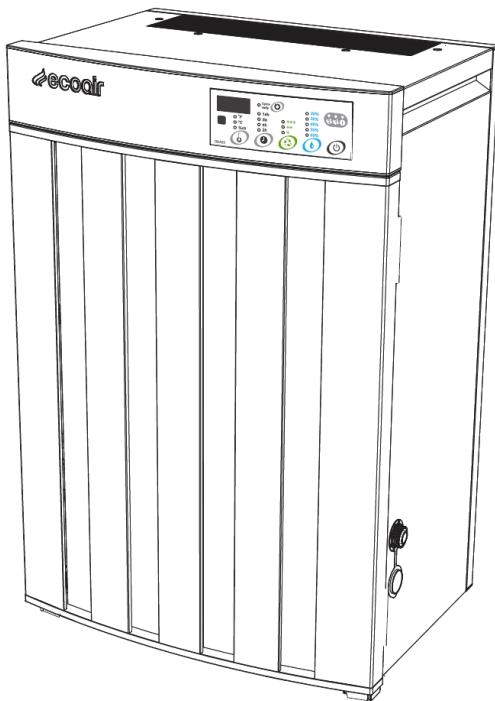# DROID

DESICCANT DEHUMIDIFIER

USER MANUAL

DISPOSAL

The appliance must not be disposed of with household waste, but taken to an authorised waste separation and recycling centre.

Please read instructions before use
Keep for future reference

Only used in a minimum area of 35m^2

Visit **ecoair.org** to register your product

WELCOME

Thank you and congratulations for choosing an EcoAir dehumidifier to help you improve the air quality within your environment. Inside you will find many helpful tips on how to use and maintain your dehumidifier efficiently. Just a little preventative care can save you money and prolong the life of your dehumidifier.

The purpose of the dehumidifier is to remove the excess moisture in the air by detecting the humidity level in the room. By keeping humidity within recommended levels, a dehumidifier combats
household damp, mould and mildew. Dehumidifiers can help to reduce the symptoms of asthma, allergies, and other respiratory health conditions. They can also be used to help dry laundry quicker and control moisture-based damage (such as the aftermath of flooding, leaks or rising damp) to
valuable belongings and furniture.

HUMIDITY GUIDE
There will always be water vapour in the air. The water vapour (or commonly known as moisture) in the air is measured in Relative Humidity (RH) %. RH is the ratio of the actual amount of water vapour in the air to the amount it could hold when saturated expressed as a percentage. Too much or too little moisture in our homes can be unhealthy and uncomfortable. The optimum humidity level is
between 40% and 60% (RH) where we feel most comfortable.
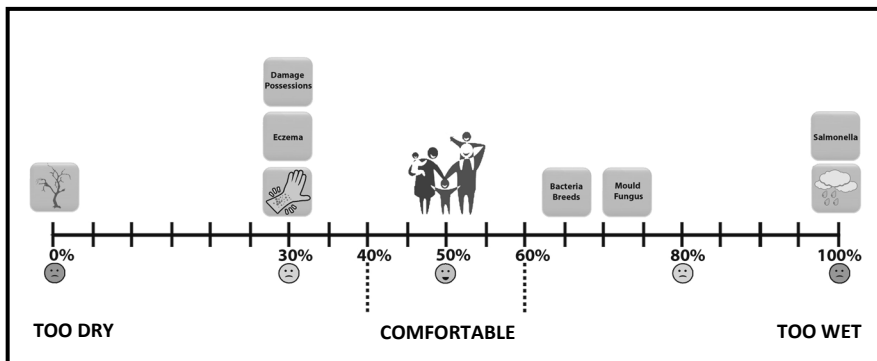
Low humidity
Low humidity indoors causes excess drying which can trigger skin irritations such as eczema, chapped skin and dry nose. It can also damage possessions, such as wooden furniture, musical instruments and artwork by drying it out too much.

High humidity
High humidity indoors causes damp and condensation. The damp left by condensation can damage plaster, wall paper, furniture, vehicles, timber windows, doors and clothes. It can be harmful to our health when bacteria thrives, causing mould and fungus.

Maintaining safe levels of humidity
It is important to maintain a consistent humidity range to preserve furniture, paintings, door and window frames. High humidity causes swelling, corrosion, softening of glues and paint. Low humidity causes shrinking, cracking, warping of wood surfaces and gaps in joints, doors and windows. Frequent changes in humidity levels can accelerate damages to property and belongings.

Condensation
The warmer the air, the more moisture the air can hold than colder air. So, when the air inside the house becomes colder, the moisture contents in the air becomes saturated, and gets heavier
resulting in moisture concentration on the coldest parts of the house particularly on the windows, bathroom mirrors and walls. This is condensation, caused by a sudden increase in humidity, cooking, showers, drying clothes, inadequate ventilation and poor thermal insulation.

Condensation does not disappear instantly even with the dehumidifier on. Where excessive condensation appears for example, on your windows, you may want to open your windows to expel the excess humidity for several minutes. It will take a while for the condensation to generally increase the humidity in the room. Once the humidity level in the room around the dehumidifier is increased above the level you have set on the dehumidifier, it will then begin the dehumidification process.
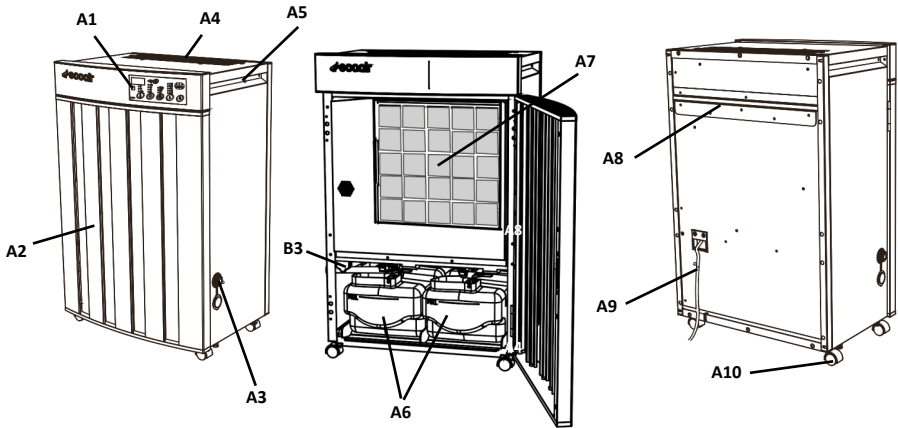
INDEX

IMPORTANT SAFETY INSTRUCTIONS
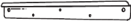
Use this appliance only as described in this instruction manual. As with any electrical appliances, the instructions aim to cover as many situations as possible, caution and common sense should be used when operating and installing this appliance. This appliance is intended for dehumidification in domestic and light commercial use only.

- Do not alter or modify the appliance's characteristics in any way. Should repairs be necessary, contact EcoAir's Authorised Service Centre. Self-servicing or unauthorised servicing can be dangerous.
- The appliance must be installed in accordance with the relevant national legislation.
- The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children and pets should be supervised to ensure they do not play with the appliance.
- Do not use the appliance If the power cable, cord is damaged It must be replaced by an EcoAir's Authorised Service Centre.
- The appliance must always be placed in an upright position on an even level surface to avoid any damage, during use or transportation and when put into storage.
- The appliance must be plugged into a grounded 3-prong outlet and ensure that the voltage matches the rated specifications. If in doubt, check with a qualified technician.
- Do not use with extension cables or multi sockets. Do not pull or place strain on the power cord when moving appliance.
- Always unplug the appliance before cleaning or maintenance or when not in use.
- The appliance must not be placed or used where the atmosphere may contain combustible gasses, oil or sulphur or solvent, or near heat sources (such as heaters or in server rooms) or excessive dust.
- Do not place or rest any objects on the appliance and do not cover while in use. Always observe the minimum room size for storing and operating the appliance.
- Allow a minimum of 50 cm clearance top + front of the appliance and 20 cm on the side. Do not place any objects in close proximity to the appliance.
- Filter must be cleaned every 2 weeks to avoid dust building up internally causing overheating and malfunction.
- To protect against electric shocks, do not immerse or spray the appliance or any of its parts in water.
- Ensure the air inlet and outlet are not blocked or covered when in use.
- Do not insert fingers or any objects into the air inlet or outlet openings.
- Do not operate or store the appliance under direct sunlight.
- Always switch of the power before unplugging from the socket.
- Do not leave the appliance running or plugged in over a long period of time unattended. Leaving unattended electrical appliances running is unsafe.
- Always make sure your hands are dry when operating the appliance.
- Only operate the appliance within the specified operating temperature range.
- Do not run power cord under carpeting, or cover with rugs or runners. Arrange the cord away from areas where it may become a trip hazard.
- This appliance must not be used outdoor.
- This appliance must be installed by a Certified electrical installer in all wet rooms, bathroom, indoor pools and zoned to IP24.
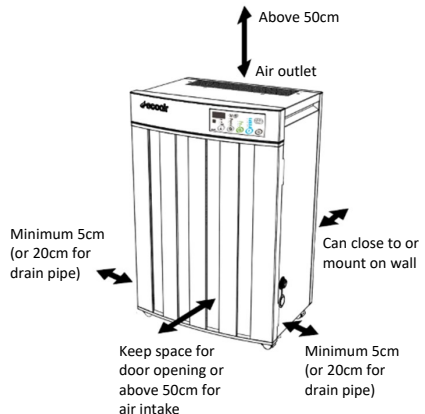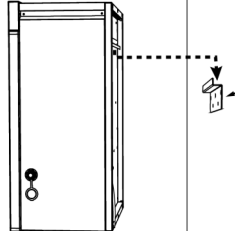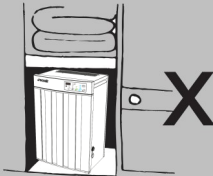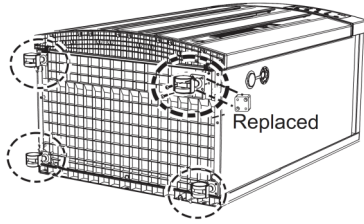
THE APPLIANCE & ACCESSORIES

Accessories List

B1	B2	B3	B4	B5
B6	B7	B8		

DESCRIPTION

Key	Description
A1	Control Panel
A2	Front Door (Air Inlet)
A3	Continuous Drainage Port
A4	Air Outlet
A5	Handle
A6	Twin Water Tanks
A7	Pre-Filter + Frame
A8	Mounting Beam & Bracket
A9	Power Cord
A10	Castor

DESCRIPTION

Key	Description
B1	Raw Bolts x 2
B2	Mounting Bracket
B3	Drain Duct (Stored when not in use)
B4	Drain Plug x 4
B5	Manual
B6	Remote Controller
B7	Carbon Filter (optional)
B8	Castors Wheels x 4

IMPORTANT SAFEGUARDS

## WHERE TO POSITION YOUR DEHUMIDIFIER?

Ensure the unit is a safe distance away from any wall or furniture and from direct sunlight.

TIP: Position the dehumidifier in the dampest area or somewhere central like a landing or a hallway. As long as the internal doors are open the excess moisture from all of the rooms in the area will migrate naturally towards the dehumidifier and be processed.

Above 50cm

Air outlet

Minimum 5cm
(or 20cm for
drain pipe)

Can close to or
mount on wall

Keep space for
door opening or
above 50cm for
air intake

Minimum 5cm
(or 20cm for
drain pipe)

HOW TO WALL MOUNT THE DEHUMIDIFIER

1. Drill 2 holes of 8mm diameter and at least 60mm depth.
2. Insert the two (B1) raw bolts through the bracket and fix into the holes by fastening the nuts.
3. The (B2) mounting bracket should be horizontal. (Holes in the same height) For accuracy use a spirit level.
4. Make sure the bracket and the unit is firmly mounted.
5. If necessary, apply a further 3 screws on the bracket.
6. Make sure the unit is even-level on the wall bracket to avoid water leak or noise.

Note: Ensure the wall strength is sufficient for the weight of the dehumidifier. Two persons needed to install the dehumidifier on the wall.

CAUTION

- Only use in a room with a minimum size of 35m^2.

- Never use in close proximity to an open fireplace or heat source such as heater, tumble dryer, cooker.

- Never use in a dusty environment or building sites where particles can clog up the filter and the internal components. This will cause malfunction, voiding your warranty.

HOW TO INSTALL CASTORS?

For ease of movement, replace the 4 rubber pads with the 4 (B8) castors. See the following instruction:

1. Lay down the dehumidifier (face up).
2. Remove 2 screws from each rubber pad and replace with the (B8) castor wheel and secure back with the 2 screws.

Replaced

INSTALLATION

INSTALLATION OF FRONT DOOR

By default, the opening hangs on the left side. You can swap it to the right as below:-

1. With the door open, remove the 4 screws that secure both the hinge.
2. Rotate the door 180° and fasten the hinges to the opposite side with the screws. (Pic 1)
3. Remove the 4 drain plugs (B4) (acting as cushions) to the opposite side. (Pic 2)


(Pic 2)

(Pic 1)
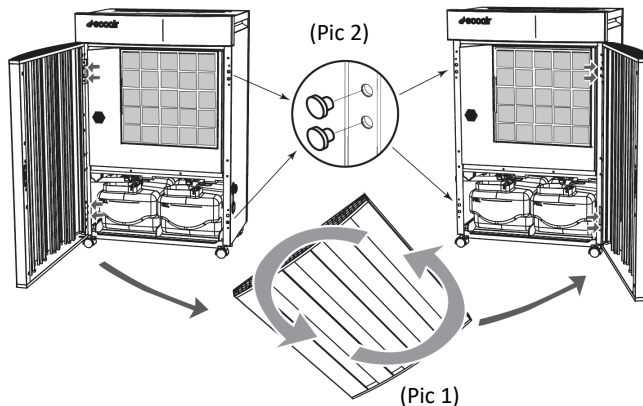
INSTALLATION OF FILTER

There are two filters provided with the dehumidifier.

1. The (A7) Pre-Filter is factory-installed in the dehumidifier.
2. The (B7) Carbon filter can be used in addition to the Pre-Filter (Purchase Separately).

Note:

Make sure the packaging has been removed before installation of the carbon filter.

Carbon filters are most effective at removing chlorine, volatile organic compounds (VOC) and odours.
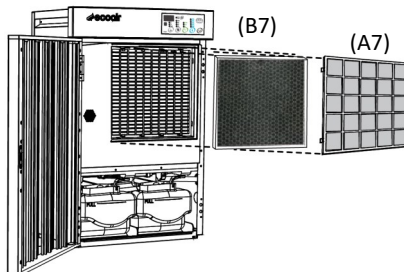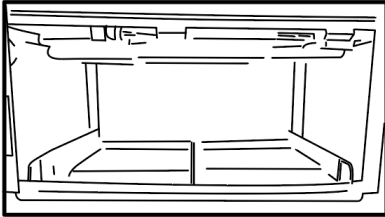

(B7)   (A7)
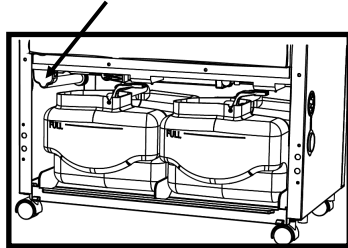
INSTALLATION

Continuous drainage can be installed from the left or right hand side of the dehumidifier.
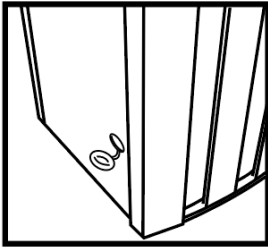
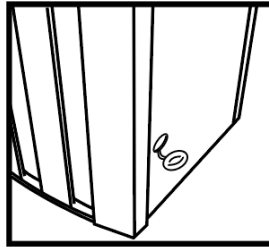**Step 1 -** Remove both (A6) water tanks

Step 2 - Remove (B3) drain duct from the left hand side of the water tanks

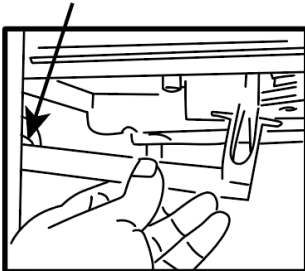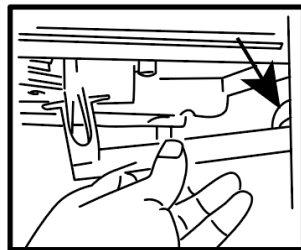**Step 3 -** Choose the required side and open the hole cover accordingly.

LEFT SIDE

RIGHT SIDE

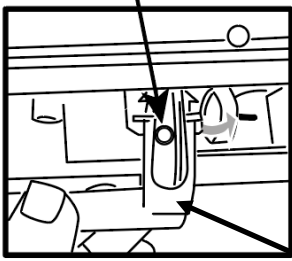**Step 4 -** Insert the (B3) drain duct through the hole from inside of the water tank compartment.

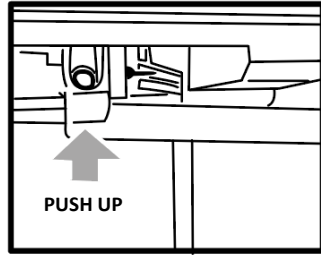**LEFT SIDE**

RIGHT SIDE

Page 5

CONTINUOUS DRAINAGE OPTION (Hose Not Included)

Step 5 - Open drain lever and align the end of (B3) drain duct into the holes above the water tanks compartment. Make sure (B3) drain duct is securely clipped in.
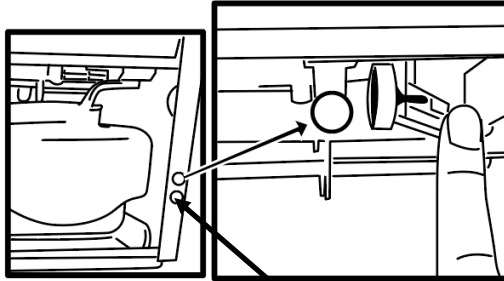

LEFT SIDE   **(B3) Drain Duct**   RIGHT SIDE

Step 7 - When running on continuous drainage, the second drain lever that is not used for the drain duct must be blocked off using the extra drain plug to stop water draining into the tank.

2 extra drain plug on either side

Step 8 - The photos below show the drain duct is attached to the left right side outlet valve . Closed with rubber bung (B4) inserted and drain lever closed.

Tank installed for continuous drainage
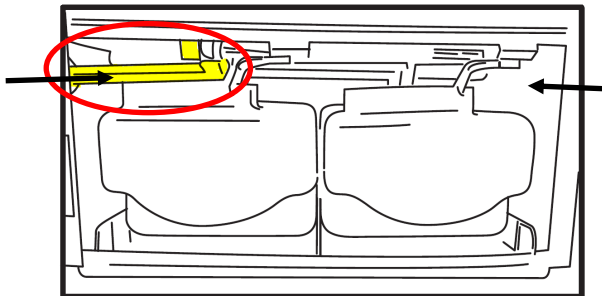
Drain plug inserted (To stop water collecting into second tank)

Page 6

INSTALLATION

CONTINUOUS DRAINAGE OPTION (Hose Not Included)

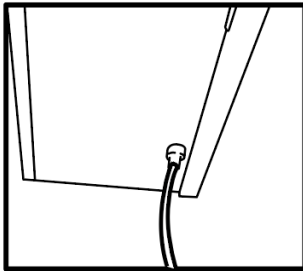**Step 9 -** Using a garden hose connector, screw into the drain duct (B3) and the hose for continuous drainage. Ensure the hose is not kinked and is draining downward to avoid leakage.

LEFT SIDE
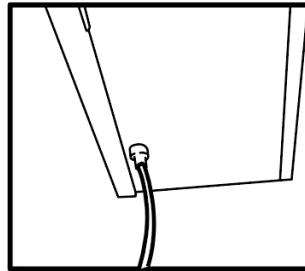
RIGHT SIDE

Be aware that the following needs to be purchased for the continuous drain option:

1) Tread Tap Connector : The size 1/2" - 3/4" (12.4 - 19mm)

2) Hose End Connector: The size 1/2" - 5/8" (12.5" - 15.5mm)

3) The drain hose

TIPS:
- Take the drain duct (B3) to the hardware store to find the correct connectors
- Go to **help.ecoair.org/knowledge** and search "Continuous drainage for my Ecoair Droid"

CONTROL PANEL

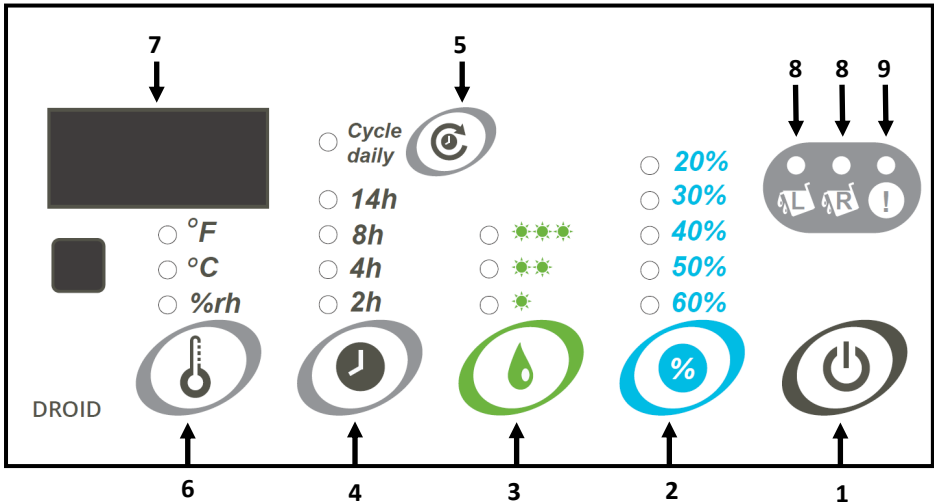

1. **Power Key** - Turn unit on **ON/OFF**.

2. **Humidity Setting** - Select the required humidity.

3. **Mode** - Select **LOW / MEDIUM / HIGH for** dehumidification power

4. **Timer** - Press to switch **ON / OFF** and then to select 2-hourly intervals up to 22 hours. (Refer page **12**).

5. **Daily Timer Memory (E10-cYc)** - Daily repeat timer option (Refer page **12**).

6. **Temperature** - Press this button to display temperature in **°C** & **°F** or relative humidity **(% RH)**.

7. **Control Panel LED Display** - The display indicates current settings and actual humidity.

8. **Water Full** - Indicator lights up when the water tank is full or incorrectly installed for each tank as denoted by **L** (left tank) and **R** (right tank).

9. **Check Indicator** - Indicator lights up when the unit needs attention.

REMOTE CONTROL

⏻	Power
%	Setting
💧	Mode
🕐	Timer
🌡	Temperature
⏱	Daily Timer Memory (E10 - cYc)
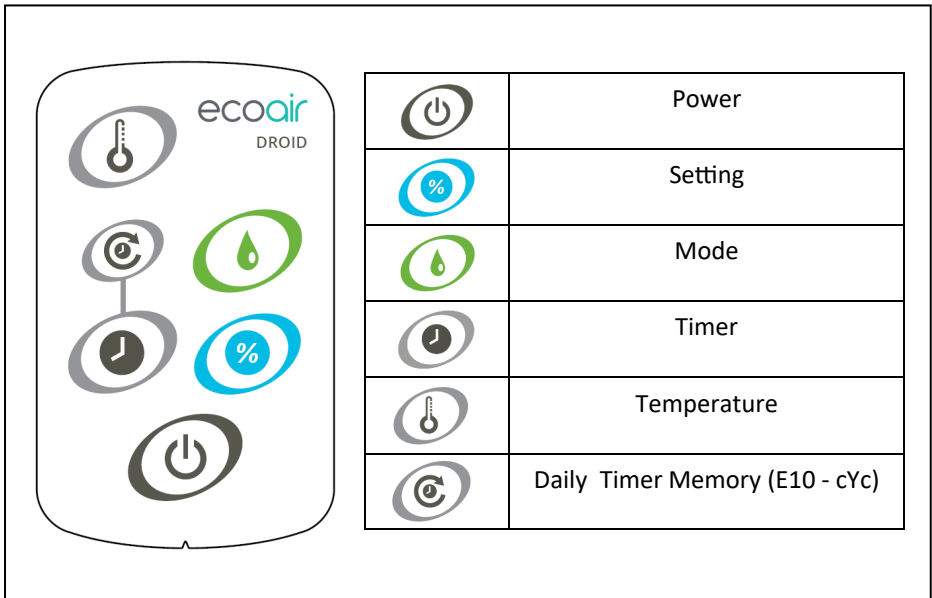
USEFUL INFORMATIONS

♦ During the operation, point the remote control towards the appliance not more than 6 meters away.

♦ Make sure there is no obstacles between the remote control and the appliance.

♦ Remote control signal may be interfered within the room where there is wireless telephone, fluorescent lamp.

♦ When appliance is not in use for a long time, please remove batteries.

♦ If there is no communication from the remote control, please replace batteries.

TEMPERATURE AND FAN SETTING

TEMPERATURE ON LED DISPLAY

The display shows temperature in Celsius or Fahrenheit or RH (Relative Humidity)

- RH (Relative Humidity)

- Celsius degree °C

- Fahrenheit °F

FAN SETTING

☀

Runs on low fan speed + low heating

☀-☀

Runs on medium fan speed + medium heating and will reduce to low automatically, when required.

☀-☀-☀

Runs on high fan speed + high heating and will reduce to medium or low automatically, when required.

HUMIDITY SETTING

In all humidity settings your Droid unit has an inbuilt energy saving mode whereby once the set humidity is reached the unit will go into a power saving mode. If The Droid detects the humidity rise above the set requirements it will automatically turn back on and resume function.

In certain scenarios, the humidity of the room your unit is positioned in may differ from the rest of your property. To tackle this we have included a built in sampling mode whereby in the energy saving mode if the Droid does not detect any changes in humidity it will run its fan every hour for 5 minutes. The fan will circulate the air around the room getting a more precise reading of the humidity in your environment. If the Droid detects the humidity is below the desired requirement it will then go back into its energy saving mode with the sampling mode repeating in an hours time.

The droid dehumidifier is capable of dehumidification down to 20% RH. Ensure that the setting is selected for the appropriate requirement. For human comfort, please select between 40% RH to 60% RH.

TIMER

TIMER - ONE OFF TIMER SETTING

There are 11 timer options that can be set:

2hr - 4hr - 6hr - 8hr - 10hr - 12hr - 14hr - 16hr - 18hr - 20hr - 22 hr

In order to set your Timer you must first select your desired fan speed as well as humidity setting.

Then set the timer for a certain number of hours for that day. The dehumidifier will run for the set hours then will switch off. As this is a manual timer setting, the dehumidifier needs to be switched on when required.

Note:

If the actual humidity of your environment falls below the humidity set on your Droid then the unit will proceed to its energy saving mode and display PAU on the digital display.

If the timer is not switched on at all, the dehumidifier will run continuously.

CYCLE DAILY TIMER (E10) - MEMORY TIMER

The Cycle Daily Timer is a memory timer which will operate on a daily basis from the moment it is set.

For example:

If you set your timer for 4 hrs the dehumidifier will run for 4 hours then switch off. After 20 hrs the unit will run again automatically for 4 hrs. This will carry on until the Cycle Daily Timer setting is changed or switched off.

In order to set up Cycle Daily Timer you must firstly set the Humidity Fan Speed & Timer to your desired requirement and then simply press the Cycle Daily Timer button.
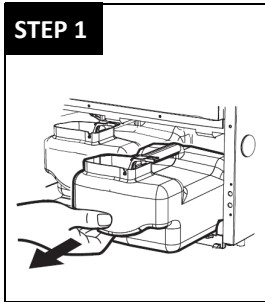
Note:

If the actual RH humidity of your environment falls below the RH humidity set on your Droid then the unit will proceed to its energy saving mode and display PAU on the digital display.
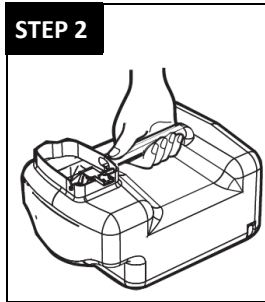
In the case of a power failure the Cycle Daily Timer will be reset.

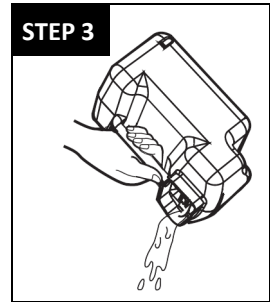The Cycle LED will flash if there is a power failure during this setting.

EMPTYING THE WATER TANK

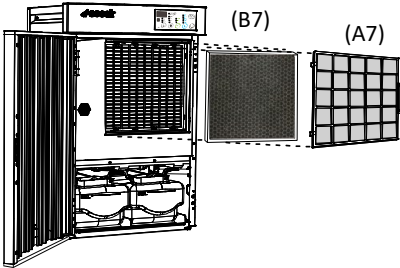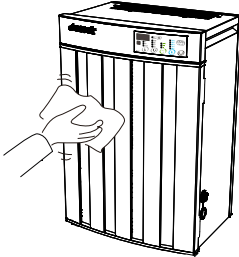| STEP 1	STEP 2	STEP 3
Slide the water tank out	Lift by the handle	Pour the water away

1. The Water Full Indicator lights up when the water tank is full. When both lights are indicated the dehumidifier stops operating as both tanks are full.

2. Do not move the dehumidifier or remove the water tank when the dehumidifier is running, as water may leak; causing damage to the dehumidifier or an electric shock.

3. Before removing the water tank leave the dehumidifier to stand for approximately 10 minutes to ensure all water has dripped into the water tank.

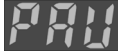|	
Step 1)	To remove the water tank, slide it out gently by gripping the water tank from bottom cutaway and pull out carefully.
Step 2)	Lift the tank with both hands each on the handle and supporting the base with the other hand
Step 3)	Pour the water away by tilting the water tank to the right side. Clean the water tank if needed.
Step 4)	Reinsert the water tank to the correct position, as soon as possible to prevent water dripping from the dehumidifier.
Step 5)	Insert the water tank back to the correct position.

NOTE :

- Clean the water tank with clean water if needed. Do not use detergent, solvents, abrasives or hot water to avoid damaging the water tank or float.

- Do not remove or damage the float in the water tank or the dehumidifier will not operate properly.

- The Water Full light indicator illuminates if the water tank is not correctly in position.

- Do not tilt the dehumidifier when removing the water tank.

- If the water tank is removed whilst the dehumidifier is running the fan will continue to run for 3 minutes.

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CLEANING, MAINTENANCE & STORING THE APPLIANCE

STEP 1 - CLEANING YOUR PRE-FILTER (A7)

1. Turn OFF the dehumidifier and remove the filter from the unit.

2. Clean the filter with a brush or vacuum cleaner.

3. Reinsert the filter back into position.

4. If the filter is covered with dust, the airflow and the performance of the dehumidifier will be affected. Check the filter periodically to ensure all dust is removed.

Tip: Clean your filter every 2 weeks to keep your air clean and prolong the life of your dehumidifier. The frequency will depend on conditions of operation.

STEP 2 - REPLACING YOUR CHARCOAL FILTER (B7)

It is recommended that the (B7) charcoal filter is replaced 3 - 6 months for optimal performance and hygiene standards. To purchase a replacement filter please visit: **www.ecoair.org**

STEP 3- CLEANING YOUR DEHUMIDIFIER

1. Turn the dehumidifier OFF, wait for the fan to stop and unplug the unit from the socket.

2. Clean the surface with a soft damp cloth.

3. Dry thoroughly with a towel after cleaning.

4. Empty the water tank. Allow water tank to drip dry or dry with a cloth.

Caution:
- Do not wash the unit or immerse in water.
- Do not let water drip into the air inlet or outlet.

STEP 4 - STORING YOUR DEHUMIDIFIER

1. Turn off the dehumidifier, wait for the fan to stop and unplug the dehumidifier from the power socket.

2. Leave the dehumidifier to drain for approximately one day. Clean and dry the water tank.

3. Clean the filter and the dehumidifier. Cover the dehumidifier to prevent it from gathering dust. Store upright in a cool dry place.

4. Do not expose to direct sunlight.

DISPLAY CODES

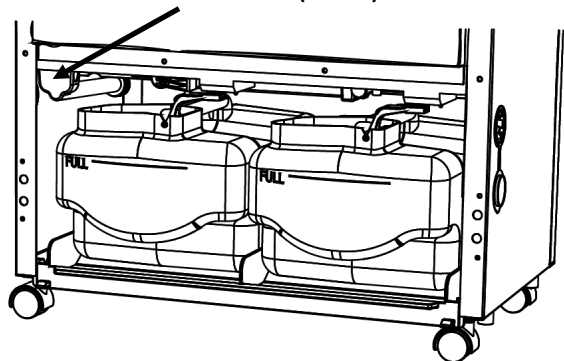| ISSUE	REASON	SOLUTION
PAU **Not Dehumidifying** **FAN**	• The dehumidifier stops when it "tilts" or falls down.	• Unplug, check if there is any damage to the dehumidifier, if there is no damage plug back in.
	• "Pau" (pause) or "Fan" shown when the humidity reaches the desired setting. • The dehumidifier will run in an energy saving mode with an inbuilt sampling mode occurring every hr.	• This is an energy saving design. The dehumidifier will return to work when the humidity goes 5% higher than the current humidity setting.
	• The dehumidifier stops dehumidifying when the temperature rises higher than 43°C (only the fan will run) or lower than -8°C (here the fan will stop and temperature will be flashing on the display)	• This is the design specification of the unit. The dehumidifier will start dehumidifying when the temperature goes below 40°C or above -5°C.
Check Light On	• Filter is clogged	• Check and clean or replace the filter
	• The air inlet or outlet is blocked or covered .	• Remove obstructions
	Er 0 **Er 4** • The dehumidifier stops by overheating or internal failure.	• Unplug the dehumidifier. Check if the air inlet, filter or top case is being covered. Wait for at least 30 mins before you switch on the Droid. If problem still exists contact Ecoair.
Full **Water Full Light On**	• Water tanks is full	• Empty water tanks
	• Water float out of position	• Check the float position as below • Restore water float back into the correct position by removing and reinserting the water tank ensuring the float position is correct

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TWIN WATER TANKS

There are two water tanks in the dehumidifier and each has a 5 Litre capacity for easy handling.

Check that the drain levers on each of the tank are not rested on the float arm assembly, (otherwise the full tank light will light on and the dehumidifier may not run or may cause leak). Simply recheck drain levers again.

B3 - Drain Duct (Stored)

DISPLAY CODES

ISSUE	REASON	SOLUTION
Not Collecting Water	• Set humidity is reached	• Readjust the humidity settings
	• Room is very cold or very dry for the current settings	• Readjust the humidity setting or increase the room temperature. • Check room temperature and humidi-
	• Filter dusty	• Clean the air filter or replace it.
	• Dehumidifier set up incorrectly	• Ensure unit is set up correctly (Quick Start Up)
	• Room Temperature is too hot • Room Temperature is too cold	• Open the window or door to ventilate • Increase heat in the room
	• Wrong humidity settings	• The ambient humidity is less than the set humidity on the unit.
Water Leaking	• Dehumidifier on uneven surface or water tank fitted incorrectly	• Ensure the dehumidifier is on a flat even surface. Use a spirit level for accuracy. Remove tank and replace correctly
	• Damaged water tank	• Remove the water tank, fill with water and place on a hard even surface to test for leakage
	• The continuous drainage is clogged or loose	• Check the continuous drainage hose and all its connections.
	• Tank is in the wrong position	• Ensure when the dehumidifier is running, that both the Water tanks are in the correct position and not blocking the drain valves. These must remain open at all times.
	• Rubber plug missing	• Ensure that when the dehumidifier is on continuous drain mode, the rubber bung should be inserted in to other side of drain out valve which is not connected for continuous drain.