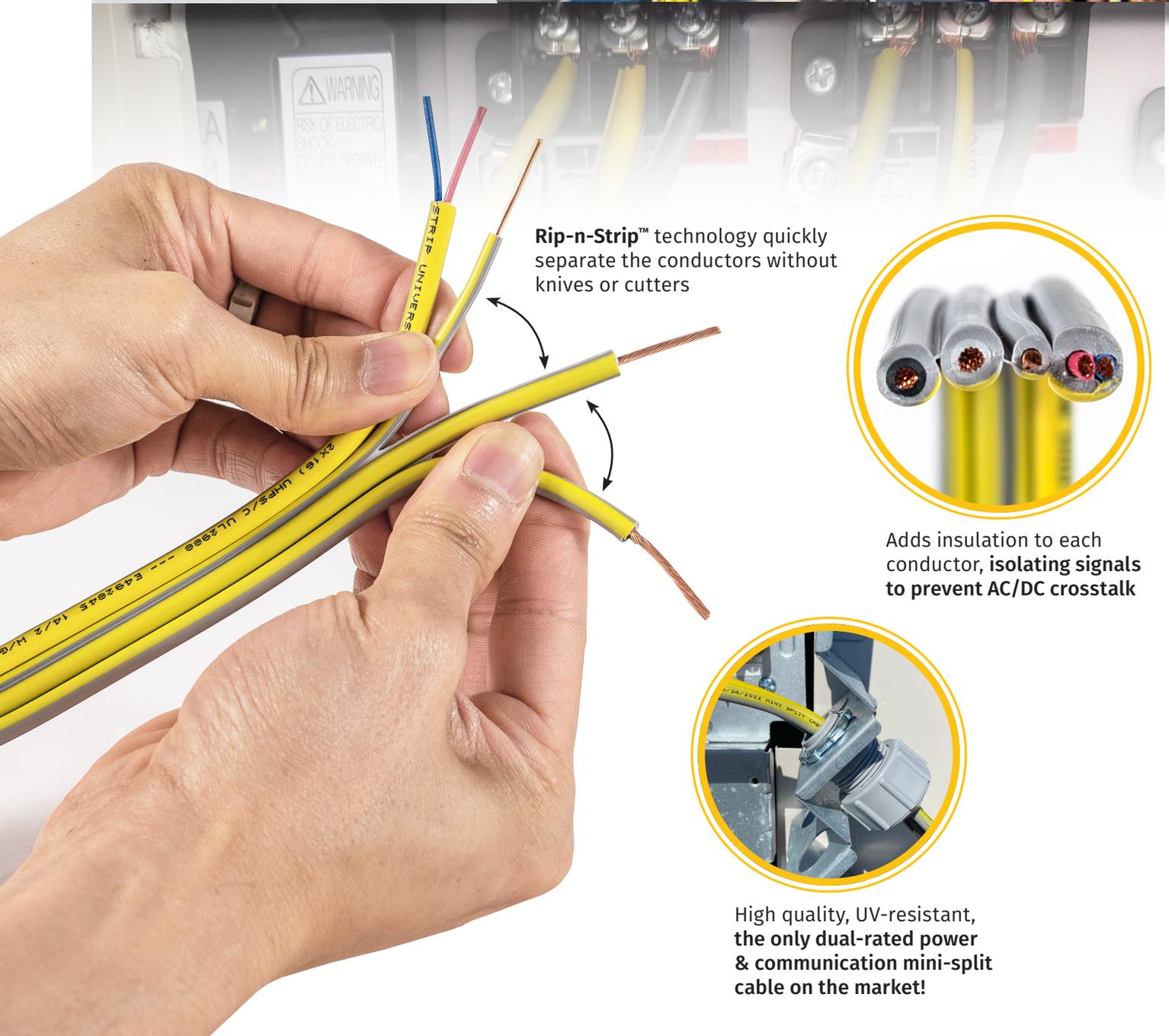
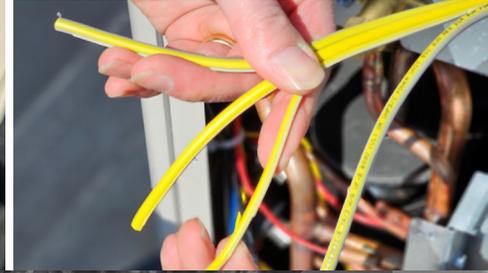
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Mini Pumps Wiring
Diagrams





MINI-SPLIT CABLE

All in one. Code compliant.



Rip-n-Strip™ technology quickly separate the conductors without knives or cutters



Adds insulation to each conductor, **isolating signals** to prevent AC/DC crosstalk



High quality, UV-resistant, **the only dual-rated power & communication mini-split cable on the market!**



MINI-SPLIT CABLE

Duckt-Strip®

Rip-n-Strip Ductless Mini-Split Cable

Code	Description	Qty
DUCKTSTRIPUNV100	Universal 5/4, 2x14, 2x16 100' coils	1
DUCKTSTRIPUNV250	Universal 5/4, 2x14, 2x16 250' coils	1
DUCKTCONNPKUNI	Universal Connector	200

FEATURES

- All-in-one mini-split cable, streamlining connection between indoor and outdoor units
- One wire covers interior/exterior compliance
- Innovative Rip-n-Strip™ technology with no blade required
- High-grade materials for durability and reliability
- Combines power, communication, and control wires
- UV-resistant outer jacket
- Enhanced flexibility for easy routing
- Color-coded wires for simplified connections
- Universal connector available for outdoor applications
- Code-compliant

APPLICATION

• The all-in-one mini-split cable designed to simplify and streamline ductless HVAC installations • The patented Rip-n-Strip technology allows for safe separation of individual wires within the cable, eliminating the need for additional cutting tools • Combines power, communication, and control wires in a single, easy-to-install cable • UV-resistant jacket ensures long-lasting performance in outdoor applications • Enhanced flexibility allows for effortless bending and routing in tight spaces

RECOMMENDED FOR

• From the mini-split outdoor condensing unit to the indoor unit. Power and Control in one cable.



MINI-SPLIT INSTALLATION FITTINGS & CABLE

Fittings

For mini-split installation



PIPE ADAPTER

Code	ID	Length	Ctn Qty	Ctn Wt
83031 (DSH-14C) INSULATED	-	-	10	2 lbs.

Joins DSH-14 insulated drain hose to A/C drain pipe



PIPE ADAPTER

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



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-l) non-adhesive wrap	3" x 70'	80	38.58 lb.

Protects against UV exposure

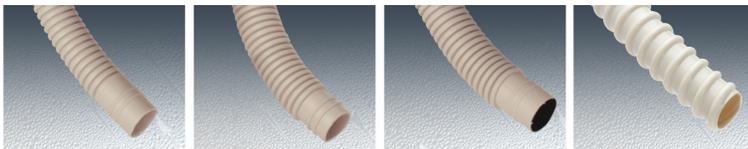


MINI-SPLIT CONDENSATE DRAIN HOSE

Condensate Drain Hose

Non-Insulated

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



Non-Insulated

UV Resist

Smooth Bore



Smooth Bore (DSB-16)
Reduces resistance and maximizes condensate flow. Resists clogging.

UV Resistance (DHQ-16)
Resists deterioration from sunlight.

Condensate Drain Hose

Insulated

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



Insulated



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

Condensate Drain Hose

Insulated Drain-up Hose Kit

Code	Description	Qty
84306	DSH-UP20E20E-07 Elbow to Elbow 27.5"	10
84307	DSH-UP20E20E-10 Elbow to Elbow 40"	10
84308	DSH-UP20E20S-07 Elbow to Straight Coupler 27.5"	10
84309	DSH-UP20E20S-10 Elbow to Straight Coupler 40"	10

FEATURES

- Exclusive hose for drain-up piping
- Easy to adjust position
- Pre-connected hose with fittings

APPLICATION • Drain-up hose kit for indoor A/C unit. These insulated drain hoses will greatly reduce install time, since there is no need to cut and cement plastic pipes for the drain assembly.

RECOMMENDED FOR

- Exclusive for indoor use
- Commercial HVAC units
- Ceiling cassette
- Ducted concealed





A CSW Industrials Company

HVAC DIVISION

RectorSeal provides industry-leading digital and print support materials for its extensive chemical and mechanical solutions that include:

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