

## Installation Manual - Please Read And Save These Instructions

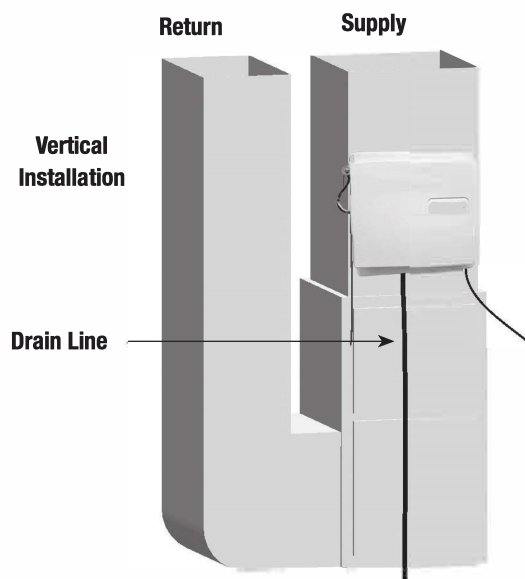


**BZ33-FPH4400A**

*Patent Pending*

### Supply Plenum Installation Location:

For maximum humidity output, install the 19 GPD fan powered evaporative humidifier on the supply plenum of a forced air handling system. Select a location for the humidifier that allows for service and maintenance.



### ⚠ CAUTION!

This symbol and the word "CAUTION" indicates: IMPORTANT INSTRUCTIONS!

### ⚠ WARNING!

This symbol and the word "WARNING" indicates: IMPORTANT INSTRUCTIONS!

**Failure to heed ⚠ CAUTION! or ⚠ WARNING! can result in serious injury or death.**

#### Inside The Box

- Size 35 Vapor Pad®
- Solenoid Valve Assembly
- Digital Automatic Humidistat
- Installation Hardware
- Push-to Connect Valve for 1/2" copper or PEX
- 1/4" Diameter plastic supply tubing for cold water applications
- Electrical wire and wire nuts
- (6) #8 x 1/2" Long self-piercing sheet metal screws

### ⚠ CAUTION!

24V Transformer is Factory Installed. Do NOT Connect Any Power Supply Source to the External Yellow & Red Wires.

**⚠ WARNING** DISCONNECT ELECTRICAL POWER BEFORE BEGINNING INSTALLATION.



**IMPORTANT:** To ensure your safety and the longevity of your unit, we recommend:

- Contacting a licensed contractor to perform maintenance or repairs.
- Changing your Vapor Pad at the start of each heating season.

### ⚠ WARNING

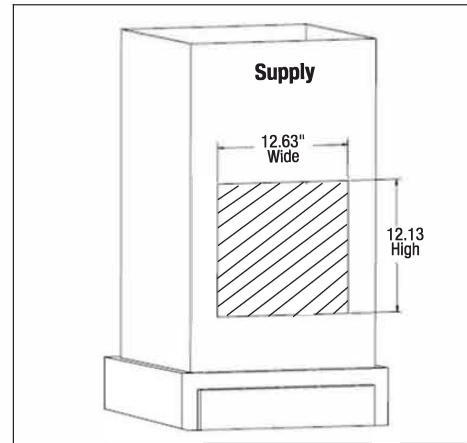
Do not install where ambient temperatures fall below 32°F / 0°C or where plenum temperatures exceed 200°F / 93°C. For maximum evaporative capacity, install this humidifier on the warm air supply plenum.

# INSTALLATION - SUPPLY (ONLY)

## 1 Prepare Duct

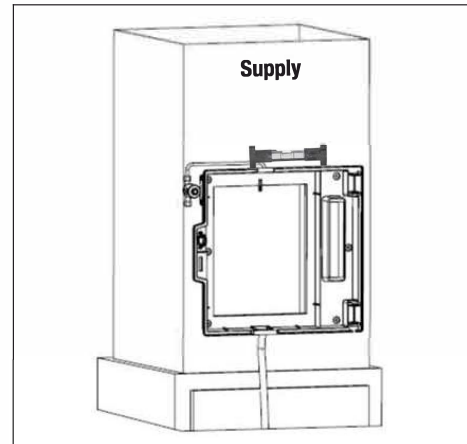
1. Cut a rectangular hole using the manufacturer-supplied mounting template.

For serviceability, please allow an obstruction-free zone of at least 4" (101.6mm) on the right side and bottom of the humidifier.



## 2 Affix Chassis

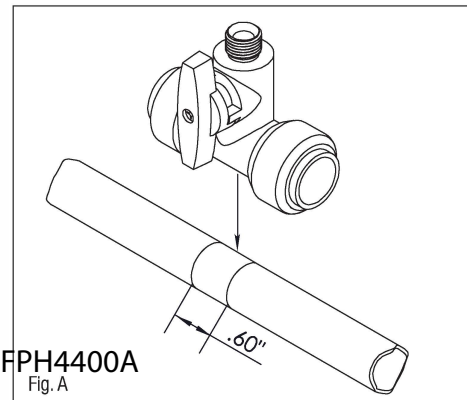
1. Install the humidifier chassis, making sure the drain spout is pointing downward, as shown.
2. Level the chassis and install using the six mounting screws included.



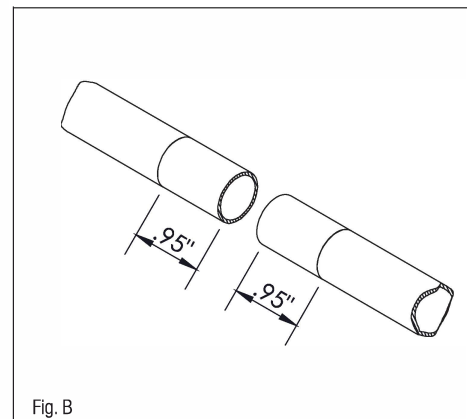
## 3 Install the Push-to-Connect Valve

1. Select desired valve location.
2. Remove 0.6" (15mm) of pipe to account for valve width (Fig. A). Make sure both pipe ends are square, deburred and clean.

BZ33-FPH4400A  
Fig. A



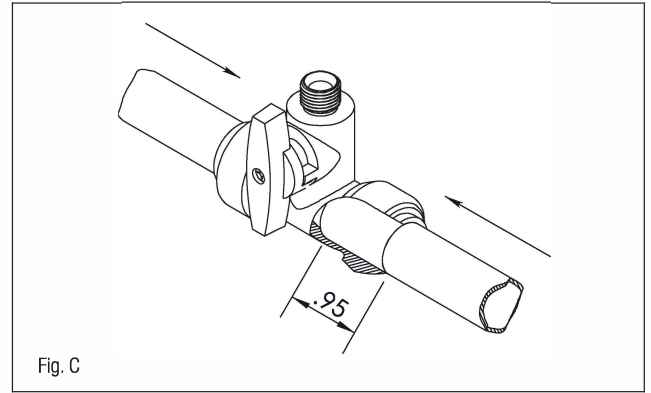
3. Mark both pipes at the insertion depth, 0.95" (24mm) (Fig. B).



## INSTALLATION - SUPPLY (ONLY)

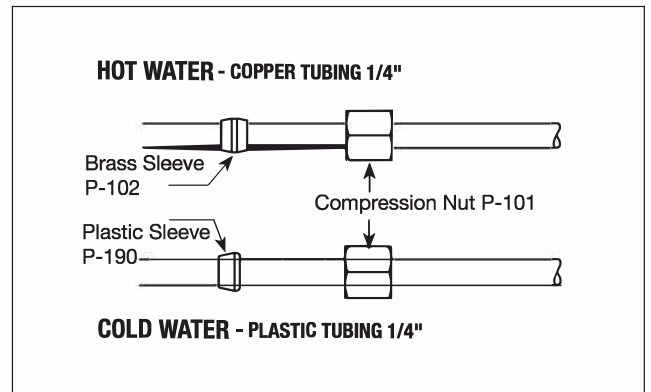
### 3 Install the Push-to-Connect Valve, Cont.

4. Firmly insert both pipes into fitting until at full depth. Verify each pipe is fully inserted. The depth mark will be within 0.005" (0.13mm) of the release collar (Fig. C).



### 4 Configure Water Supply Tubing

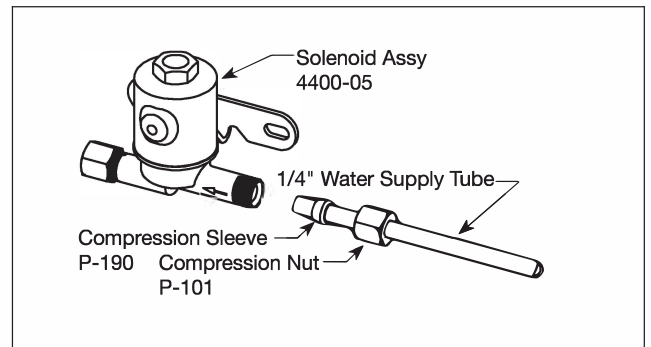
1. Utilizing copper tubing requires a brass compression nut and brass sleeve.
2. Utilizing plastic tubing requires a plastic sleeve on the outside with a brass compression nut.



### 5 Connect Water Supply

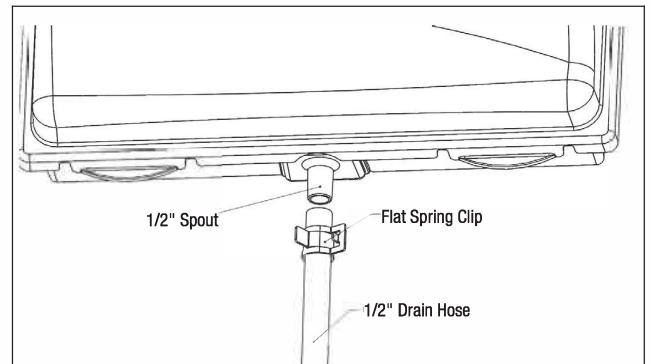
1. Connect 1/4" water supply tube to brass inlet of solenoid.
2. Turn on water supply and check for leaks.

**CAUTION:** Do not use plastic tubing in contact with any hot plenum surface or duct.



### 6 Connect Drain Hose

1. Connect the 1/2" ID drain hose to the spout on the humidifier cabinet using the provided flat spring clip.
2. Run the drain hose to a suitable drain such as floor drain, laundry sink or to a condensate pump (sold separately). Be sure the hose has continuous slope and is not kinked at any point.

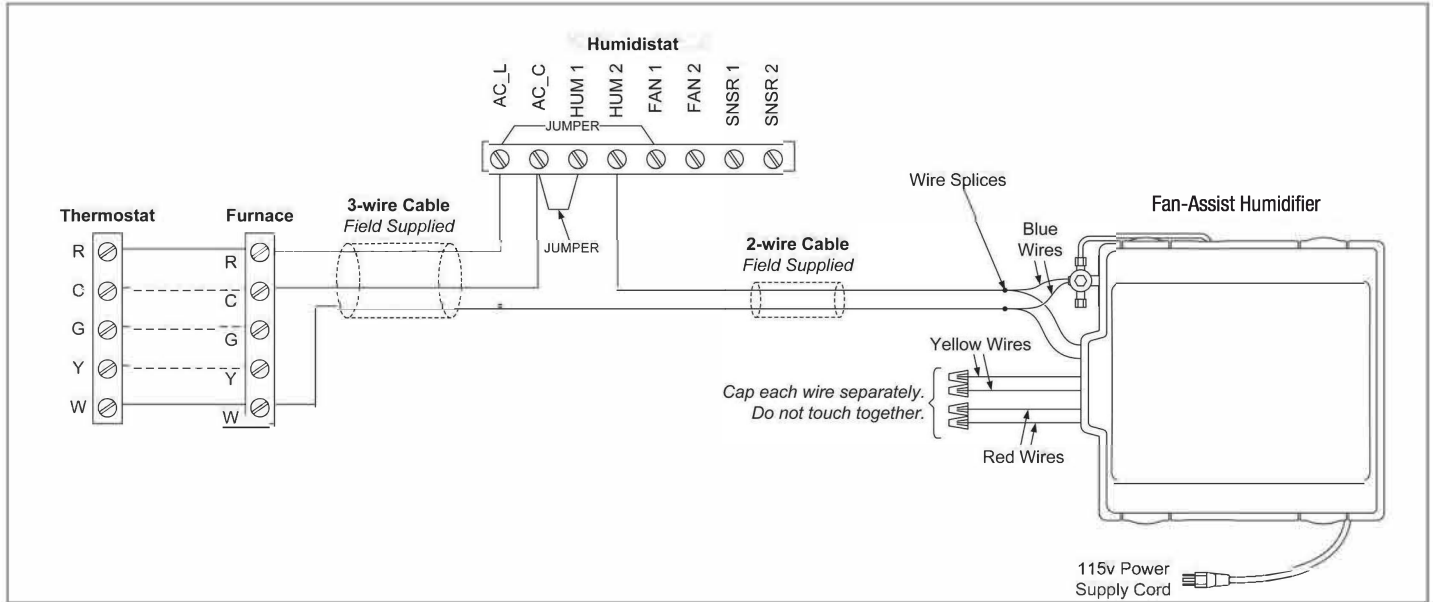


# CONNECTING THE AUTOMATIC CONTROL TO THE HUMIDIFIER

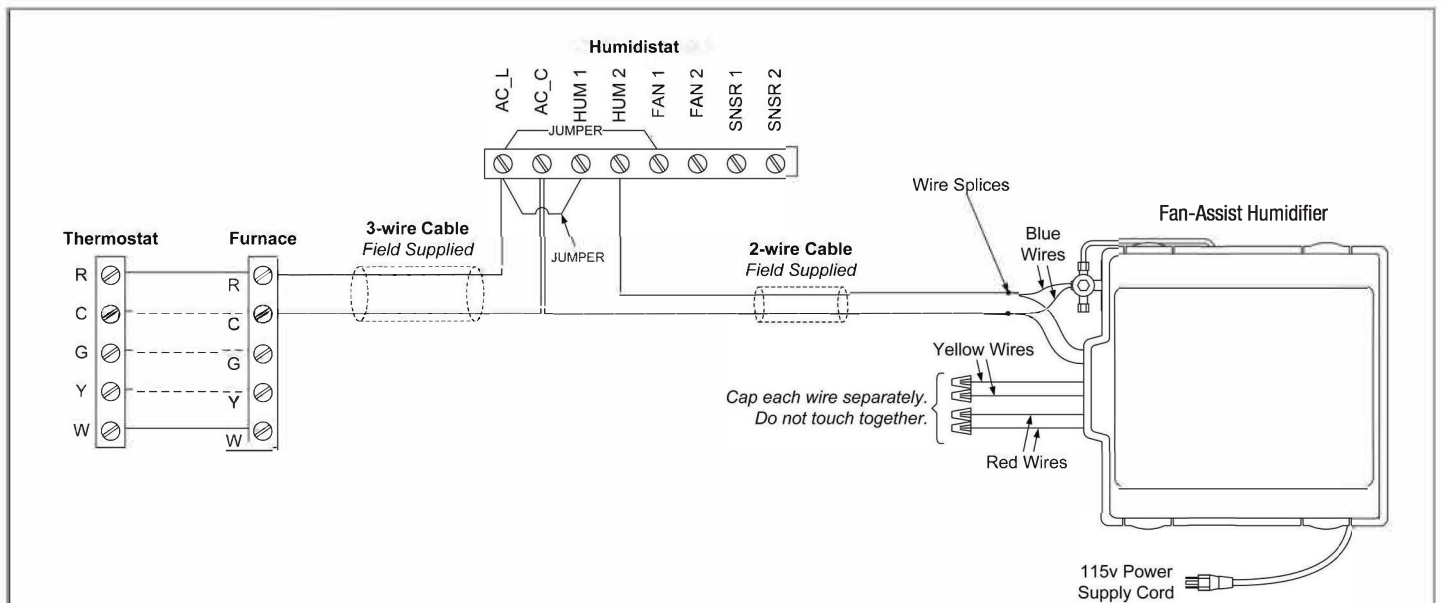
## 7 Wiring the Digital, Automatic Without Relay or Air Proving Switch



### Option 1: Interlocked with call for heat and with use of field-supplied jumper between AC-C and HUM1



### Option 2: Blower activation on humidity call and with use of field-supplied jumper between AC-L and HUM1

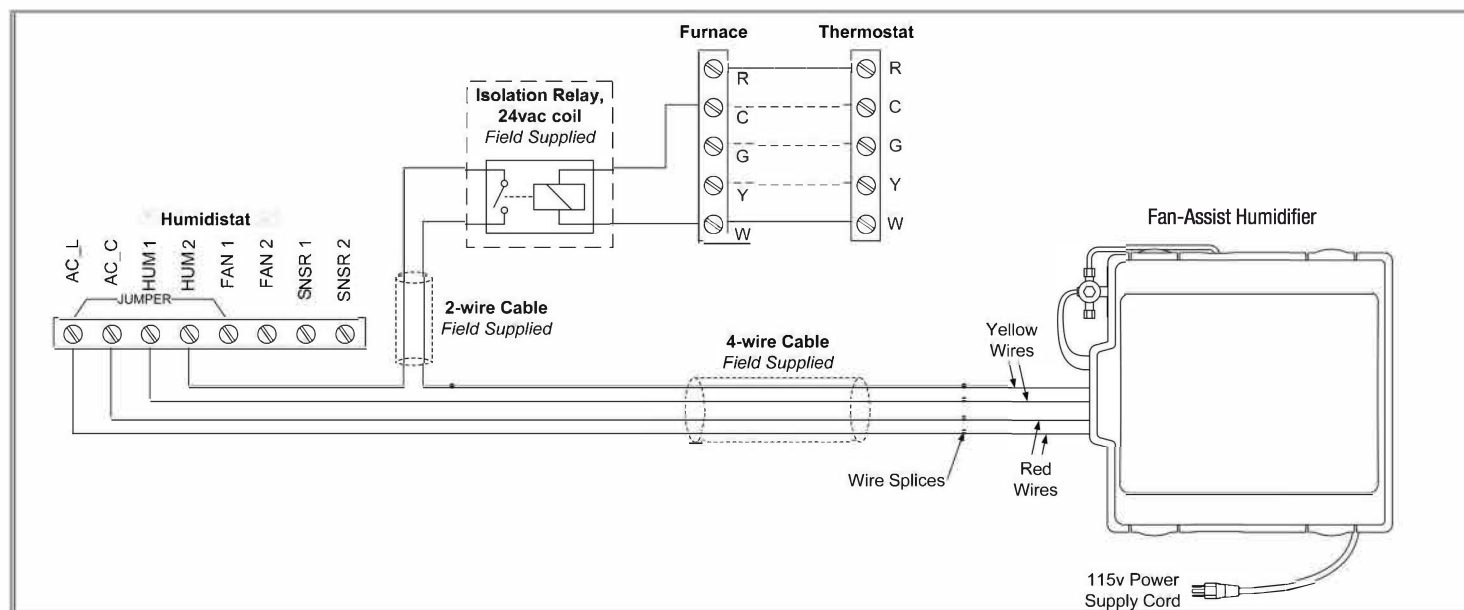


# CONNECTING THE AUTOMATIC CONTROL TO THE HUMIDIFIER & TESTING THE UNIT

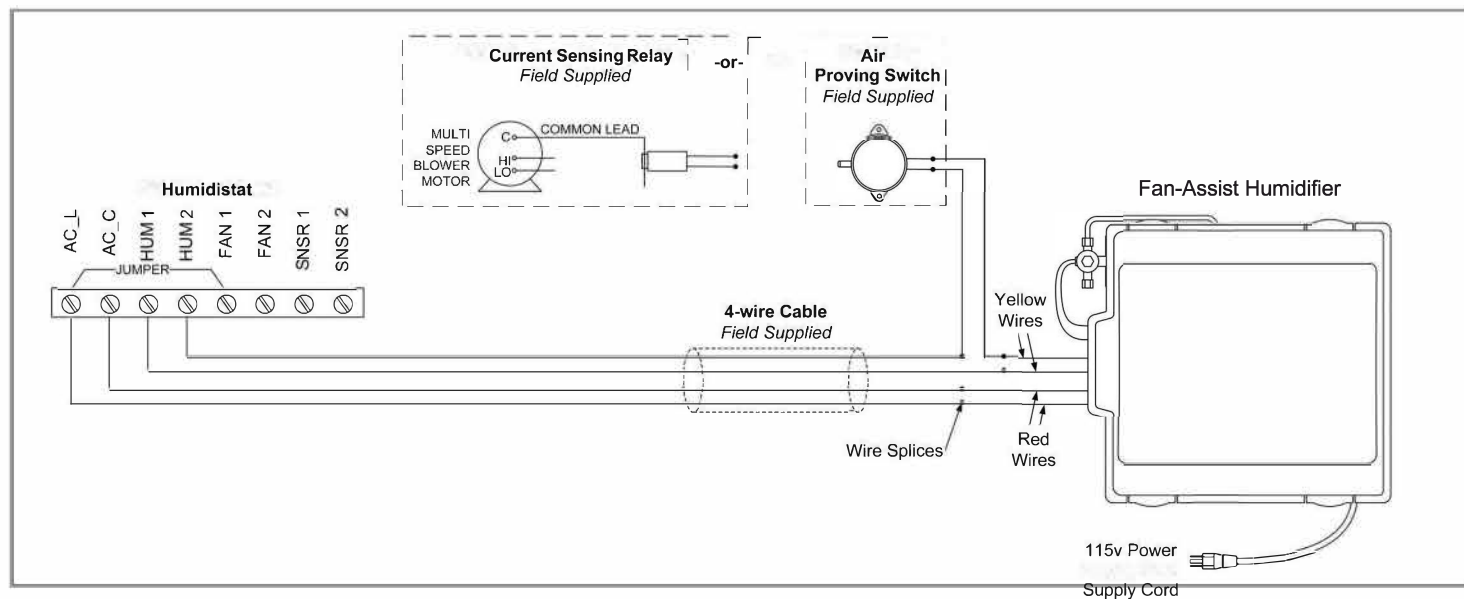
## 7 Utilizing Traditional Wiring to Connect the Digital, Automatic



### Option 3: Interlocked with call for heat and with use of field-supplied 24V isolation relay



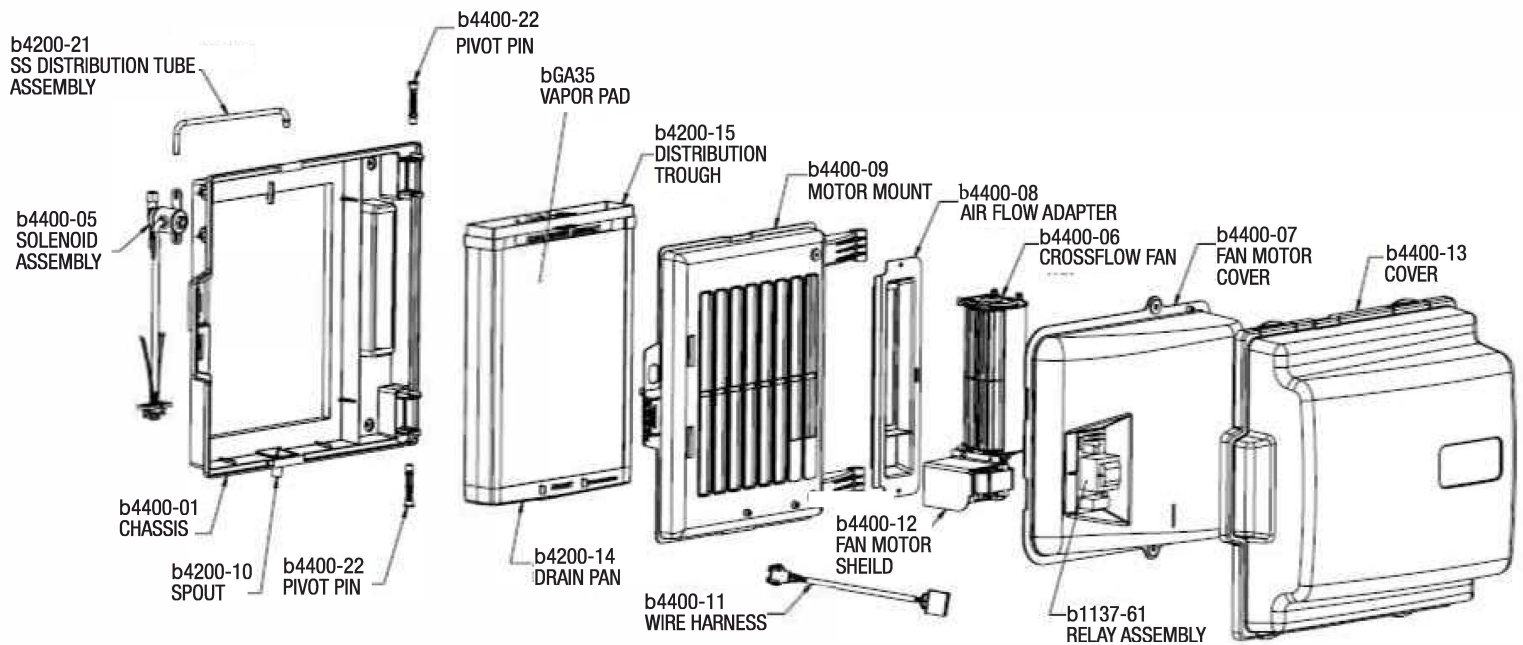
### Option 4: Interlocked with blower and with use of field-supplied sensing relay or air pressure switch



## 8 Test the Operation of the Unit

1. Turn on the water supply.
2. Turn the humidistat RH% to 75%.
3. Turn the furnace on; heat cycle. Make sure the furnace blower motor is on.
4. Once the solenoid valve is energized the valve should open.
5. Check flow of water through distributor trough and Vapor Pad (3.5 GPH of water at a line water pressure of 60PSI).
6. Check fan operation (ON).
7. Reduce RH% to desired setting after test completion.

# BZ33-FPH4400A FAN POWERED HUMIDIFIER PARTS ASSEMBLY



## MAINTENANCE

Replace your size 35 Vapor Pad at the beginning of each heating season.

- Remove Cover
- Release & Open Door
- Remove Vapor Pad Assembly
- Remove & Discard Used Vapor Pad
- Remove Scale Buildup On Frame, If Present
- Reinsert Vapor Pad Assembly
- Close Door
- Reinstall Cover



## LIMITED WARRANTY

Breeze33 Products LLC (Breeze33®) warrants to the ORIGINAL PURCHASER that this Humidifier (the "Product") shall be free from defects in material, workmanship and/or manufacturing under normal use and service. Should your Breeze33 Product prove to be defective in material, workmanship and/or manufacturing under normal use during the durations outlined below, effective from the original purchase date, Breeze33 will replace defective parts or Product as outlined below.

### FIRST FIVE YEARS

If the Product supplied by Breeze33 fails due to defects in material or workmanship within the first five (5) years of purchase date by the ORIGINAL PURCHASER, Breeze33 will replace the defective part or replace the entire Product free of charge.

### WHAT IS NOT COVERED?

This Limited Warranty applies only to Breeze33 Products that are installed by licensed HVAC contractors who are licensed for HVAC installation under applicable local and state laws (a "Licensed Contractor"), and where installation of the Product is completed in strict compliance with (A) all applicable building codes, ordinances, regulations and permits; (B) Breeze33's installation and operation instructions; and (C) good trade practices (each of the foregoing, the "Warranty Conditions"). In the event the Product is not installed by a Licensed Contractor and in strict compliance with each of the Warranty Conditions, this Limited Warranty, and Breeze33's obligations arising hereunder, shall be deemed null and void.

This Limited Warranty does not cover and Breeze33 is not liable for, (i) installation charges and/or costs related to the defective Products and/or parts; (ii) any labor charges and/or costs related to the defective Products and/or parts; (iii) Products which have been damaged as a result of any accident, misuse, abuse, neglect, improper installation or maintenance, the use of abrasive or organic solvent cleaners, modification; (iv) normal wear and tear and cosmetic damage that does effect the functionality of Product; (v) damage caused by acts of nature including but not limited to: wind, fire, flood, collision, mold, power surge or lighting strike; (vi) maintenance or consumable related products including but not limited to: steam canisters, air filters, evaporative water panels or electrode wires; (vii) failure to use the Product in accordance with the instructions provided by Breeze33; and/or (viii) Products not installed by a Licensed Contractor; (ix) Products not installed in strict compliance with the Warranty Conditions; and/or (x) Products for which the Breeze33 Registration have not been completed on or before the Registration Deadline.

### HOW TO OBTAIN WARRANTY SERVICE

Contact our warranty department at [breeze33.com](http://breeze33.com) to report the defect. Return failed product with proof of purchase, your name, and address within 30 days of failure to:

Breeze33 Products LLC  
ATTN: 33Brands Quality Team  
5700 Lee Road South  
Maple Heights, OH 44137

### LIMITATION OF LIABILITY

Breeze33's liability on any claim of any kind, including, without limitation, warranty, negligence and/or breach of contract, shall in no case exceed the purchase price paid by the Customer. IN NO EVENT SHALL BREEZE33 BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO PROPERTY) OR PUNITIVE DAMAGES, DAMAGES IN THE NATURE OF PENALTIES OR SIMILAR OR RELATED DAMAGES OF ANY KIND.

### DISCLAIMER OF WARRANTIES

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