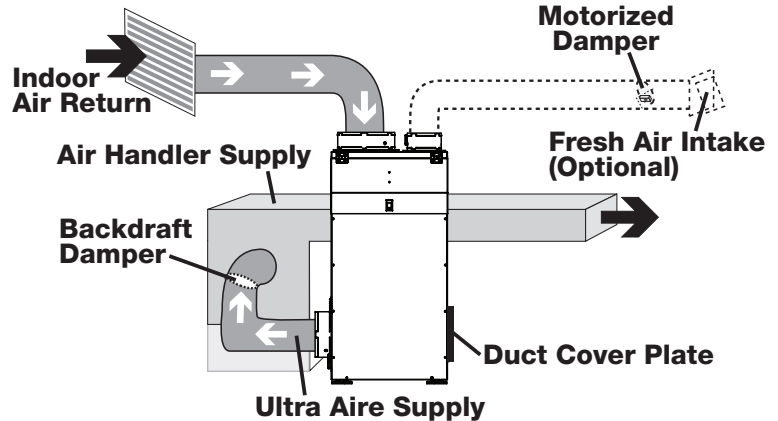


Recommended HVAC System Installation

Dedicated Ultra Aire Return to HVAC Supply

- Install a dedicated return for the Ultra Aire 120V from a central area of the structure.
- Install an insulated duct from outside to the 6" damper of the Ultra Aire 120V to provide fresh air ventilation (optional).
- The optional second supply of the Ultra Aire 120V may be ducted to another location. This can provide a second source of airflow to the basement or supply of the existing HVAC system with a backdraft damper.
- When using only one of the two supplies on the Ultra Aire 120V, the unused supply must be blocked using the duct cover plate included.
- DO NOT locate return in a bathroom or kitchen.
- Control should be located remotely from the dehumidifier and placed in a central location.



Alternative HVAC System Installations

If the Recommended Dedicated Ultra Aire Return to HVAC Supply Installation is not possible, there are several alternative installation options available.

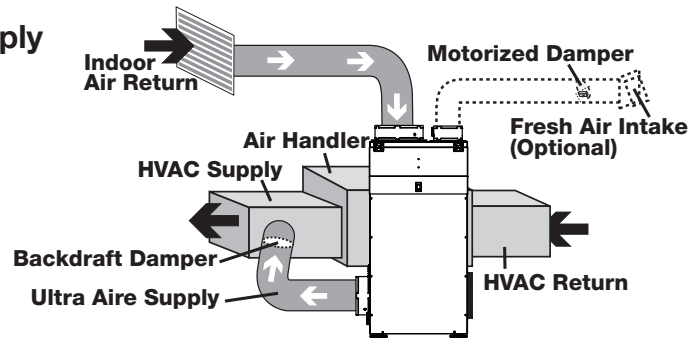
- DO NOT locate return in a bathroom or kitchen.
- Control should be located remotely from the dehumidifier and placed in a central location.
- For basement installations, an optional tee can be installed on the Ultra Aire Supply.

Dedicated Ultra Aire Return to HVAC Supply

Create a separate return for the Ultra Aire 120V in a central area of the building.

Duct the supply of the Ultra Aire 120V to the air supply of the HVAC system with a back draft damper.

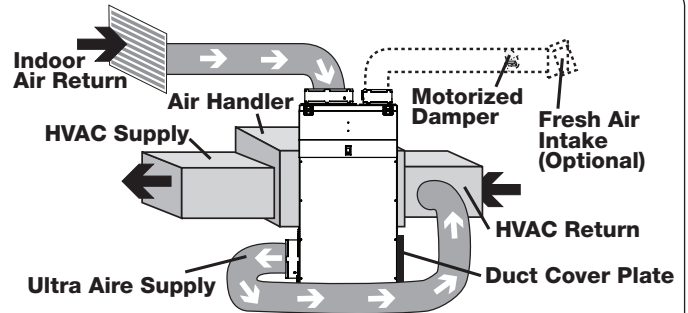
An attic insulation kit is needed for the attic installation.



Dedicated Ultra Aire Return to HVAC Return

Create a separate return for the Ultra Aire 120V in a central area of the building.

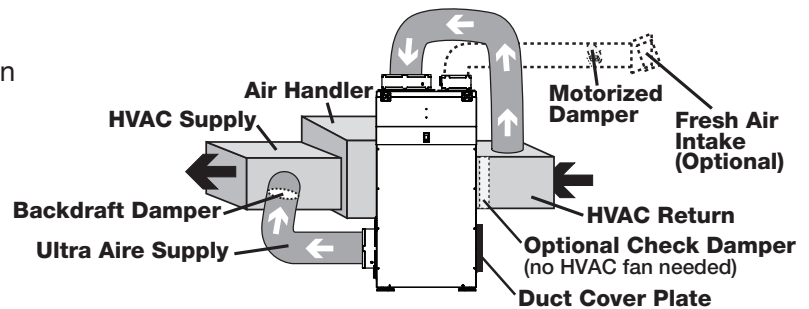
Installing the supply air from the Ultra Aire 120V to the return of the HVAC system requires the HVAC fan to run when the Ultra Aire 120V is operating.



HVAC Return to HVAC Supply

Check Damper should be in place between the Return and Supply connections of the dehumidifier.

If Check Damper is not in place, the HVAC fan must turn on when the dehumidifier is in operation.



No Existing Ductwork Installation

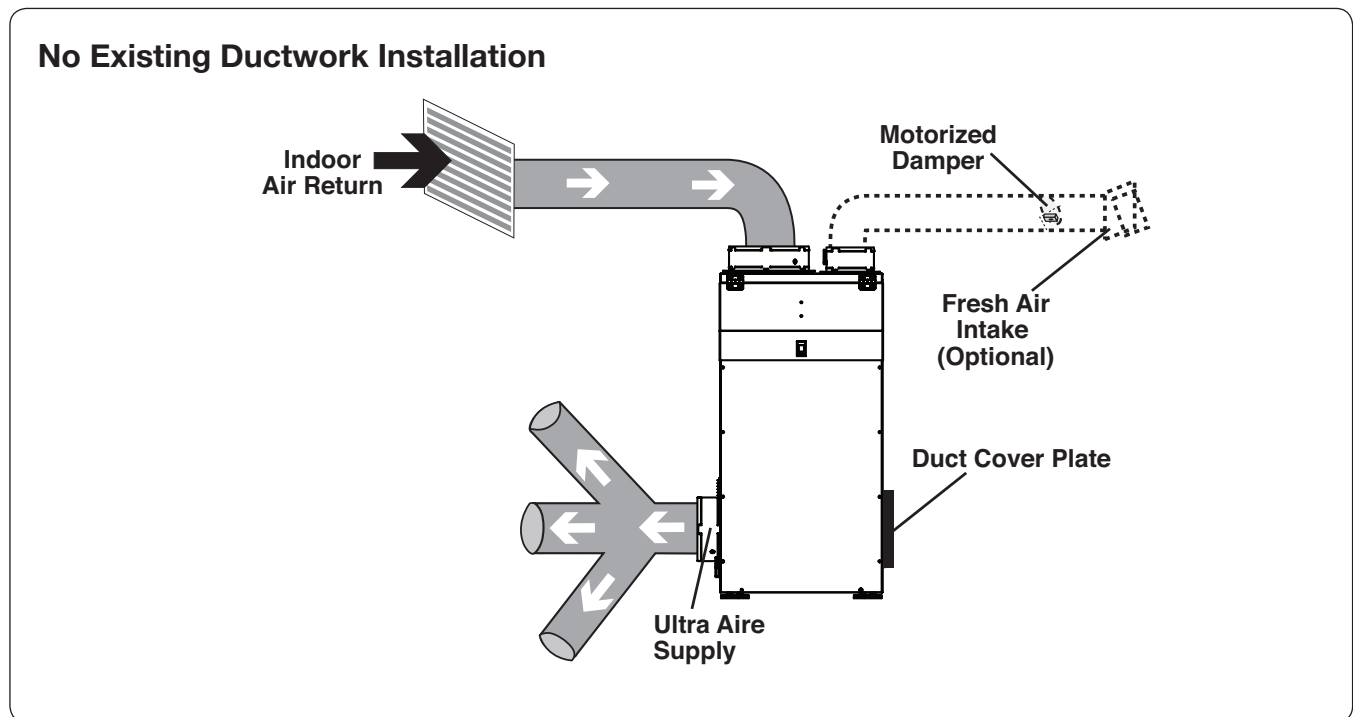
When installing the Ultra Aire 120V in a structure that does not have a forced air HVAC system, a single return for the Ultra Aire 120V should be installed in a central location.

Install an insulated duct from outside to the 6" collar of the Ultra Aire 120V to provide fresh air ventilation (optional).

The supply of the Ultra Aire 120V should be ducted to remote areas of the structure such as bedrooms, living room, den, etc. Either one or two supply ducts may be used to distribute air. Be sure to utilize multiple rooms to allow air inside the structure to properly circulate. Proper air distribution is important to ensure even humidity control and heat distribution throughout the structure.

A 6" diameter duct is recommended for branches to bedrooms. An 8" diameter duct is recommended for branches to larger areas.

- DO NOT locate the return in a bathroom or kitchen.
- DO NOT locate the supply in rooms where doors may be closed.
- Control should be located remotely from the dehumidifier and placed in a central location.



Recommended Closet Installation

Due to space limitations, a closet installation may require additional considerations. Locate the dehumidifier under or next to the HVAC system as space allows. A passive vent or louver door is required to allow air to be pulled in from the living space.

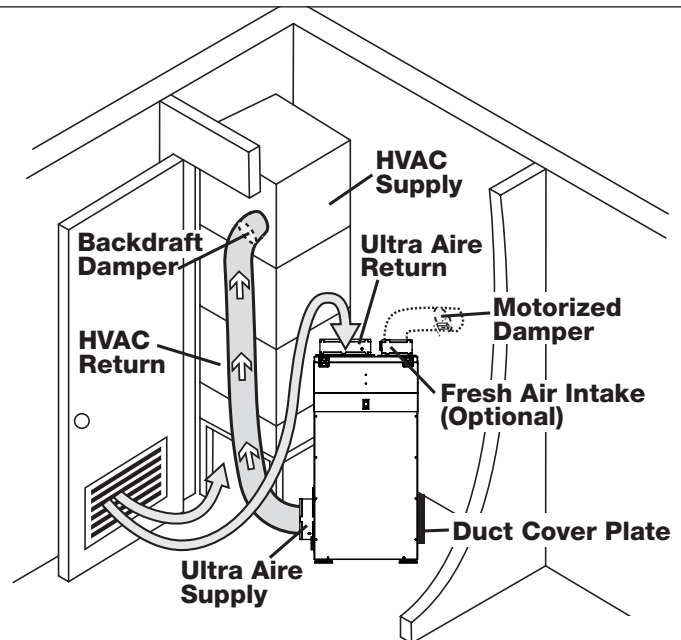
- No inlet duct is required. Air is pulled through the passive vent or louver door from the living space. Where outlet space is restricted, the outlet duct collar is optional.
- Install an insulated duct from outside to the 6" collar of the Ultra Aire 120V to provide fresh air ventilation (optional).
- Control should be located remotely from the dehumidifier and placed in a central location.

⚠ WARNING!

WHEN INSTALLING THE DEHUMIDIFIER AS PART OF A COMBUSTION TYPE HVAC SYSTEM (GAS, OIL, PROPANE, ETC.), FOLLOW ALL LOCAL AND NATIONAL BUILDING AND SAFETY CODES.

Central Return to HVAC Supply

- Duct the supply of the Ultra Aire 120V to the supply of the existing HVAC system with a backdraft damper.



Alternative Closet Installations

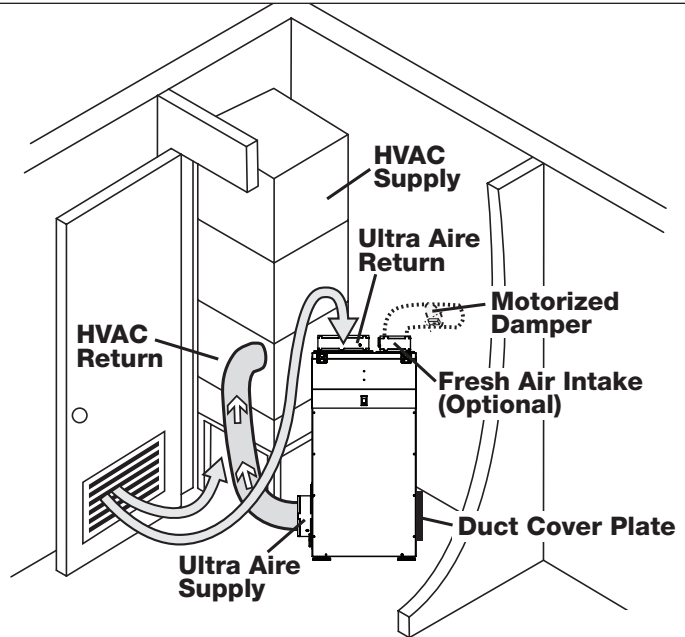
If the Recommended Closet Installation is not possible, there are several alternative installation options available.

- No inlet duct is required. Air is pulled through the passive vent or louver door from the living space.
- Install an insulated duct from outside to the 6" damper of the Ultra Aire 120V to provide fresh air ventilation (optional).
- Control should be located remotely from the dehumidifier and placed in a central location.

Closet Installation - Central Return to HVAC Return

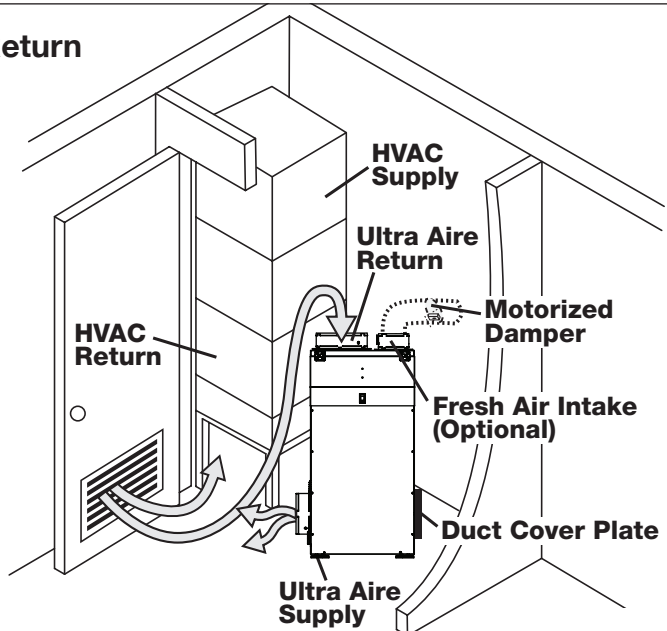
Duct the supply of the Ultra Aire 120V to the return side of the existing HVAC system.

The HVAC fan must run when the dehumidifier is running.



Closet Installation - No Duct, Central Return to HVAC Return

Attach outlet duct so air is not discharged into wall or other obstruction. The HVAC system will naturally pull dehumidified air from the closet and distribute throughout the structure.



Pump Kit

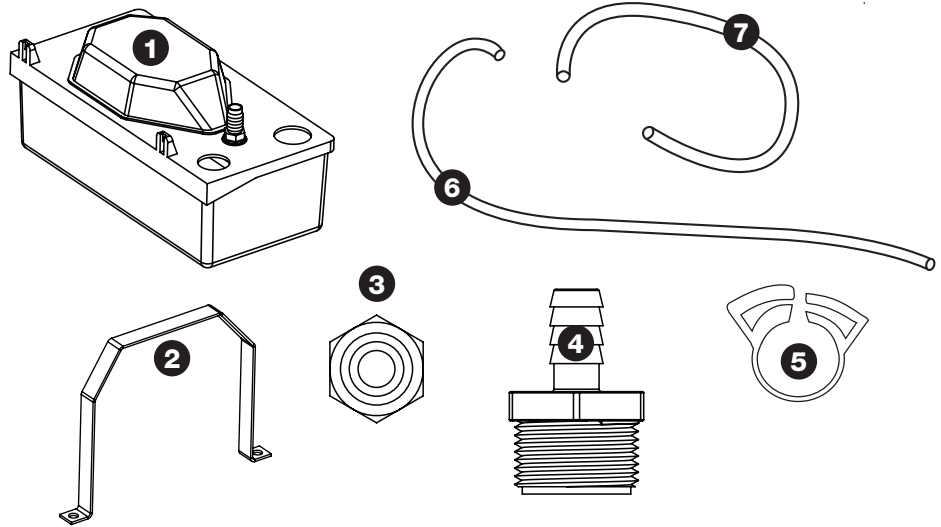
Part No. 4039225

Parts Included:

1. Condensate Pump
2. Pump Bracket
3. #8-32 Locknuts (x2)
4. Drain Hose Fitting (x2)
5. Hose Clamp (x3)
6. 3/8" X 20' Hose
7. 3/8" X 11" Hose

Tools Required:

- T25 Torx Driver
- 11/32" Hex Socket
- Channel Locks
- Scissors / Side Cutters
- Tape Measure (Optional)

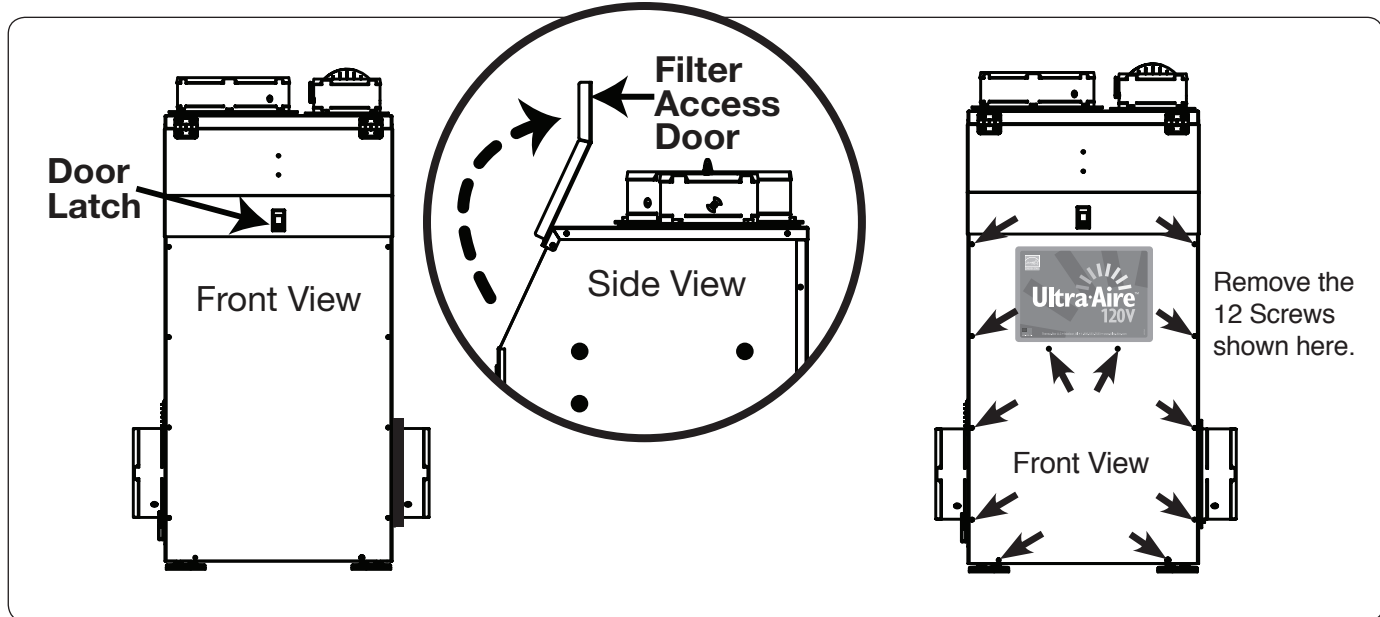


⚠ CAUTION!

BEFORE INSTALLING PUMP KIT, DISCONNECT DEHUMIDIFIER FROM ELECTRICAL POWER AND DISCONNECT DRAIN HOSE IF PREVIOUSLY INSTALLED.

Step 1: Open the Filter Access Door by pushing up on the latch and lifting. Remove the front panel by unthreading the T25 Torx Head Screws (12). Carefully set the front panel and screws aside.

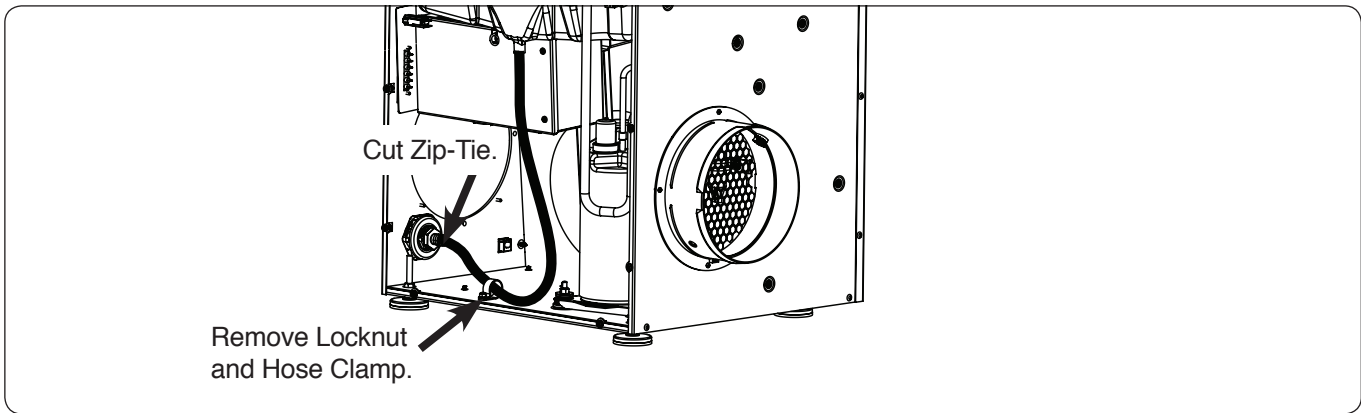
Note: The two screws removed from the center of the front panel under the label have a longer thread pitch than the other ten screws removed from the sides.



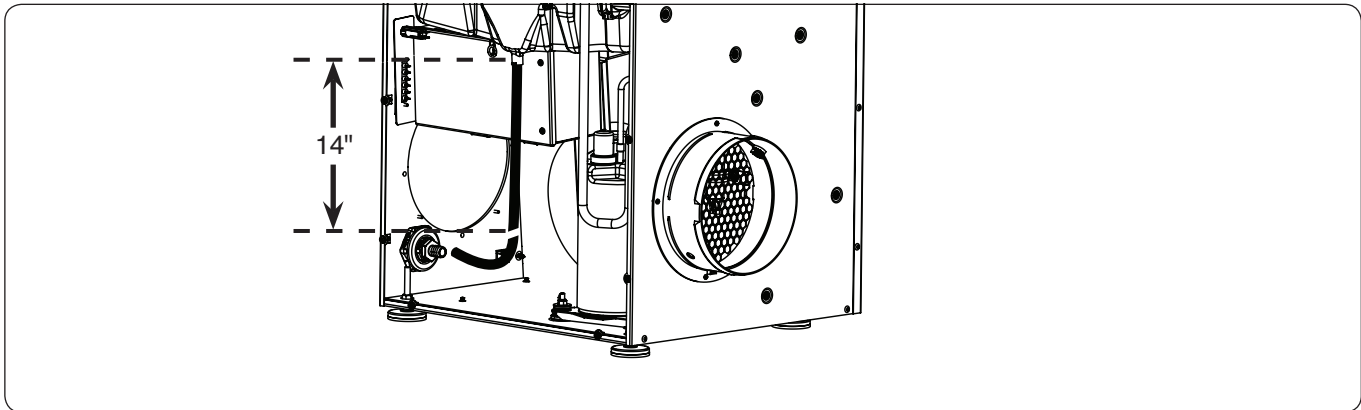
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TS-1065 3/18 Rev A

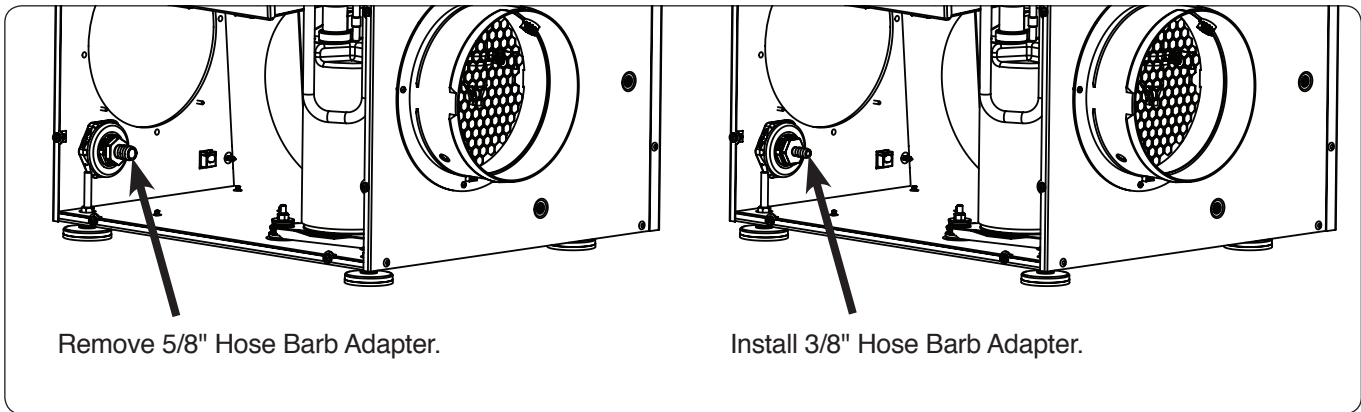
Step 2: Using 11/32" Hex Socket, unthread the #8-32 Locknut from the Plastic Hose Clamp. Remove both the Locknut and Hose Clamp, then set aside. Using Scissors or Side Cutters, cut the Zip-Tie holding the Condensate Hose on the Fitting.



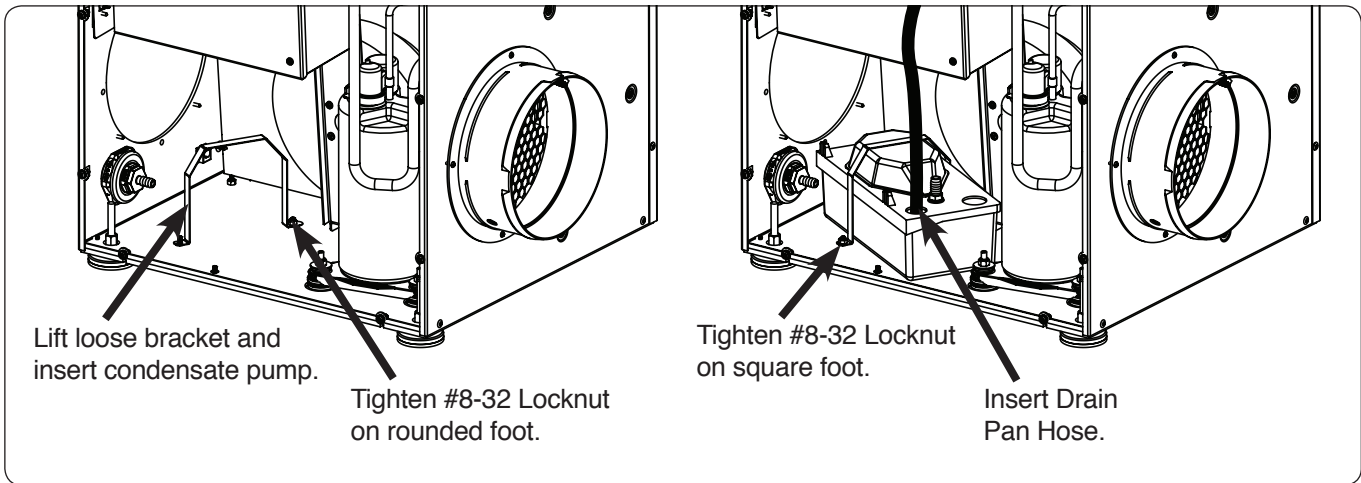
Step 3: Pull the Condensate Hose loose from the Fitting. Using Scissors or Side Cutters, cut the length of the Hose to 14" from the Drain Pan. Cut the end of the Hose at a 45 degree angle for proper drainage.



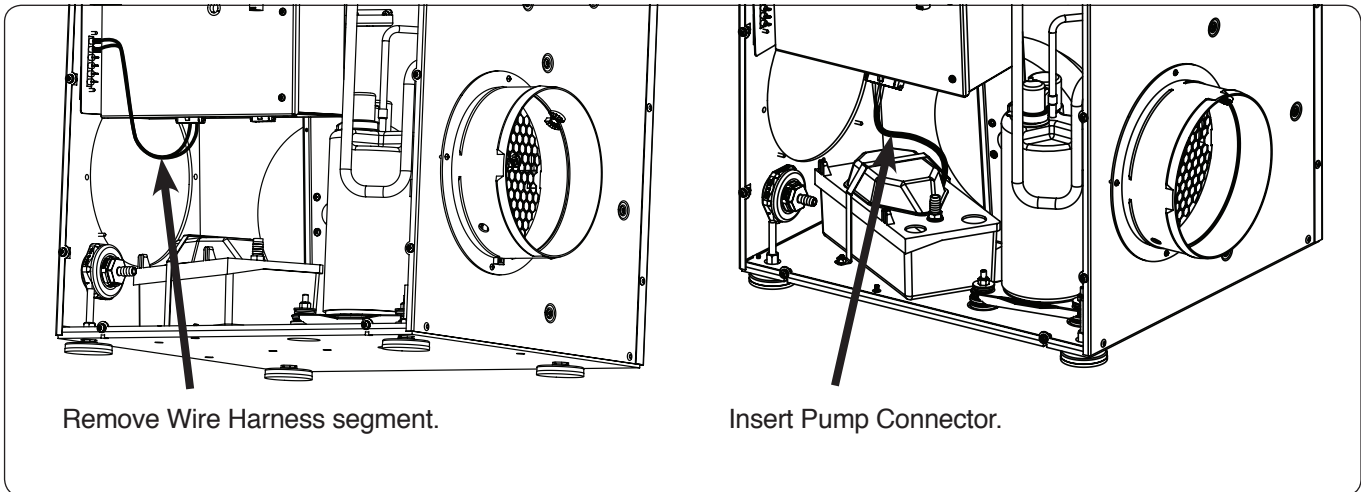
Step 4: Using Channel Locks, unthread the stock 5/8" Hose Barb Adapter out of the Bulkhead Fitting and set aside. Replace it with one of the 3/8" Hose Barb Adapters contained in the kit. Ensure the Adapter is threaded tightly, but do not over-tighten.



Step 5: Select the Pump Bracket and locate the end with the rounded foot. Slot the thru-hole on this end into the far-side threaded pin and tighten a #8-32 Locknut using 11/32" Hex Socket. While lifting the loose end of the Bracket, slide the Condensate Pump underneath until centered beneath the Bracket. Slot the thru-hole on the other end of the Bracket into the near-side threaded pin and tighten a second #8-32 Locknut. Ensure that the Pump is secure. Insert Drain Pan Hose from Step 3 into the near-side Pump Hole.



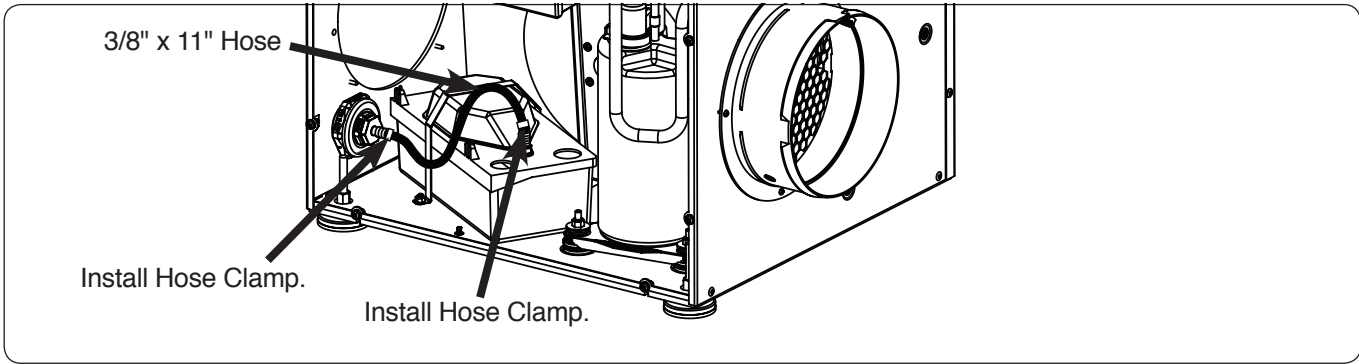
Step 6: A segment of Wire Harness (GRY-28, GRY-29) runs from a Mate-N-Lok Plug underneath the Electrical Box to two "FLOAT" Terminals on the Low-Voltage Terminal Block. Remove this segment and set aside. Insert the equivalent Mate-N-Lok Plug from the Condensate Pump into the corresponding Socket underneath the Electrical Box. Ensure that the clips on the connector have locked into place.



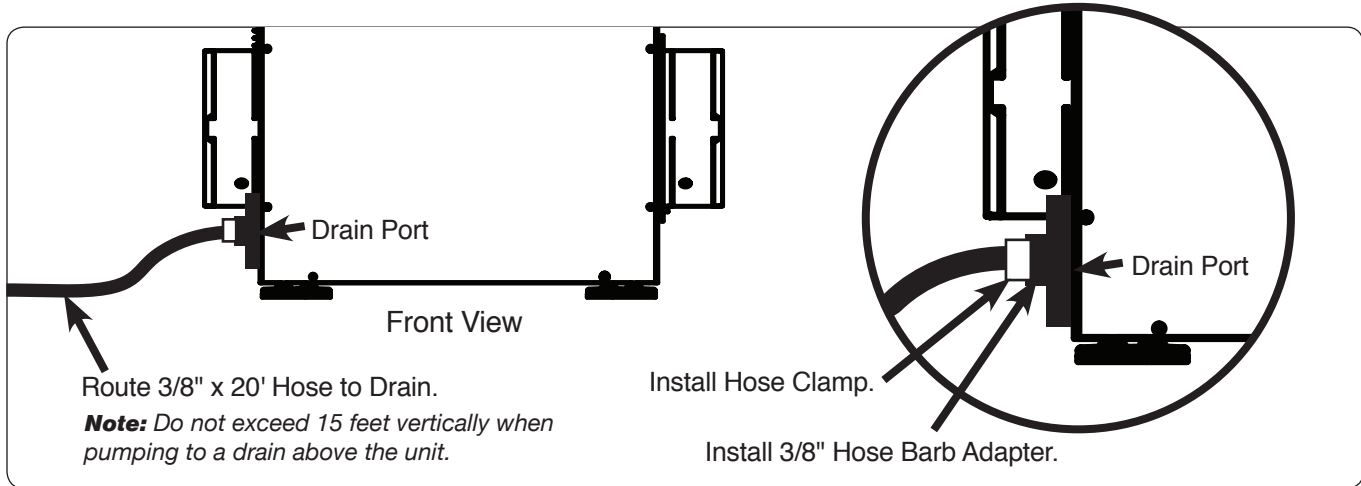
⚠ CAUTION!

BY REMOVING THE WIRE HARNESS SEGMENT, THE FLOAT SWITCH TERMINALS WILL BE DISABLED. TO RETAIN EXTERNAL FLOAT SWITCH FUNCTIONALITY, THE FLOAT SWITCH MUST BE WIRED IN SERIES WITH THE CONTROL LINE TO THE "DEHU" PIN ON THE TERMINAL BLOCK.

Step 7: Locate the 11" Hose contained in the kit. Insert the ends of the 11" Hose into the 3/8" Hose Barbs on the Pump and Adapter Fitting. Install Hose Clamps onto both ends of the Hose. Using Channel Locks, snap Clamps into place and verify that the Hose is securely fastened to the Pump by gently pulling on both ends.



Step 8: Using Channel Locks, thread the other 3/8" Hose Barb Adapter into the Bulkhead Fitting on the exterior of the unit. Ensure the Adapter is threaded tightly, but do not over-tighten. Locate the 20' Hose contained in this kit. Insert one end of the Hose onto the 3/8" Hose Barb Adapter and secure using another Hose Clamp. Route Hose appropriately to Drain.



Step 9: Locate the Front Panel and T25 Torx Head Screws that were set aside in Step 1. Replace the Front Panel by installing the Screws into their corresponding holes (12). Close the Filter Access Door by inserting the Latch into the Front Panel.

Note: The two screws removed from the center of the front panel under the label have a longer thread pitch than the other ten screws removed from the sides.

