

G21 Impact 30 Smart Dehumidifier



# G21 Impact 30 Smart Dehumidifier User Manual

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**G21 Impact 30 Smart Dehumidifier**



## Product Information

### Specifications

- **Model:** Impact-30
- **Components:** Wind blade, Water tank cover, Water tank handle, Humidity indicate light, Control panel, Front cover, Back cover, Water tank, Filter frame, Drain, Wrapping post, Wheel
- **Timer:** 24h timer setup
- **Dry Key:** Press to start the drying procedure
- **Air Speed:** High or Low can be selected
- **LCD Display:** Shows room humidity and set time
- **Humidity Setting:** Range of 30%-80%

## Product Usage Instructions

### Operating Methods

- **Setting Timer On:** When in standby mode, adjust the setting time using the TIMER button. If no action within 5 seconds, the set time is confirmed.
- **AUTO Mode:** Select AUTO dehumidification. The compressor starts when room humidity is higher than set by

+5%, and runs at a set speed. If within +/- 5%, the compressor and fan run at a set speed. Lower by -5%, the compressor stops but the fan runs at a set speed.

- **CONTINUOUS Mode:** Select CONTINUOUS dehumidification. The compressor starts regardless of room humidity, fan runs at high speed by default.
- **DRYING Function:** Press the DRYING button to start the process. The appliance operates at HIGH air speed for 30 minutes and then switches to LOW air speed for 15 minutes.

## FAQ

- Why does the appliance store less water in the water tank in winter?
- The temperature is low and the air is dry in winter, causing less water to be extracted from the air. This is normal and not a fault.
- Why is hot air blown out from the air supply outlet?
- The dehumidifier extracts moisture from the air, causing it to cool and condense into water drops in the water tank. The dehumidified air is then heated before being released to improve energy efficiency and dehumidification speed. This process results in hot air being blown out and is not a fault.

## Thank you for purchasing our product!

Read this manual carefully before using the appliance.

## Safety instructions

- Install this appliance on a firm-level place to reduce vibration and noise.
- Do not place in water or other liquids.
- In order to prevent accidents, please do not use this dehumidifier if wires or other connections are damaged.
- This appliance can be used by children aged 8 years and above and people with reduced physical, sensory or mental capabilities or lack of experience or knowledge if they have been given supervision or instruction concerning the use of this appliance in a safe way and understand the hazards involved. Children shall not play with the appliance, and cleaning and user maintenance shall not be done by children without supervision.
- After you turn the appliance OFF, take the plug out of the socket.
- Indoors use only.
- Empty the water tank to prevent overflow and spill before restarting.
- Do not tilt as it may cause water leakage and damage the appliance.
- Do not insert any hard objects into the appliance in case error and damage occur.
- If the supply cord is damaged, it must be replaced by a qualified person to avoid any damage.
- Do not use the dehumidifier in a dusty environment (construction site, etc.).
- Before any handling of the appliance, it is necessary to empty both tanks (front and back, which are for connecting the hose). Never tip off the appliance down when storing or moving it.

## Warning

- Do not place close to heating devices (flame or heaters, etc.).
- Do not turn OFF by pulling the power cord out of the socket.
- Do not use any flammable substances near this appliance.
- Do not clean with water, use a damp soft cloth.

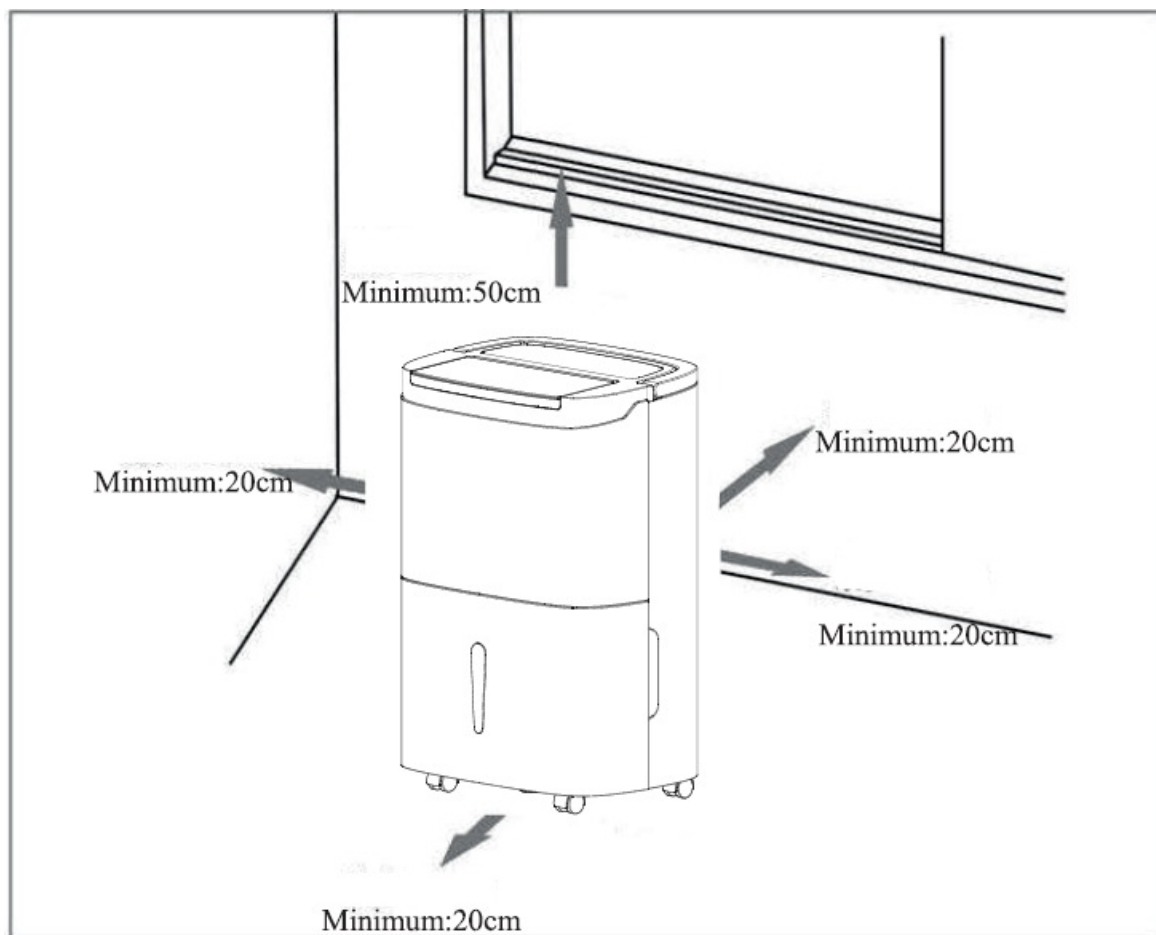
- Do not wipe with chemical solvents, use a natural detergent.
- Do not tilt over 45° or place upside down.

## **Frequent questions**

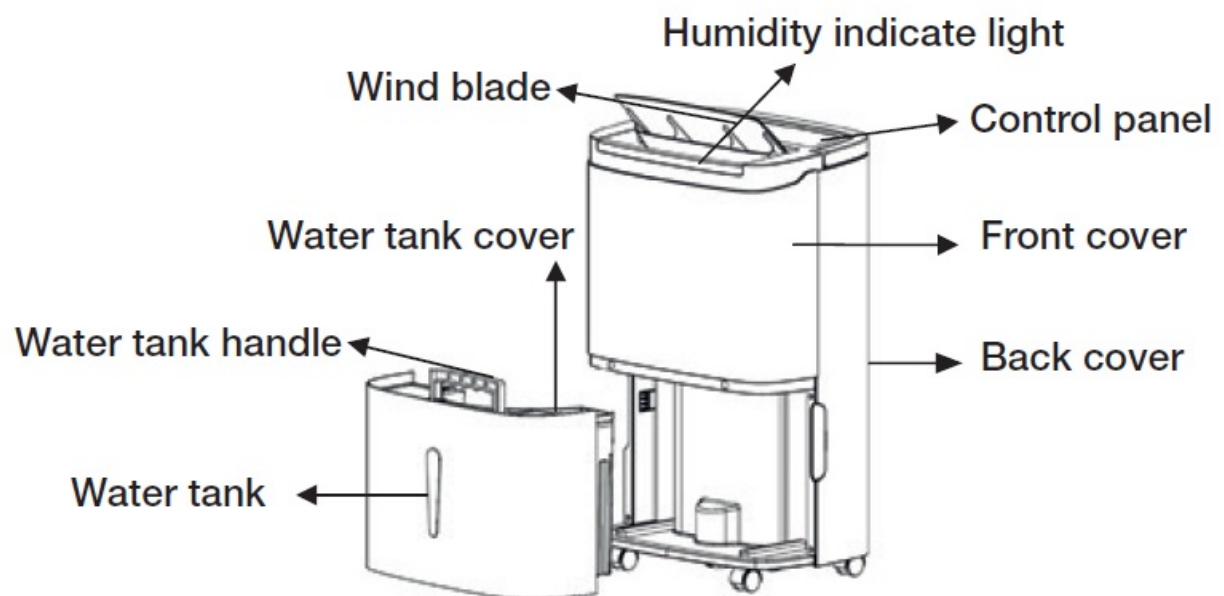
- Why does the appliance store less water in the water tank in winter?
- The temperature is low and the air is dry, not a fault.
- Why can't the appliance run or stop running suddenly?
- The water tank might be full of water or it is not installed properly – drain the water tank or re-install it. The appliance might be in the „dehumidification mode“, the ambient temperature is lower or higher than requested (it cannot be performed when the ambient temperature is  $< 5\text{ °C}$  or  $> 32\text{ °C}$ ).
- Why is hot air blown out from the air supply outlet?
- The appliance extracts air from the room and the dehumidification unit cools the air. The temperature decreases below the condensation point, the air condenses into water drops, which fall into the water tank and the dehumidified air is heated by the temperature running unit. This can reduce energy consumption and also accelerate dehumidification, therefore, hot air is blown out, not a fault.

## **Installation**

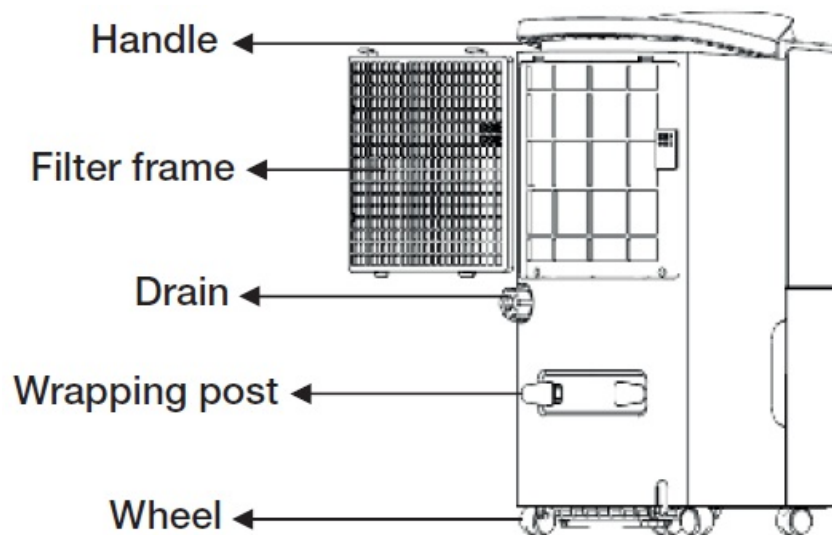
- Please drain the water from the water tank before running the appliance.
- When the appliance is ON, please do not open doors and windows if possible since it can save energy resources.
- When the dehumidifier is installed, a certain space must be reserved around the appliance. The minimum distance above is 50 cm and 20 cm in any other direction, as shown in the picture below.
- When big noise is found during the operation of this dehumidifier: It is recommended to insert pads or damping rubber sheets below this appliance. It can reduce vibration and noise and can also reduce damage to wood floors or carpets (due to vibrations or water leakage).



## Components



back side



## Control panel

### Timer

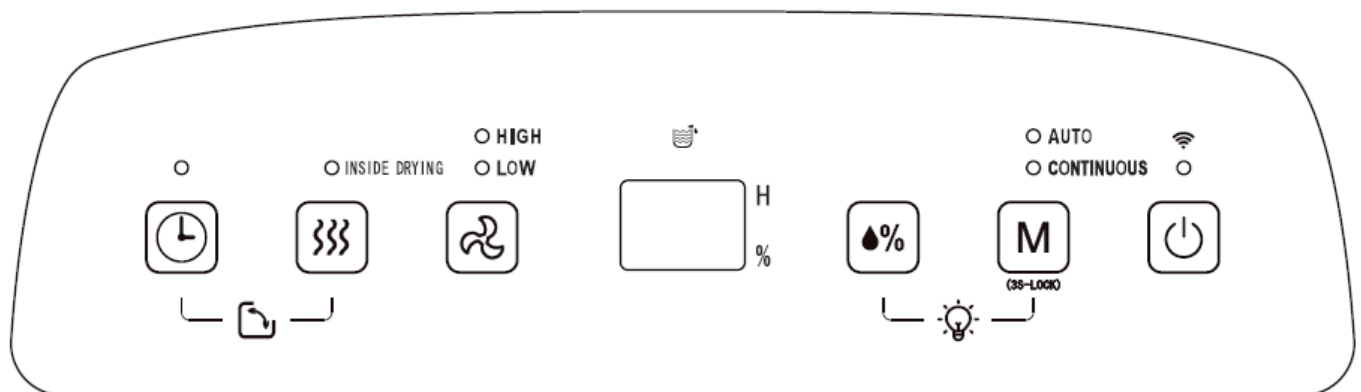
24h timer setup, press this key to set the on/off time of the dehumidifier. The setting range is 1-24 hours. If you want to cancel the setup, press the button twice continuously after configuring the setting previously.

### Dry key in dehumidifier

Press this button to start the drying procedure in the appliance. This can prevent mould in the appliance due to dampness. The whole drying procedure needs approximately one hour to finish. Press this key again to cancel the procedure and to recover the prior running program.

### Air speed

In AUTO or CONTINUOUS mode of airspeed, HIGH or LOW can be circularly selected.



### LCD

In AUTO, CONTINUOUS and DRYING modes, this figure displays room humidity. When in AUTO mode, % shows the percentage of humidity and the display shows the set time.

### Humidity setting

Once you press this key, the humidity is displayed circularly in the range of 30%-80%. The humidity setting is valid in AUTO mode only.

### Mode

During startup or timer startups, press this key to select the mode – the indicator light corresponding to the mode is on.

Child lock function: Press the MODE button for more than 3 seconds during operation. When the lock is activated, no button will work. To unlock, press the MODE button for 3 seconds again.

### ON/OFF button

Press this key to turn ON or turn OFF the appliance.

## Operating methods

### Setting the timer off

When the dehumidifier is running, press the TIMER button to adjust the time from 1 to 24 hours. Press the button once to increase the setting by 1 hour – after the set time exceeds 24 hours, the figure returns to 1 hour. When the time expires, the appliance turns OFF automatically. After the setting is completed, if the TIMER button does not act at all within 5 seconds, the set time is confirmed. In the timer off state, the key lamp on the TIMER button is ON.

### Setting of timer on

When the dehumidifier is in standby mode, the method for adjustment of setting time by the TIMER button is the same as the timer off. After the setting is completed, if the TIMER button does not act at all within 5 seconds, the set time is confirmed. In the timer off state the key lamp on the TIMER button is ON and the set time is displayed on the control panel.

### AUTO mode

Select AUTO dehumidification. If the room humidity is higher than the set humidity by 5% the compressor will start and the fan will run at the set speed. If the room humidity is between + 5% and – 5% of the set humidity, the compressor and the fan will run at the set speed. If the room humidity is lower than the set humidity by – 5%, then the compressor will stop but the fan will run at the set speed. The default set humidity value is 50%.

### CONTINUOUS mode

Select CONTINUOUS dehumidification, no matter how the relative humidity in the room is, the compressor starts, the fan runs at high speed in the default setting and the air speed can be regulated via the air speed button.

### DRYING function

Press the DRYING button to start the drying process. The appliance starts at HIGH air speed and releases air continuously for 30 minutes. The appliance turns to run at LOW air speed and lasts for 15 minutes.

To stop, press the DRYING button again to cancel the process and recover to the prior running mode. Or, press the POWER button to stop the process and recover to standby mode.

### Humidity indicate function

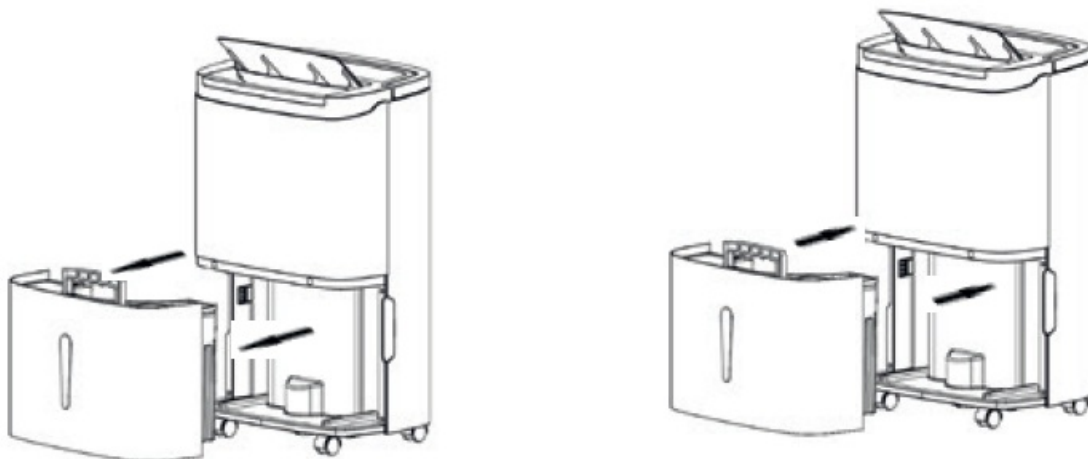
Press the humidity setting button and the mode button at the same time to turn ON/turn OFF the humidity light indicator. When the machine works, the colour of the light belt on the front cover will change with the humidity level. Red colour shows humidity over 60 %, green colour shows humidity of 40-60 % and blue colour shows less than 40 % humidity.

### Water drainage

When the water tank is full, the full water icon on LCDs flares (the compressor, fan will stop running), the buzzer sounds 10 times to remind the user till the water is drained.

- Place both hands respectively at the side of the back cover side of the depression, gently remove the water tank and open the tank cover on the right side of the body, then pour the water from the gap between the water tank and the cover.
- Close the tank cover and rotate the water tank handle down, then put the water tank gently back in to restart the appliance.

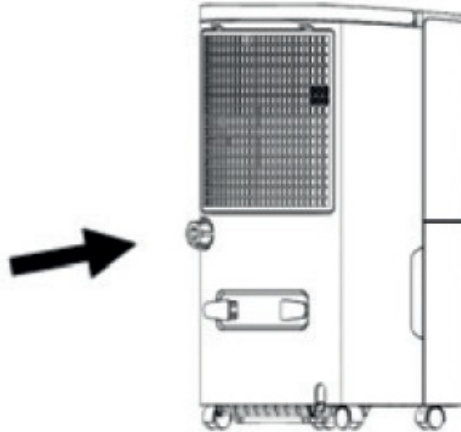
**Attention:** when the water tank is full of water, please empty it. Before putting the water tank into the dehumidifier, please confirm whether the floater rotates flexibly or not, then put it in position using both hands.



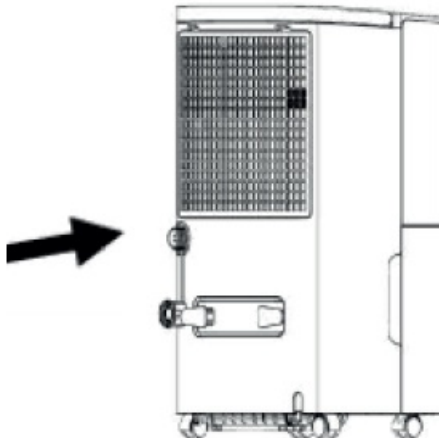
### Continuous drainage

If you don't want to drain the water tank frequently, you can connect a drainage pipe (with an inner diameter of 9 mm) on the back of this dehumidifier to drain the water automatically.

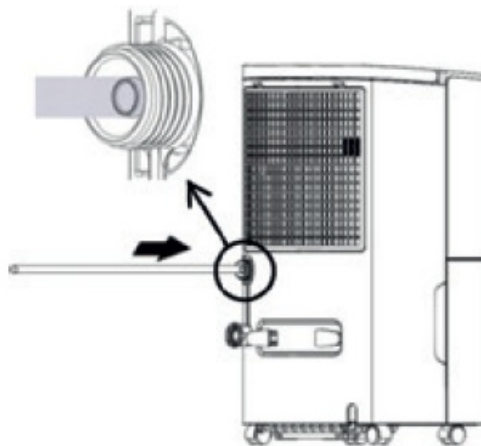
- Find the position where the water outlet is blocked on the back, as shown in the picture below.



- Remove the water plug.

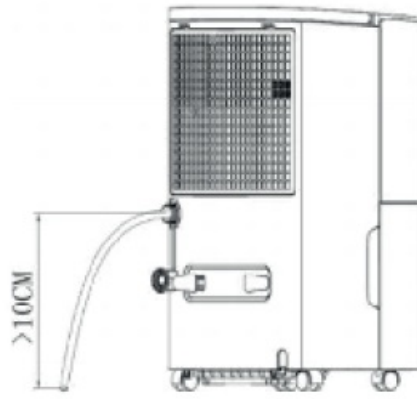


- Connect a drainage pipe at the proper length onto the water outlet.



- Before using, please check whether the drainage pipe is connected firmly or not in case of water leakage.



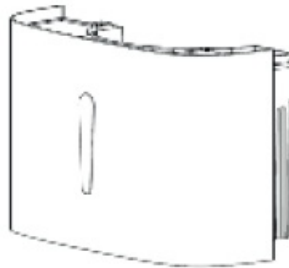


**Attention:** the level height of the externally connected water pipe shall not be higher than the water outlet, and the water pipe at the rear end shall transit smoothly, otherwise the leakage risk exists since drainage is not smooth.

## Maintenance

### Precautions

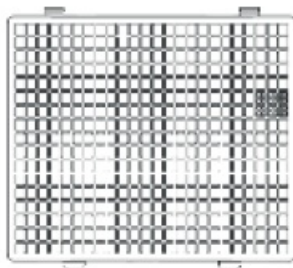
- Please disconnect the power plug before maintenance or repair to prevent electric shock.
- If the dehumidifier is not used for a long time, please disconnect the power supply.
- Please do not clean the appliance's body with chemical solvents such as alcohol, gasoline etc..
- Please clean the water tank and its cover with a soft cloth dipped in cold or warm water at regular times to prevent mould inside the dehumidifier.



- Wipe the surface of the appliance slightly with a wet cloth and do not use detergent or abrasive in case the plastic surface is damaged.



- Clean the washable PP strainer at least once per two weeks with cold or warm water. Do not use chemical solvents or hot water.



## Troubleshooting

Symptoms	Possible reason	Solution
The dehumidifier does not run.	• The power plug fell out.	• Insert the plug into the socket.
	• Water tank full of water or placed at incorrect position. (FL)	• Drain the water tank and place it back in correctly.
	• The ambient temperature is lower than 5 °C or higher than 32 °C. (LO/HI)	• Normal phenomenon.
The dehumidification function is not effective.	• Room temperature or humidity too low.	• In dry seasons the dehumidification ability will reduce.
	• Air outlet and inlet blocked.	• Clean up the object block the air outlet and the inlet.
The air is not blown out.	• Air filter blocked.	• Clean the air strainer.
Noise is abnormal during operation.	• Appliance placed improperly so that it is inclined or unstable.	• Place the appliance in a firm-level place.
	• Air strainer blocked.	• Clean the air strainer.
	• „Tittering“ sound.	• The flowing sound of refrigerant, is a normal phenomenon.
Water leakage	• Connection of the drainage pipe becomes loose.	• Fasten drainage pipe.
	• Drainage system is blocked.	• Remove obstacles and straighten out the water pipe.
Frosting occurs	• The ambient temperature is low and it is in the state of waiting to defrost. (P1)	• It is a normal phenomenon and the appliance has the automatic defrosting function.
LC error	• The child lock is on.	• Press and hold the M button for 3 seconds.

The English version of the manual is an exact translation of the original manufacturer's instructions. Images used in this manual are for illustrational purposes only and may differ from the actual product.

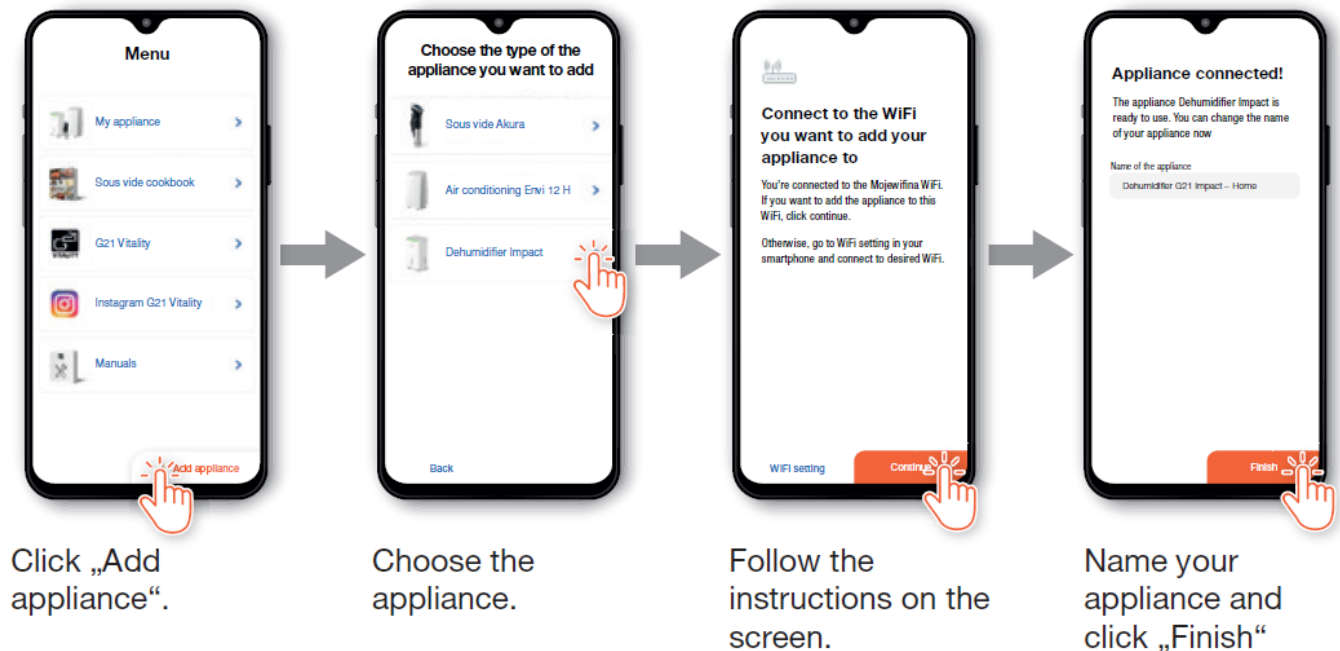
## G21 Smart Home app

- Download the G21 Smart Home app from Google Play or the App Store.

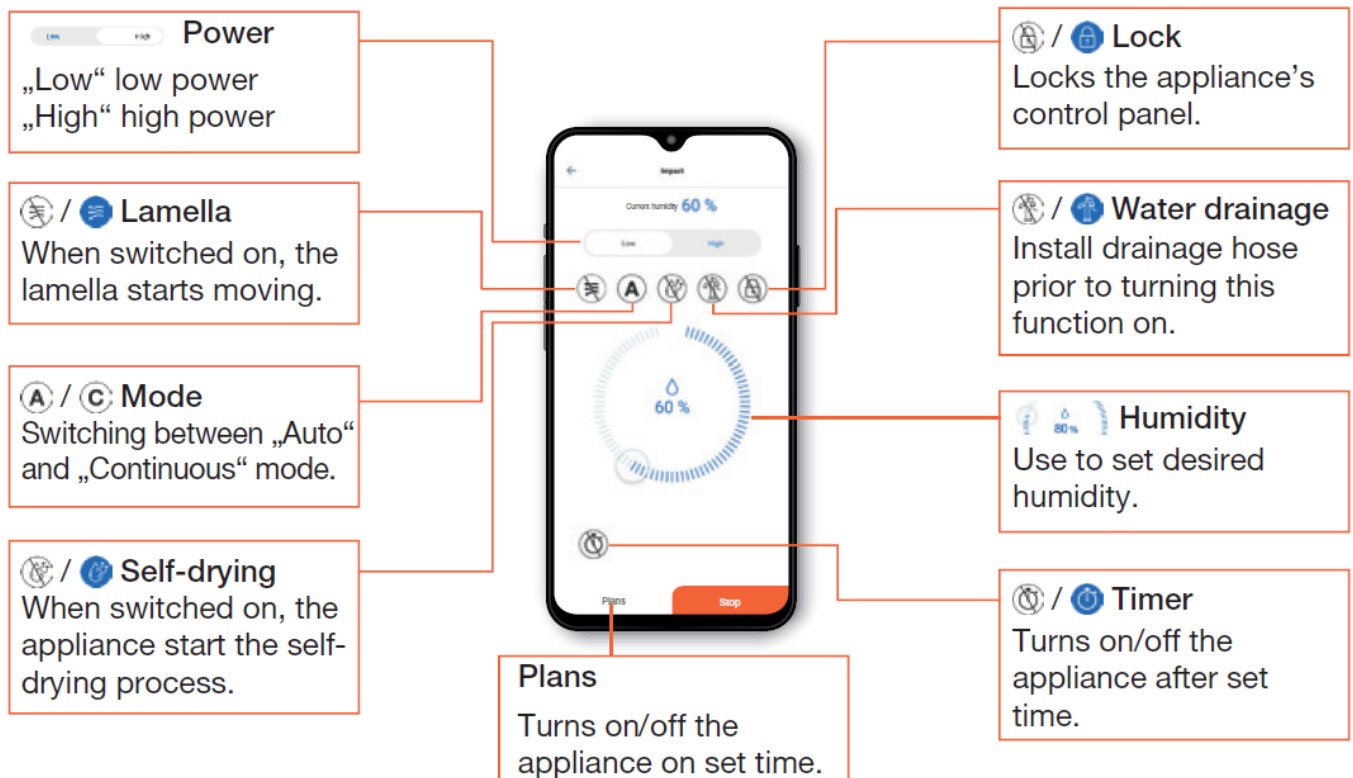


## Pairing the app with the device

- Connect the appliance to the socket and leave it in standby mode to pair with the application.



## Dehumidifier G21 Impact screen



## Safety instructions for installing the device using the R290 refrigerant gas

- To avoid damage, place the unit in an upright position for at least 24 hours before initiation. Make sure that the air outlet and air inlet are never blocked.
- Only operate the unit on a horizontal surface to ensure no water leaks out.

## Warnings

- Do not exceed impedance greater than 0.236 ohms in the supply the appliance is connected to.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority.
- Remember the environment when disposing of packaging around the appliance and when the appliance has reached it is by date.
- A warning that the appliance shall be stored in a well-ventilated area where the size corresponds to the room area as specified for operation.
- The appliance shall be stored to prevent mechanical damage from occurring.
- Information for spaces where refrigerant pipes are allowed, including statements
  - that the installation of pipe work shall be kept to a minimum;
  - that pipe work shall be protected from physical damage and, in the case of flammable refrigerants, shall not be installed in an unventilated space;
  - that compliance with national gas regulations shall be observed;
  - that mechanical connections shall be accessible for maintenance purposes;
  - that, for appliances containing flammable refrigerants, the minimum floor area of the room shall be mentioned in the form of a table or a single figure without reference to a formula;
- A warning to keep any required ventilation openings clear of obstruction;
- A notice that servicing shall be performed only as recommended by the manufacturer;
- When the portable air conditioner or dehumidifier is turned on, the fan can work continuously and stable under normal conditions to provide the minimum air volume of 100m<sup>3</sup>/h even when the compressor is closed due to the temperature controller.
- Use only implements recommended by the manufacturer for defrosting or cleaning
- Do not perforate any of the components in the refrigerant circuit. Refrigerant gas may be odourless
- Use care when storing the appliance to prevent mechanical faults.
- Maintenance and repairs requiring the assistance of other qualified personnel must be carried out under the supervision of specialists in the use of inflammable refrigerants.

## CAUTION ON FIRE



- READ THE MATERIAL CAREFULLY BEFORE USING THE APPLIANCE
- R290 refrigerant gas complies with European environmental directives.
- The appliance shall be installed, operated and stored in a room with a floor area larger than 4 m<sup>2</sup>.

Additional warning for appliances with R290 refrigerant gas (refer to the rating plate for the type of refrigerant gas used)

1. Checks to the area

Before beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be completed before conducting work on the system.

2. Work procedure

Work shall be undertaken under a controlled procedure to minimise the risk of a flammable gas or vapour being present while the work is being performed.

3. General work area

All maintenance staff and others working in the local area shall be instructed on the nature of the work being carried out. Work in confined spaces shall be avoided.

4. Checking for the presence of refrigerant

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

5. Presence of a fire extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

6. No ignition sources

No person carrying out work concerning a refrigerating system that involves exposing any pipe work 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, repair, removal and disposal, during which refrigerant can be released into the surrounding space. Before work takes place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.

7. 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.

8. Check the refrigerating 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 checks shall be applied to installations using flammable refrigerants:

- the actual refrigerant charge is under the room size within which the refrigerant-containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance that may corrode refrigerant-containing components unless the components are constructed of materials that are inherently resistant to being corroded or are suitably protected against being so corroded.

#### 1. Checks to electrical devices

Repair and maintenance of 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. Initial safety checks shall include:

- that capacitors are discharged: this shall be done safely to avoid the possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

#### 2. Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon before any removal of sealed covers, etc. If it is 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 on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be under the manufacturer's specifications.

#### 3. 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.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

#### 4. 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 vibration from sources such as compressors or fans.

#### 5. Detection of flammable refrigerants

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

#### 6. Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants, best practices must be followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems. For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to the atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is 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 potential ignition sources and that ventilation is available.

### **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 minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed before charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating system.

Before recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but before commissioning. A follow-up leak test shall be carried out before leaving the site.

### **Decommissioning**

Before carrying out this procedure, the technician must be completely familiar with the equipment and all its details. It is recommended good practice that all refrigerants are recovered safely. Before the task is carried out, an oil and refrigerant sample shall be taken in case analysis is required before the re-use of recovered refrigerant. Electrical power must be available before the task is commenced.

- Become familiar with the equipment and its operation.
- Isolate system electrically.
- Before attempting the procedure, ensure that:
  - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - all personal protective 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.
- Pump down the refrigerant system, if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the

system.

- Start the recovery machine and operate it under instructions.
- Do not overfill cylinders (no more than 80 % volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from the site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

### **Labelling**

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.

The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

### **Recovery**

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring 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 is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valves 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 of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, 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 in 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 if 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 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 before returning the compressor to the suppliers.
- Only electric heating of the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.



Manual  
DEHUMIDIFIER G21  
Wi-Fi Bluetooth



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Impact 30 Smart Dehumidifier, Impact 30, Smart Dehumidifier, Dehumidifier

## References

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