

PUREDRIY

User Manual

COMPRESSOR DEHUMIDIFIER WITH AIR PURIFICATION AND IONISER

THIS PRODUCT MUST BE STORED AND OPERATED IN AN UPRIGHT POSITION

THANK YOU FOR CHOOSING OUR PRODUCT

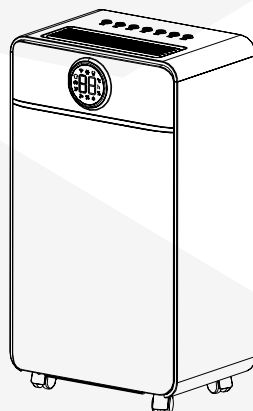
Please read this manual thoroughly before installation and operation.
Keep it in a safe place for future reference.

REFRIGERANT INFORMATION:

This appliance uses the environmentally friendly refrigerant R290, which is odourless and does not harm the ozone layer.

NOTE

Illustrations in this manual may differ slightly from your unit. Always refer to the actual product.



SAFETY WARNINGS

1. This appliance contains flammable R290/Propane refrigerant. Handle with care and never pierce, burn, or modify the unit.
2. Use only recommended by manufacturer methods for cleaning, do not use unauthorised tools or techniques. Install, operate, and store the appliance in a room with a minimum floor area of 2m² and adequate ventilation. Keep all ventilation openings free from obstruction.
3. Do not use or store the unit near ignition sources such as open flames, gas appliances, or electric heaters. Keep flammable substances away from the unit.
4. Be aware that refrigerants may not emit any noticeable odour in case of leaks.
5. Always move the unit gently and upright to prevent refrigerant line damage or leakage.
6. Only qualified and certified personnel should service the unit, particularly when handling flammable refrigerants.
7. Damaged power cords must only be replaced by the manufacturer, its service agent, or similarly qualified personnel to avoid electrical hazards.



**WARNING: This appliance contains
R290/Propane a flammable refrigerant**

IMPORTANT NOTES

1. This dehumidifier is intended for indoor use only.
2. Place the unit on a flat, stable, and dry surface. Maintain a clearance of at least 20 cm from surrounding walls or objects.
3. Do not obstruct the air inlet or outlet.
4. Arrange the power cord securely to prevent tripping or accidental unplugging.
5. Ensure drainage is properly connected, without twisting or bending the hose.
6. Do not to switch the appliance off, by pulling the plug out of the socket.
7. Avoid placing cups, containers, or liquids on top of the unit to prevent water ingress.
8. Always disconnect power before cleaning. Use a soft, damp cloth with mild detergent only. Never use gasoline, alcohol, or chemical solvents.
9. Keep the unit away from stoves, heat sources, or combustible gases. Dispose of the appliance according to national environmental and safety regulations.
10. Store in an upright position in a dry location.

GENERAL SPECIFICATIONS

CAT NO.	DIMENSIONS (HxWxD) (mm)	WEIGHT (kg)	MAX NOISE (dB)	POWER SUPPLY	NOMINAL POWER CONSUMPTION	STANDBY NETWORK POWER	OPERATING TEMPERATURE	WATER TANK SIZE (L)
DHU12W185UK	478 x 272 x 188	9.3	42	220-240V 50Hz	240W	0.99W	+5°C to +35°C	2L
DHU20W380UK	582 x 330 x 228	12.6	44	220-240V 50Hz	380W	0.99W	+5°C to +35°C	5.5L

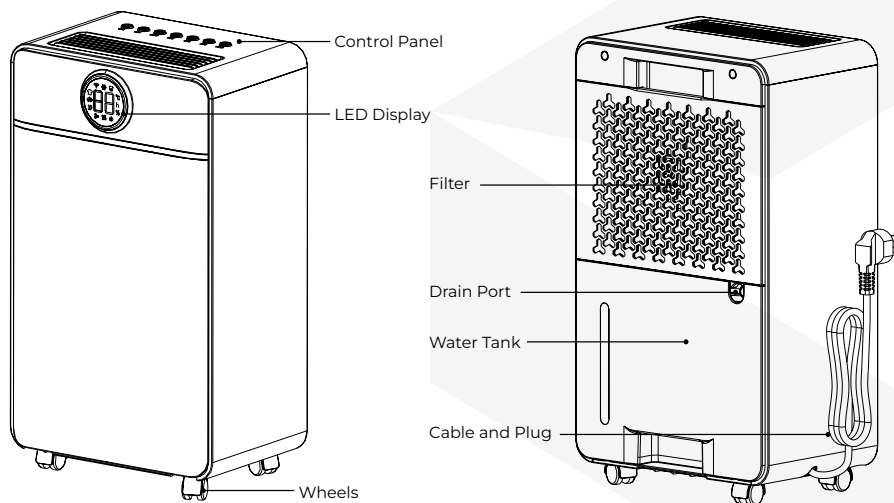
AIR FLOW

CAT NO.	LOW FAN SPEED (m3/h)	HIGH FAN SPEED (m3/h)	FILTER TYPE	EXTRACTION RATE	FAN SPEEDS	REFRIGERANT	VARIABLE HUMIDISTAT
DHU12W185UK	150	180	Dust filter and optional HEPA 13 filter	12L/day	2	R290	Yes (between 25%RH to 80%RH)
DHU20W380UK	180	220	Dust filter and optional HEPA 13 filter	20L/day	2	R290	Yes (between 25%RH to 80%RH)

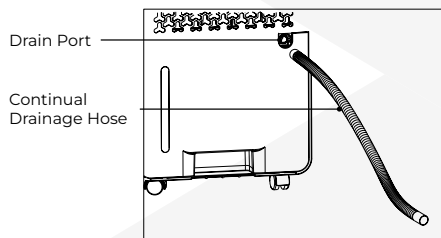
PRESET MODES

CAT NO.	CUSTOM	LAUNDRY	WET WEATHER	NIGHT	MOULD GUARD	AIR PURIFICATION
DHU12W185UK	Yes	Yes	Yes	Yes	Yes	Yes
DHU20W380UK	Yes	Yes	Yes	Yes	Yes	Yes

PRODUCT PARTS

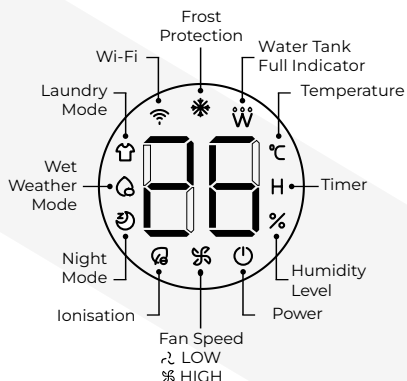
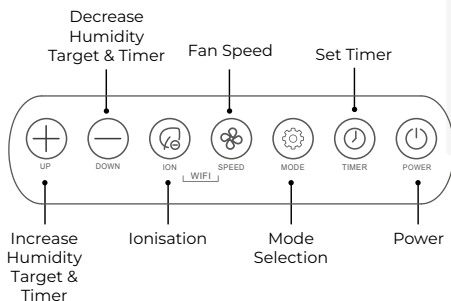


*Illustration may vary dependent on 12L or 20L version.






CONTROL PANEL & DISPLAY SCREEN

Temperature: Once $^{\circ}\text{C}$ is selected press the + & - to display the current room temperature



CONTROL PANEL & DISPLAY SCREEN

1. POWER

1. After plugging in the dehumidifier, the  light will turn on. It will make a beep sound and then enter standby mode.
2. Press the  button to enter **custom mode**. The LED display will show the ambient humidity.
3. Press the  button again to stop the compressor to turn off.

NOTE: After switching off, the fan will continue to run for approx 30 seconds before automatically shutting off.

COOLING DOWN PERIOD

This dehumidifier uses a compressor, which requires a short cooling-down period after operation. This is a normal and important part of the process, that helps protect internal components and extends the lifespan of the product.

2. PRESET MODES

Puredry comes with 6 preset modes and settings which allow easy and quick switching depending on your needs.

Press the Mode button to cycle between following modes:

(a) LAUNDRY MODE

- Target Humidity: Fixed at 35%
- Fan Speed: High

(b) WET WEATHER MODE

- Target Humidity: Fixed at 45%
- Fan Speed: High

(c) NIGHT MODE

- Target Humidity: Fixed at 50%
- Fan Speed: Low

The humidity targets and fan speeds are predefined for each mode.

Any attempt to adjust the humidity level or fan speed will automatically switch the unit to Custom Mode.

When the mode of target humidity changes, the display will first show a target setting for 3 seconds before changing to showing what it is sensing.

(d) MOULD GUARD MODE

“A” will be displayed when product is in this mode.

Mould Guard mode is designed to maintain a healthy indoor humidity level between 45–55%, helping to prevent mould growth, which typically begins at levels above 60%.

When ambient humidity rises above 55%, the unit will operate until the humidity is reduced to 45%.

Once humidity reaches 45%, the unit enters standby mode to prevent the air from becoming too dry and to conserve energy.

If humidity rises again to 55%, the unit will automatically resume operation.

FAN SPEED (In Mould Guard Mode only)

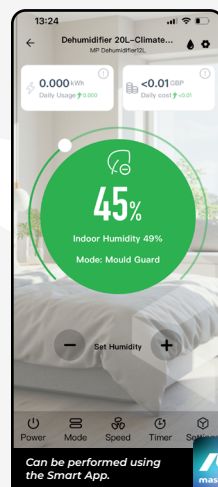
High fan speed is activated when humidity is between 50–55%.

Low fan speed is activated when humidity is between 45–49%.

IMPORTANT:



Mould Guard mode requires the unit to remain switched ON.

Turning off the power or switching the unit to OFF will stop this function.



(e) CUSTOM MODE

The target humidity level (25%–80%) can be set by pressing the **+** **–** buttons.

The fan speed can be adjusted by pressing the Fan button to switch between Low F1 () and High F2 ().

(f) AIR PURIFICATION MODE

When **AIR PURIFICATION** Mode is selected, 'PU' is displayed on the device display.

This mode allows the dehumidifier to operate as an air purifier only, without dehumidifying the room. It is useful during periods of high pollen, pollution, or when windows are open on warm days.

When activated, the compressor is turned off, and the fan continues to run, maintaining air purification through the HEPA filter and optional ionisation function.

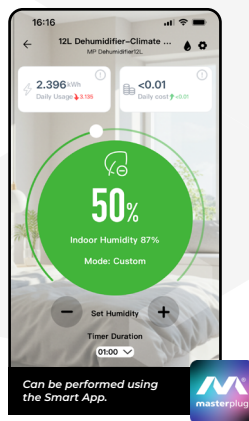
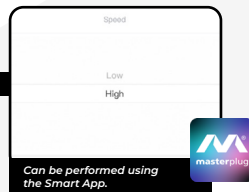
3. TIMER FUNCTION

The timer can be used to set automatic shut-down after a selected time.


To set automatic shut-down (while the unit is running):

1. Press the Timer button.
2. Select the desired time by pressing **+** or **–**.
3. Smart Energy App: Once confirmed, a "timer duration" message will appear on the Smart Energy App screen.
4. Smart Energy App: To adjust the countdown, tap the displayed time and select a new duration.
5. To cancel the timer, press the Stop button.

FAN SPEED



4. IONISATION

Press  to activate the ionisation function.
Press the button again to deactivate the function.

The ioniser releases negative ions that bind to fine airborne particles, such as smoke or dust. This causes them to fall from the air more easily, helping reduce airborne pollution and contributing to fresher indoor air.

These features operate together with the dehumidification process to create a drier, cleaner and healthier environment.

This model includes a HEPA 13 filter and built-in ioniser to support better air quality.

The HEPA 13 filter removes up to 99.97% of airborne particles as small as 0.3 microns, including dust, pollen, pet dander, and mould spores. This is particularly beneficial for users with allergies, pets, or sensitivity to air pollutants.

Note: Ionisation default ON unless switched off on unit or in app.

Ionisation



Ionisation mode actively improves air quality by releasing negative ions to neutralise airborne pollutants. It supports HEPA 13 filter, which passively captures up to 99.97% of fine particles.



Note: ON BY DEFAULT





5. SET HUMIDITY + -

The target humidity level can be set within a range of 25%–80%.

6. DISPLAY BRIGHTNESS

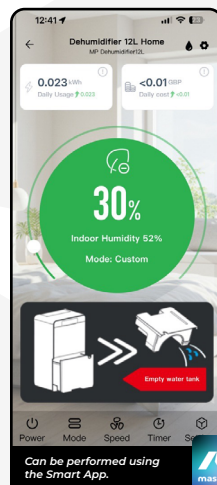
The brightness of the LED display can be reduced by enabling the “Dim Device Display” option in the MP SmartEnergy App or directly on the unit by pressing the  and  buttons simultaneously. Display brightness can be changed between 100%, 50%, OFF.

7. MUTE SOUND

The device beep sound can be disabled by enabling the “Disable Device Beep” option in the MP SmartEnergy App or directly on the unit by pressing the  and  buttons simultaneously.

8. WATER TANK FULL INDICATOR

Lights up when the water tank is full or has been removed from the unit.

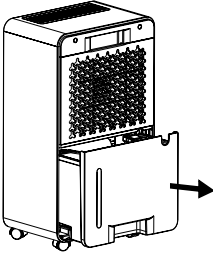


DRAINAGE INSTRUCTIONS

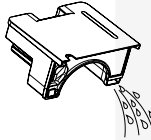
WHEN THE WATER TANK IS FULL:

- The unit stops automatically.
- The "Water Tank Full" indicator light turns on.
- The LED display flashes "E4".
- The unit sounds an alarm with 3 beeps.

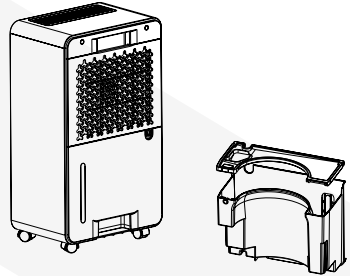
1. Remove the water tank



2. Empty the water tank



3. Reinstall securely



IMPORTANT NOTES

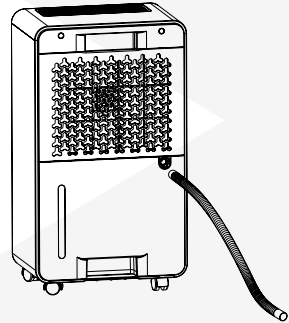
The collected water can be used for watering **non-edible plants only**.

Do not drink or consume this water, as it is not safe for human or animal consumption.

CONTINUOUS DRAINAGE SETUP

If you prefer not to empty the water tank frequently, you can use the continuous drainage function by connecting the supplied drainage pipe.

- Locate the drain port at the back of the appliance.
- Attach the supplied drain pipe securely to the port.
- Position the pipe to allow smooth water flow into a suitable drain.
- Avoid bends, blockages, or excessive elevation in the pipe.



IMPORTANT NOTES

Ensure the other end of the pipe is positioned to allow free water flow into a suitable drain.

Confirm the pipe is not bent, blocked, or lifted too high, as this may prevent proper drainage.

OPERATION REMARKS

- After switching off the unit, wait at least 3 minutes before restarting to protect the compressor.
- Recommended operating temperature range for the dehumidifier: 5°C to 35°C.
- If the unit does not start or shuts off unexpectedly, check the power connection and wait 10 minutes before retrying.
- The compressor may cause a slight increase in room temperature during operation.
- During the defrosting cycle, the compressor will pause while the fan continues running.

MAINTENANCE

CLEANING THE UNIT

- Wipe the exterior with a soft cloth and mild detergent
- Do not use abrasive cleaners, solvents, or spray directly into the unit

EXTERNAL DUST FILTER MAINTENANCE

The unit is equipped with a removable and washable dust filter, which serves as the first stage of filtration before the air passes through the internal HEPA filter. Remove and clean the external filter every two weeks to maintain optimal performance

- Rinse with clean water or warm water below 40°C
- Allow the filter to air dry completely before reinstalling
- Do not use chemicals, detergents, or hair dryers to clean or dry the filter

STORAGE

- Before storing the appliance, ensure it is clean and dry
- Cover and store in a cool, dry place, away from direct sunlight and heat sources

FROST PROTECTION FUNCTION ❄

The frost symbol indicates that the frost prevention function is active. This automatic feature protects the dehumidifier's evaporator from freezing and ensures efficient performance in low temperatures.

Defrosting is disabled above 23°C. Below this, the compressor alternates between running and defrosting cycles. As the temperature drops, the compressor runs for shorter periods, and defrosting intervals become longer. If the ambient temperature falls below 5°C, the compressor stops operating completely

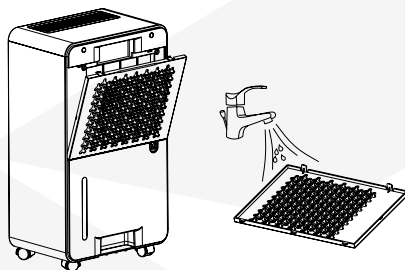
This function helps maintain performance and prolongs the lifespan of the appliance.

EXTERNAL FILTER MAINTENANCE

1. Remove and clean the filter every two weeks
2. Use water or warm water (below 40°C)
3. Allow to air dry fully before reinstalling
4. Do not use chemicals or dryers

IMPORTANT

Do not touch internal heat exchanger fins.
These can bend easily and can effect performance



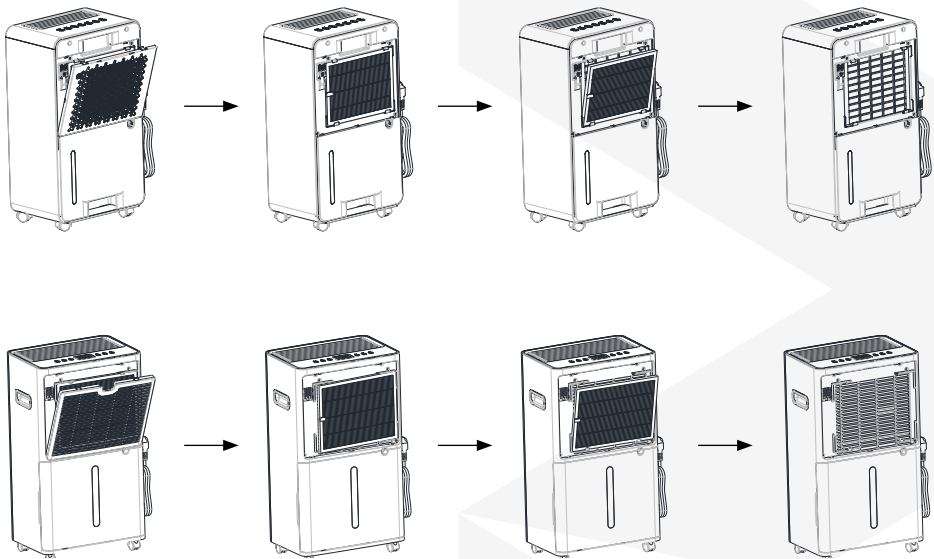
HEPA 13 FILTER

The unit is equipped with replaceable HEPA 13 filter, that helps capture and remove harmful airborne particles such as dust, pollen, smoke, and allergens. As a passive purification system, it works alongside the ionisation function to maximise air cleaning performance by neutralising and reducing pollutants for a cleaner, fresher indoor environment.

HEPA FILTER REPLACEMENT GUIDE:

- Every 4–6 months: In homes with smokers, pets, or allergy sufferers
- Every 12 months: Under normal usage and average indoor air quality
- Regular replacement ensures optimal performance and long-term air quality benefits

HEPA FILTER REPLACEMENT



TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Hot air output	Normal compressor operation	No action needed
Unit won't start	Not plugged in/Water tank full or misaligned	Check connection/Empty or reinstall tank
Poor dehumidification	Low room humidity, blocked vents	Clear obstructions
No airflow	Filter blocked	Clean the filter
Noisy operation	Uneven surface, dirty filter	Level the unit, clean the filter

If the dehumidifier presents any of the following error codes please contact the manufacturer:

CODE	DESCRIPTION	SOLUTION
E1	Temperature sensor disconnected	Temperature and humidity sensor
E2	Temperature sensor short-circuited	Temperature and humidity sensor
L3	Humidity sensor short-circuited	Temperature and humidity sensor
E4	Water tank full or not correctly positioned	Empty the tank and ensure it is seated properly
L5	Air inlet temperature too high (>35°C)	Make sure the dehumidifier is being used in an environment between 5°C and 35°C
L6	Air inlet temperature too low (<5°C)	Make sure the dehumidifier is being used in an environment between 5°C and 35°C
E6	Data transfer fault	Check the connection between the power board and keypad

If any other error codes appear on the display, please contact the service centre for assistance.

CORRECT DISPOSAL OF THIS PRODUCT:



Do not dispose of this product with household waste.
Use appropriate recycling or collection systems to protect the environment.

WARRANTY INFORMATION

The manufacturer provides warranty in accordance with the legislation of the customer's own country of residence. The warranty only covers defects in material or workmanship. When making a claim under the warranty, the original bill of purchase (with purchase date) must be submitted.

Warranty Exclusions

The warranty does not cover the following:

- Normal wear and tear
- Damage caused by external factors or misuse (e.g. impact, force, or environmental conditions)
- Appliances that have been partially or fully dismantled
- Errors resulting from unauthorised modifications or tampering
- Damage due to incorrect use or failure to follow the user manual, including:
- Connection to an unsuitable power supply
- Improper installation or usage not in accordance with instructions

WI-FI SETUP:

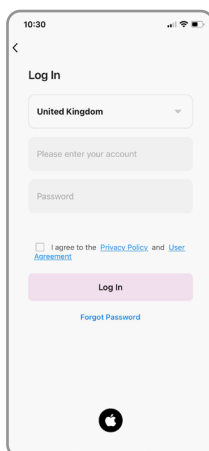


Use the QR code to download the MP SmartEnergy APP for control of the heater remotely.

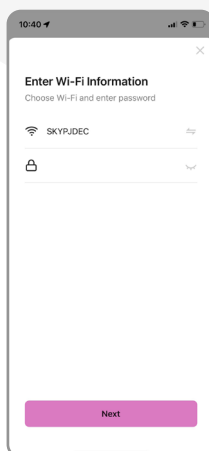
CONNECTING TO WIFI:



Open APP and select **Log In.**



Enter login email address and password.



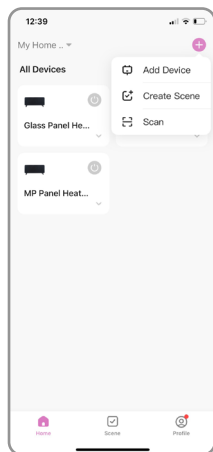
Select WIFI Network, enter password.
Next.

Wi-Fi Reset

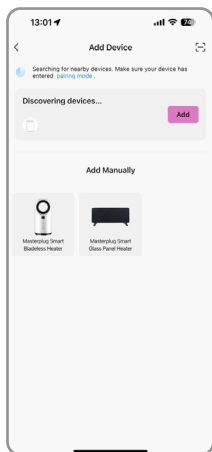
To reset the Wi-Fi connection, press and hold the ION and SPEED buttons simultaneously until the Wi-Fi indicator begins to blink. This will allow you to reconnect the dehumidifier to your network via the MP SmartEnergy App.


Please make sure your phone is connected to **2.4GHz WiFi** (not 5GHz) so your device can be discovered and setup successfully.

ADDING DEVICE:

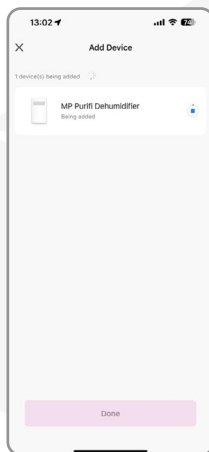


In home screen select **Add Device**.

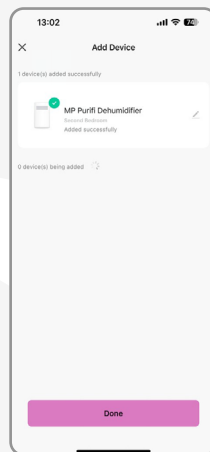


Press  and wait for icon to flash, it is now in pairing mode.

Select **Add** on discovered devices.

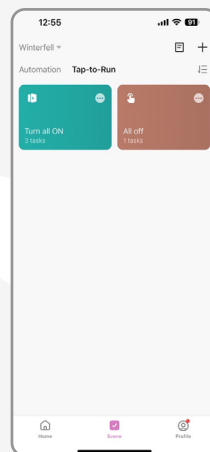
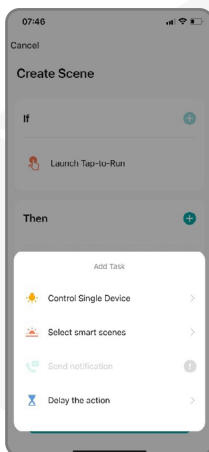
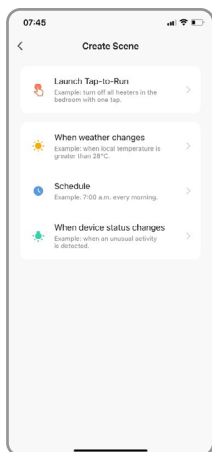
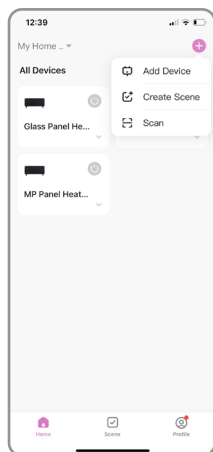


Allow device to sync.



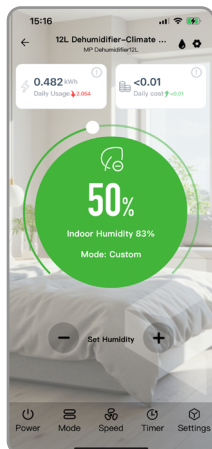
Select **Done**.

CREATING A SCENE:

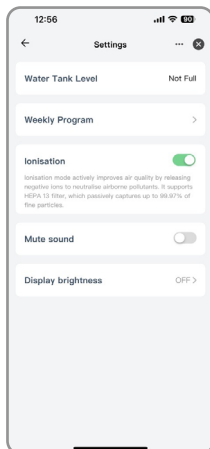


Scenes for specific environments can be created by setting specific tasks for multiple products such as a tap to run functions for "All Devices ON" & "All Devices OFF".

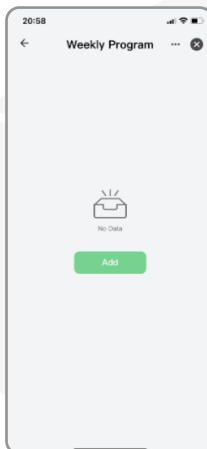
CREATING WEEKLY PROGRAM:



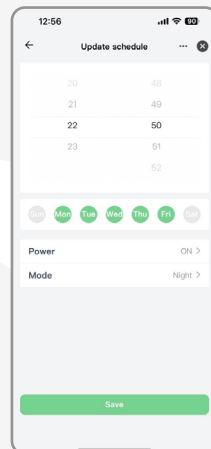
Select **Settings** on device page.



Select **Weekly Program**.

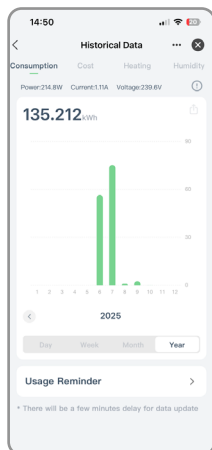


Select **Add**.

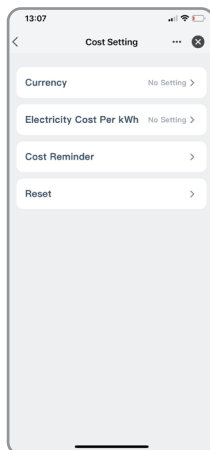


Populate time, days, select **ON** function. Set power mode. **Save**.

SETTING YOUR ELECTRICITY COST:



Select **Cost Setting** Menu in Electricity Statistics screen.



Enter your currency, electricity cost per unit kWh, and add cost reminders to monitor usage and spend.



**UK DECLARATION OF CONFORMITY**

This declaration has been issued under the sole responsibility of the manufacturer.

Product

- DHU12W185UK, DHU20W380UK
- De-humidifier with Smart Energy Monitoring
- Type / batch or serial number range 25W41 to 28W52

Name and address of the manufacturer or his authorised representative:

Luceco plc Luceco UK Ltd:
Building E, Stafford Park 1
Telford, Shropshire
TF3 3BD, UK

The object of the declaration is in conformity with the relevant Union harmonisation legislation.

UK SI 2016 No. 1101 The Electrical Equipment (Safety) Regulations

UK SI 2016 No. 1091 The Electromagnetic Compatibility Regulations

UK SI 2017 No. 1206 RED - Radio Equipment Regulations

UK SI 2012 No. 3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

LVD: EN IEC 60335-2-40: 2024 + A11:2024

EN60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019
+A14:2019 +A15:2021 + A16:2023

EN 62233:2008

EMC: EN IEC 61000-3-2:2019+A1:2021+A2:2024

EN 61000-3-3:2013+A1:2019+A2:2021

EN IEC 55014-1:2021

EN IEC 55014-2:2021

PSTI: EN 303 645

RED: EN 301 489-1 V2.2.3

EN 301 489-17 V3.3.1

EN 300 328 V2.2.2

EN IEC 62311: 2020

Signed for and on behalf of Luceco UK

Name: Shyel Stark

Position: Product Manager

Signature: 

On: 19/09/2025

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Product

- DHU12W185UK, DHU20W380UK
- De-humidifier with Smart Energy Monitoring
- Type / batch or serial number range 25W41 to 28W52

Name and address of the manufacturer or his authorised representative:

Luceco plc, Luceco Southern Europe, S.L.
C/ Bobinadora 1-5
08302 Mataró
Barcelona (SPAIN)

The object of the declaration is in conformity with the relevant Union harmonisation legislation.

2014/35/EU Low Voltage Directive

2014/30/EU Electromagnetic Compatibility

2014/53/EU Radio Equipment Directive

2011/65/EC, 2015/863/EC Restriction Of The Use Of Certain Hazardous Substances

1907/2006/EU Registration, Evaluation, Authorisation and Restriction of Chemicals

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

LVD: EN IEC 60335-2-40: 2024 + A11:2024

EN60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019
+A14:2019 +A15:2021 + A16:2023

EN 62233:2008

EMC: EN 61000-3-3:2013+A1:2019+A2:2021

EN IEC 55014-1:2021

EN IEC 55014-2:2021

EN IEC 61000-3-2:2019+A1:2021+A2:2024

PSTI: EN 303 645

RED: EN 301 489-1 V2.2.3

EN 301 489-17 V3.3.1

EN 300 328 V2.2.2

EN IEC 62311: 2020

Signed for and on behalf of Luceco UK

Name: Shyel Stark

Position: Product Manager

Signature: 

On: 19/09/2025