

# TOSHIBA



Safety Precautions

Operating Instructions

Installation Instructions

Care and Cleaning

Troubleshooting Tips

## USER MANUAL

Dehumidifier

TDDP2013ES2

TDDP3513ES2

TDDP5013ES2

TDDP5013ES2P

Warning notices: Before using this product, please read this manual carefully and keep it for future reference.

The design and specifications are subject to change without prior notice for product improvement. Consult with your dealer or the manufacturer for details.

## User Manual

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### Read This Manual

Inside you'll find many helpful hints on how to use and maintain your dehumidifier properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your dehumidifier. You'll find many answers to common problems in the troubleshooting tips - you should be able to fix most of them quickly before calling service. These instructions may not cover every possible condition of use, so common sense and attention to safety is required when installing, operating and maintaining this product.



### CAUTION

- Contact an authorized service technician for repair or maintenance of this unit.
- The unit is not intended for use by young children or persons with reduced physical, sensory or mental capabilities without supervision.
- Young children should be supervised to ensure that they do not play with the unit.
- If the power cord needs to be replaced, please contact our consumer service or an authorized technician.
- Electrical installation, if needed, must be performed in accordance to national regulation standards by qualified personnel only.

# 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 of instructions may cause harm or damage. The level of risk is shown 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.



## WARNING

- Plug in power cord plug properly.  
Otherwise, it may cause electric shock or fire due to excess heat generation.
- Do not modify power cord length or share the outlet with other appliances as it may cause electric shock or fire due to overheating.
- Always ensure effective grounding.  
Incorrect grounding may cause electric shock.
- Unplug the unit if you notice unusual sounds or smells, or smoke comes from it.  
A damaged product may cause fire and electric shock.
- Ventilate room before operating the unit if there is a gas leak from other appliances.
- Do not operate or stop the unit by inserting or pulling out the power cord plug.  
It may cause electric shock.
- Do not allow water to come into contact with any electric parts.  
It may cause failure or electric shock.
- Do not use the wall outlet if it is loose or damaged.  
It may cause fire and electric shock.
- Do not use or keep the power cord close to heating appliances or heat sources such as fireplaces.  
It may cause fire and electric shock.
- Do not disassemble or modify unit.  
It may cause failure and electric shock.
- Do not damage or use an alternate power cord.  
It may cause fire and electric shock.
- If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid electrical risk.
- Do not use the unit near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.  
It may cause fire.
- Before cleaning, turn off the power and unplug the unit.
- Do not take the water bucket out during operation, the bucket full protection may be activated and risk electric shock.



## CAUTION

- Do not use the unit in small spaces.  
Lack of ventilation can cause overheating and fire.
- Do not use 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.
- Never insert your finger or other foreign objects into grills or openings. Take special care to warn children of these dangers.  
It may cause failure or electric shock.
- Do not climb up on or sit on the unit.  
You may be injured if you fall or if the unit falls over.
- Always insert the filters securely, and take caution to avoid injuries to hand and fingers.  
Clean filter once every two weeks.
- If water enters the unit, turn the unit off and disconnect the power, contact a qualified service technician.
- 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.
- If the unit is knocked over during use, turn off the unit and unplug it from the main power supply immediately. Visually inspect the unit to ensure there is no damage. If you suspect the unit has been damaged, contact a customer service or a qualified technician.
- In a thunderstorm, the power must be cut off to avoid damage to the unit due to lightning.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.



### **WARNING - 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 adapter plugs 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 disconnect the the unit from power supply, before installing and/or servicing.



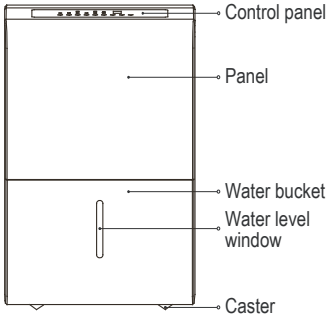
### **WARNING - For your safety**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

## OPERATING INSTRUCTIONS

### Product Overview

Front



Rear

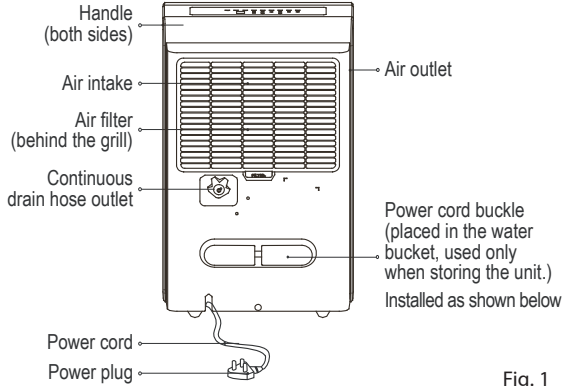
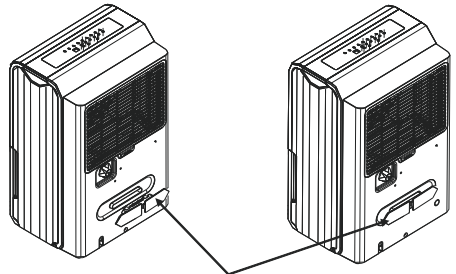


Fig. 1

### **i** NOTE

All the pictures in this manual are for illustrative purposes only. The actual shape of the unit you purchased may be slightly different, but its operations and functions are similar.

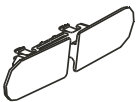


Insert the power cord buckle into the unit.

Fig. 2

### Accessories

Power cord buckle (1 pc)



pump drain hose(1pc) (only for the unit with pump feature)

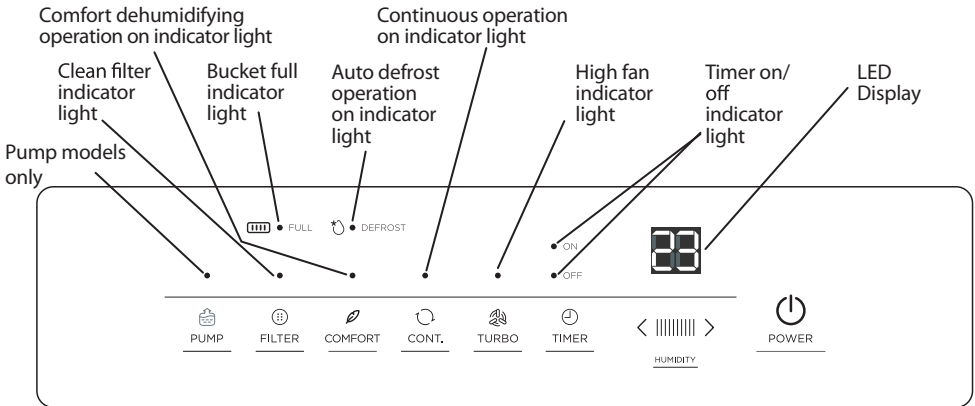


female threaded end(1pc) (on some models)



**CAUTION**

Clean your unit occasionally to keep it looking new. Be sure to unplug the unit before cleaning to prevent shock or fire hazards.

**i NOTE**

The appearance of the control panel may vary slightly by model.

**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.

**PUMP Button (Pump models only)**

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. When the bucket is full, the pump starts to work. Refer to the next pages for removing the collected water. Do not use this operation when the outdoor temperature is equal to or less than 0°C (32°F).

**COMFORT Button**

Press to activate the COMFORT dehumidifying operation. The dehumidifier will automatically set to a preset humidity and fan level. To exit comfort mode, adjust the humidity to desired level.

**FILTER Button**

This feature is a reminder to clean the Air Filter for more efficient operation. The LED (light) will flash after 250 hours of fan motor operation. To reset after cleaning the filter, press the Filter button and the light will go off.

**CONT (continuous) Button**

Press to activate the continuous dehumidifying operation.

**i NOTE**

When CONTINUOUS function is turned on, set humidity level is automatic and cannot be changed manually.

## TURBO Button

Control the Turbo speed. Press to select either Turbo or normal fan speed. Set the Turbo control to high for maximum moisture removal. When room humidity is at your preferred level, it is advised to turn off Turbo speed.

## TIMER Button

Starts the Timer ON and Timer OFF function setting.

## Up/Down Buttons (◀ / ▶)

### • Humidity Set Control Buttons

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 ◀ button and set to a lower value (%).

For damper air, press the ▶ button and set a higher value (%).

### • TIMER Set Control Buttons

Use the ◀ and ▶ key buttons to set the Timer ON or Timer OFF from 0 to 24 hours.

## POWER Button

Press to turn the dehumidifier on and off.

## Other Features

### Bucket Full Light

Lights up 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 replaced in the proper position. When the setting humidity is reached, the compressor will be shut off automatically. The fan motor will continue operating additional 3 minutes.

## LED 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 persists, contact Customer Service.
- ES** - Tube Temperature sensor of the evaporator error - Unplug the unit and plug it back in. If error persists, contact Customer Service.
- P2** - Bucket is full or bucket is not in right position - Empty the bucket and replace it in the right position. (only available for the unit with no pump feature.)
- Eb** - Bucket is removed or not in right position - Replace the bucket in the right position. (only available for the unit with pump feature.)

### Auto Defrost

When frost builds up on the evaporator coils, the compressor will cycle off and Auto Defrost function will run automatically.

Wait 3 minutes before resuming operation

After the unit has stopped, it can not be restarted in the first 3 minutes to protect compressor operation. The unit will restart automatically after 3 minutes.

### Auto-Restart

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



## Setting the Timer ON and Timer OFF

- When the unit is on, first press the Timer button, the Timer OFF indicator light illuminates. It indicates the Timer OFF program is initiated. Press it again the Timer ON indicator light illuminates. It indicates the Timer ON is initiated.
- When the unit is off, first press the Timer button, the Timer ON indicator light illuminates. It indicates the Timer ON program is initiated. Press it again the Timer OFF indicator light illuminates. It indicates the Timer OFF is initiated.
- Press or hold the ◀ and ▶ key buttons to change the Timer 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 in 5 seconds and the system will automatically revert back to display the previous humidity setting.
- When the Timer ON and Timer OFF times are set, within the same program sequence, 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 Timer function.
- When LED display window displays the code of P2, the Auto Start/Stop function will also be cancelled.

## NOTES

- When first using the dehumidifier, operate the unit continuously 24 hours. Make sure the plastic cover on the continuous drain hose outlet install stightly properly so there are no leaks.
- This unit is designed to operate with a working environment between 5°C/41°F and 32°C/90°F.
- Make sure the water bucket is positioned correctly so that the unit can operate properly. When the water in the bucket reaches to a certain level, please be careful to move the unit to avoid it spill.

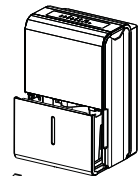
## Removing Collected Water

There are two ways to remove collected water:

### 1. Use the bucket

- When the unit is off, if the bucket is full, the Full indicator light will light.
- When the unit is on, if the bucket is full, the compressor and the fan turn off, and the Full indicator light will light, the digital display shows 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 as because the bottom of the bucket is uneven. Otherwise water may be spilled.
- Throw away the water and reposition the bucket.
- The unit will restart operation when the bucket back in place.

1. Pull out the bucket.



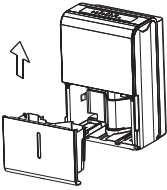
2. Hold both sides of the bucket evenly, and pull it out from the unit.

Fig. 5

## Removing Collected Water (cont.)

### **i** NOTES

- When you remove the bucket, do not touch any parts inside the unit. Doing so may damage the product.
- Be sure to push the bucket gently all the way into the unit.
- When the unit is on, if the bucket is removed, the compressor and the fan turn off, then the unit will beep 8 times and the digital display shows Eb.
- When the unit is off, if the bucket is removed, the unit will beep 8 times and the digital display shows Eb.



3. Pour the water out.

Fig. 6

### 2. Continuous draining

- Water can be automatically emptied into a floor drain by attaching the unit with a water hose (Id  $\geq \text{Ø } 5/16''$ , not included) with a female threaded end (ID: M = 1", not included).
- Remove the plastic cover from the back drain outlet of the unit and set aside, then insert the drain hose through the drain outlet of the unit and lead the drain hose to the floor drain or a suitable drainage facility. (See Fig. 7 and Fig. 8)
- When you remove the plastic cover, if there is some water in the back drain outlet of the unit you must dry it. Make sure the hose is secure so there are no leaks and the end of the hose is level or down to let the water flow.
- Direct the hose toward the drain, making sure that there are no kinks that will stop the water flowing.
- Select the desired humidity setting and fan speed on the unit for continuous draining to start.

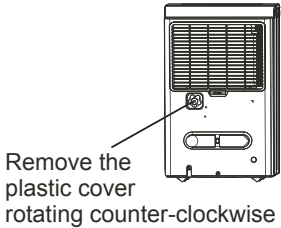


Fig. 7

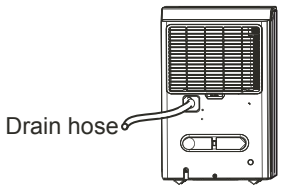


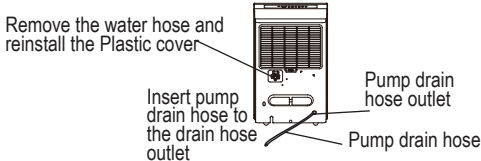
Fig. 8

### **i** NOTE

When the continuous draining feature is not being used, remove the drain hose from the outlet, and dry the water in the continuous drain hose outlet.

### 3. Pump draining (on some models)

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 (od=Ø1/4", supplied).



## Removing Collected Water (cont.)

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

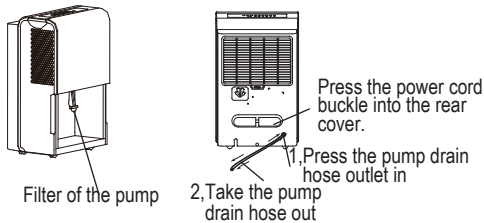
NOTE: The pump operation on light blinks at 1Hz when the pump is operational failure. Please turn off the unit and plug the power cord out. Check the following things: Cleaning the filter of the pump.

-Remove the bucket from the unit, take down the pump and clean the filter of the pump.

-Check that the pump drain hose does not link or block.

-Empty the water of the bucket.

-Reinstall the pump hose if it drops and reinstall the bucket properly. Turn on the unit. If the error repeats, call for service.



NOTE:

-Make sure the connection is tight and there is no leak.

-Lead the water hose to the floor drain or a suitable drainage facility, the drainage facility and the water hose should be lower than the drain outlet of the unit.

-Be sure to run the water hose sloping downward to let the water flow out smoothly.

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

### **i** NOTE

Do not use this operation when the outdoor temperature is equal to or less than 32°F (0°C), otherwise water may freeze causing blockages and the unit may cease to function properly.

Make sure to empty the bucket at least once a week when using the pump draining feature. When the pump draining feature is not being used, remove the pump drain hose from the outlet. Press the pump drain hose outlet in and take the pump drain hose out from it. Make sure do not let the water in the pump hose drip to the floor.

## INSTALLATION INSTRUCTIONS

### Positioning 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. (See Fig. 9)

- 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 8 inches of air space on all sides of the unit for air circulation (at least 16 inches for air outlet).
- This unit is designed to operate with a working environment between 41°F (5°C) and 90°F (32°C), and between 30%(RH) and 80%(RH). The coils can become covered with frost at lower temperatures, which may reduce performance.
- Place the unit away from any clothes dryer, heater or radiator.
- Close all doors, windows and other outside openings to the room.

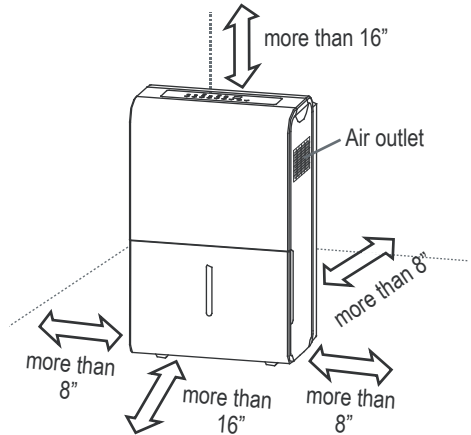


Fig. 9

# CARE AND CLEANING

Turn the dehumidifier off and disconnect the plug from the wall before cleaning.

## 1. Clean the Grill and Case

- Use water and a mild detergent. Do not use bleach or abrasives.
- Do not splash water directly onto the unit. Doing so may cause an electrical shock, cause the insulation to deteriorate, or cause the unit to rust.
- The air intake and outlet may get dirty during operation, use a vacuum cleaner or brush to clean.

## 2. Clean the bucket

Every few weeks, clean the bucket thoroughly to prevent growth of mold, mildew and bacteria. Partially fill the bucket with clean water and mild detergent. Swish it around in the bucket, empty and rinse.

### **i** NOTE

Do not use a dishwasher to clean the bucket.

## 3. Clean the air filter

- To remove the filter, pull filter outwards (See Fig. 10).
- Wash the filter with clean water then dry.
- Re-install the filter, replace bucket.

### **!** CAUTION

DO NOT operate the dehumidifier without a filter to avoid loss of performance and damage to the unit.

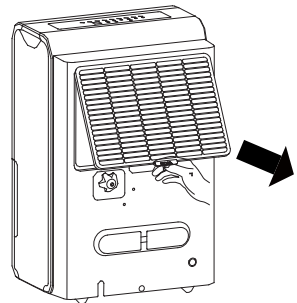


Fig. 10

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

- Before storing the unit, let it rest for one full day so that the system can dry out naturally.
- Clean the unit, water bucket and air filter.
- Wrap the cord with the power cord buckle.
- Cover the unit with a plastic bag.
- Store the unit upright in a dry, well-ventilated place.

## TROUBLESHOOTING TIPS

Before calling for service, review this list. It may save you time and money. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Solution
Unit does not start	Make sure the dehumidifier's plug is connected firmly into the wall outlet.
	Check the house fuse/circuit breaker box.
	Dehumidifier has reached its preset level or bucket is full.
	Water bucket is not in the proper position.
Dehumidifier does not dry the air as it should	Not enough time to remove the moisture.
	Make sure there are no curtains, blinds or furniture blocking the front or back of the dehumidifier.
	The humidity control may not be set low enough.
	Check that all doors, windows and other openings are securely closed.
	Room temperature is too low, below 41°F (5°C).
	There is a water vapor source in the room.
The unit makes a loud noise when operating	Air filter may be dirty. Clean filter. Refer to Care and Cleaning section.
	The unit is tilted instead of upright as it should be.
	The floor surface is not level.
Frost appears on the coils	This is normal. The dehumidifier has Auto defrost feature.
Water on floor	Hose to connector or hose connection may be loose.
	Intend to use the bucket to collect water, but the back drain plug is removed.
ES, AS, P2, Eb and E3 appear in the display	These are error codes and protection code. Check Operating Instructions.



**TOSHIBA**