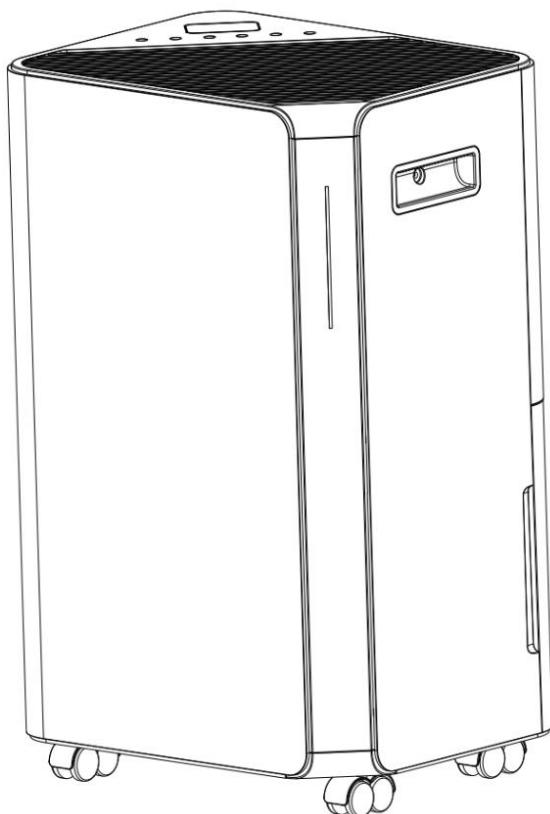


20L COMPACT DEHUMIDIFIER



R290

Power Cable
1.5m

Product Weight
12.5kg

Timer
1-24 hour

Room Coverage
20-30m²

EN USER INSTRUCTION & OPERATION MANUAL

EN

Please keep this manual safe for future reference!

Thank you for purchasing this NETTA product.

Please read the user manual carefully before operating this appliance.

We will update our instruction manuals if necessary.

For the most up-to-date user manual, please visit our official website: www.nettadirect.com.

You can download a copy of up to date user manuals at any time in electronic format. We do not supply you with a paper-based user manual after each revision.

Require a larger version of this Instruction Manual?

Please download electronically
from our website and use PDF
reader on your device to enlarge
the text if needed.

www.nettadirect.com

Safety and Warnings

Intended Use

NETTA Design is for domestic and indoor use only. This product is not intended for use by people who have lack of experience and knowledge or have reduced ability, or sensory and mental capabilities.





Regular Check-Ups

Ensure the power cable and plug are not damaged before plugging into a socket.

General Warnings

The dehumidifier is used to remove excessive moisture from the air. The resulting reduction in relative humidity protects buildings and their contents from the adverse effects of excess humidity.

The environmentally friendly R290 is used as the refrigerant. R290 has no damaging influence on the ozone layer (ODP), a negligible greenhouse effect (GWP) and is available worldwide. Because of its efficient energy properties, R290 is highly suitable as a coolant for this application. Special precautions must be taken into consideration due to the coolant's high flammability.

SYMBOLS FROM THE UNIT AND USER MANUAL	
 warning	This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
	Read the USER MANUAL carefully before operation.
	Further information is available in the USER MANUAL , SERVICE MANUAL , and the like.
	Service personnel are required to carefully read the USER MANUAL and SERVICE MANUAL before operation.

THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



- The unit is designed only for use with R-290(propane) gas as the designated refrigerant.
- The refrigerant loop is sealed. Only a qualified technician should attempt to service!
- Do not discharge the refrigerant into the atmosphere.
- R-290 (propane) is flammable and heavier than air.
- It collects first in low areas but can be circulated by the fans.
- If propane gas is present or even suspected, do not allow untrained personnel to attempt to find the cause.
- The propane gas used in the unit has no odor.
- The lack of smell does not indicate a lack of escaped gas.
- If a leak is detected, immediately evacuate all persons from the store, ventilate the room and contact the local fire department to advise them that a propane leak has occurred.
- Do not let any persons back into the room until the qualified service technician has arrived and that technician advises that it is safe to return to the store.
- No open flames, cigarettes or other possible sources of ignition should be used inside or in the vicinity of the units.
- Component parts are designed for propane and non-incentive and non-sparking. Component parts shall only be replaced with identical repair parts.

FAILURE TO ABIDE BY THIS WARNING COULD RESULT IN AN EXPLOSION, DEATH, INJURY AND PROPERTY DAMAGE



**FOR YOUR
SAFETY**

**Please read this
manual carefully and fully understand before operating
your dehumidifier.**

General Warnings

OPERATIONAL PRECAUTIONS

WARNING: To reduce the risk of fire, electric shock or injury to persons or property:

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
- The appliance shall be disconnected from its power source during maintenance.
- Always operate the unit from a power source of equal voltage, frequency and rating as indicated on the product identification plate.
- Always use a power outlet that is grounded.
- Unplug the power cord when cleaning or when not in use.
- Do not operate with wet hands. Prevent water from spilling onto the unit.
- Do not immerse or expose the unit to rain, moisture or any other liquid.
- Do not leave the unit running unattended. Do not tilt or turn over the unit.
- Do not unplug while the unit is operating.
- Do not unplug by pulling on the power cord.
- Do not use an extension cord or an adapter plug.
- Do not put objects on the unit.
- Do not climb or sit on the unit.
- Do not insert fingers or other objects into the air outlet.
- Do not touch the air inlet or the aluminum fins of the unit.

- Do not operate the unit if it is dropped, damaged or showing signs of product malfunction.
- Do not clean the appliance with any chemicals.
- Ensure the unit is far away from fire, inflammable, or explosive objects.
- The unit shall be installed in accordance with national wiring regulations.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture.
- The appliance shall be stored in a room without continuously operation sources (for example: open flames, an operating gas appliance or an operating electric heater).

General Warnings

- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Do not piece or burn, even after use.
- Be aware that refrigerants may not contain an odour.
- Pipework shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 4m².
- Compliance with national gas regulations shall be observed.
- Keep any required ventilation openings clear of obstruction.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.



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, which authorizes their competence to handle refrigerants safely in accordance with an industry, recognized assessment specification.



Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

If you don't understand something or need help, please contact the dealer services.

SAFETY PRECAUTIONS ON SERVICING

Please follow these warnings when to undertake the following when servicing a dehumidifier.

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 on the system.

General Warnings

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.

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.

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. no sparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher

If any hot 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.

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.

General Warnings

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.

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 checks 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.
- 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.

– Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

General Warnings

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.

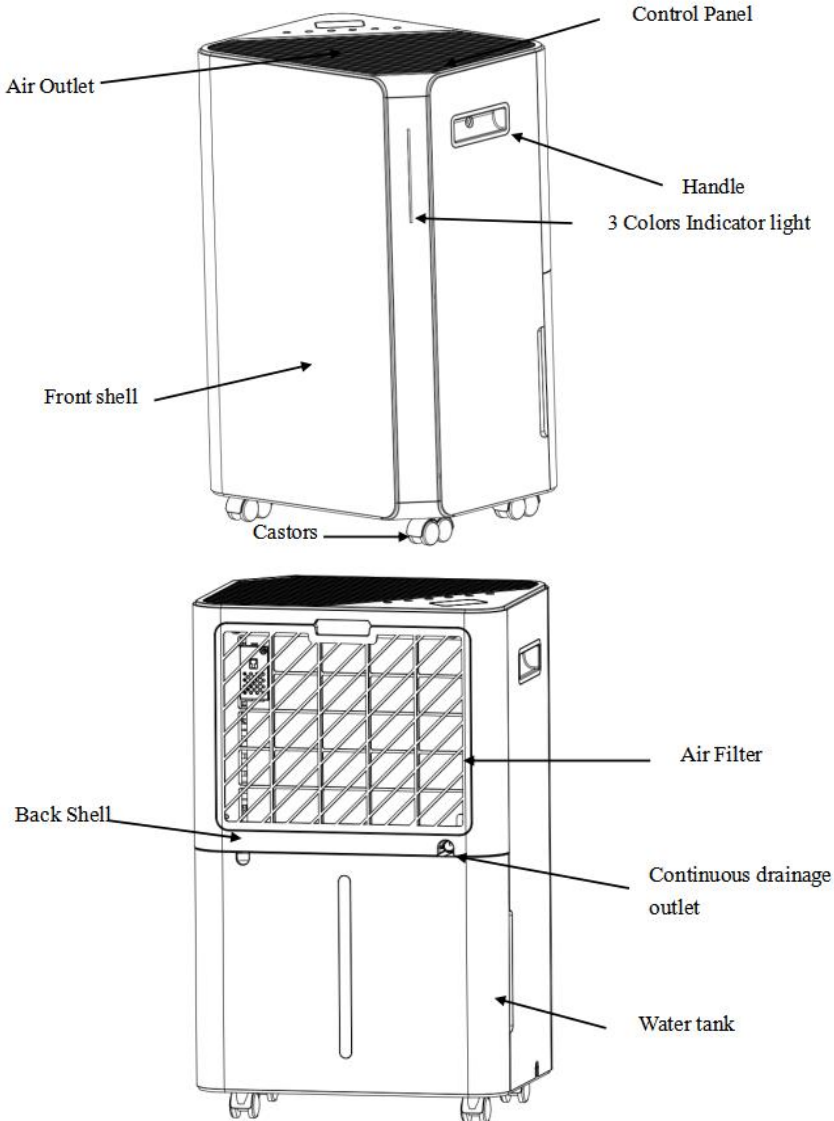
This shall be reported to the owner of the equipment, so all parties are advised.

Initial safety checks shall include:

- Those 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.

Assembling the Product

Product Overview



Assembling the Product

Installation

Location

1. Place the unit on a firm, level surface in an area with at least 30cm of free space around it to allow for proper air circulation.
2. Never install the unit where it could be subject to :
 - Heat sources such as radiators, heat registers, stoves or other products that produce heat.
 - In an area where oil or water may be splashed
 - Direct sunlight
 - Mechanical vibration or shock
 - Excessive dust
 - Lack of ventilation, such as cabinet or bookcase
 - Uneven surface

Assembling the Product



WARNING

Install the unit in rooms which exceed 4m².

OPERATING THE DEVICE SAFELY

- Check the device after unpacking for any damages or scratches on it.
- Operate this unit in an ambient temperature from 5°C to 35°C.
- Do not use in the outdoors. This dehumidifier is intended for indoor residential applications only.
- Do not operate in close proximity to walls, curtains, or other objects that may block inlet and outlet.
- Keep the air inlet and outlet free of obstacles.
- Adjusting the wind deflector in the upward direction prior to start up.
- If tipped more than 45°, allow the unit to set upright for at least 24 hours before start up.
- Keep doors and windows close for better energy saving.
- Do not operate or store the unit in direct sunlight or rain.
- It is normal for air outlet to feel warm to touch after continuous operation on hot days.
- Empty the water tank before moving the device.
- Make sure the water tank is correctly fitted otherwise the unit will not operate properly.
- The dehumidifier starts up in the mode selected when the unit was last used.
- The dehumidifier starts dehumidifying if the room humidity is 3% higher than the selected humidity.
- There is a protective 3-minutes time delay of the compressor. Wait 3 minutes for the dehumidifier to resume dehumidification.

Operating the Product

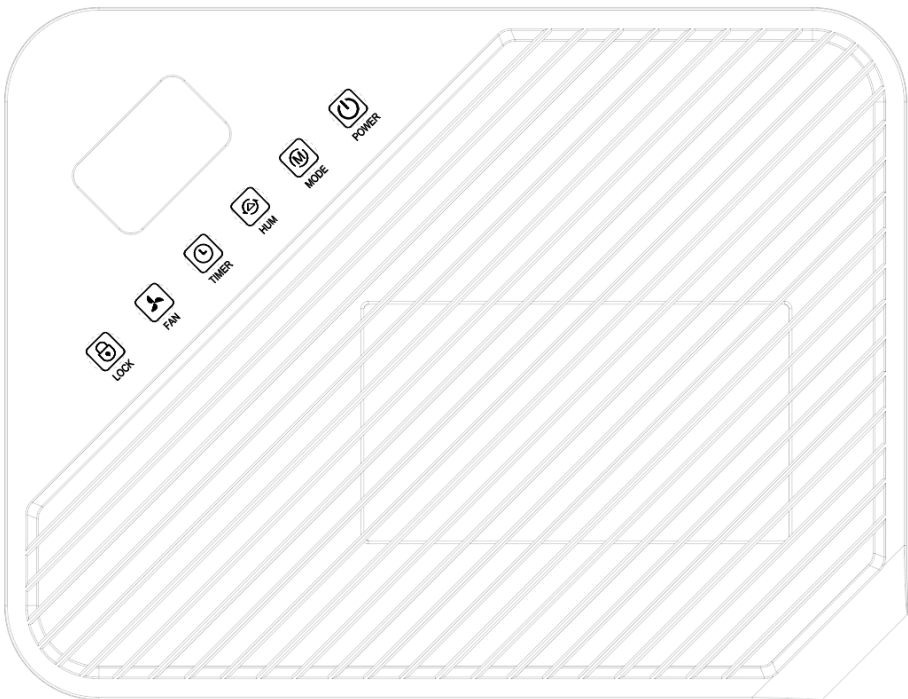
3-colors indicator light

Ambient humidity $\leq 45\%$, the indicator light will show Blue

$45\% < \text{ambient humidity} < 65\%$, the indicator light will show Green

ambient humidity $\geq 65\%$, the indicator light will show Red

CONTROL PANEL



SETTINGS



Stand By Button

Press the STAND-BY button to turn on the machine, the running indicator lights up and the default fan speed is high, and the default humidity setting is 50%. When the machine is running, press the power button to turn off, the running indicator light goes off and the compressor stops immediately, and then the fan will shut down after 30 seconds delay.



Mode button

Press the mode button to switch between Auto mode, Continuously dehumidify mode and sleep mode.

- **Auto mode:** when environmental humidity \geq set humidity +3%, the fan starts working and compressor starts working after 3 seconds. When environmental humidity \leq set humidity -3%, the compressor stops working and fan stops working after 30 seconds' delay.

Both fan speed and humidity setting can be adjusted under Auto mode.

- **Continuously dehumidify mode:** In this mode, The machine will continue to run in high fan speed , fan speed is adjustable, humidity setting can not be adjusted.
- **Sleep mode:** In sleep mode , the target humidity is 60%, and after no operation for 10 seconds, except sleeping mode indicator light , power indicator light and child lock indicator light will dark, other the indicator lights and display screen will be off .

When room humidity \leq 57%RH, the compressor & fan will stop working .

When room humidity $\geq 63\%RH$, the fan&compressor will start working .

In sleeping mode, when the water tank is full , the machine will not alarm , but the water tank full indicator light will be on (red color) to remind that the water tank is full and you need to empty the water tank.



Timer button

Press the timing key to set timing / check timing / cancel timing

a) In the non timing state: press the timing key to enter the timing setting state. The digital screen flashes to display the timing time. During the flashing period of the digital screen, press the adjustment key to adjust the timing time (0 ~ 24h).

b) In the timing state: press the timing key, and the digital screen flashes to display the remaining timing time. Press the timing key again during the flashing period of the digital screen to cancel the timing.



Fan Speed button

Press this button to switch the fan speed between high and low fan speed cycle, and the corresponding indicator light will be on .

The fan speed can be adjusted only in Auto mode



Adjust button

Press this button to set humidity and timing time;

To humidity adjusting , press one time to add 5% humidity value, the humidity adjusting follow the order as below : 30% - 35% - 40% - 45% - 50% - 55% - 60% - 65% - 70% - 75% - 80% - 30% cycle

To timing,press one time to add 1 hours timing value, the timing follow the order as below: 00-01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-00 cycle



Child-lock

Press and hold this button for 3 seconds to open the child lock function ,the indicator light will be on and you can not operate other buttons except this one . Press and hold this button for 3 seconds again to close the child-lock function ,the indicator light will be off.

Drainage

There are two ways of removal collected water produced by the unit.

- A. Manual draining: Empty water tank by manual.
- B. Continuous draining: Use gravity to drain condensate water by attaching a drain hose.

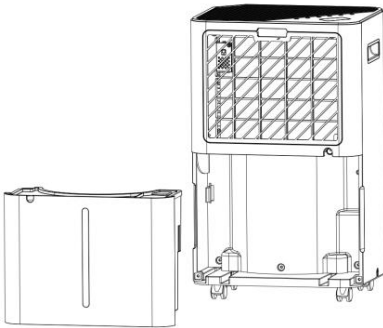
Emptying the Water Tank

The built-in water tank will fill up and shut the unit down once it is full. It will run again once you empty the water tank and re-install it properly.

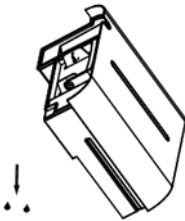
- 1) When the tank is full, The machine will buzz for 5 times and the “Water Tank Full” indicator light will light up.
- 2) Press the POWER button to turn off the unit.
- 3) Pull on the water tank and simply slide out of the body of the dehumidifier.
- 4) Empty the water into an area with a drain or outside.
- 5) Clean the inside of the tank as well as the outside.
- 6) Replace the empty tank back into the unit.
- 7) Press the POWER button to resume operating.
- 8) If the Water Full light does not extinguish, check that the float is correctly in place.

Operating the Product

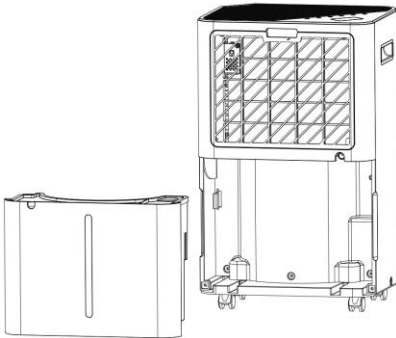
Drainage (continued)



1.Pull out the water tank



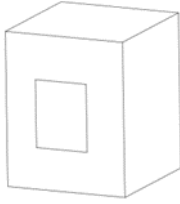
2.Empty the water tank



3.Replace the empty tank back into the unit.

Operating the Product

Drainage (continued)



1. Do not discard the magnets and plastic rivets in the tank. Otherwise, the dehumidifier cannot be started, or the machine will not automatically stop working when the water tank is full, and the condensed water overflow will damage the floor of the room.
2. Please make sure to clean the condensed water in the tank and put the tank in the original position
3. If the water tank is dirty, please rinse it with clean water. Avoid using detergents, steel wire balls, chemical dust removers, diesel, benzene, diluents or other solvents. Otherwise, it can damage the tank and cause leaks.
4. Put the water tank in its original position. Otherwise, the indicator light will always be red and the machine cannot start working again.

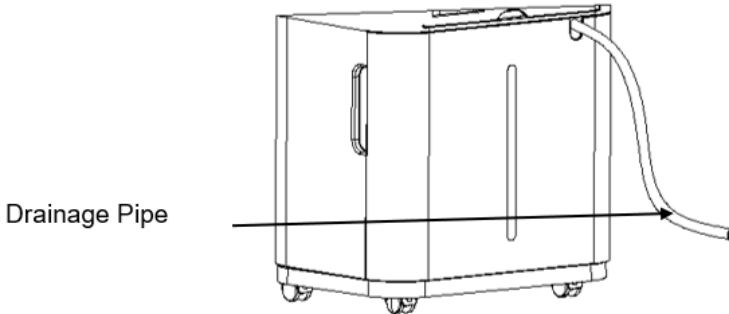
Operating the Product

Drainage (continued)

Continuous Drainage

For continuous operation or unattended dehumidification, please connect the attached drain hose to the unit. Condensate water can be automatically flow into a bucket or drain by gravity.

1. Straighten the drainage pipe
2. Insert one end of the drain into the drain into the cistern hole and connect the other end to the bathroom, outdoor or bucket like container, or the prescribed drainage area



Warning

1. Please do not block the drain or drainpipe as, if this happens, condensed water will flow into the water tank.
2. Please do not bend the drainpipe. The height of the drainpipe should be lower than the outlet.
3. The drainpipe shall be securely connected to the outlet.
4. Do not submerge the end of drainage pipe into water as this may cause an "Air Lock" in the pipe and the water may not flow smoothly and result in water leakage.

Cleaning, Maintenance and Storage

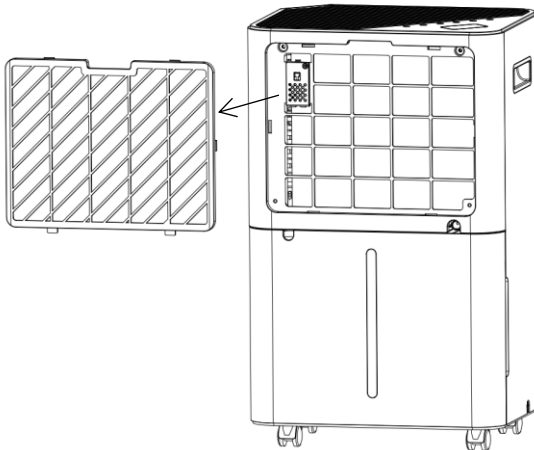
Note: Before cleaning and maintaining the machine, be sure to turn off the machine and pull the power plug to prevent electric shock.

Cleaning the Air Filter (every two weeks)

Dust collects on the filter and restricts the airflow. The restricted airflow reduces the efficiency of the system and if it becomes blocked it can cause damage to the unit.

The air filter requires regular cleaning. The air filter is removable for easy cleaning. Do not operate the unit without an air filter, or the evaporator may be contaminated.

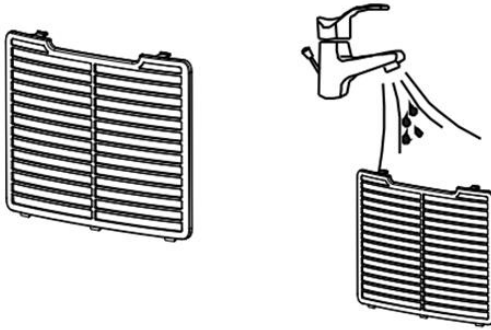
1. Switch the unit off and remove the air filter



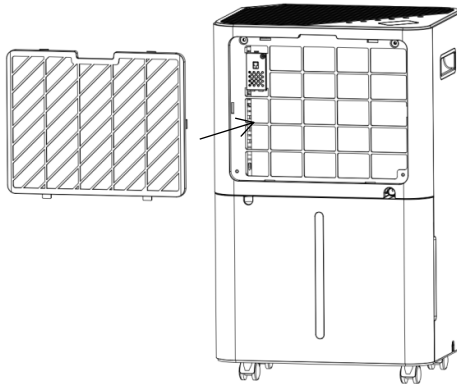
Cleaning, Maintenance and Storage

Cleaning the Air Filter (continued)

2. Use a vacuum cleaner to gently absorb the dust on the surface. If the filter is very dirty, wash it with water and a soft detergent and dry it thoroughly afterwards.



3. Put the filter back.



Cleaning, Maintenance and Storage

Storage

Long-Term Storage: If you will not be using the unit for an extended period of time (more than a few weeks) it is best to clean the unit and dry it out completely. Please store the unit per the following steps:

1. Press the power button to switch off and unplug the unit.
2. Drain the remaining water from the unit.
3. Clean the filter and let the filter dry completely in a shaded area.
4. Collect the power cord at the water tank.
5. Re-install the filter at its position.
6. The unit must be kept in an upright position when in storage.
7. Preserving the machine in ventilating, dry, non-corrosive gas and safe place indoor.

ATTENTION:

The evaporator inside the machine must be dried out before the unit is packed to avoid component damage and mold. Unplug the unit and place it in a dry open area for days to dry it out.

Another way to dry the unit is to set the humidity point more than 5% higher than the ambient humidity to force the fan to dry the evaporator for a couple of hours.

Troubleshooting

Functioning Temperature

$5^{\circ}\text{C} \leq \text{Ambient Temp.} \leq 38^{\circ}\text{C}$

When the ambient temp is lower or higher than the functioning temp, the dehumidifier stops.

When $5^{\circ}\text{C} \leq \text{Ambient temp.} \leq 20^{\circ}\text{C}$, the compressor automatically defrosts at intervals; during defrosting, the compressor stops and the fan keeps running.

BEFORE CALLING FOR SERVICE

Before contacting professional service, please review the trouble shooting list (on the next page) that includes common occurrences that are not the result of a defect in workmanship or materials.

Troubleshooting

TROUBLESHOOTING

SYMPTOM	INSPECTION	SOLUTION
The unit is not operating.	✓ Check the power connection in securely.	➤ Insert the power cord securely into the wall Outlet.
	✓ Check if the water level indicator lights up?	➤ Empty the water tank and reinstall correctly.
	✓ Check the room temperature.	➤ The range of operating temperature is $5\text{-}38^{\circ}\text{C}$.

There is little formation of condensate.	✓ Check if the air filter the air filter clogged by dust	➤ Clean the air filter
	✓ Check if the air inlet or air outlet obstructed	➤ Remove the obstruction from the air inlet or air outlet
	✓ Check if the room temperature is below 20°C.	➤ This is normal. Machine will defrost in low temperature environment.
	✓ Set humidity level is higher than current Humidity value.	➤ Set the humidity level below current humidity value.
Water Leakage	✓ Overflow while moving the unit.	➤ Empty the water tank before transport.
	✓ Check if the drain hose is kinked or bends.	➤ Straighten the hose to avoid a trap existing.
Excessive Noise	✓ Check if the unit is securely positioned.	➤ Place the unit on horizontal and firm ground.
	✓ Check if any loose, vibrating parts.	➤ Secure and tight the parts.
	✓ Noise sounds like water flowing.	➤ Noise comes from flowing refrigerant. This is normal.
Error code	E1	✓ Humidity sensor dampened or failure. ➤ To clean or replace the humidity sensor.
	CL	✓ Display when Room temperature is below 5°C ➤ Normal. The compressor and fan will stop working under this condition
	CH	✓ Display when Room temperature is above 38°C ➤ Normal. The compressor and fan will stop working under this condition
	LO	✓ Display when Room relative humidity is bellow 20%RH. ➤ Normal. The compressor and fan will stop working under this condition

Spare Parts and Repairs

To order replacement parts, please go to www.nettadirect.com/parts.

You will need PDC information from your product, user manual or carton box. Alternatively, go to our website and use the search bar to find the parts available.

You can also find this code on the [back of this User Manual](#).

For our Repair Service, please contact our customer support via email at support@nettadirect.com. They will provide you with more details of the repair service offered by NETTA.

Disposal of Product

IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE 2002/96/EC.

DISPOSAL:

Please dispose of this product responsibly. This item cannot be disposed of in general waste. Please contact your local council authority for more information on how to dispose this product. If this product is disposed of with general waste, it will end up in a landfill and will leak hazardous substances into the groundwater – effecting our food chain.



Your Warranty

If you purchased with NETTADIRECT, or one of our authorised resellers, you will automatically enrol your warranty for 1 (ONE) year. You do not need to register again for your warranty. All warranties will be carried out to our terms and conditions, including warranty conditions, which you can find out from our website at www.nettadirect.com.

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Product Dependency Code (PDC)

Your PDC is below:

PDC: OL20-BD068A
SKU: 104023

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