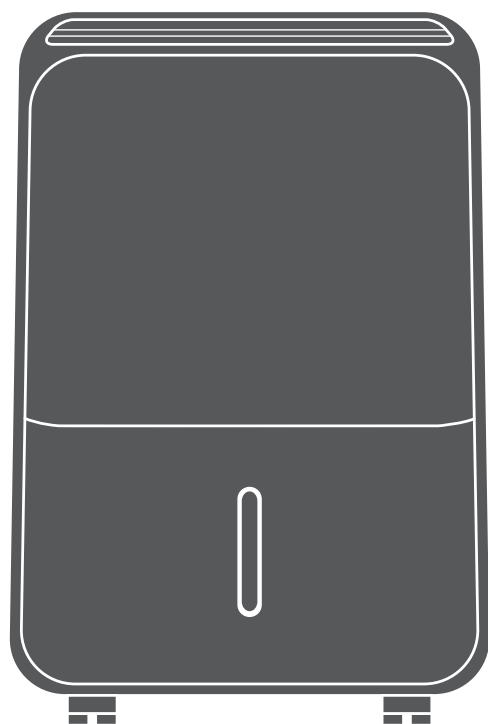




DEHUMIDIFIER - AIR PURIFIER

- USER'S MANUAL



MODELS:
AT-IONUV-20L
AT-IONUV-25L
AT-IONUV-25LBS



LANGUAGES

ENGLISH	3
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Dear Consumer,

Congratulations on your choice!

"Atmosphere XL" dehumidifier-air purifier is an innovative device that ensures both dehumidifying and purifying capabilities with a premium performance. It's dual usage , offers benefits that one would have with two dedicated units. With our "Atmosphere" you can enjoy a healthy&comfortable living and take advantage of all the extra benefits.

Please refer to this manual, to obtain full efficiency of the dehumidifier - air purifier, through the guidelines included in the following pages and make savings via clever use of this device.



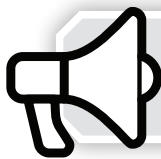
Please read all the safety instructions carefully before use and keep this instruction manual for future reference.

1. SAFETY & WARNING INSTRUCTIONS

For your continued safety and to reduce the risk of injury or Electric shock, please follow all the safety warnings list below.

- Please be certain the power supply is 220-240V/50Hz.
- To avoid possible electric shock, this device should not be placed near a window or in a bathroom.
- Do not operate this unit if not in a up-right position. If the device has been tipped over it must be unplugged immediately. If the unit has been placed on its side for a longer period of time, it is advised to allow the unit to stand in its up-right position for at least 2 hours prior to its operation.
- Please ensure a required clearance of 30cm on all sides
- Be certain the inlet and outlet ventilation is not obstructed at all times
- Do not spray or spill any water on this unit, as this may result in malfunction and/or possible shock.
- Do not pull the power cable with force as this may result in its damage.
- Always power off the unit prior to unplugging to avoid possible electric shock.
- Handle this device with care. The appliance must be unplugged prior to cleaning.
- Empty the water reservoir before moving the unit.
- No children under the age of 8 should be permitted to operate this electric device. Be certain, that children, handicapped people, or people with the lack of knowledge and experience, must be supervised, depending the situation, by persons responsible for their well-being and do not undertake procedures such as the cleaning or the maintenance of this device.
- It is important that adequate supervision is provided and no minors are left unattended with this device.
- This dehumidifier is for domestic and small office use only. Do not use this device for commercial, industrial or marine use, and in areas with wet surfaces such as restrooms or shower rooms. To avoid possible electric shock, this device should not be placed near a window or in a bathroom.
- This device should always be kept in an upright position to avoid any damage. Operate the unit in a flat and sturdy surface to avoid possible vibration and extra noise.
- All house exits (windows doors etc) where the dehumidifier is operating, should be shut.
- If water leakage appears within the unit, turn the unit off and disconnect the power cord.
- Before moving, unplug the device and manage to keep it in a vertical position in order to safely be transferred from one area to another.
- Be sure to empty the water whenever the water tank is full or when the device will not be used for a prolonged time.
- Always empty the water tank before storing the unit.
- If the unit is misplaced or tipped, unplug the power cord immediately. Make sure the unit is completely dry before resuming operation.
- Disconnect the device, if abnormal sounds, odors or smoke occur.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons to avoid a hazard. Never attempt to dismantle, repair or modify the device.
- Do not attempt to repair, dismantle or modify this appliance. Contact your authorized service technician for repair or maintenance of this device.
- Do not operate or stop the unit by switching the power supply on or off.
- Do not insert any objects in the unit's air inlet and exhaust as this may cause damage to the device.
- Do not place heavy objects on the power cord. Make sure that the cord is not compressed.
- Do not place cord under any obstacles (carpets rugs or runners etc). Cord should be arranged away from areas where accidental tripping may occur.
- Casters should be able to move comfortably over any obstacle. Be extra cautious while moving over carpets, since any extra force may cause the tipping of the unit, or the spilling of any water collected in the bucket.
- Do not sit or climb on the device.
- Do not place the unit in direct sunlight or near other heating sources.
- Do not use the unit near heat sources, chemicals, radiators, flammable materials or fire.
- Do not remove the water tank while the device is in use.
- Do not use the device without the filter. Dirt and lint may clog the unit thus reducing performance.
- Do not drink or use the collected water of the unit for any purpose.
- Do not use the unit with wet hands.



Upon first use, and for proper calibration, please allow unit to operate continuously for 24 hours.

2. ELECTRICAL INFORMATION

The nameplate with all the electrical and technical data of this appliance, is located on the opposite site of the unit.

- The appliance should be installed in accordance with national wiring regulations.
- Be sure the device is grounded properly. Proper grounding is important as it minimizes the chance of electric shock or fire. The power cord is equipped with a grounding plug for protection against electric shock hazards.
- The device must be used in a properly grounded wall socket. If the specific socket 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 wall socket is still accessible after the installation of the dehumidifier.
- Do not use extension cords or adapter plugs with this device.
- To avoid personal injury, always disconnect the power supply of the device, before maintenance.



Power off the dehumidifier before removing the plug.

3. SOCIABLE REMARKS ENVIRONMENTAL PROTECTION

Disposal of equipment no longer used:

Please follow the instructions below, when using this dehumidifier in European countries.

● This appliance requires special treatment for disposal. In the European Union, electronic equipment must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2002/96/EC of the European Parliament and Council of 27th January 2003 concerning old electrical and electronic equipment.

The disposal of this unit should follow all legal requirements and should not be disposed as unsorted municipal waste.

The hazardous substances can leak into the ground water supply thus entering the food chain, endangering your health and the environment.

● There are several alternative solutions for disposal:



A) Your local municipality has established free collection systems for electronic waste.

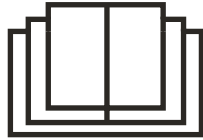
B) Your local retailer upon purchase of a new product.

C) The manufacturer may accept the old appliance for disposal.

D) Old appliances sometimes contain valuable resources for scrap metal dealers.

4. ADDITIONAL WARNINGS FOR APPLIANCES WITH R290 REFRIGERANT

(refer to the nameplate for the type of refrigerant used)



- REFER TO THE USER'S MANUAL PRIOR TO USING THIS APPLIANCE.
- R290 refrigerant complies with European environmental directives.
- Do not penetrate in any way or burn.
- The maintenance and repairs that require the assistance of qualified personnel should be carried out under the supervision of inflammable refrigerant specialists.



For detailed instructions on performing repairs on appliances which contain the refrigerant R290 please refer to Section "INSTRUCTION FOR REPAIRING APPLIANCES CONTAINING REFRIGERANT R290"

5. STEPS BEFORE USE

User's manual

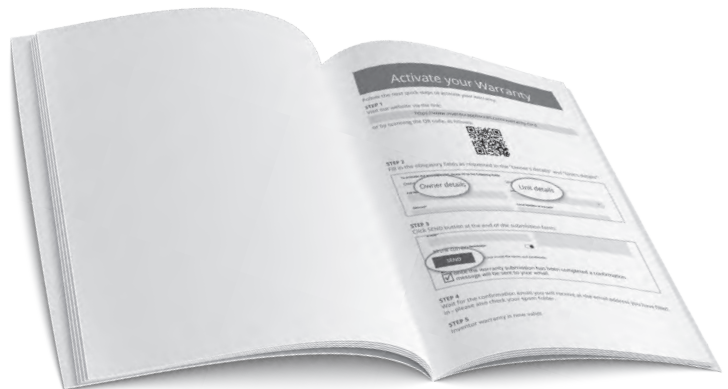


Drain hose



Dehumidifier - Air Purifier with Compressor

Please refer to the electronic warranty instructions, in the last page (English section) of this manual.



For warranty purposes, please note the SN (serial number) placed on the device.

Installation tips

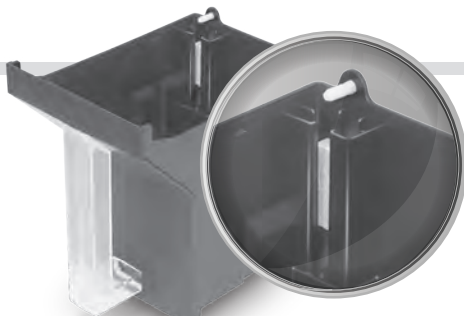


1) Do not block or restrict the airflow around the unit. Make sure the air inlet exhaust grills are not obstructed. Allow 30cm of clearance around the unit and 40cm above.

2) Place the unit in an area where the temperature levels will not fall below 5°C (41°F). There is a possibility the coils will collect frost at temperatures that are under 5°C (41°F), which may result in low performance. (Working conditions: 5°C-35°C, 30%RH-90%RH).

3) Ensure the filter is clean.

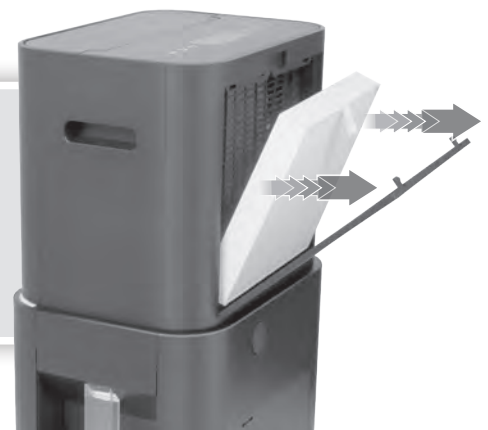
4) Place unit in vertical operating position and allow 2 hours before initial use in order to avoid malfunctions.



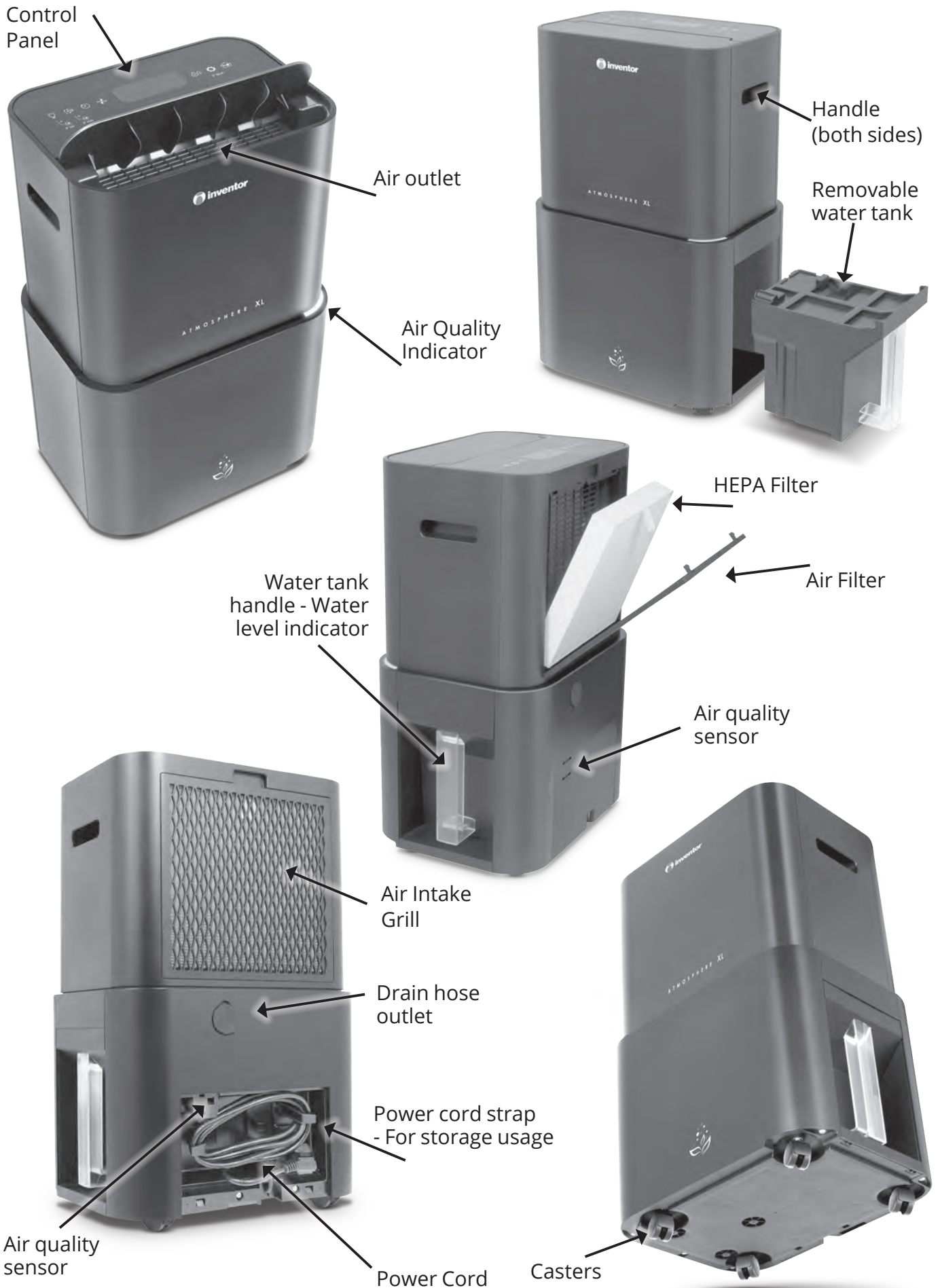
5) Before the initial operation, please check, if the water level switch, located within the water bucket area, is in the right position.



- Remove the filter components
- Remove the protective plastic packaging of the filter prior to initial use.
- Install the filter components



6. GETTING TO KNOW YOUR DEHUMIDIFIER



7. CONTROL PANEL • FUNCTIONS







POWER

By pressing the "POWER" button the dehumidifier/air purifier turns ON or OFF. Once powered, the digital display is active indicating the current settings.

- When the set humidity is reached, the Energy Savings function is automatically activated during which the unit will remain on standby. After the predetermined timeframe and if the humidity levels have increased, the device will resume dehumidification.







OPERATION

The air purify mode remains always in function, indicated by the icon  on the monitor of the unit. By pressing the OPERATION button you may select to operate as an Air Purifier only or as an Air Purifier/Dehumidifier. When the dehumidify mode is on, the icon  is shown on display.



- When the unit operates as an Air Purifier , the indications on the display refer only to the air quality. Under this operation no dehumidification takes place.
- When the unit operates as a Dehumidifier & Air Purifier , the indications on the display are referring to the room humidity. During this operation dehumidification is on.

AIR QUALITY LED LIGHT



A LED indicator displays the air quality under various colorings.

- the GREEN led light ($0 < \text{PM}_{2.5} \leq 50 \text{ ug/m}^3$) indicates great air quality. During Automatic mode , on the operation of the Air Purifier , the device automatically adjusts fan speed to Low (1).
- the BLUE led light ($51 < \text{PM}_{2.5} \leq 100 \text{ ug/m}^3$) indicates fine air quality. During Automatic mode , on the operation of the Air Purifier , the device automatically adjusts fan speed to Medium (2).
- the RED led light ($\text{PM}_{2.5} \text{ is } \geq 101 \text{ ug/m}^3$), indicates bad air quality. During Automatic mode , on the operation of the Air Purifier , the device automatically adjusts fan speed to High (3).

+ **IONIZER**

Press the "Home"  and "Swing"  buttons for 3 seconds, to switch on or off the ionizer. Ions will be released in the air to purify it and remove unpleasant and unhealthy particles.





+ **UV LAMP**



Press the "Home"  and "Light"  buttons for 3 seconds, to switch on or off the UV lamp. The UV lamp will help to eliminate microorganisms such as germs, viruses, bacteria and fungi.







Under Dehumidifier/Air Purifier mode the air quality indication will still be active

MODE




By pressing on the "MODE" button, when Air Purifier  is selected, the choices are:
Manual mode  → Night mode  → Automatic mode 

By pressing on the "MODE" button, when Dehumidifier & Air Purifier  +  are selected, the choices are:

Manual mode  → Dryer mode  → Night mode  → Automatic mode 

Manual mode

Under manual mode, the desired operating conditions can be adjusted.

- Under Manual Mode during the operation of the Air Purifier  the desired fan speed may be adjusted. The digital monitor will indicate PM2.5.
- Under Manual Mode, during the operation of the Dehumidifier & Air Purifier  +  the unit dehumidifies and both the desired fan speed and humidity levels can be adjusted. The digital display will indicate ambient relative humidity levels.

Dryer mode

During dryer mode, the unit enters continuous dehumidification, the fan operates in high speed (3) and the percentage of relative humidity is fixed to 40%. The digital monitor indicates ambient relative humidity.




- For drying clothes: place the dehumidifier in a small room and set nearby the clothes rack. Keep doors shut and allow the dehumidifier to dry the clothes.
- For optimal results manual wringing of the clothes is suggested.



By setting timer off on dryer mode, the device can be automatically switched off after pre-set amount of hours and save energy.




Night mode

Under "Night Mode" the device will silently operate with the fan at low speed.

- On night mode, during the operation of Air Purifier , the digital monitor indicates current PM2.5 .
- On night mode, during the operation of Dehumidifier & Air Purifier  + , the desired humidity can be adjusted. The digital monitor indicates ambient relative humidity.

Automatic mode

On automatic mode operating conditions of the device are fixed



- During the operation of Air Purifier , the device will automatically adjust its fan speed based on air quality. The digital monitor will indicate current PM2.5
- During the operation of Dehumidifier & Air Purifier  +  the device will automatically adjust its fan speed to maintain ambient relative humidity to 60%. Once 60% humidity is reached the compressor stops and the fan keeps on operating at the pre-selected settings.

PLUS (+) CONTROL BUTTON


Humidity Set Control Button



- By pressing this button, humidity level could be set at: 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80% RH (Relative Humidity) and CO.



- **CO:** Under Continuous operation the device operates in a continuous manner regardless of the ambient relative humidity levels. This is suggested in cases where immediate dehumidification is necessary, such as areas or rooms that have not been occupied for an extended period of time.
- Plus control button is only available in manual mode  and in night mode .

FAN SPEED

By pressing the "FAN SPEED" button, under the operation of Air Purifier  the fan air speed could be set to: Low (1) / Medium (2) / High (3).

By pressing the "FAN SPEED" button, under the operation of Dehumidifier & Air Purifier  + , the fan air speed could be set to: Low (1) / Medium (2).


- Low: When Low Speed is selected, indicated by number 1 on the digital display, the operation is silent, and standard functioning conditions are applied.
- Medium: When Medium Speed is selected, indicated by number 2 on the digital display, the fan is set at medium speed.
- High: When High Speed is selected, indicated by number 3 on the digital display, the fan is set at maximum speed. This option is ideal for air purification in areas with a larger air quality issue.



Adjustment of FAN SPEED is available only during Manual mode.

TIMER





Press the "TIMER" button to set up timer for automatically turn off.

- Any time this button is pressed, the set time is increased by 1h (hour), for auto STOP of the device. This function offers the selection of when the device automatically turns off, within a range from 1h to 9h (hours).
- Once the desired hour(s) selected, wait for 3 seconds without pressing anything and the indication of timer  will appear in the monitor to confirm that timer is activated.
- For auto STOP the device should be left continue its function.



In the event of a power failure the timer function is not restored after power resumes.

ENERGY SAVING FUNCTION

By pressing the buttons , ,  and , you can activate and deactivate the energy-saving mode. The dehumidifier should be plugged in but turned off. The energy-saving mode automatically turns off the dehumidifier after 12 hours of continuous operation, regardless of the timer settings you have selected. In case of a power loss, the energy-saving mode will automatically revert to its initial settings.

SWING LOUVER

Press the Swing Louver button to activate/deactivate this feature.

- By pressing the "Swing Louver" button once, the swing indication is active on the digital panel, informing that the swing feature is in operation. While in operation the swing louver operates in such a manner allowing a multi-directional air stream.
- By pressing the Swing Louver a second time, the louver can be stopped at a desired angle. This option is selected for a direct air flow, ideal when drying clothes, or for as desirable preferred position.



INDICATOR LIGHT

Press the Indicator Light button, to activate/deactivate the air quality LED indicator.

- By pressing the button once, the air quality indicator will switch off.
- By pressing the button twice, the digital display indications will switch off too, allowing the device to operate with no indicators visible.
- By pressing the button a third time, all indications are activated.

ON-DISPLAY INDICATORS

CHILD LOCK

By pressing the "Indicator Light" button  continuously for 3 seconds, child lock will be activated/deactivated. The sign of  remains steadily in the monitor informing that child lock is active.



- **Under Child Lock: All control buttons are deactivated and the unit will make a beeping sound each time a button is pressed.**
- **All control buttons are activated, once the Child Lock is deactivated, if the unit is unplugged or if there is a power failure.**

P2- FULL WATER TANK

When the water tank is full, removed or not placed correctly, the indication P2 will appear on the digital control panel followed by a beeping sound.




- **The transparent handle of the water tank shows the quantity of the water contained inside, offering convenience and uninterrupted operation of the device.**



HEPA FILTER replacement reminder

The HEPA FILTER replacement reminder will activate on the digital panel of the device, once 2,160 operational hours have been completed.


- When this indication appears, the HEPA filter should be replaced with a new one.
- After the replacement of the HEPA filter, the "Timer"  button must be pressed continuously for 5 seconds so the timer be reset and the indication to be removed.

The timely replacement of HEPA filter, will guarantee optimal performance, clean and healthy air.



Periodical cleaning of HEPA filter every 30 days, could be applied with the use of a vacuum cleaner.

°C - ROOM TEMPERATURE

By pressing the plus(+) control button  continuously, the display will show the current room temperature. After releasing the button, the monitor will show temperature of heat exchanger.

P1 - AUTO DEFROST

When this unit is operated in very low temperatures , possible frost may built up internally. The device is equipped with an auto-defrost mode. In this event, the P1 indication will activate on the digital display panel.

- Whenever the sensor which is placed on heat exchanger detects temperature under $\leq 0^{\circ}\text{C}$, the unit enters defrost mode for 12 minutes. After 12 minutes of defrosting, the sensor checks temperature again. If temperature rises $\geq 2^{\circ}\text{C}$, the unit exits defrost mode and defrost indicator turns off.
- This function ensures the safe operation and the efficient performance of the device.



- **When Auto Defrost mode is on, the device may cause some noise from the refrigerant fluids flowing, that is normal.**
- **Do not turn off the device when auto defrost mode is on.**

LO - Very Low Humidity

When the Room Humidity is $\leq 30\%RH$, this indication activates on the digital control panel of the device.

- During this condition, the compressor stops and the fan keeps operating in the selected settings.
- Once room humidity $\geq 32\%RH$ detected, the compressor will resume its operation in the previous settings.

Hi - Very High Humidity

When the Room Humidity is $\geq 91\%RH$ this indication steadily appears in the monitor of the device.

- During this condition, the compressor will keep operating in the selected settings.
- Once room humidity drops under $\leq 90\%RH$, the indication disappears.

8. AUTOMATIC MODES

AUTO-RESTART

The device memorizes the set operating conditions whenever power plug is connected. In the event of a power failure the device performs Auto-Restart, once power is restored.

- In case of power failure or when the power plug unplugged from the socket, the unit will operate in default settings prior to disconnection.



After Auto-Restart the setting of "Timer"  and of the child lock  cannot be retained.

9. PAIR THE DEHUMIDIFIER WITH THE INVENTOR CONTROL APPLICATION

Before you start:

- Verify that the router is broadcasting at 2.4GHz.
- If the router has dual band broadcasting, verify that the network names (SSIDs) are different. For additional help, contact your router/internet provider.
- Verify that the Wi-Fi password is WPA2-PSK encrypted, and the authorization type is set to AES.
- Position the dehumidifier as close as possible to the router during the pairing process.

Step 1: Download and install the “Inventor Control” application from the Google Play Store or IOS App Store.

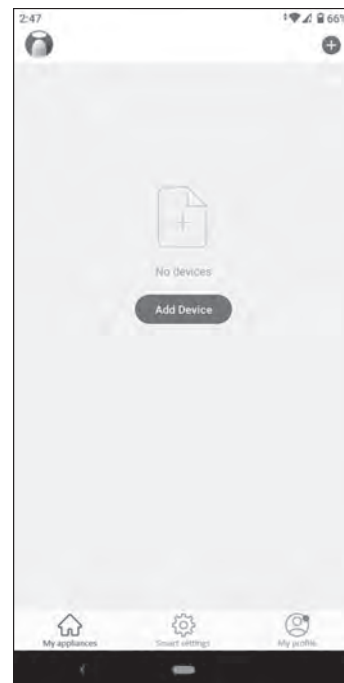


Step 2: Select “Register” to create a new account or “Log in with Existing Account”

Notes:


Carefully read the Privacy Policy and select “Agree” to continue.

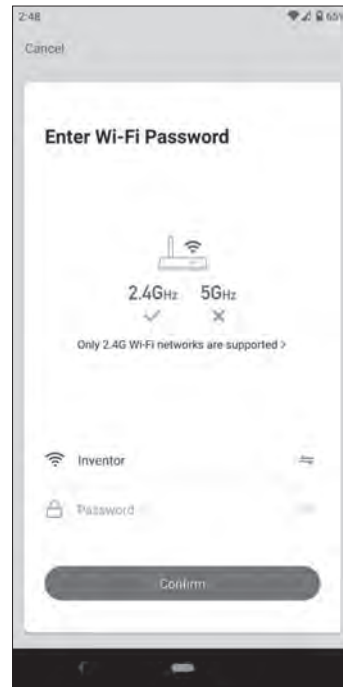
To create an account, an email or a mobile number are required. Enter the code that you received in your registered email or phone number, in the “Enter Verification Code” field to proceed with the pairing process.



Step 3: To add the device, select “My appliances” and press “+” on the top right corner, or “Add Device” and select “Dehumidifier”.



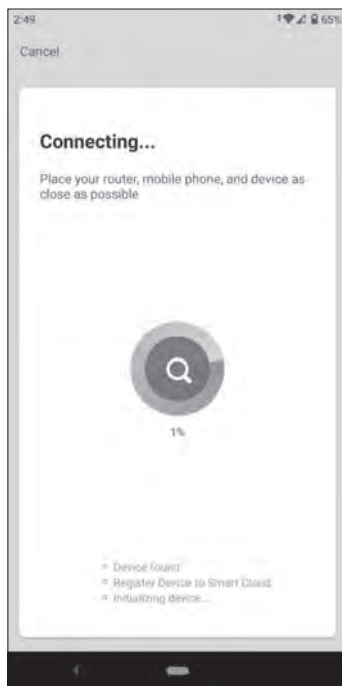
Step 4: Plug in the dehumidifier to a power supply and turn it on. Press the Mode button  on the device for 3 seconds until the pairing indication appears on the display. Press Confirm to proceed.



Step 5: Select the Wi-Fi Network and enter the password. Press Confirm to proceed. The pairing process may take some time.

Note:

The pairing indication on the display of the dehumidifier may disappear during this step.



Troubleshooting:

If the pairing process is not successful:

- Verify that the router is broadcasting at 2.4GHz.
- If the router has dual band broadcasting, verify that the network names (SSIDs) are different. For additional help, contact your router/internet provider.
- Verify that the Wi-Fi password is WPA2-PSK encrypted, and the authorization type is set to AES.
- Position the dehumidifier as close as possible to the router during the pairing process.
- Power off the router, the dehumidifier, and the device (tablet or mobile) and allow 5 minutes.
- Restart the pairing process from Step 2.
- If the pairing is not successful, repeat the process with a different smart device (tablet or mobile).
- Contact Inventor’s After Sales Dept.

10. WATER TANK & DRAIN HOSE

There are two ways to remove collected water. Before proceeding ensure that you have switched off and unplugged the unit.

1. Usage of the water tank

When unit is OFF and the tank of the dehumidifier is full, the full indicator will be lit. Additionally, when the unit is on and the tank is full, indicator will illuminate, and the unit will automatically stop operating.

- Carefully remove the bucket. Grip the handle with caution, and slowly pull outwards so the accumulated water does not overflow.
- Lift the plastic corner cap, in order to remove the accumulated water from the tank, once the water is emptied close the plastic corner cap once again, and place the tank securely and properly into the device.
- When the water tank is re-installed the unit will automatically restart.



- **When you remove the tank, do not touch any parts inside the unit, as you may damage the device.**
- **Be sure to gently place the tank into the dehumidifier.**
- **Do not drink or use the collected water from the device.**
- **Wipe any excess water on, or in, the unit when removing the tank.**

2. Continuous draining

Water automatically can be emptied into a floor drain by attaching the unit with a water hose.

- Remove the rubber plug located opposite the unit. Insert the water hose into the drain outlet and make sure all connections are firmly tightened in order to avoid any possible leaks.
- The dehumidifier - air purifier, should be placed on a flat surface in an upright position.
- Lead the water hose towards a suitable drainage facility and be certain that the water flows naturally. For correct drainage, make sure the hose stays below the level of the drain hose outlet.



water drain
hose outlet



Caution: water hose should never be bend or twisted!



When the continuous drainage feature is not being used, remove the drain hose from the drain hose outlet and re-install the rubber cap.

11. MAINTENANCE & CLEANING

● Maintenance & Cleaning of your air filter

The air filter of the unit collects dust contained in the air. The buildup of dust reduces the efficiency of the unit. To prevent the dust from clogging up the unit always use it with the air filter in place.

Always clean the air filter every 2 weeks. If the unit operates in a dusty atmosphere clean the air filter more often.

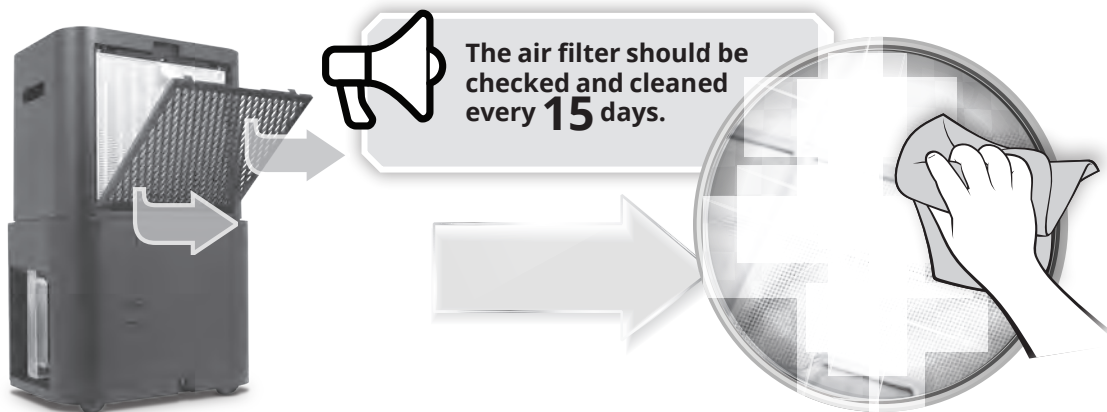
- Remove the air filter.
- Clean the air filter with a vacuum cleaner. If the air filter is very dirty, you can wash it in warm water (never use hot or soapy water). Make sure that the air filter is dry and refitted correctly. Do not bend the filter and ensure it is fitted before operating the unit.

● Cleaning the Hepa filter

The Hepa filter is located behind the air filter.

It is recommended to clean the HEPA filter every 30 days using a vacuum cleaner.

The Hepa filter should not be washed.



● Cleaning the tank:

Remove the plastic protective cap and partially fill the tank with clean water adding a minimal amount of mild detergent. Clean thoroughly empty and rinse.

- Clean the tank every 2 weeks to prevent mold, mildew and bacteria growth.
- After cleaning, make sure the tank is placed back securely for the dehumidifier to operate.

● Cleaning the unit

- Clean the unit by using a damp sponge, and dry it with a clean, soft cloth.
- Never use alcohol or any product containing solvents.
- Do not immerse the unit in water.



**NEVER USE THE DEVICE
WITHOUT THE AIR FILTER**

12. STORAGE

When unit is inactive for an extended period of time, please make sure you follow the instructions below, for the appropriate storage of your appliance:

- Turn unit off allowing one day before storage.
- Remove drain hose (if attached).
- Clean the removable parts of the device, water tank and air filter.
- Position and secure the power cord with its band opposite the dehumidifier.
- Cover the device.
- Store the dehumidifier. in upright position, in a dry, well ventilated area and avoid direct sunlight.

13. FREQUENTLY ASKED QUESTIONS & TROUBLESHOOTING

Are dehumidifiers costly?

For about the first month of use, the dehumidifier operates intensively. This will gradually decrease within time, since the dehumidifier will have been calibrated in its working environment. Condensed households may sometime be significantly expensive to heat. The use of a dehumidifier may lower energy costs.

Where should the dehumidifier be placed ideally?

For optimal results, it is suggested that the dehumidifier is placed in a central area. Doors within the household should be open in order for the dehumidifier to enhance its operation.

Can the filter be replaced by another HEPA type filter?

The dehumidifier's filter cannot be replaced by any other type of filter since it is specifically designed to operate with this unit.

Which is the appropriate room humidity level?



Maintaining a proper home humidity level is essential for your well-being and that of your household. Extreme fluctuations cause adverse effects on both; low humidity may cause respiratory problems and damage on wooden doors, windows, and furniture, and make you vulnerable to electric shocks due to increased static electricity. On the other hand, high humidity may promote mold growth, serving as breeding grounds for various bacteria and resulting in poor health and also a damaged home. The ideal humidity levels fluctuate between 45% to 55%.

Why does condensation persist on windows even with dehumidifier's use?

When the desired humidity level is reached, there is a possibility of partial humidity formation on windows. This occurs due to the temperature variation between the window and the external weather conditions.

- Operating the dehumidifier should significantly reduce condensation formation on windows.

Why am I not able to set the desired humidity level by using the control panel?

In order to manually adjust the desired humidity level, ensure that the unit operates as a Dehumidifier & Air Purifier and the indications  +  are activated. The humidity can be adjusted only under Manual and Night Mode

How much time is needed to dry my clothes?

The exact time needed to dry clothes depend on many factors, the room's temperature, the humidity level, the moisture of the clothes etc., so there is no standard time since of these variable factors mentioned above.

Poor performance of dehumidifying

- Did not operating enough time to remove the moisture.
- Make sure there are obstacles blocking air inlet/air outlet.
- The ambient humidity may be lower than the humidity setting.
- Check that all doors, windows and other openings are securely closed.
- Room temperature is too low, below 5°C(41°F).

The dehumidifier is not a chilling device. What could be the cause of cold air being extracted?

The dehumidifier operates by intaking condensed air removing any moisture and sending it back in the area it operates. If you are standing near the dehumidifier while operating you may feel that the air coming out of the fan is cooler due to the diffusion. In reality, it is at the same room-temperature but with less humidity.

Can the dehumidifier help with heating our space?

The dehumidifier can help improve the efficiency of heating in our space, rather than generating heat itself. Essentially, by using the dehumidifier, moisture is removed, and the air in the space becomes drier, resulting in more immediate and effective heat distribution.

The unit does not start

- Make sure the dehumidifier's plug is placed completely into the socket.
- Check the house fuse/circuit breaker box.
- Check whether the power cord is damaged.
- Check the water bucket, if it is full, empty it.
- Check if the dehumidifier has reached its preset level.
- Make sure the water bucket is positioned properly.
- Room temperature is lower or higher than the advised operational range.
- Check whether the humidity level has been set in high levels.

Dehumidifier does not dry the air as efficient

- Make sure that the dehumidifier has been operating 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 selector may not be set low enough.
- Make sure you have cleaned the filter as suggested. Clogged filter may result in reduced performance.
- All house exits (windows doors etc) where the dehumidifier is operating, should be shut.
- Room temperature is below the advised operational range.
- There is a kerosene heater or something giving off water vapor in the room.
- The room that the device is placed is bigger than suggested.
- The humidity level is too high.

The unit makes a loud noise when operating

- The air filter is clogged.
- The device is tilted instead of being in an upright position.
- The floor surface is not flat.

Frost build up on coils

- This is normal. This unit is supplied with an Auto defrost feature.

Drain hose water leakage

- Check the correct installation of the drain hose.
- Check for any blockage or damage of the drain hose.

Understanding Error code indications

C1 - Defrost sensor failure

C2 - Humidity and temperature sensor failure

C8 - The temperature difference between defrost sensor and temperature & humidity sensor detected $\leq 3^{\circ}\text{C}$ it maybe the refrigerant leakage.

Maintenance of the dehumidifier

Proper maintenance of the dehumidifier by a specialized technician ensures worry-free use and consistent performance, just like the day you purchased it. After maintenance, any accumulated dust inside will be removed, along with any unwanted odors.

It is recommended to perform maintenance once a year.



In the event of any of the above-mentioned errors, all buttons are unavailable, except for the "POWER" button so that the device can be turned off. After powering off, unplug the device for 10 minutes to reset. When device is turned back on check if the error persists. In case the error persists, the unit should remain turned off and unplugged. Contact the manufacturer or a qualified technician for service.

14. INSTRUCTION FOR REPAIRING APPLIANCES CONTAINING REFRIGERANT R290

1. Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work in the system.

Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.

2. General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

3. Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. nonspeaking, adequately sealed or intrinsically safe.

4. Presence of fire extinguisher

If any work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

5. No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

6. Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

7. Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

The following check shall be applied to installations using flammable refrigerants:

--the charge size is in accordance with the room size within which the refrigerant containing parts are installed;

--the ventilation machinery and outlets are operating adequately and are not obstructed;

8. Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

--that capacitors are discharged; this shall be done in a safe manner to avoid possibility of sparking;

--that there no live electrical components and wiring are exposed while charging, recovering or purging the system;

--that there is continuity of earth bonding.

9. Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working in electrical components, the casing is not altered in such a way that level of protection is affected. This shall include damage to cables, excessive number of connection, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications,

NOTE The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

10. Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

11. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual leaks. A halide torch (or any other detector using a naked flame) shall not be used

12. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

13. Leak detection methods

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants.

Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibrated. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed.

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system both before and during the brazing process.

14. Removal and evacuation

When breaking into the refrigerant circuit to make repairs- or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

remove refrigerant;

purge the circuit with inert gas;

evacuate;

purge again with inert gas;

open the circuit by cutting or brazing;

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This processing shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place. Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

15. Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

-Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of

refrigerant contained in them.

-Cylinders shall be kept upright.

-Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.

-label the system when charging is complete (if not already)

-Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system it shall be pressure tested with OFN. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

16. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

a) become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure ensure that;

Mechanical handling equipment is available and being used correctly; the recovery process is supervised at all times by a competent person; recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

17. Labeling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

18. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.

In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer of in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil drained from a system, it shall be carried out safely.

19. Transport of equipment containing flammable refrigerants

Determined by local regulations.

20. Discarded appliances supplies flammable refrigerants

See National Regulations.

21. Storage of equipment/appliances

The storage of equipment should be in accordance with the manufacturer's instructions.

22. Storage of packed (unsold) equipment

Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.

The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

All the pictures in the manual are for explanatory purposes only. The actual shape of the unit you purchased may be slightly different, but the operations and functions are the same. The company may not be held responsible for any misprinted information. The design and the specifications of the product for reasons, such as product improvement, are subject to change without any prior notice.

Please consult with the manufacturer at +30 211 300 3300 or with the Sales agency for further details. Any future updates to the manual will be uploaded to the service website, and it is advised to always check for the latest version.



Scan here to download the latest version of this manual.
www.inventorappliances.com/manuals

Activate your Warranty

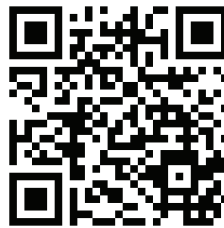
Follow the next quick steps to activate your warranty:

STEP 1

Visit our website via the link:

<https://www.inventorappliances.com/warranty-card>

or by scanning the QR code, as follows:



STEP 2

Fill in the obligatory fields as requested in the "Owner's details" and "Unit's details":

To activate the warranty card, please fill in the following fields

Owner's details	Unit details
Full Name	Unit
Address*	Serial Number of the unit*

STEP 3

Click SEND button at the end of the submission form:

E-mail*

Subscribe to our Newsletter

I accept the terms and conditions.

once the warranty submission has been completed a confirmation message will be sent to your email

STEP 4

Wait for the confirmation email you will receive at the email address you have filled in - please also check your spam folder.

STEP 5

Inventor warranty is now valid!



DEHUMIDIFIER - AIR PURIFIER



V:2.1.052023

Manufacturer: **INVENTOR A.G. S.A.**

24th km National Road Athens - Lamia & 2 Thoukididou Str., Ag.Stefanos, 14565

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DEHUMIDIFIER

Wi-Fi FUNCTION - QUICK START GUIDE

- USER'S MANUAL



Wi-Fi

Inventor Control - for Series:
Comfort, Atmosphere XL, Rise Pro



LANGUAGES

ENGLISH3

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BEFORE YOU START

Before you start

- Verify that your router broadcasts Wi-Fi at 2.4GHz.
- If you have a Dual Band router, make sure that the two Wi-Fi networks have different names (SSIDs).
- Place your Dehumidifier near your router to ensure proper connection.
- Verify that your mobile device's data are disabled.
- It is necessary to forget any other around network and make sure the Android or iOS device is connected to the same wireless network.
- Be certain that the Android or IOS platforms operate correct and connect to your selected Wireless network automatically.

Precautions

Applicable systems:

- Requires Android 4.4 or later.
- Requires iOS 9.0 or later. Compatible with iPhone, iPad, and iPod touch.

Notice:

- Keep your APP updated with the latest version.
- It is possible that some Android and IOS devices may not be compatible with this APP. Our company will not be held responsible for any issues resulted from the incompatibility.

Cautions:

- You might experience a short delay between the screen and the display, this is normal.
- To use the QR code option, the cam of your smartphone or tablet should be 5mp or above.
- Under certain network connections, it is possible the pairing could time out with no connection, if this occurs please perform network configuration once again.
- For improvement purposes, this APP may be updated without any prior notice. The actual configuration process may be slightly different from the one mentioned in this manual.
- Please check our website for more information:
<https://www.inventorairconditioner.com/blog/faq/wi-fi-installation-guide>

Download APP

- **CAUTION:** The QR code below, is for downloading the APP only.



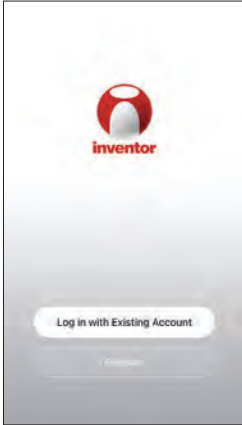
App Store



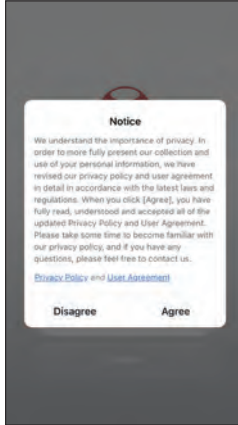
Play Store

- Android users: scan Android QR code or visit Play Store and search for "Inventor Control" app.
- IOS users: scan iOS QR code or visit App Store and search for "Inventor Control" app.

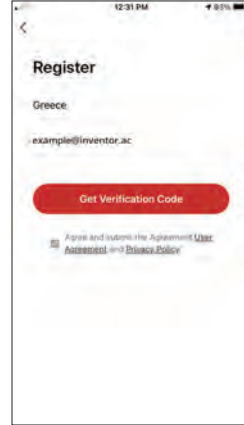
Account registration



Select "Register" to register a new account.



Read the Privacy Policy and User Agreement and agree to continue.



Select your Region and enter your email address or your mobile phone number to receive a verification code. Press "Get Verification Code".



Enter the verification code and proceed to set your password.



CONNECTING YOUR DEHUMIDIFIER WITH INVENTOR CONTROL

Add Manually with Easy Pairing



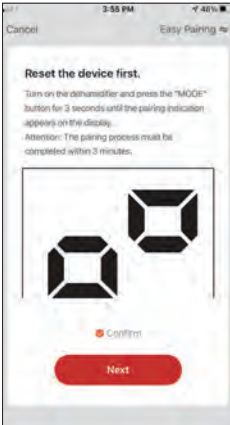
Step 1: Select "Add Device" or the "+" icon on the top right.



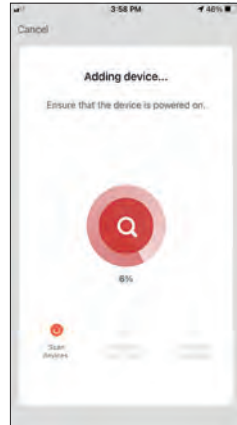
Step 2: Select "Add Manually" on the top bar, then in the left side menu, select Dehumidifier and the model name



Step 3: Select your WiFi and input your password.



Step 4: Press the "MODE" button on the dehumidifier for 3 seconds to enter the pairing mode. Verify that the pairing indication on the display of the device blinks fast and press "Next".



Step 5: Allow a few moments for the pairing process to complete.



Step 6: When the pairing is completed if you wish, you may rename your device. Press "Done" when ready.

Add Manually with AP Mode



Step 1: Select "Add Device" or the "+" icon on the top right.



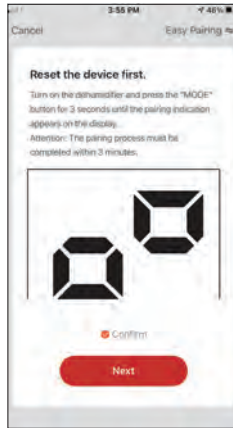
Step 2: Select "Add Manually" on the top bar, then in the left side menu, select Dehumidifier and the model name



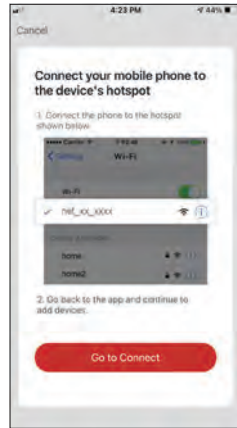
Step 3: Select your WiFi and input your password.



Step 4: Tap on "Easy Pairing" on the top right and select "AP Mode".



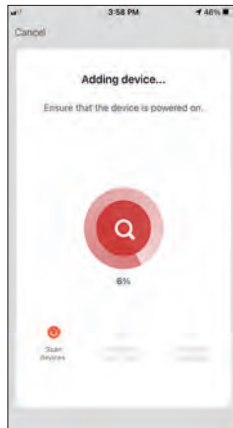
Step 5: Press the "MODE" button on the dehumidifier for 3 seconds to enter pairing mode. Verify that the pairing indication that appears on the display blinks slowly and press "Next".



Step 6: Press "Go to Connect" to enter your device's WiFi Networks.



Step 7: From your mobile device settings, connect to the dehumidifier's network "net_xx_xxxx". Return to the app and press "Next".



Step 8: Allow a few moments for the pairing process to complete.



Step 9: When the pairing is completed if you wish, you may rename your device. Press "Done" when ready.



You are all set.

Add Automatically



Step 1: Select "Add Device" or the "+" icon on the top right.



Step 2: Select "Auto Scan" on the top bar and press "Start scanning".



Step 3: Select "Configuring Wi-Fi" to input your Wi-Fi name and password. Select "Mode" on the dehumidifier for 3 seconds to enter the pairing mode and press "Next".



Step 4: When the search is complete, your device will appear on the screen. Press “Next”.

NOTE: Due to different Wi-Fi settings, the Add Automatically might not be able to find your dehumidifier. In this case you can connect using one of the two Manual methods.

Reminder: The process should be completed within 3 minutes. If it is not, please repeat the process.

Wait, there is more!

Explore new possibilities by downloading Inventor Control App and gain access to a wide range of exciting and unique features.

Smart scenarios, weekly scheduling, central control of your devices and many more operations become part of your smart device.

Learn more by downloading the Wi-Fi Manual for your model by following the link below or scanning the QR code on the side:



<https://www.inventorappliances.com/manuals?item=dehumidifiers>

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DEHUMIDIFIER

Wi-Fi FUNCTION - QUICK START GUIDE



V:3.0.062022

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