



INSTALLATION MANUAL



*Energy Star
Rated for
FC-85DH-2 &
FC-120DH-2
models.

WHOLE HOUSE DEHUMIDIFIERS

Model: FC-60DH, FC85DH, FC120DH

FC-60DH-2, FC85DH-2, FC100DH-2, & FC120DH-2

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION

This device MUST be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction. Please retain these instructions after installation.

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The Whole House Dehumidifier you have purchased has been designed to be simple to install, operate and maintain. **Read this manual before you install the dehumidifier.**

This product should be installed according to local and national codes and standards.



Parts included in the Whole House Dehumidifier package:

1. Dehumidifier
2. Prefilter
3. MERV 10 Filter
4. Filter Door (Magnetic)
5. Installation Manual

Optional and additional parts:

1. Remote Control Assembly (602609206)
2. Hanging Kit (602609207)
3. SM10C - Collars for 60DH-2 & 85DH-2 (602609204)
4. LG10C - Collars for 100DH-2 & 120DH-2 (602609205)
5. SM10PF - Prefilter for 60DH-2 & 85DH-2 (602609701)
6. LG10PF - Prefilter for 100DH-2 & 120DH-2 (602609702)
7. SMM10 - MERV 10 Filter for 60DH-2 & 85DH-2 (602609703)
8. LGM10 - MERV 10 Filter for 100DH-2 & 120DH-2 (602609704)

TABLE OF CONTENTS

Safety Considerations.....	5
Product Overview.....	6 - 7
Specifications.....	8
Dehumidifier Location.....	8
Applications Above A Finished Space.....	8
Basic Setup - All Applications.....	9
Wiring.....	10 - 13
HVAC Connection Options.....	14 - 15
Operation Instructions.....	16 - 17
Maintenace.....	18 - 19
Troubleshooting.....	19

SAFETY CONSIDERATIONS

Read these instructions and safety precautions before installing or operating this dehumidifier. Do not discard.

This device **MUST** be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation, or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.

WARNING: Installation must be performed by a qualified technician and must comply with local codes. Improper installation may result in injury or property damage.

Always disconnect power before installing or servicing to avoid electrical shock (unless otherwise noted). Failure to disconnect power may result in damage to the device or onboard controls.

Be sure to use caution when lifting the unit, lift only by using the provided handles. Dropping unit may cause physical harm or damage to the equipment.

This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capacities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety. Children should be supervised to ensure that they do not play with the unit.

Never operate a unit with a damaged power cord. If the power cord is damaged it must be replaced by the manufacturer, service agent, or qualified professional to avoid damage to equipment, person, or dwelling.

IMPORTANT NOTES

- Always connect your dehumidifier using a grounded, dedicated electrical connection that is GFCI protected with at least 15 amp capacity.
- The use of any other type of wiring will void your warranty.
- Be sure to follow GFCI manufacturer's maintenance instructions. You will typically need to test the operation of the trip circuit monthly.
- Do not insert objects or your fingers into the inlet or discharge.
- Do not use water to clean the exterior of the dehumidifier. To clean unit, unplug from power, then use a damp cloth to wipe the exterior.
- Do not stand on dehumidifier or place objects on it.
- Do not use with extension cord or plug adapter.
- Wait 24 hours before running the unit if it was not shipped or stored in the upright position.
- A drain pan must be installed under the unit if it is installed above a living space or area that can be damaged from water leakage.
- Do not use in pool applications. Pool chemicals can damage the dehumidifier.
- Do not use any solvent or cleaner on or near the circuit board. Chemicals can damage circuit board components and void the warranty.
- Do not use dehumidification to prevent window condensation in the winter. If condensation occurs address condensation with the use of ventilation to lower indoor humidity in the winter.
- To ensure quiet operation, do not place directly on structural supports.
- Install unit with ease of access for maintenance purposes.



PRODUCT OVERVIEW

Field Controls Dehumidifier controls the humidity level in your entire home and ensures the home is maintained at the proper humidity levels through high performance and efficiency. The blower inside the unit draws air into the cabinet through a washable pre-filter and MERV 10 filter prior to having the moisture removed and released back into the home.

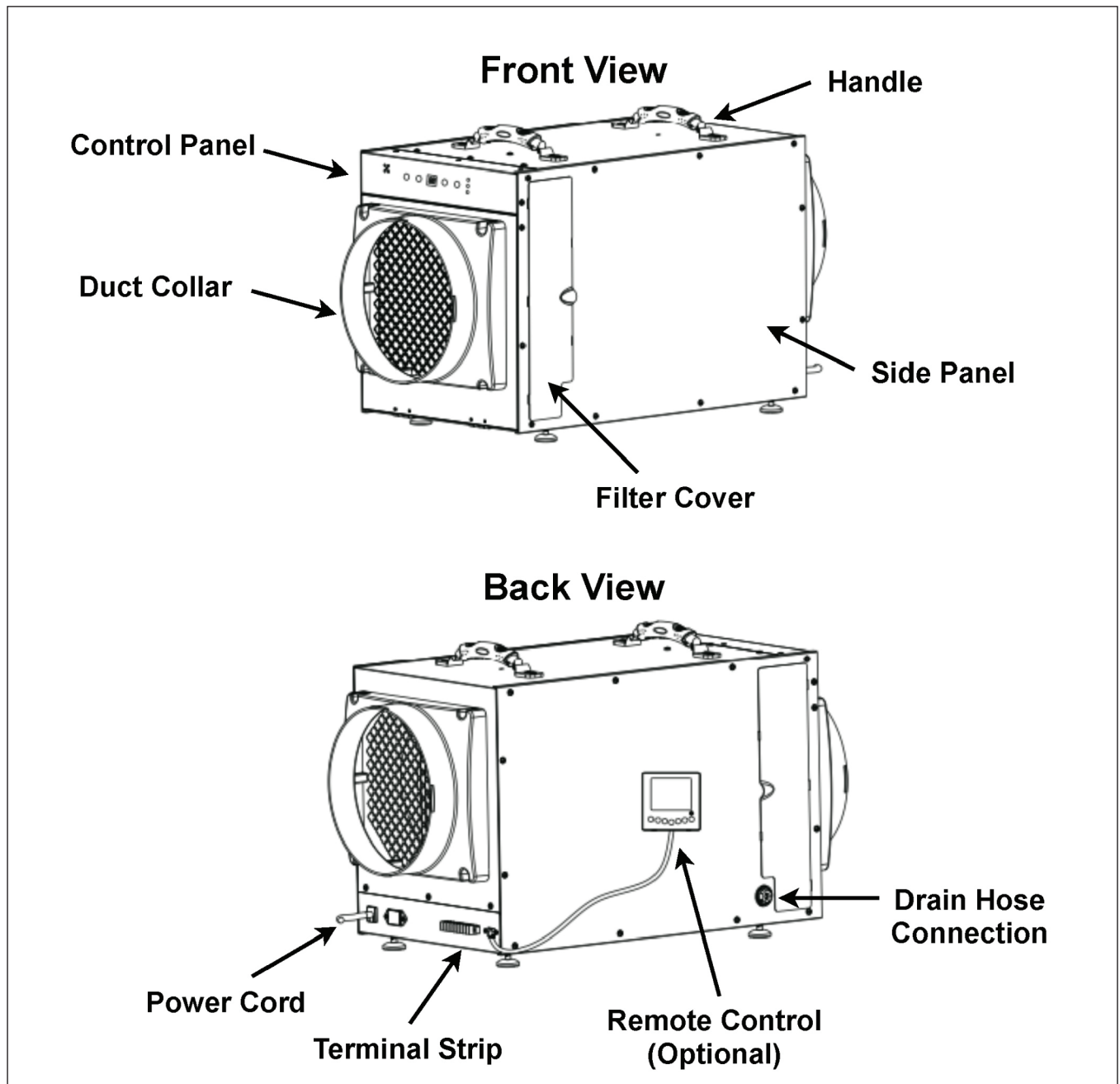


Figure 1: Product Overview

BENEFITS OF MAINTAINING THE IDEAL HUMIDITY LEVEL



The optimal humidity range defined by industry experts and health professional is between 40-60% on an average annual basis. The American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) state that when indoor humidity exceeds the 60% threshold, the home is more susceptible to bacteria, viruses, mold, and mildew.

Dew points and relative humidity (RH) affect the way your body senses temperature. Higher humidity levels cause the air to feel much hotter than the actual temperature. When RH is maintained properly, your cooling equipment may not run as often because dehumidified air feels cooler.



Optimum relative humidity range for human comfort and health

(a decrease in bar height indicates a decrease in the effect for each of the items)

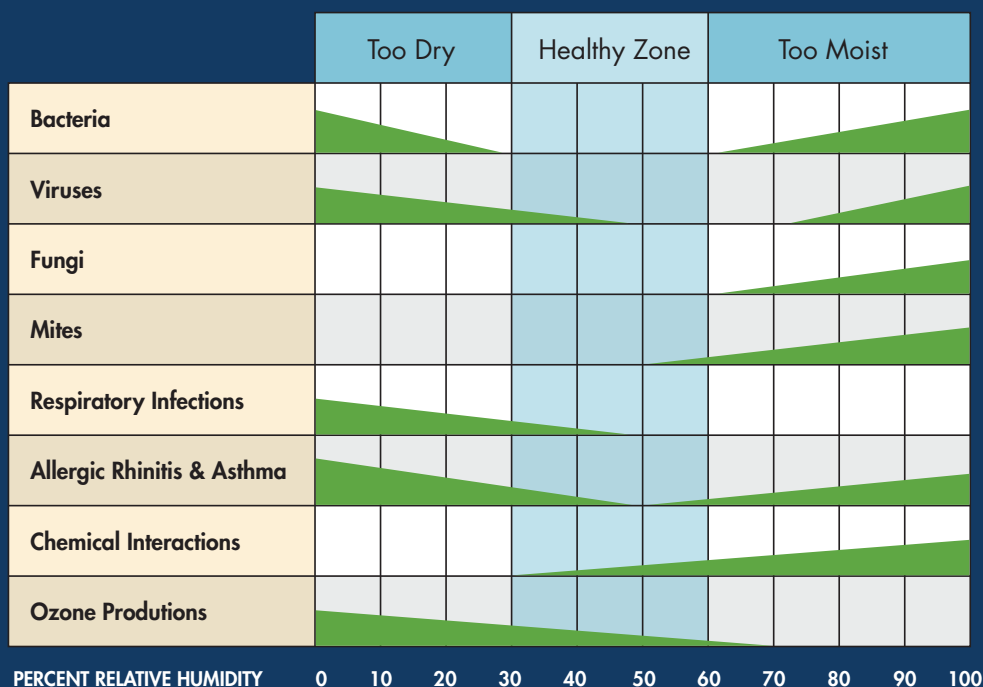


Figure 2: Optimum Relative Humidity Range for Human Comfort and Health

HOW THE DEHUMIDIFIER WORKS

Field Controls dehumidifiers use an integrated humidistat to monitor the conditioned space. When relative humidity goes above the selected set point, the dehumidifier will energize. A blower inside the dehumidifier draws the air into the cabinet where it passes through a washable pre-filter and a MERV 10 filter. The air is then drawn across an evaporator coil, which is cooler than the dew point causing the moisture to condense on the coil and drip down to the pan and out the drain. The air is then moved over another coil to be reheated before it is sent back into the home. The air leaving the dehumidifier will be warmer and drier than the air that entered.



SPECIFICATIONS

MODEL	FC-120DH-2	FC-100DH-2	FC-85DH-2	FC-60DH-2
CAPACITY @ 80°F/60%RH:	120 pints per day	100 pints per day	85 pints per day	60 pints per day
CAPACITY @ 73°F/60%RH:	77.15 pints per day	84.44 pints per day	53 pints per day	44.5 pints per day
POWER SUPPLY	115V/60Hz	115V/60Hz	115V/60Hz	115V/60Hz
OUTLET REQUIREMENT	15 Amp, 3-prong, GFCI	15 Amp, 3-prong, GFCI	15 Amp, 3-prong GFCI	15 Amp, 3-prong GFCI
OPERATING TEMP RANGE	33 - 105°F	36 - 102°F	33 - 105°F	33 - 105°F
OPERATING RELATIVE HUMIDITY RANGE	36% - 90%	36% - 90%	36% - 90%	36% - 90%
AIRFLOW @ 0.0" SP	225 CFM	225 CFM	201 CFM	196 CFM
AIRFLOW @ 0.2" SP	190 CFM	190 CFM	162 CFM	156 CFM
AIRFLOW @ 0.4" SP	150 CFM	150 CFM	106 CFM	102 CFM
COP	1.86 L/kWh	2.16 L/kWh	1.87 L/kWh	1.88 L/kWh
REFRIGERANT	R410A	R32	R410A	R410A
AMPERAGE USAGE	7.6 Amps	6.5 Amps	5.3 Amps	4.05 Amps
SOUND LEVEL	60 dBA	59 dBA	59 dBA	59 dBA
DIMENSIONS (L x W x H)	23.75" x 14" x 16"	23.75" x 14" x 16"	21.7" x 12" x 12"	21.7" x 12" x 12"

DEHUMIDIFIER LOCATION

- Electrical service access and drain cleaning will require the removal of the side panel. Allow applicable space for service on the side of unit.
- Filters can be accessed from either side of the unit. Allow enough space for filter to remove and reinstall the filter.
- If unit is going to be in an area not readily accessible (Attic or Crawl Space) consider a control such as the Field Controls Remote Control Model WHD1-RCK which can be mounted in the living space and wired to the unit.
- The area where the dehumidifier is located should be sealed with a vapor barrier.
- If the unit is installed in a crawl space, all vents should be sealed.
- For proper ventilation, do not position the inlet or discharge against a wall. The inlet needs a minimum of 12" clearance and the discharge require a minimum of 36" clearance.
- For the best air diffusion, install the unit so that a side panel faces the wall.
- Field Controls dehumidifiers are only intended for operation when the unit is upright and level with the feet on the ground (unless using a Field Controls Hanging Kit).

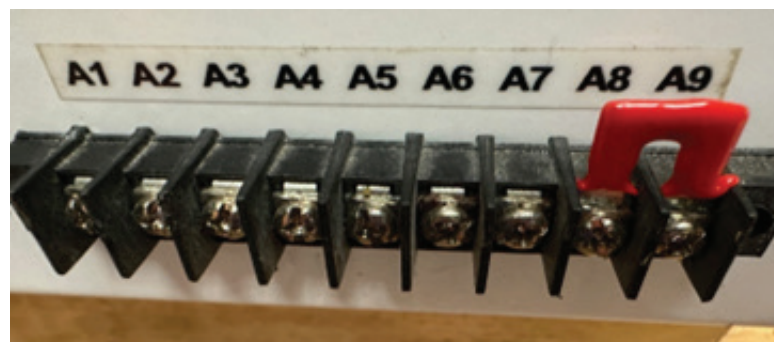
APPLICATIONS ABOVE A FINISHED SPACE

ALWAYS ADD A CONDENSATE PAN UNDER THE DEHUMIDIFIER WHEN LOCATING IT ABOVE A FINISHED SPACE. Make sure to adhere to local codes regarding draining of the condensate pan. If a condensate pump is needed, make sure the pump is located inside the pan as well. Install a float switch in the condensate pan and use the overflow wires/terminals on the condensate pump to turn off the dehumidifier if overflow should occur. See Wiring Diagram.



SETUP - ALL APPLICATIONS

1. Place the dehumidifier on a level surface.
 - A. Do not place unit directly on vapor barrier.
 - B. NOTE: If the unit has been turned or flipped so that the compressor did not remain upright, place unit on a level surface and wait a minimum of 2 hours before proceeding.
2. Duct Collars
 - A. Attach duct collars to inlet and outlet of dehumidifier with included screws. While not needed for freestanding installation, they can be used to help reduce the sound level.
 - B. Maximum recommended combined duct length (Inlet and Outlet) is 10'.
 - C. Note that for 60/85-pint units there will only be screws provided as 2 can be reused from the unit.
3. Set up the drain line.
 - A. The drain line should be routed to a suitable drain option.
 - B. The drain must flow down with no loops or dips.
 - C. Recommended Drain Option - Transition to PVC Pipe
 - I. Cut a piece of 3/4" OD PVC that is approximately 6" long.
 - II. Attach PVC + elbow to a 3/4" OD piece of PVC to drain. Keep the length of PVC as short as possible.
 - III. Insert the open end of the dehumidifier drain tube into a 6" piece of PVC so that it does not extend into elbow fitting.
 - IV. For proper flow, a minimum downward slope of 1" per 10' run is required.
 - V. Support the PVC tubing so that it maintains a smooth downward flow to drain.
4. Plug unit into a dedicated 15-amp GFCI protected outlet.
5. Auxiliary Terminals:
 - A. Auxiliary Terminals A5/A6 (Normally Open Accessory)
 - I. The A5/A6 on the terminal strip can be used as a safety switch for an external float switch or condensate pump with Normally Open Contacts.
 - II. If an E4 error occurs immediately, remove the wires from terminal strip and unplug the dehumidifier. Plug in dehumidifier with nothing attached to terminal strips. If E4 occurs again, contact Field Controls customer support. If not, see step three.
 - III. Double check that external device is intended to be Normally Open. You may need to switch to Normally Closed (see below). Note that you may need to unplug the unit to reset the error code.
 - B. Auxiliary Terminals A8/A9 (Normally Closed Accessory)
 - I. The A8/A9 on the terminal strip can be used as a safety switch for an external float switch or condensate pump with Normally Open Contacts.
 - II. If an E4 error occurs immediately, remove the wires from terminal strips. If E4 occurs again, contact Field Controls customer support. If not, see step three.
 - III. Double check that external device is intended to be Normally Open. You may need to switch to Normally Closed (see below). Note you may need to unplug the unit to reset the error code.
 - IV. Double check that external device is intended to be Normally Closed. You may need to switch to Normally Open (see below). Note that you need to unplug the unit to reset the error code.



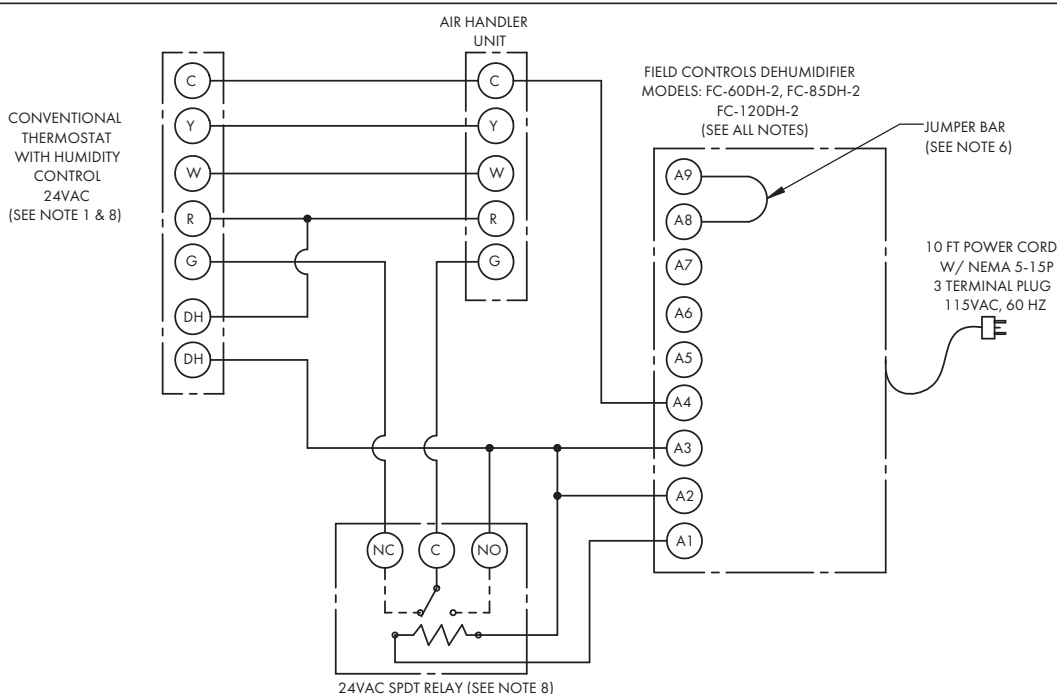


WIRING

This dehumidifier will automatically detect external controls. It is **NOT** necessary to adjust the dehumidifier display panel or control board. Once connected to the external controls, the dehumidifier buttons will no longer be active.

NOTE: Check local building codes prior to connecting the dehumidifier to the HVAC system.

TERMINALS	TERMINAL FUNCTIONS
A1	24V Hot from dehumidifier to fan control to energize fan on AHU if dehumidifier is running. (Optional - may be handled by thermostat)
A2	24V Hot to fan relay on dehumidifier control board. When dehumidifier turns on, relay closes allowing 24V to go back to AHU through A1. (Receives power from jumper to A3)
A3	24V Hot. Connects to one side of DH terminals on AHU control, such that when DH relay closes the 24V hot goes to dehumidifier to energize it.
A4	24V Common. Together with A3 energizes the relay on dehumidifier control board to turn the dehumidifier on.
A4	Normally Open Float Switch Contact
A6	Normally Open Float Switch Contact
A7	Not Used
A8	Normally Closed Float Switch Contact
A9	Normally Closed Float Switch Contact



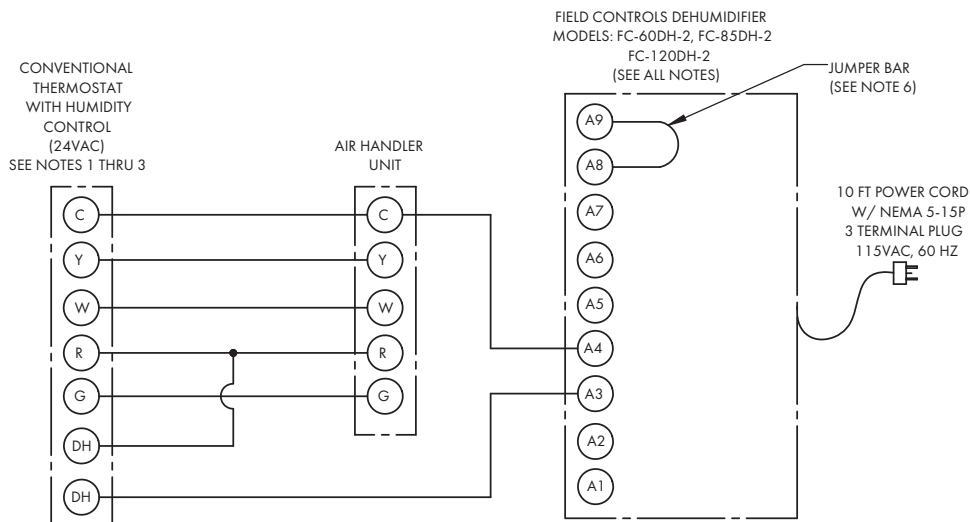
NOTES:

1. THERMOSTAT WITH BUILT-IN HUMIDISTAT FUNCTION.
2. THERMOSTAT CONTROLS CENTRAL FAN OPERATION AND DEHUMIDIFIER.
3. THERMOSTAT SET TO DEHUMIDIFICATION FUNCTION. THERMOSTAT TO ENERGIZE DEHUMIDIFIER WHEN ROOM RH IS ABOVE THERMOSTAT RH SET POINT.
4. DEHUMIDIFIER CAN OPERATE IN HEATING AND COOLING AHU MODES OF OPERATION.
5. THE AIR HANDLER CENTRAL FAN IS ENERGIZED WHEN DEHUMIDIFICATION IS ACTIVE.
6. DEHUMIDIFIER TERMINALS A8-A9 REQUIRE A NORMALLY CLOSED CONTACT DEVICE FOR APPLIANCE TO OPERATE. DEHUMIDIFIER IS SHIPPED FROM FACTORY WITH JUMPER INSTALLED ACROSS TERMINALS A8-A9.
7. PLUG DEHUMIDIFIER POWER CORD INTO 15 AMP DEDICATED GFI OUTLET.
8. RELAY REQUIRED TO PREVENT TRANSIENT POWER SPIKE AND POTENTIAL BACKFEED ISSUE IF USING THERMOSTAT WITHOUT ISOLATED RELAYS FOR FAN HEATING AND COOLING CONTROL.

Figure 3: Wiring Diagram, Conv HVAC Thermostat W/ DH Relay



WIRING

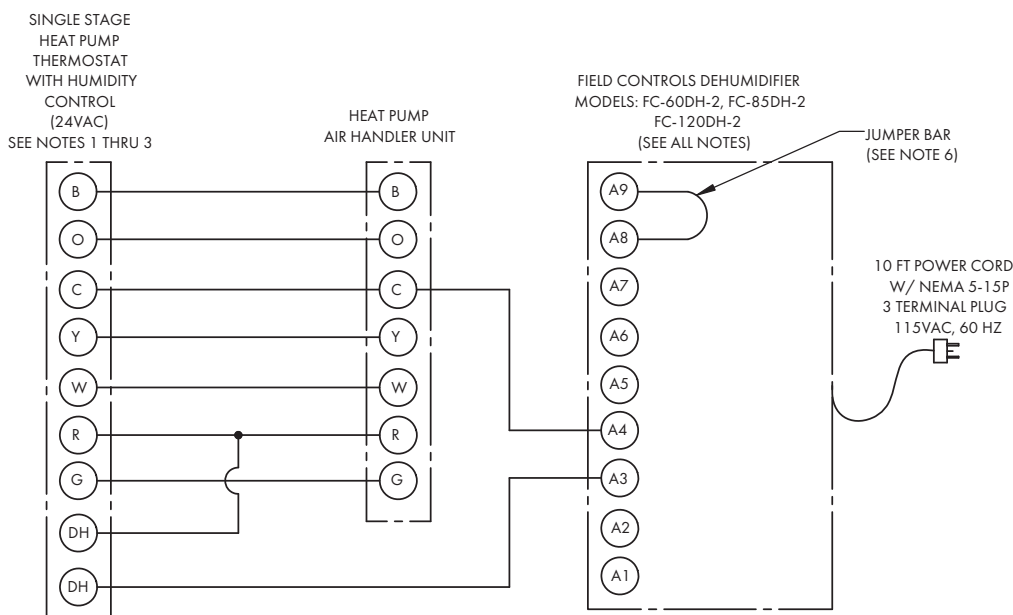


NOTES:

1. THERMOSTAT BUILT-IN HUMIDISTAT FUNCTION.
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7. PLUG DEHUMIDIFIER POWER CORD INTO 15 AMP DEDICATED GFI OUTLET.

P/N: 780304102

Figure 4: Wiring Diagram, CONV HVAC System, Thermostat W/ DH



NOTES:

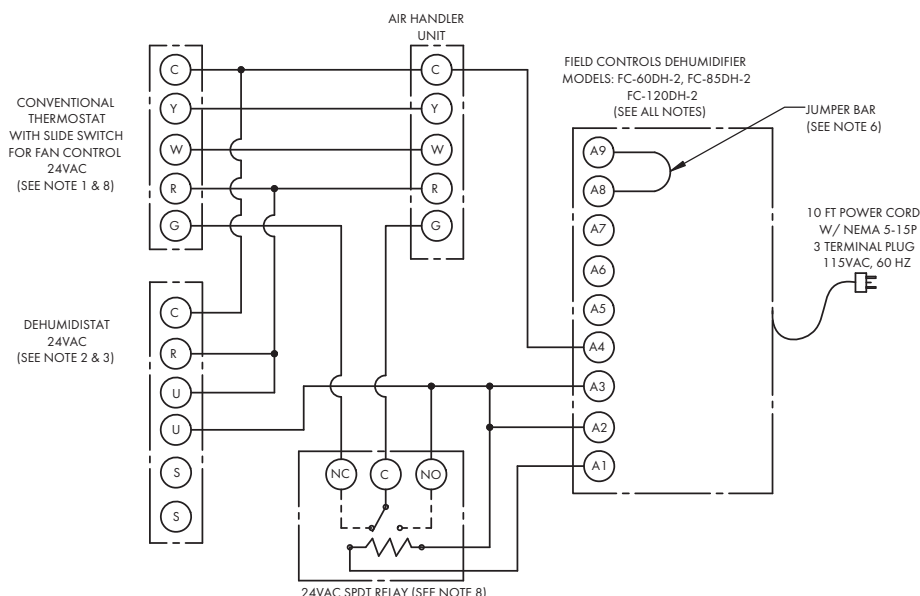
1. THERMOSTAT WITH BUILT-IN HUMIDISTAT FUNCTION.
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3. THERMOSTAT SET TO DEHUMIDIFICATION FUNCTION. THERMOSTAT TO ENERGIZE DEHUMIDIFIER WHEN ROOM RH IS ABOVE THERMOSTAT RH SET POINT.
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7. PLUG DEHUMIDIFIER POWER CORD INTO 15 AMP DEDICATED GFI OUTLET.

P/N: 780304103

Figure 5: Wiring Diagram, Heat Pump HVAC System, Thermostat W/ DH



WIRING

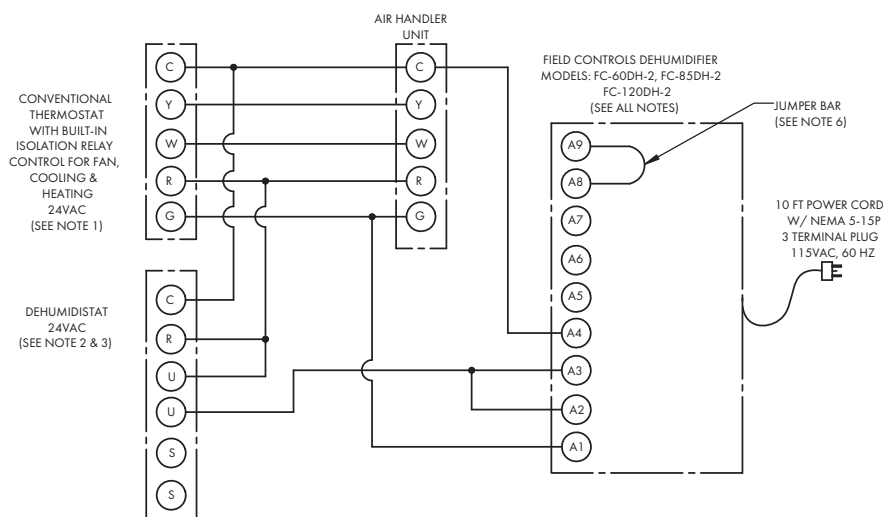


NOTES:

1. CONVENTIONAL THERMOSTAT WITH SLIDE SWITCH FOR CENTRAL FAN CONTROL (AUTO & ON) FUNCTION.
2. DEHUMIDISTAT CONTROLS CENTRAL FAN OPERATION DURING CALL FOR DEHUMIDIFICATION.
3. DEHUMIDISTAT ENERGIZES DEHUMIDIFIER WHEN ROOM RH IS ABOVE DEHUMIDISTAT SET POINT.
4. DEHUMIDIFIER CAN OPERATE IN HEATING AND COOLING AHU MODES OF OPERATION.
5. THE AIR HANDLER CENTRAL FAN IS ENERGIZED WHEN DEHUMIDIFICATION IS ACTIVE.
6. DEHUMIDIFIER TERMINALS A8-A9 REQUIRE A NORMALLY CLOSED CONTACT DEVICE FOR APPLIANCE TO OPERATE. DEHUMIDIFIER IS SHIPPED FROM FACTORY WITH JUMPER INSTALLED ACROSS TERMINALS A8-A9.
7. PLUG DEHUMIDIFIER POWER CORD INTO 15 AMP DEDICATED GFI OUTLET.
8. RELAY REQUIRED TO PREVENT TRANSIENT POWER SPIKE AND POTENTIAL BACKFEED ISSUE IF USING THERMOSTAT WITHOUT ISOLATED INTERNAL RELAYS FOR FAN, HEATING AND COOLING CONTROL.

P/N: 780304104

Figure 6: Wiring Diagram, CONV HVAC Dehumidistat, Thermostat



NOTES:

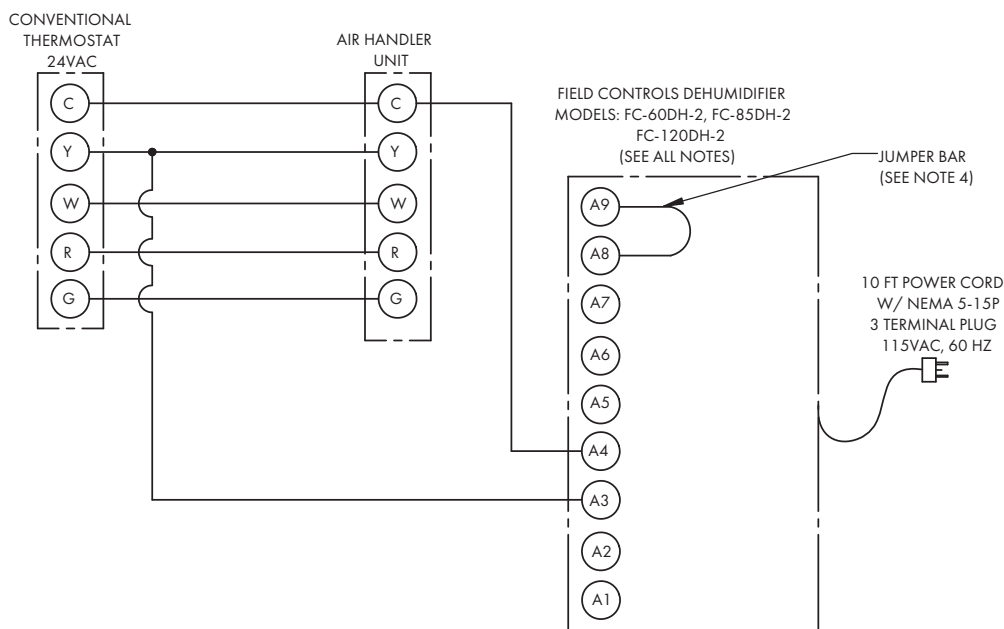
1. CONVENTIONAL THERMOSTAT WITH INTERNAL ISOLATION RELAYS FOR FAN, HEATING AND COOLING CONTROL FUNCTIONS. IF NOT SURE ABOUT THERMOSTAT DESIGN, USE WIRING DIAGRAM: 780304104 TO PREVENT TRANSIENT AND POTENTIAL BACKFEED POWER ISSUES.
2. DEHUMIDISTAT CONTROLS CENTRAL FAN OPERATION DURING CALL FOR DEHUMIDIFICATION.
3. DEHUMIDISTAT ENERGIZES DEHUMIDIFIER WHEN ROOM RH IS ABOVE DEHUMIDISTAT SET POINT.
4. DEHUMIDIFIER CAN OPERATE IN HEATING AND COOLING AHU MODES OF OPERATION.
5. THE AIR HANDLER CENTRAL FAN IS ENERGIZED WHEN DEHUMIDIFICATION IS ACTIVE.
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7. PLUG DEHUMIDIFIER POWER CORD TO 15 AMP DEDICATED GFI OUTLET.

P/N: 780304105

Figure 7: Wiring Diagram, CONV HVAC Dehumidistat, Thermostat



WIRING



NOTES:

1. DEHUMIDIFIER IS ENERGIZED ONLY WHEN THERMOSTAT/HVAC SYSTEM IS IN COOLING MODE.
2. THERMOSTAT CONTROLS CENTRAL FAN OPERATION DURING CALL FOR COOLING.
3. NO HUMIDITY CONTROLS IS INSTALLED.
4. DEHUMIDIFIER TERMINALS A8-A9 REQUIRE NORMALLY CLOSED CONTACT DEVICE FOR APPLIANCE TO OPERATE. DEHUMIDIFIER IS SHIPPED FROM FACTORY WITH JUMPER INSTALLED ACROSS TERMINALS A8-A9.
5. PLUG DEHUMIDIFIER POWER CORD INTO 15 AMP DEDICATED GFI OUTLET.

P/N: 780304106

Figure 8: Wiring Diagram, CONV HVAC Dehum, Cooling Only On

1. Connect controls per wiring diagram.
2. A 24VAC input to terminal #A3 and #A4 from the HVAC controller will turn the machine “on”. The power light on the dehumidifier display will light up and the two-character LED display will read “CC” for central control. The unit will run the HVAC controller has met the desired humidity.
3. When the humidity level is satisfied, the HVAC controller will remove the external 24VAC supply signal. This will cause the power light on the dehumidifier to turn off and the two-character display will now read “ - - ”.
4. If a power outage occurs, the dehumidifier will return to the state it was in and cycle on and off based on the 24VAC external control signal.
5. If desired, the dehumidifier can turn the HVAC fan on. To do so, install a jumper on the dehumidifier terminal strip between #A2 and #A3. Connect terminal #A1 back to the HVAC controller as shown on previous page (Figure 3). The fan will come on whenever the dehumidifier is running.



HVAC CONNECTION OPTIONS

1. **Dedicated Return Application:** The dehumidifier is connected to either the supply side or the return side of the air handler (supply side shown).

NOTES

- The maximum combined length of ducting for the dehumidifier is 10'.
- Air handler fan should be set up to run while dehumidifier is running.

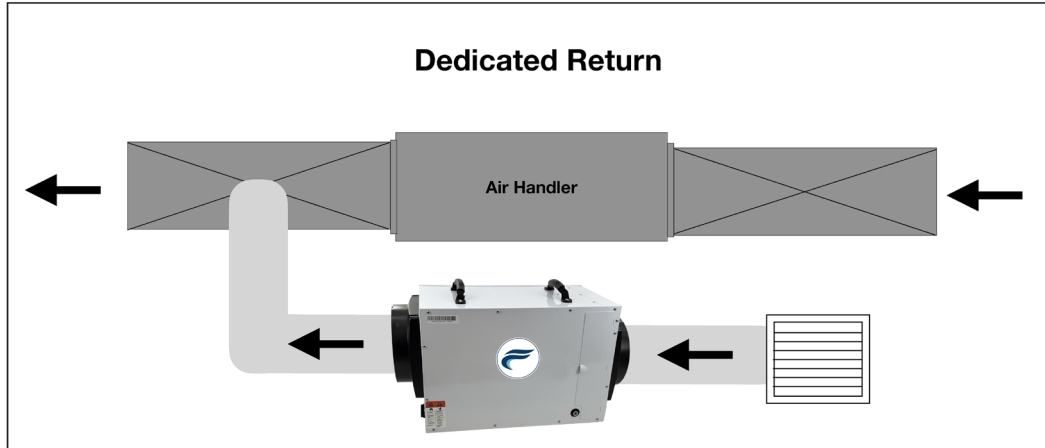


Figure 4: Dedicated Return Application

2. **Bypass Application:** Some air bypasses the air handler to be conditioned by the dehumidifier.

NOTES

- For this method, you may need a damper to prevent backflow.
- The maximum combined length of ducting for the dehumidifier is 10'.
- Air handler fan should be set up to run while dehumidifier is running.

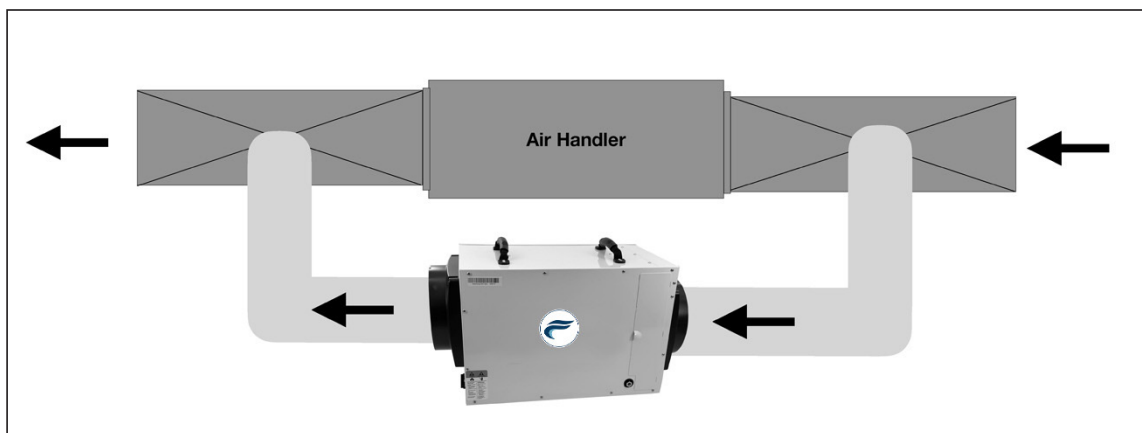


Figure 5: Bypass Application



HVAC CONNECTION OPTIONS - CONTINUED

3. **Injection Application:** Both sides of the dehumidifier are connected to the same side of the air handler (either supply or return). With this setup, a damper may be needed to prevent backflow.

NOTES

- For this method, you may need a damper to prevent backflow.
- The maximum combined length of ducting for the dehumidifier is 10'.
- Air handler fan should be set up to run while dehumidifier is running.

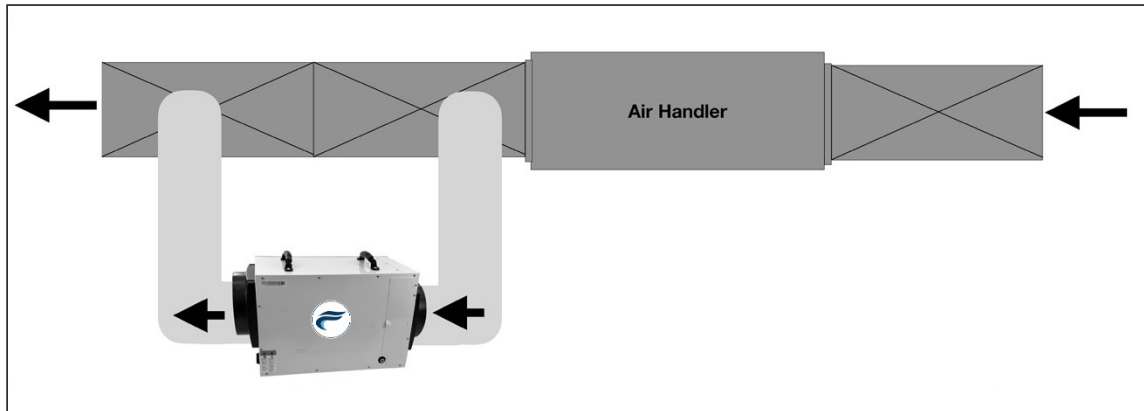


Figure 6: Injection Application

4. **Dedicated Return to Dedicated Supply (Remote Control):** Independent ducting should use a Field Controls Wired Remote (WHD1-RCK). See How to Use a Remote Control instructions. This is useful if:
 1. Install dehumidifier in one room with the conditioned air ducted into a second room that contains the remote. Select the ducted option using “M” (mode) button on the remote.
 2. Install dehumidifier in crawlspace or basement and control the dehumidifier from a different room. Select the dehumidifier sensor option using the “M” (mode) button on the remote.



Figure 7: Dedicated Return To A Dedicated Supply Application

5. **Standalone Installation:** It is also possible to use the dehumidifier without any ducting.



OPERATION INSTRUCTIONS

NOTES

- Fan will continue to operate for 1 minute after the unit has shut off. **DO NOT DISCONNECT THE POWER CORD TO FORCE THE UNIT TO STOP.**
- During normal operation, dehumidifier will automatically drain due to gravity.
- To move or store the machine, wait at least 10 minutes to allow the unit to completely defrost. Once defrosted, lean the dehumidifier towards the drain to ensure it is completely dry.

DEHUMIDIFIER LOCATION

1. **ON/OFF Power**
Press the on/off button and the machine will start running. Press the button again to turn the machine off.
2. **UP/DOWN ARROWS**
Use the Up and Down arrow buttons to adjust the humidity level set-point. (Typically 50-55%)
3. **MODE BUTTON**
Use the Mode button to switch between dehumidification and a ducted application.
4. **TEMPERATURE BUTTON**
The T button changes the temperature reading on your remote. The remote comes from the factory in Celsius. Press this button once and it will switch to Fahrenheit.
5. **CONTINUOUS BUTTON**
Press this button to switch the unit into continuous mode. "Cont" will appear on the display to indicate continuous mode.
6. **DRAIN PUMP**
Not used for these models.

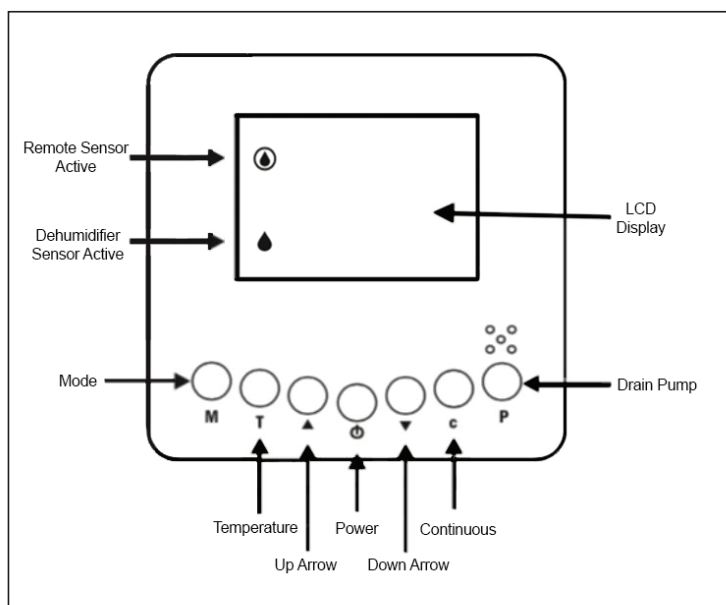


Figure 7: Remote Control

NOTE: Symbols shown in figure will only appear when the dehumidifier is powered ON.



OPERATION INSTRUCTIONS - CONTINUED

NOTE: While connected to the HVAC system, display functions on the dehumidifier will not work.

1. Power Key 
 - A. Use this button to turn on the dehumidifier on and off.
 - B. Press once to turn the machine on. You will hear two beeps and the  lights will illuminate green (solid or flashing depending on mode).
 - C. Press the power button a second time and you will hear one beep as the machine shuts down. Note that there is a 1-minute fan delay.
2. Arrow Buttons  
 - A. Use the up and down arrows to set the desired humidity set-point on the display screen .
 - B. The set-point can be any number between 36% - 90%. When the indoor humidity is higher than the set-point, the unit will operate.
 - C. Keep in mind that the displayed humidity levels are approximate (+/- 5%)
3. Continuous Mode 
 - A. To set the unit to run continuously, regardless of humidity, simply use the down arrow to set the humidity below 36%.
 - B. The continuous light will illuminate green, and the display will show "CO".
 - C. To switch back to normal humidistat operation, use the arrow keys to move the set point above 36%.

INDICATOR LIGHTS ON THE DISPLAY

1. Humidity Display Screen 
 - A. The display screen has two functions:
 - I. When the unit is powered on, it shows the humidity of the space.
 - II. When setting the desired humidity level, the screen will show the set-point. After a brief delay, it will revert to the current humidity of the space.
2. Power Indicator Light 
 - A. This light indicates that the unit is properly powered on and ready to operate.
 - B. Always make sure the unit is "off" prior to performing any service, unless otherwise indicated.
 - C. If the humidity is above the set-point, the light will be solid green and the machine will operate.
 - D. If the humidity is below the set-point, the unit will be in standby mode and the light will be flashing.
3. Continuous Mode/Auto Defrost Light 
 - A. When the light illuminates green, it indicates that the dehumidifier is set to continuous operation mode.
 - B. When the light illuminates red, it means the unit is in auto defrost mode and clearing the evaporator coils of any ice buildup.
4. Compressor Light 
 - A. When the light illuminates red, it indicates the compressor has been initiated but is currently warming up.
 - B. Once the light switched to green, it means the compressor is currently in working status.



MAINTENANCE

WARNING: Always unplug the dehumidifier before performing any maintenance.

Cleaning Exterior Shell

Use a soft damp cloth to clean the exterior of the unit. Do not use any soap or solvents.

Coil Maintenance

At least once per year, spray the coils with an approved coil clean. The coil cleaner should be self-rinsing, foaming cleaner, such as WEB® Coil Cleaner.

Filter Maintenance

1. Pre-filter: Vacuum or wash with warm water (no soap).
2. MERV 10 / HEPA/ Carbon: Check at least once per year and replace as needed.

Electrical Access

1. Remove the screws on the side panel.
2. Remove the screw on the control board cover.

Cleaning the Gravity Drain

1. Unplug the dehumidifier
2. Mix a 16-ounce solution of vinegar (4 ounces white vinegar + 12 ounces water) or bleach (1 ounce bleach + 15 ounces of water)
3. Remove the filters so you have access to the drain tray.
4. Pour the cleaning solution into the drain tray at the base of the coils. If any cleaning solution gets on the coils, flush with water.
5. Allow solution to soak for 15 minutes.

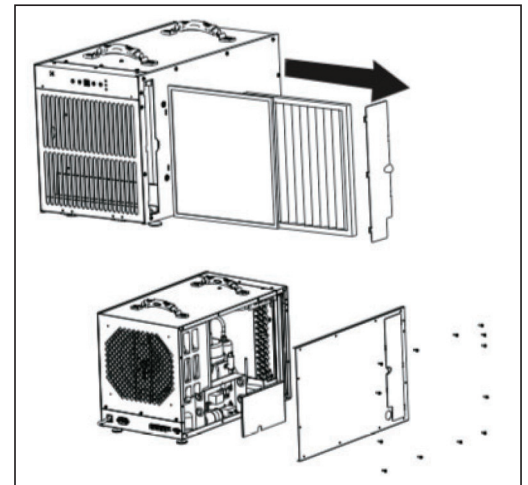


Figure 8: Cleaning the Gravity Drain

DEHUMIDIFIER STORAGE

NOTE: To move or store the machine, wait at least 10 minutes to allow the unit to completely defrost. Once defrosted, lean the dehumidifier towards the drain to ensure it is completely dry.

If the unit will be stored for an extended period, complete the following steps:

1. Turn off the unit and allow it to dry.
2. Wait at least 10 minutes to allow the unit to completely defrost.
3. Lean the dehumidifier towards the drain to ensure it is completely dry.
4. Wrap and secure the power cord.
5. Cover the filter mesh.
6. Store in a clean, dry space.



MAINTENANCE - CONT (SPARE PARTS)

PART NUMBER	MODEL	DESCRIPTION	FC-60DH FC-60DH-2	FC-85DH FC-85DH-2	FC-100DH-2	FC-120DH FC-120DH-2
602609204	SM10C	10" Round Return Supply Collars (Set of 2) Small	X	X	-	-
602609205	LG10C	10" Round Return Supply Collars (Set of 2) Large	-	-	X	X
602609206	WHD1-RCK	Remote Control Kit	X	X	X	X
602609207	WHD2-HK	Hanging Kit Assembly	X	X	X	X
602609701	SM10PF	WHD Prefilter Replacement (Small)	X	X	-	-
602609702	LG10PF	WHD Prefilter Replacement (Large)	-	-	X	X
602609703	SMM10	WHD MERV10 Filter Replacement (Small)	X	X	-	-
602609704	LGM10	WHD MERV 10 Filter Replacement (Large)	-	-	X	X

TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
Display is blank	Poor Connection	Make sure power is plugged in.
	Power Outage	Reset Power.
No Airflow	Filter is Dirty	Clean the filter(s).
	Air Inlet or Outlet is Blocked	Clear the blockage.
E1 Error Code	Humidity Sensor or Communication Error	Check that the sensor wire is connected at both ends. If no issue, the sensor may be faulty.
LO Error Code	Room Temperature is below 33°F	Increase room temperature so it's within operating range. If issue persists, check the sensor.
HI Error Code	Room Temperature is above 105°F	Decrease the room temperature so it's within operating range. If issue persists, check the sensor.
"CC" appears on the display	The dehumidifier's internal humidistat is being bypassed, and the unit is being controlled by an external customer control (ie: CC appears on the display)	No corrective action is required. "CC" indicates normal operation when an external control is being used.
Tripped GFCI Outlet or Breaker	Not a Dedicated Circuit	Identify all sources connected to outlet and confirm source of trip. If it is the dehumidifier, contact technical support. If not, move dehumidifier to dedicated circuit for future use.
	Defective GFCI	Replace outlet
	Dirt, Dust, or Moisture on Outlet	Clean or replace outlet
	Lightning or External Electrical Surge	Reset or replace breaker/GFCI, as needed

This manual may be downloaded and printed from the Field Controls website (www.fieldcontrols.com)

WARRANTY

For warranty information about this or any Field Controls product, visit:
www.fieldcontrols.com/ventCool

Field Controls Technical Support
1.800.742.8368
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