



Your Source for Home Comfort

(30, 40, 50 & 70 PINT) DEHUMIDIFIER USER MANUAL

FOR MODELS:

PAD30

PAD40

PAD50

PAD70

Before using your dehumidifier, please read this manual carefully and keep it for future reference, along with your receipt.



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Safety Precautions


To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.













■ The seriousness is classified by the following indications.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.

■ Meanings of symbols used in this manual are as shown below.

	Never do this.
	Always do this.

 **WARNING**

<p> Do not exceed the rating of the power outlet or connection device.</p> <ul style="list-style-type: none"> ● Otherwise, it may cause electric shock or fire due to excess heat generation. 	<p> Do not operate or stop the unit by inserting or pulling out the power plug directly from the wall.</p> <ul style="list-style-type: none"> ● It may cause electric shock or fire due to heat generation. 	<p> Do not damage or use an unspecified power cord.</p> <ul style="list-style-type: none"> ● It may cause electric shock or fire. <small>(If power cord is damaged, it must be replaced by a qualified professional.)</small>
<p> Do not modify power cord length or share the outlet with other appliances.</p> <ul style="list-style-type: none"> ● It may cause electric shock or fire due to heat generation. 	<p> Do not insert or pull out plug with wet hands.</p> <ul style="list-style-type: none"> ● It may cause electric shock. 	<p> Do not place the unit near a heat source.</p> <ul style="list-style-type: none"> ● Plastic parts may melt and cause a fire.
<p> Disconnect the power if strange sounds, smells, or smoke comes from it.</p> <ul style="list-style-type: none"> ● It may cause fire and electric shock. 	<p> You should never try to take apart or repair the unit by yourself.</p> <ul style="list-style-type: none"> ● It may cause failure of machine or electric shock. 	<p> Before cleaning, turn off the power and unplug the unit.</p> <ul style="list-style-type: none"> ● It may cause electrical shock or injury.
<p> Do not use the unit near flammable gas/combustibles such as gasoline, benzene, thinner, etc.</p> <ul style="list-style-type: none"> ● It may cause an explosion or fire. 	<p> Do not drink or use the water drained from the unit.</p> <ul style="list-style-type: none"> ● It contains contaminants and could make you sick. 	<p> Do not take the water bucket out during operation.</p> <ul style="list-style-type: none"> ● It may cause malfunction of unit's "bucket full" feature and cause electrical shock.

Safety Precautions



CAUTION

⊘ Do not use the unit in small spaces.

- Lack of ventilation can cause overheating and fire.

⊘ Do not cover the intake or exhaust openings with cloths or towels.

- A lack of air flow can lead to overheating and fire.

⊘ Never insert fingers or other foreign objects into grill openings. Be sure to warn children of dangers.

- It may cause electric shock or failure of appliance.

⊘ Always insert the filters securely. Clean filter at least once every two weeks.

- Operation without filters may cause failure.

⊘ Do not put in places where water may splash onto the unit.

- Water entering unit can degrade the insulation and cause electric shock or fire.

⊘ Care should be taken when using the unit in a room with the following persons:

- Infants, children, elderly people, and people insensitive to humidity.

⊘ Do not place heavy objects on the power cord and make sure that the cord is not compressed.

- There is danger of fire or electric shock.

⊘ If water enters the unit, turn unit off, disconnect power and contact a qualified service technician.

- It may cause failure of appliance and there is danger of electric shock.

⊘ Place the unit on a level, sturdy section of the floor.

- If unit falls over, it may spill water and damage belongings, or cause electrical shock or fire.

⊘ Do not use in areas where chemicals are handled.

- This will cause unit deterioration due to chemicals and solvents dissolved in the air.

⊘ Do not climb up on or sit on the unit.

- You may be injured if you fall or if the unit falls over.

⊘ Do not place flower vases or other water containers on top of the unit.

- Water may spill inside the unit, causing insulation failure and electrical shock or fire.

Electrical Information

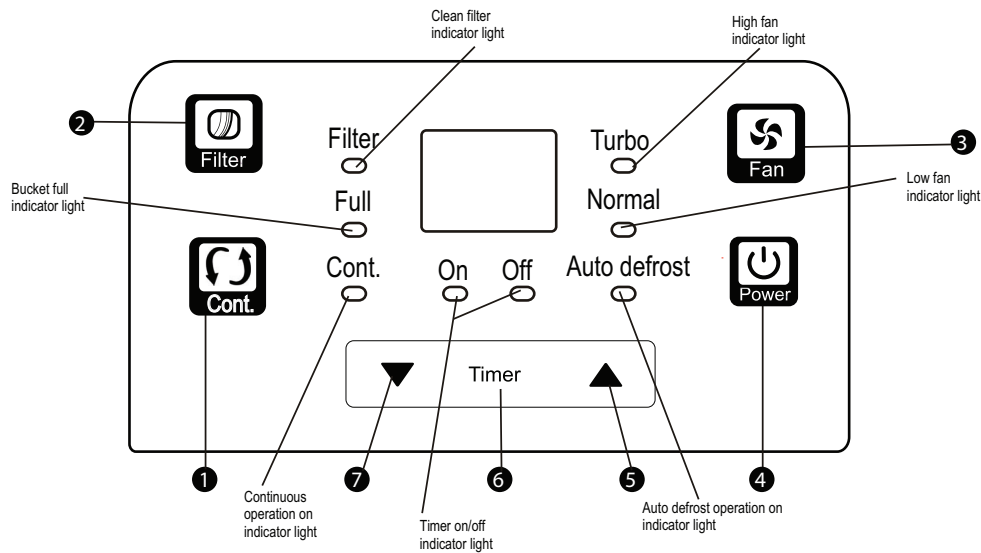
- The manufacturer's nameplate is located on the rear panel of the unit and contains electrical and other technical data specific to this unit.
- Be sure the unit is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your unit **must** be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- **Do not use extension cords or an adaptor plug with this unit.** If it is necessary to use an extension cord, use an approved "Dehumidifier" extension cord only (available at most local hardware stores).

To avoid the possibility of personal injury, always disconnect the power supply to the unit, before

- installing and/or servicing.

Control Pad On The Dehumidifier

NOTE: The control panel of the unit you purchased may be slightly different according to the models.



Control Pads

When you push the button to change operation modes, the unit will make a beep sound to indicate that it is changing modes.

1 Continue

Press to activate the continuous dehumidifying operation. When operating in this mode the Up/Down ▲/▼ pads will be deactivated and you will NOT be able to set your desired humidity.

2 Filter

The check filter feature is a reminder to clean the Air Filter for more efficient operation. The Filter light (Clean Filter Light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Filter pad and the light will go off.

3 Fan

Control the fan speed. Press to select either High or Normal fan speed. Set the fan control to High for maximum moisture removal. When the humidity has been reduced and quiet operation is preferred, set the fan control to Normal.

Power

4 Press to turn the dehumidifier on and off.

5 7 ▲/▼: Up/Down Pads

● Humidity Set Control Pads

The humidity level can be set within a range of 35%RH (Relative Humidity) to 85%RH (Relative Humidity) in 5% increments.

For drier air, press the ▼ pad and set to a lower percent value (%).

For damper air, press the ▲ pad and set a higher percent value (%).

The recommended standard setting is 45-50%.

You must be on Normal Fan mode to set the humidity.

6 Timer

Press to initiate the Auto start and Auto stop feature, in conjunction with the ▲ and ▼ key pads. Timer range 0.0 to 24 hrs.

Control Pad On The Dehumidifier

10 Display

Shows the set % humidity level from 35% to 85% or auto start/stop time (0-24) while setting, then shows the actual (+/- 5% accuracy) room % humidity level in a range of 30%RH (Relative Humidity) to 90%RH (Relative Humidity).

Error Codes and Protection Code:

AS- Humidity sensor error--Unplug the unit for at least 5 minutes and plug it back in. If error repeats, call for service.

ES- Temperature sensor error--Unplug the unit for at least 5 minutes and plug it back in. If error repeats, call for service.

P2- Bucket is full or bucket is not in the right position-Empty the bucket and replace it in the right position. Ensure float switch and foam are secured properly in bucket.

E1- Unit malfunction--Unplug the unit for at least 5 minutes and plug it back in. If error repeats, call for service.

EC- Unit malfunction--Please make sure whether the environment temperature is suitable for the stated temperature in the manual or not. If not, please operate the unit under the stated temperature. If the environment temperature is suitable for the stated temperature, please call for service.

Other Features

Bucket Full Light

Glow when the bucket is ready to be emptied, or when the bucket is removed or not replaced in the proper position.

Auto Shut Off

The dehumidifier shuts off after 30 seconds when the bucket is full, or when the bucket is removed or not replaced in the proper position. When the humidity setting is reached, the unit will be shut off automatically. For some models, the fan motor will continue operating.

Auto Defrost

When frost builds up on the evaporator coils, the compressor will cycle off and the fan will continue to run until the frost disappears. The unit will restart on its own.

Safety Feature

After the unit has stopped, it cannot resume operation in the first 3 minutes afterwards. This is to protect the unit. Operation will automatically start after 3 minutes.

Check Filter Feature

The system starts to log the time once the fan motor operates. The check filter light will be lit up only when the accumulated operation time achieves 250 hours or more. The Reset light (Clean Filter indicator light) flashes one time per second. After cleaning the air filter, press the Filter pad and the Reset light (Clean

Auto-Restart

If the unit breaks off unexpectedly due to a loss of power, it will restart with the previous function setting automatically when the power resumes.

Setting the Timer

When the unit is on, press the Timer button; the Timer Off indicator light illuminates. It indicates the Auto Stop program is initiated. Press it again and the Time On indicator light illuminates. It indicates the Auto start is initiated.

Press or hold the UP or DOWN pad to change the Auto time by 0.5 hour increments. up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.

The selected time will register for 5 seconds and the system will automatically revert back to display the previous humidity setting.

When the Auto start and Auto stop times are set, within the same program sequence, TIMER ON OFF indicator lights illuminate identifying both ON and OFF times are now programmed.

Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop function.

When LED display window displays the code of P2, the Auto Start/Stop function will also be cancelled.

Identification Of Parts

Front

- ❶ Control Panel
- ❷ Air Intake Grill
- ❸ Air Outlet Grill
- ❹ Air Filter (behind the grill)
- ❺ Water Bucket
- ❻ Handle (both sides)

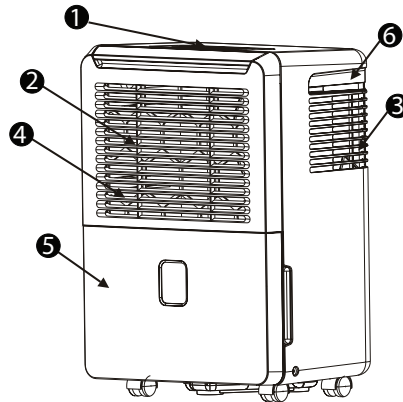


Fig.2

Rear

- ❶ Drain Hose Outlet
- ❷ Caster
- ❸ Power Cord and Plug
- ❹ Band (Used only when storing the unit)

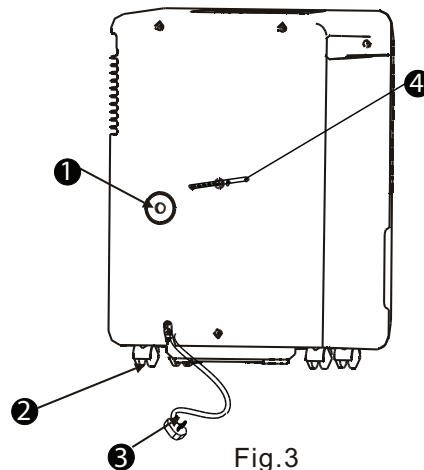


Fig.3

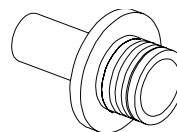
NOTE: All the pictures in the manual are for explanation purposes only. The actual shape of the unit you purchased may be slightly different, but the operations and functions are the same.

Accessories:

Drain hose (1pc)



Adaptor A (1pc)



Screw (2pc)



NOTE: Drain hose and adaptor are located inside of the water bucket. Screws are located in the upper corner of the owner's manual packaging.

Operating The Unit

Positioning the unit

A dehumidifier operating in one room will have little or no effect in drying an adjacent enclosed area, such as a closet, or other room unless there is adequate circulation of air in and out of the area.

- Do not use outdoors.
- This dehumidifier is intended for indoor residential applications only. This dehumidifier should not be used for commercial or industrial applications.
- Place the dehumidifier on a smooth, level floor, strong enough to support the unit with a full bucket of water.
- Allow at least 8in (20cm) of air space on all sides of the unit for good air circulation.
- Place the unit in an area where the temperature will not fall below 41° F (5° C). The coils can become covered with frost at temperatures below 41° F (5° C), which may reduce performance.
- Place the unit away from the clothes dryer, heater or radiator.
- Use the unit to prevent moisture damage anywhere books or valuables are stored.
- Use the dehumidifier in a basement to help prevent moisture damage.
- The dehumidifier must be operated in an enclosed area to be most effective.
- Close all doors, windows and other outside openings to the space that you wish to dehumidify.

When using the unit

- When first using the dehumidifier, operate the unit continuously for 24 hours.
NOTE: After the first 24 hours, should you wish to set a desired humidity, you will need to take the unit off of "Continuous". You will not be able to select a desired humidity while the unit is set on "Continuous" mode.
- This unit is designed to operate with a working environment between 41° F/5° C and 95° F/35° C.
- If the unit has been switched off and needs to be switched on again quickly, allow approximately three minutes for the correct operation to resume.
- Do not connect the dehumidifier to a multiple socket outlet, that is being used for other electrical appliances.
- Select a suitable location, making sure you have easy access to an electrical outlet.
- Plug the unit into an electrical outlet with a grounding connection.
- Make sure the water bucket is correctly fitted or the unit will not operate properly.
NOTE: Do not attempt to move the dehumidifier when there is water in the bucket. The unit may tip over and spill water or damage unit.

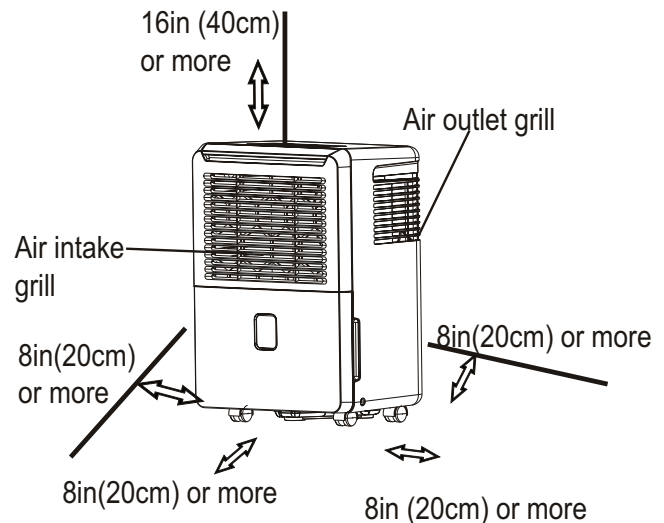


Fig.4a

Casters (At four points on the bottom of unit)

- Casters can move freely.
- Never force casters to move over carpet, or move the unit with water in the bucket.
(The unit may tip over and spill water.)

Operating The Unit

Removing the collected water

There are two ways to remove collected water.

1. Use the bucket

- If the bucket is full when the unit is OFF, the unit will beep 8 times, the full indicator light will flash and the digital display will show P2.
- If the bucket is full when the unit is ON, the compressor will turn off and the fan will turn off after 30 seconds. Then the unit will beep 8 times, the full indicator light will flash and the digital display will show P2.
- Slowly pull out the bucket. Grip the left and right handles securely, and carefully pull out straight so water does not spill. Do not put the tank on the floor because the bottom of the bucket is uneven. The bucket will fall and cause the water to spill.
- Throw away the water and replace the bucket. The bucket must be in place securely for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position. The unit will take 3 minutes to restart.

NOTES:

- When you remove the bucket, do not touch any parts inside of the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit. Improper installation or failing to push it in securely may cause the unit not to operate.
- When you remove the bucket, be sure to wipe away any excess moisture found inside the unit.

2. Continuous draining

Water can be automatically emptied into a floor drain by attaching the unit with a water hose with a female threaded end (not included).

- Install the drain hose onto the adaptor A (See Fig. 7, placed in the bucket).
- Remove the plastic cover from the back drain outlet of the unit and set aside. Remove bucket, then insert the drain hose through the drain outlet of the unit and securely press it into the connector, on the front of the unit. (See Fig. 9)
- Tighten the adaptor A and the unit by using the two screws provided, which can be found in the corner of the owner's manual packaging.
- Install the female threaded end of the water hose into the adaptor A (See Fig. 10) then lead the water hose to the floor drain or a suitable drainage facility.
- Make sure the hose is secure to avoid leakage.
- Direct the hose down toward the drain, making sure that there are no kinks that will stop the water flow.
- Place the end of the hose into the drain and make sure the end of the hose is level or down to let the water flow smoothly. Never let drain hose go upward against gravity.
- Place the bucket back in the unit and make sure that it is correctly placed.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.
- To eliminate the use of the hose adaptor assembly and still drain to the floor you may use tubing (5/8" O.D. 1/2" I.D.) in the length required to go directly from the unit to floor drain.

1. Pull out the bucket a little.

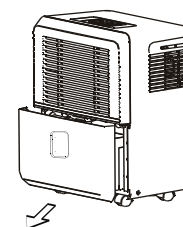


Fig.5

2. Hold both sides of the bucket with even strength, and pull it out from the unit.

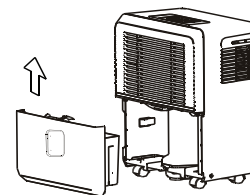


Fig.6

3. Pour the water out.

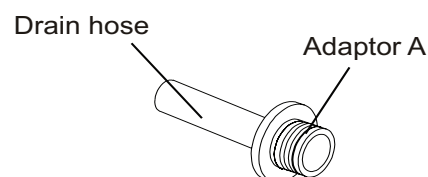


Fig.7

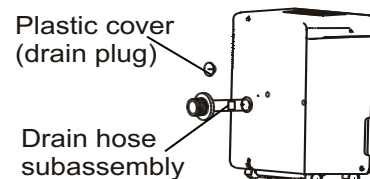


Fig.8

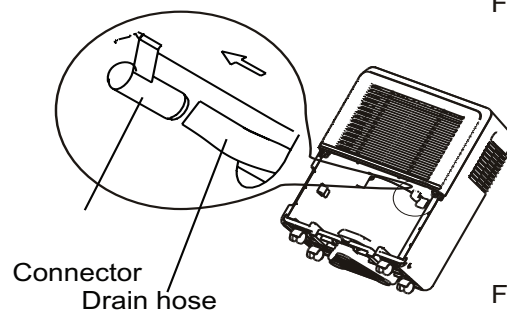


Fig.9

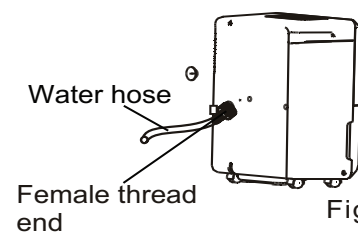


Fig.10

NOTE: When the continuous drain feature is not being used, remove the drain hose from the outlet and insert drain plug. Failure to re-insert the drain plug/s will result in unit malfunction and possible error codes.

Care And Maintenance

Care and cleaning of the dehumidifier

Turn the dehumidifier off and remove the plug from the wall outlet before cleaning.

1. Clean the Grill and Case

- Use a cloth dampened with water and a mild detergent. Do not use bleach or abrasives.
- Do not splash water directly onto the main unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.
- The air intake and outlet grills get soiled easily, so use a vacuum attachment or brush to clean.

2. Clean the bucket

Every few weeks, clean the bucket to prevent growth of mold, mildew and bacteria.

- Remove the bucket and clean in an area away from the dehumidifier to avoid splashing water onto/in the unit.
- Partially fill the bucket with clean water and add a small amount of mild detergent. Swish it around in the bucket, empty and rinse.

NOTE: Do not use a dishwasher to clean the bucket. After clean, the bucket must be securely in place for the dehumidifier to operate.

3. Clean the air filter

- Remove and clean the filter when the filter light illuminates. For more frequent use, clean the filter more often.
- Remove the filter from the top of the unit (See Fig. 11a)
- Wash the filter with clean water, then dry thoroughly before re-inserting the filter.

CAUTION:

DO NOT operate the dehumidifier without a filter because dirt and lint will clog the unit and reduce performance.

4. Prolonged Periods of Non-Use

- After turning off the unit, wait one day before emptying the bucket.
- Clean the main unit, water bucket and air filter and let dry completely.
- Wrap the cord and bundle it with the band on the unit (Fig. 12).
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.

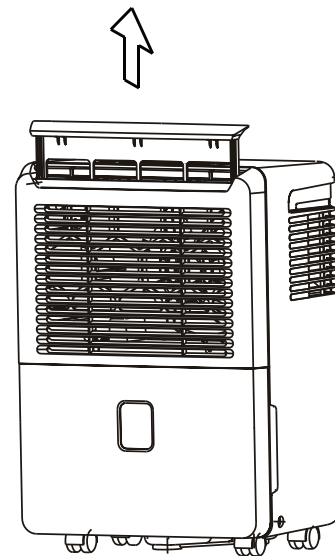


Fig. 11a

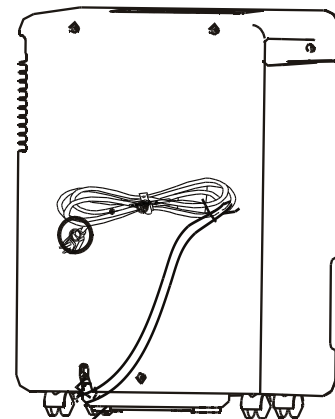


Fig. 12

Troubleshooting Tips

Before calling for service, review the chart below first yourself.

Issue	Possible Solutions
<p>UNIT DOES NOT START</p>	<p>Make sure the dehumidifier plug is pushed completely into the outlet.</p> <p>Check the fuse/circuit breaker box.</p> <p>Dehumidifier has reached its preset level or bucket is full.</p> <p>Water bucket is not in the proper position.</p> <p>Not humid enough compared to setting on dehumidifier.</p>
<p>DEHUMIDIFIER DEFROST DISPLAYS REPEATEDLY AND NO WATER IS DRAWN INTO THE BUCKET</p>	<p>Turn off unit and unplug 4-6 hours.</p> <p>Plug back in unit. Select Normal Mode and set humidity level to no more than 5% lower humidity than what the display reads for the room humidity.</p> <p>Allow time for the unit to run until it successfully reaches initial humidity setting.</p> <p>Lower humidity another 5% and repeat until desired humidity is reached (average setting should be 45-50%).</p> <p>Be sure unit humidity is not set too low or is sitting on too cold a floor, or being used in too cold a room (not below 41 degrees).</p> <p>Be sure there is sufficient air circulation between the unit and the floor.</p>
<p>DEHUMIDIFIER P2 OR 'BUCKET FULL' DISPLAYS</p>	<p>Verify rubber drain plug is not removed from back of unit if using bucket to collect water.</p> <p>Check float switch (inch length silver tab in top of unit behind bucket) to ensure it is not cracked, bent, broken, dirty, or obstructed. If bent, re-adjust by re-bending back in place. (LEFT SIDE IN PAD MODELS)</p> <p>Check that unit is level and the filter, vents and bucket are thoroughly clean.</p> <p>Unplug unit for at least 5 minutes.</p> <p>Plug back in unit. Remove and return bucket securely back into unit and turn on unit.</p>
<p>DEHUMIDIFIER NOT DRAWING WATER</p>	<p>Be sure unit is not too large or too small for the area of the room</p> <p>When first installed, run unit on Continuous Mode for 24 hours</p> <p>Allow enough time for unit to remove moisture</p> <p>Set humidity low enough to ensure moisture removal (not recommended to set below 45%)</p> <p>Setting may be the same as actual humidity in room, thus no moisture to remove</p> <p>Be sure all doors, windows and other openings are securely closed</p> <p>Be sure unit is level and that there is sufficient air circulation around the unit, as well as between unit and floor</p> <p>Make sure unit is level and that there are no curtains, blinds, or furniture blocking the unit</p> <p>Check that room temperature is not below 41° F</p> <p>If unit is near a heat source, such as clothes dryer, etc., then relocate unit</p>
<p>DEHUMIDIFIER CONSTANTLY CYCLES ON/OFF</p>	<p>Be sure unit is not too large or too small for the area of the room</p> <p>Using unit in much less than its stated coverage will likely cause it to go on and off more frequently. Using too small a unit will cause unit to run constantly.</p> <p>If the humidity setting and actual humidity in room are cycling right around the same, the unit would go off and on accordingly.</p> <p>The fan should go off shortly after the compressor turns off.</p> <p>Check that unit is level and the filter, vents and bucket are thoroughly clean and nothing is obstructing them</p> <p>Be sure all doors, windows and other openings are securely closed</p> <p>Ensure there is sufficient air circulation around the unit, as well as between unit and floor</p> <p>Unplug unit for at least 5 minutes. Plug back in unit, remove and return bucket to dehumidifier and turn on</p>

TROUBLESHOOTING TIPS

Before calling for service, please review the chart below.

Question	Possible Solutions
WATER ON FLOOR AROUND UNIT	Hose to connector or hose connection may be loose.
	If using bucket to collect water, check drain plug.
	Foam piece has been removed from float in bucket, causing bucket to overflow. Call for assistance.
ES, AS, P2 OR EC APPEAR IN THE DISPLAY	These are error codes and protection code. See the CONTROL PAD ON THE DEHUMIDIFIER section.
DEHUMIDIFIER ALWAYS RUNNING	Be sure unit is not too large or too small for the area of the room
	Allow enough time for unit to remove moisture
	If set on Continuous Mode, de-select button and set to Normal Mode with appropriate humidity setting
	If humidity in room is above the set humidity, then unit will be running
	Be sure all doors, windows and other openings are securely closed
	Be sure unit is level and that there is sufficient air circulation around the unit, as well as between unit and floor
	Make sure there are no curtains, blinds, or furniture blocking the unit
	Lower room temperature
DEHUMIDIFIER DIRECT DRAIN NOT WORKING PROPERLY	Be sure hose is CLEAN, pliable and no longer than 6 feet in length (recommended). Clear tubing with sizing of 5/8 of an inch for the outer diameter, and 1/2 in for inner diameter is recommended.
	Hose should be secure on both ends, being especially mindful that it is pushed all the way onto Connector piece inside unit.
	Hose should exit through back of unit and always be positioned at a DOWNWARD slope down to desired drain location.
	If using garden hose attached to Adaptor piece, be sure connection is secure throughout.
	Be sure nothing is obstructing hose connection and there are no kinks or tears in any of the hosing.
	Ensure unit is level and not tilted forward and that bucket is pushed in all the way
	Check that filter, vents and bucket are thoroughly clean.
THE UNIT MAKES A LOUD NOISE WHEN OPERATING	The air filter is clogged.
	The unit is tilted instead of upright as it should be.
	The floor surface is not level.



Your Source for Home Comfort

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