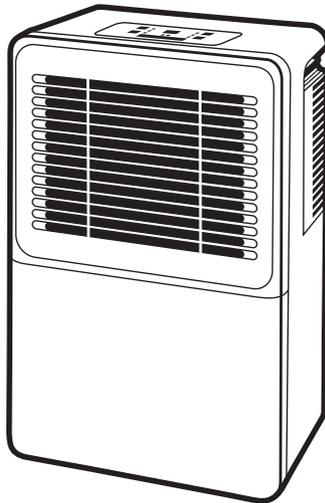


# DEHUMIDIFIER INSTRUCTION MANUAL



MODEL: OBZ-50DHPN

Service Number: 1-866-277-7878

[www.oceanbreezecomfort.com](http://www.oceanbreezecomfort.com)

Before operating this product, please read the instructions carefully and save this manual for future use.

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## SAFETY PRECAUTIONS

To prevent injury to the user or others, the following instructions must be followed. Improper operation due to not following the instructions may cause harm or damage.

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

 <b>WARNING</b>	This symbol indicates the possibility of death or serious injury
 <b>CAUTION</b>	This symbol indicates the possibility of injury or damage to property
	<b>Never do this.</b>
	<b>Always do this.</b>

### WARNING

 **Do not exceed the rating of the power outlet or connection device.**

- Otherwise, it may cause electric shock or fire due to excess heat generation.

 **Do not repeatedly turn the power on and off.**

- It may cause electric shock or fire due to heat generation.

 **Do not damage or use an unspecified power cord.**

- It may cause electric shock or fire.

 **Do not modify power cord length or share the outlet with other appliances**

- It may cause electric shock or fire due to heat generation.

 **Do not insert or pull out plug with wet hands.**

- It may cause electric shock.

 **Do not place the unit near a heat source.**

- Plastic parts may melt and cause a fire.

 **Disconnect the power if strange sounds, smell, or smoke comes from it.**

- It may cause fire and electric shock.

 **You should never try to take apart or repair the unit by yourself.**

- It may cause failure of machine or electric shock.

 **Before cleaning, turn off the power and unplug the unit.**

- It may cause electrical shock or injury.

 **Do not use the machine near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.**

- It may cause an explosion or fire.

 **Do not drink or use the water drained from the unit.**

- It contains contaminants and could make you sick.

 **Do not take the water bucket out during operation.**

- It may cause water to spill and cause electric shock.

### CAUTION

 **Do not use the unit in small spaces.**

- Lack of ventilation can cause overheating and fire.

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

- Water may enter the unit and degrade the insulation. It may cause an electric shock or fire.

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

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

## SAFETY PRECAUTIONS

### ⚠ CAUTION

⊘ 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 your finger or other foreign objects into grilles or openings. Take special care to warn children of these dangers.

- It may cause electric shock or failure of appliance.

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

- Operation without filters may cause failure.

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

- Infants, children, elderly people, and people not sensitive to humidity.

⊘ Do not place heavy object on the power cord and take care so that the cord is not compressed.

- There is danger of fire or electric shock.

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

- It may cause failure of appliance or accident.

⊘ Do not use in areas where chemicals are handled.

- This will cause the corrosion to the unit due to chemicals evaporated 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 container on top of the unit.

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

### Electrical Information

- The manufacturers' 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 unit installation.
- **Do not use extension cords or an adapter plug with this unit.** However, 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 unplug the unit before installing and/or servicing.

## DEHUMIDIFIER CONTROLS

**NOTE:** The control panel of the unit you purchased may be slightly different depending on the model.

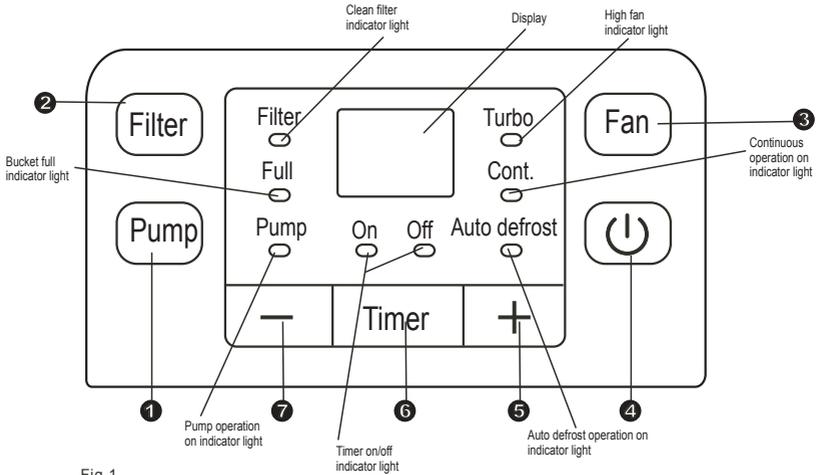


Fig.1

### Control pads

When you press the button to change operation modes, the unit will make a beep to confirm mode change.

#### 1 Pump Pad

Press to activate the pump operation.

**NOTE:** Make sure the pump drain hose is installed into the unit and the continuous drain hose is removed from the unit before the pump operation is activated. Refer to page 8 for instructions on removal of the collected water.

#### 2 Filter button

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 button

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

#### 4 Power button

Press to turn the dehumidifier on and off.

#### 5/7 ⊖/⊕: Down/Up 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(%).

##### ● TIMER Set Control Pads

Use the Up/Down pads to set the Auto start and Auto stop time from 0 to 24 hours.

##### ● Continuous Operation

To run the unit in continuous mode, press the ⊖ pad until the display reads 35% RH. Then press the ⊖ pad again until the display reads 'CO' for continuous operation. To stop continuous operation, press the ⊕ and set the desired % RH set point level to resume normal operation.

## CONTROL PADS ON THE DEHUMIDIFIER

### ⑥ Timer button

Press to initiate the Auto start and Auto stop feature, in conjunction with the ⏸ and ⏹ buttons.

### ● 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 and plug it back in. If error repeats, call for service.

**ES-** Temperature sensor error: Unplug the unit and plug it back in. If error repeats, call for service.

**P2-** Bucket is full: Empty the bucket.

**EC-** Unit malfunction: Please make sure that the environment temperature is within the standard operating temperature in the manual. If the current temperature is within the standard operating temperature and it still isn't working, call for service.

**E3-** Unit malfunction: Unplug the unit and plug it back in. If error repeats, call for service.

**Eb-** Bucket is not present or not in right position: Remove the bucket and put back in the right position.

## Other Features

### Bucket Full Light

Glows when the bucket is ready to be emptied.

### Auto Shut Off

The dehumidifier shuts off when the bucket is full, or when the bucket is removed or not placed in the proper position. When the set humidity 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.

### Wait 3 minutes before resuming operation

After the unit has stopped, it cannot be restarted immediately in the first 3 minutes. This is to prevent damage to the unit. Operation will automatically start after 3 minutes.

### Check filter feature

The system counts every time the fan motor operates. When the accumulated operation time achieves 250 hours or more, the check filter light will flash to remind that the filter needs cleaning. After finishing cleaning and putting back the air filter, be sure to press the filter button to reset the clean filter counter and turn off the indicator light.

### Auto-Restart

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

### Setting the Timer

- While the unit is on, press the TIMER button to initiate the AUTO STOP program, indicated by the TIMER OFF light. Press again to initiate the AUTO START program, indicated by the TIMER ON light.
- While the unit is off, press the TIMER button to initiate the AUTO START program, indicated by the TIMER ON light.
- Press or hold the UP or DOWN button to change the Auto Timer by half hour increments up to 24 hours. The display will show the time remaining until start/stop.
- The selected time will show for 5 seconds and then the system will automatically revert back to displaying the previous humidity setting.
- When the AUTO START & STOP times are set, the TIMER ON/OFF indicator lights up to show that the Timer is on.
- Turning the unit ON or OFF at any time or adjusting the Timer setting to 0.0 will cancel the Timer.

## DESCRIPTION OF PARTS

### Identifying the parts

#### Front

- ❶ Control panel
- ❷ Air intake grille
- ❸ Air outlet grille
- ❹ Air filter (behind the grille)
- ❺ Water bucket
- ❻ Handle (both sides)

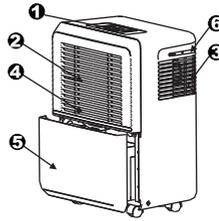


Fig.2

#### Rear

- ❶ Continuous drain hose outlet
- ❷ Caster
- ❸ Power Cord and plug
- ❹ Band(Used only when storing the unit.)
- ❺ Pump drain hose outlet

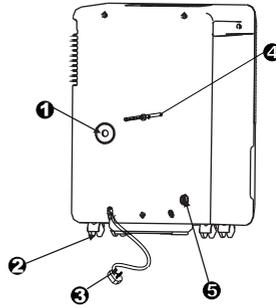


Fig.3

**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:** Pump drain hose(1pcs)



drain hose subassembly(1pc)



screw(2pcs)



## OPERATING THE UNIT

### Placing the unit

A dehumidifier operating in a basement will have little or no effect in drying an adjacent enclosed storage area, such as a closet, 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 7.9 in 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 room.

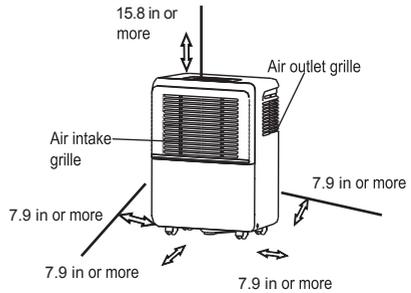


Fig.4a

#### **Casters (At four points on the bottom of unit)**

- Casters can move freely.
- Do not force casters to move over carpet, nor move the unit with water in the bucket. (The unit may tip over and spill water.)

### Before Operating the Unit

- When first using the dehumidifier, operate the unit continuously for 24 hours.
- 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 3 minutes to restart the unit.
- Do not connect the dehumidifier to a multiple socket outlet, which is also 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 electric outlet with a grounded connection.
- Make sure the Water bucket is correctly fitted otherwise the unit will not operate properly.

**NOTE:** When the water in the bucket reaches a certain level. Please be careful to move the machine to avoid the unit from tipping over.

## OPERATING THE UNIT

### Removing the collected water

There are three ways to remove collected water.

#### 1. Use the bucket

- When the unit is off and the bucket is full, the Full indicator light will light up.
- When the unit is on and the bucket is full, the compressor and fan will turn off. The Full indicator light go off 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 bucket on the floor because the bottom of the bucket is uneven. Otherwise the bucket will fall over and cause the water to spill.
- Throw away the water and replace the bucket. The bucket must be in right place and securely seated for the dehumidifier to operate.
- The machine will re-start when the bucket is restored in its correct position.

#### 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. Banging the bucket against anything or failing to push it in securely may cause the unit not to operate.
- If the pump detaches when you remove the bucket (see Fig.7), you must reinstall the pump properly to the unit before replacing the bucket back into the unit (see Fig.8).
- After you remove the bucket, if there is some water in the unit you must dry it out.
- When the unit is on, if the bucket is removed, the compressor and fan will turn off, then the unit will beep 8 times and the digital display will show 'Eb.'
- When the unit is off and the bucket is removed, the unit will beep 8 times and the digital display will show 'Eb.'

#### 2. Continuous draining

Water can be automatically emptied into a floor drain by attaching the unit with a water hose (ID $\geq$   $\phi$ 5/16", not included) with a female threaded end (ID:M=1", not included).

- Install the drain hose onto the adaptor A (See Fig.9, placed in the bucket).
- Remove the plastic cover from the back drain outlet of the unit and set aside and 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.10 and Fig.11)
- Tighten the adaptor A and the unit by using two screws (placed in the bucket).
- Install the female threaded end of the water hose to the adaptor A. (See Fig.12), then lead the water hose to the floor drain or a suitable drainage facility.
- Make sure the hose is secure so there are no leaks.
- Direct the hose toward the drain, making sure that there are no obstructions that will stop the water flowing.

1. Pull out the bucket a little.

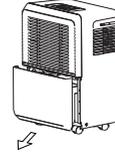


Fig.5

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

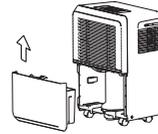


Fig.6

3. Pour the water out.

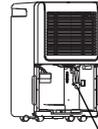


Fig.7

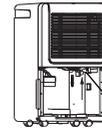


Fig.8

Reinstall pump properly



Fig.9

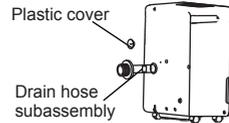


Fig.10

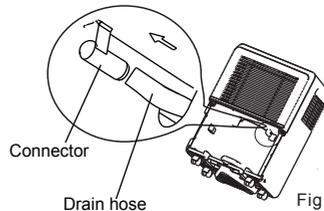


Fig.11

## Removing the collected water

- 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. Do not interrupt the flow.
- Place the bucket back in the unit and make sure that it is placed correctly.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.

NOTE: When the continuous drain feature is not being used, remove the drain hose from the outlet.

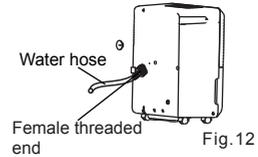


Fig. 12

### 3. Pump draining

Water can be automatically emptied into a floor drain or a suitable drainage facility by attaching the pump drain out with a pump drain hose ( $\phi od=1/4"$ , supplied).

- Remove the continuous drain hose and the drain hose subassembly from the unit. Install the plastic cover to the continuous drain hose outlet of the unit by using two screws. (See Fig. 11)

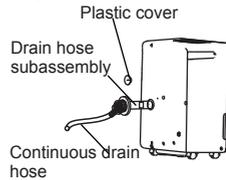


Fig. 11

- Reinsert the pump drain hose into the pump drain hose outlet (See Fig. 12), then lead the water hose to the floor drain or a suitable drainage facility.
- Press the pump button to activate the pump operation. When the bucket is full, the pump will start to work.

NOTE: The pump may cause a loud noise when it starts to work for 3~5 minutes. This is normal.

- Make sure the hose is secure so there are no leaks.
- Direct the hose toward the drain, making sure that there are no blockages that will stop the water flowing.
- 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. Do not interrupt the flow.
- Select the desired humidity setting and fan speed on the unit for pump draining to start.

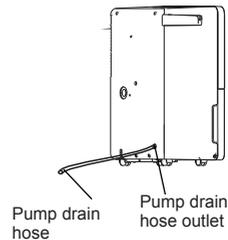


Fig. 12

NOTE: The pump operation on light flashes when there is a problem. Please turn off the unit and unplug the cord. Check the following things:

- Cleaning the filter of the pump.
  - Remove the bucket from the unit, take down the pump and clean the filter. (See Fig. 13).
- Check that the pump drain hose does not kink or block.
- Empty the water of the bucket.
- Reinstall the pump and the bucket properly. Turn on the unit. If the error repeats, call for service.

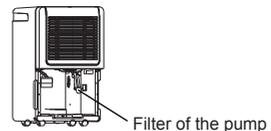


Fig. 13

NOTE: Do not use this operation when the outdoor temperature is equal to or less than 32°F (0°C). Otherwise water can turn into ice that may block the water hose and cause the unit to fail. When the pump drain feature is not being used, remove the pump drain hose from the outlet.

- Press the pump drain hose outlet down and take the pump drain hose out from it (See Fig. 14).

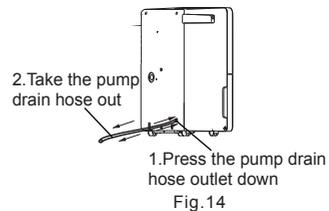


Fig. 14

## 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 Grille and Case

- Use 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 grilles 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. Partially fill the bucket with clean water and add a little 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 in place and securely seated for the dehumidifier to operate.

#### 3. Clean the air filter

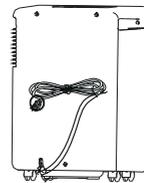
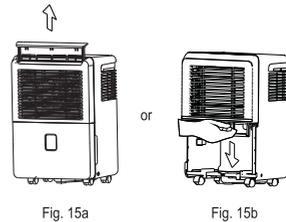
- Remove the filter every two weeks based on normal operating conditions.
- Remove the filter from the top of the unit (See Fig.15a), or on some models, remove the bucket then pull filter downwards (See Fig.15b).
- Wash the filter with clean water then dry.
- Re-install the filter, replace Bucket.

#### CAUTION:

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

#### 4. When not using the unit for long time periods

- After turning off the unit, wait one day before emptying the bucket.
- Clean the main unit, water bucket and air filter.
- Wrap the cord and bundle it with the band (See Fig.16) .
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated area.



## TROUBLESHOOTING TIPS

Before calling for service, review the chart below first.

Problem	What to check
Unit does not start	<ul style="list-style-type: none"><li>● Make sure the dehumidifier plug is pushed completely into the outlet.</li><li>● Check the house fuse/circuit breaker box.</li><li>● Dehumidifier has reached its preset level or bucket is full.</li><li>● Water bucket is not in the proper position.</li></ul>
Dehumidifier does not dry the air as it should	<ul style="list-style-type: none"><li>● Did not allow enough time to remove the moisture.</li><li>● Make sure there are no curtains, blinds or furniture blocking the front or back of the dehumidifier.</li><li>● The humidity control may not be set low enough.</li><li>● Check that all doors, windows and other openings are securely closed.</li><li>● Room temperature is too low, below 41°F(5°C).</li><li>● There is a kerosene heater or something giving off water vapor in the room.</li></ul>
The unit makes a loud noise when operating	<ul style="list-style-type: none"><li>● The air filter is clogged.</li><li>● The unit is tilted instead of upright as it should be.</li><li>● The floor surface is not level.</li></ul>
Frost appears on the coils	<ul style="list-style-type: none"><li>● This is normal. The dehumidifier has Auto defrost feature.</li></ul>
Water on floor	<ul style="list-style-type: none"><li>● Hose to connector or hose connection may be loose.</li><li>● Intend to use the bucket to collect water, but the back drain plug is removed.</li></ul>
ES, AS, P2, EC, Eb and E3 appear in the display	<ul style="list-style-type: none"><li>● These are error codes and protection code. See the <b>DEHUMIDIFIER CONTROLS</b> section on page 5.</li></ul>
The pump operation light is flashing	<ul style="list-style-type: none"><li>● Clean the filter of the pump.</li><li>● Check the pump hose does not kink or block.</li><li>● Empty the water of the bucket.</li></ul>