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TESY

DHF20CEL Dehumidifier

TESY DHF20CEL Dehumidifier Instruction Manual

Contents

TESY

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Specifications:

- Model: DHF20CEL
- Manufacturer: Tesy ltd.
- Website: **www.tesy.com**

Product Information

The DHF20CEL dehumidifier is designed to remove excess moisture from the air, creating a more comfortable environment in your home or office. It features a control panel with a 3-color digital display, front and back shells, castors for easy mobility, air filter, water tank with continuous drainage option, and various operation modes for efficient dehumidification.

Usage Instructions

Safety Information:

- Ensure the dehumidifier is used for its intended purpose only.
- Avoid placing heavy objects on the appliance.
- Empty the water tank before moving or relocating the device.
- Children should be supervised when operating the appliance.
- Avoid operating the appliance if cables or connectors are damaged.

Installation:

1. Place the dehumidifier on a firm, level surface with adequate ventilation.

2. Avoid exposure to direct sunlight, heat sources, excessive dust, or mechanical vibrations.

3. Ensure the air inlet and outlet are not blocked by any objects.

Operation:

- To power on/off, use the power button on the control panel.
- Adjust the humidity setting and fan speed using the control panel buttons.
- Empty the water tank regularly to maintain efficient operation.

FAQ:

1. **Q: Can children operate the dehumidifier?**

   A: Children should be supervised when operating the appliance and should not play with it unsupervised.

2. **Q: What should I do if the appliance malfunctions?**

   A: Do not operate the appliance if there is any damage. Contact the manufacturer or authorized service agent for repairs.

SAFETY INFORMATION

CAUTION, RISK OF FIRE.
Appliance is filled with flammable gas R290.
GWP value of R290 refrigerant is 3.
Any repairs you need, contact the nearest authorized Service Centre and strictly follow manufacturer's instruction only.
Appliance shall be installed, operated and stored in a room with a floor area larger than 4 m².
Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
Do not pierce or burn.
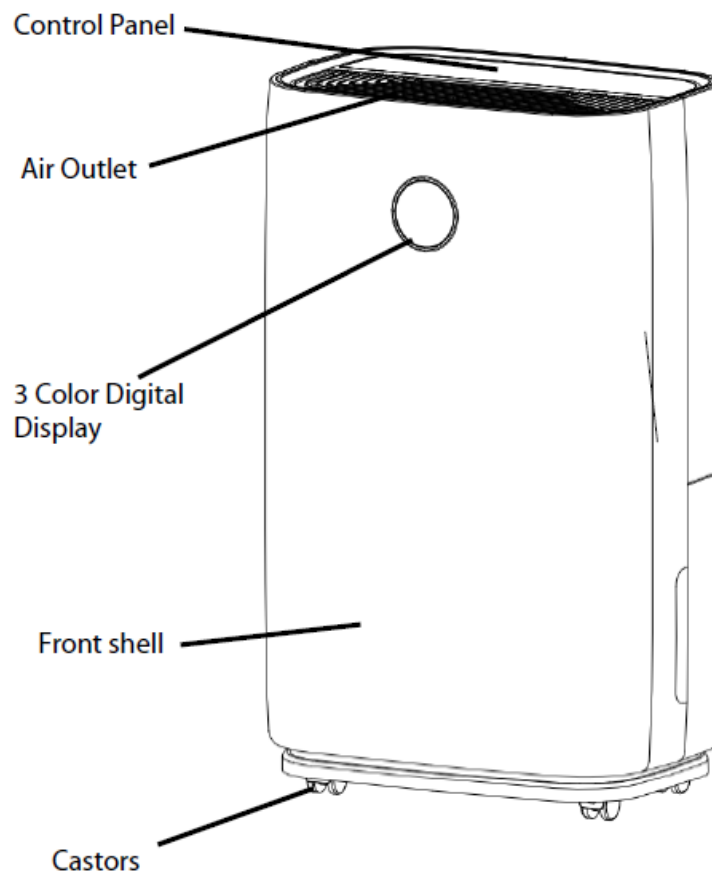Be aware that refrigerants may not contain an odour.
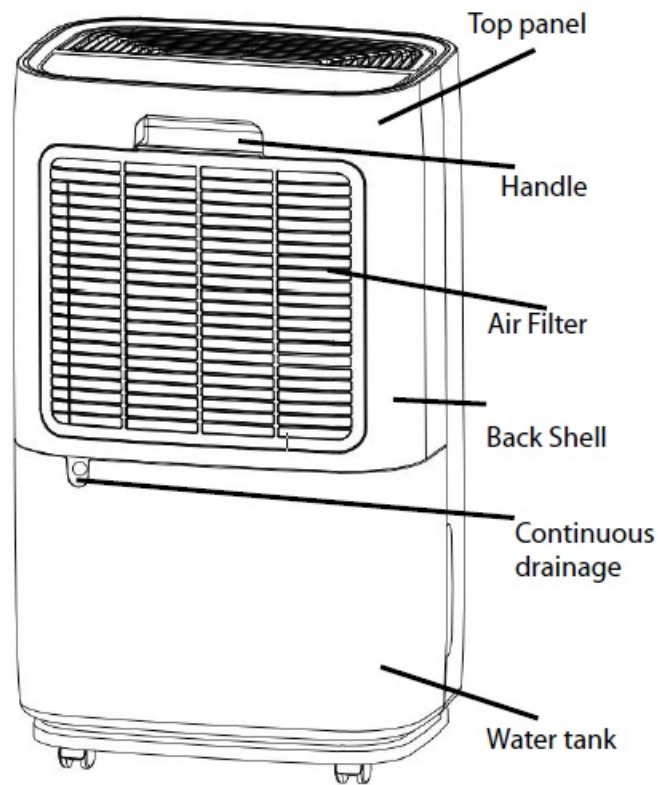
WARNING!

- Please read the operating instructions carefully before using your dehumidifier for the first time and keep them in a safe place.
- CAUTION: Children under 3 years of age should be kept away from the appliance unless they are under constant supervision.
- Children from 3 to 8 years of age are allowed to operate the on/off button only, provided that the appliance is installed and ready for operation and the children have been instructed in safe operation of the appliance and they understand all related risks.
- Children from 3 to 8 years of age MUST NOT: connect the plug to the power socket, make adjustments, clean it

or carry out user maintenance operations.

- This appliance can be used by children older than 8 years of age and people with reduced physical, sensor and mental capabilities, as well as by people with insufficient experience and knowledge in case they are supervised or instructed in safe operation of the appliance and understand the related risks. Children should not be allowed to play with the appliance. Cleaning and user maintenance operations must not be carried out by children without supervision.
- Never immerse the appliance in water or other liquids.
- Never operate the appliance if a cable or connector has been damaged, after appliance malfunction or if the appliance was dropped or otherwise damaged.
- Electric appliance may only be repaired by qualified personal, improper repair work can be a source of considerable danger for the users.
- Disconnect the appliance from mains power whenever it is not in use, before relocating it, and before cleaning.
- Operate the appliance only at the voltage specified on the type plate.
- Use the appliance only in the household, and only for the purpose it was designed for.
- Do not place heavy objects on the appliance.
- To prevent spillage, empty the water tank before relocating the appliance.
- Do not tip the appliance to any side as escaping water could damage the appliance.
- When 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 devices should be installed at minimum distant of 50 cm from the wall or other obstacle.
- Unplug the appliance before cleaning.

PARTS

Top panel
Handle
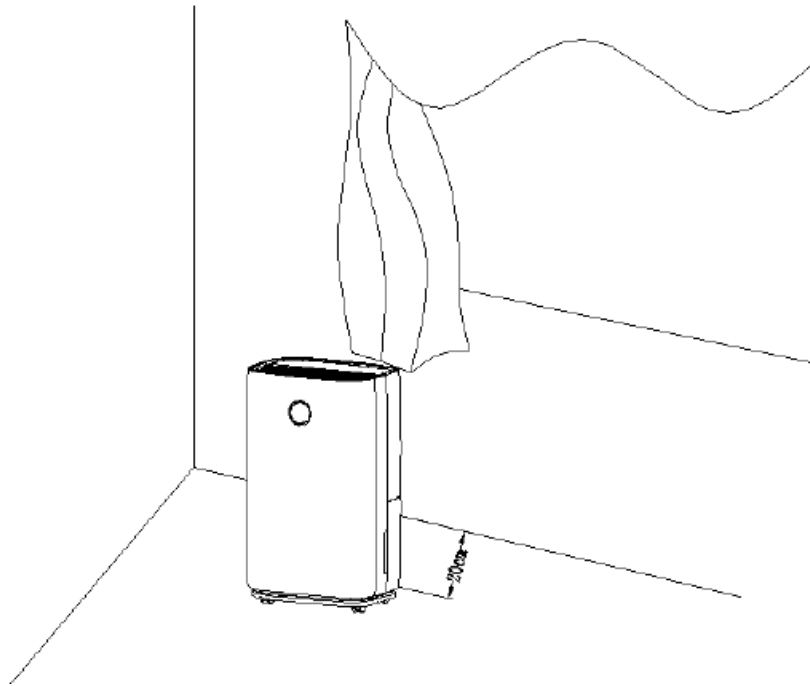Air Filter
Back Shell
Continuous drainage
Water tank

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 products that produce heat.
   - Direct sunlight
   - Mechanical vibration or shock
   - Excessive dust
   - Lack of ventilation, such as cabinet or bookcase
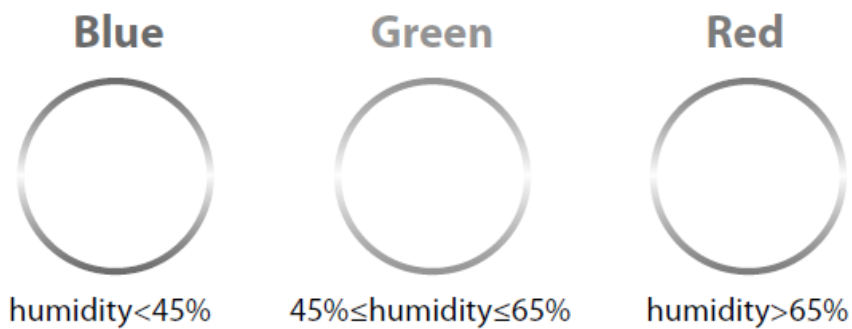   - Uneven surface

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.
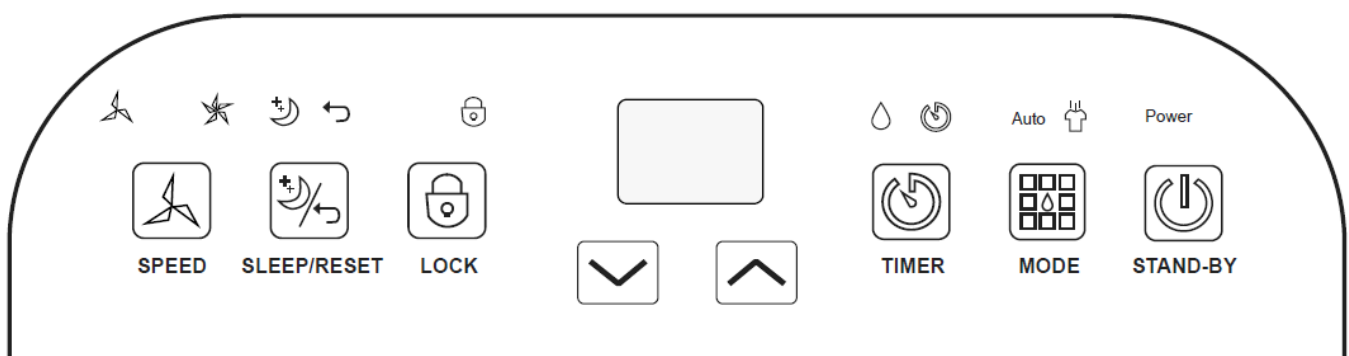
OPERATION

DIGITAL DISPLAY

Blue	Green	Red
Humidity <45%	45%≤ Humidity ≤65%	Humidity >65%

CONTROL PANEL

SETTINGS

Power

In the standby state, press the power button to turn on, the operation indicator lights up and the default fan speed is high, the LED shows ambient humidity. In the power-on state, press the power button to turn off, the running indicator light goes off and the compressor stops immediately, and then the fan shut down after 30 seconds delay.

Mode

Auto mode – continuously drying mode-sleeping mode cycle, press once to switch the mode from one to another, the corresponding indicator lights up.

Auto mode:

When environmental humidity ≥ set humidity +3%, the fan starts working and compressor starts working after 3 seconds. When environmental humidity ≤ set humidity -3%, the compressor stops working and fan stops working after 30 seconds' delay.
Both fan speed and humidity can be adjusted under auto mode.

Continuously drying mode

The machine continues to run, but the humidity can not be adjusted.

Sleeping mode
Touch the sleep button, the button lights up and start the sleep function. Long Press and hold the sleep button 3S to reset the filter

Timer
Press the timer button to set the 0-24 hour timing function. The interval is 1 hour. Each time you press this button, the value increased 1 hours and then the
corresponding timing value is displayed on the screen. The setting value is "00" to cancel the timer function. The indicator turns out. After the timer is set and completed, the timer LED is on during the timing period. After the timing is over, the timer LED turns off automatically.
In the running state, set the time to turn off the machine; in the standby state, set the time to turn on the machine. When press POWER will also exit the timer setting.

Speed
Only in automatic mode, touch this button to switch between high and low fan speed, and the indicator light is on.

Up
Press this button to set up humidity and timing time; Humidity adjusting the order of 30% to 35% – 40% – 45% – 50% – 55% – 60% – 65% – 70% – 75% – 80% – 30%;
Time set to 00, press this key, display 00 and blink, then press this key again every time, from 01-02-03-….24 goes all the way up to +1

Down
Press this button to lower humidity setting and timing time;
Humidity adjusting the order of 30% to 80% – 75% – 70% – 65% – 60% – 55% – 50% – 45% – 40% – 35% – 30%;
Time set to 00, press this key, display 00 and blink, and then press this key again every time, from 24-23-22-……
The value of -00 keeps repeating -1.

Child-lock
When the machine is turned on, press the button for 3 seconds to open/close the child lock function. When the button is turned on, the indicator light of the child lock is on. The indicator light of child lock is off; After the child lock function is opened, the child lock function will be cancelled automatically as long as the shutdown or power failure occurs
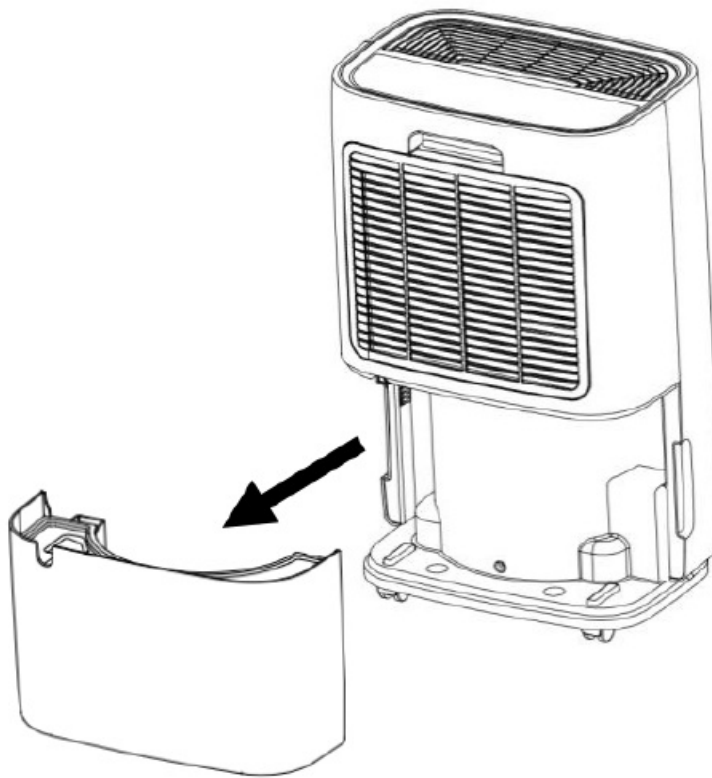
DRAINAGE
There are two ways of removal collected water produced by the unit.

- Manual draining: Empty water tank by manual.

- Continuous draining: Use gravity to drain condensate water by attaching a drain hose.
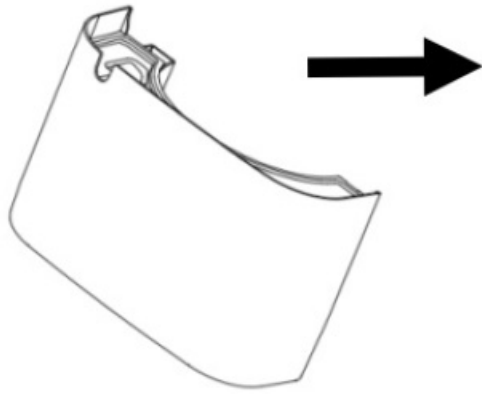
EMPTYING THE WATER TANK

The water tank built in unit will fill up and shut the unit down once it is full. It will run again once you empty the water tank and installed properly.
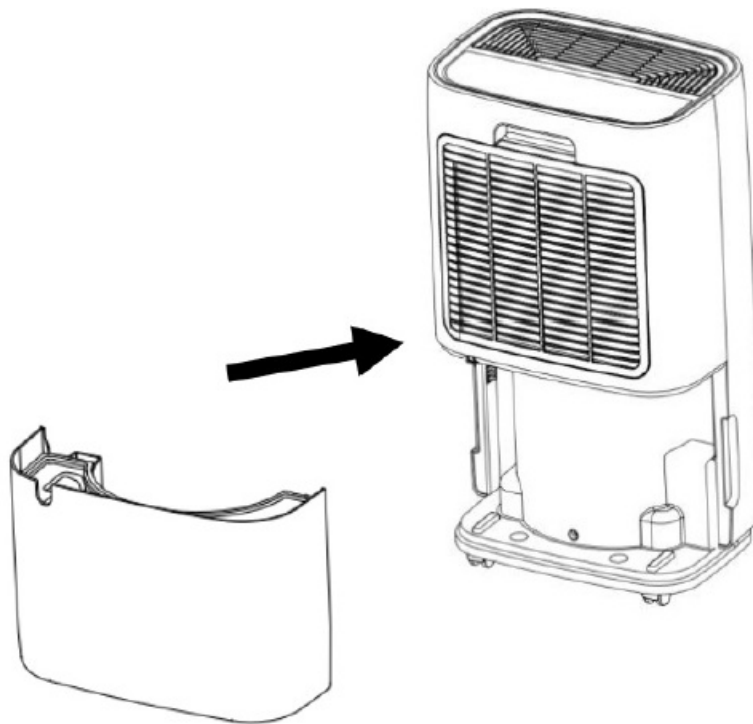
1. When the tank is full, The unit will make a buzzing sound, and the "Water Full" light will turn on.
2. Press the POWER button to turn off the unit.
3. Pull on the water tank and simply slide out of the body of the dehumidifier.
4. Empty the water into an area with a drain or outside.
5. Clean the 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.
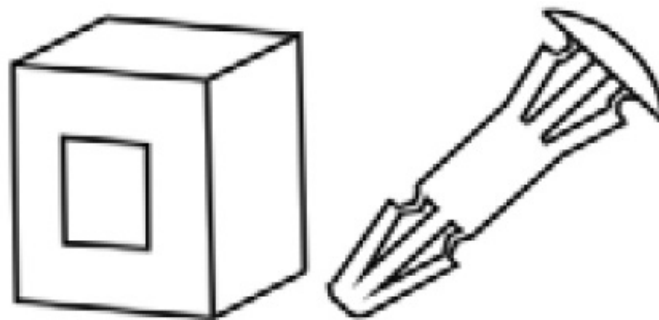   - Pull out the water tank

- Empty the water tank
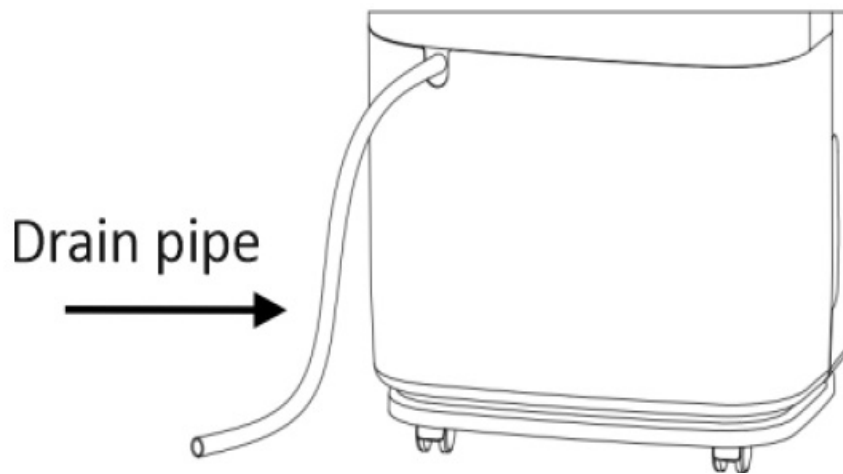
- Replace the empty tank back into the unit

- 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.

Please make sure to clean the condensed water in the tank and put the tank in the original position.
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.
Put the water tank in its original position. Otherwise, the indicator light will always be red and the machine cannot start working again.

Continuous drainage:

1. Take out the PVC pipe, Straighten the drain pipe
2. Insert one end of the drain pipe into the drain outlet at the top of the tank and connect the other end to the bathroom, floor drain, outdoor or bucket like container, defined drain area

Drain pipe →

Please do not block the drain or drain pipe, if blocking phenomenon, condensed water will flow into the tank.
Please do not bend the drain pipe. The height of the drain pipe should be lower than the outlet.
The drain pipe must be firmly connected to the outlet.
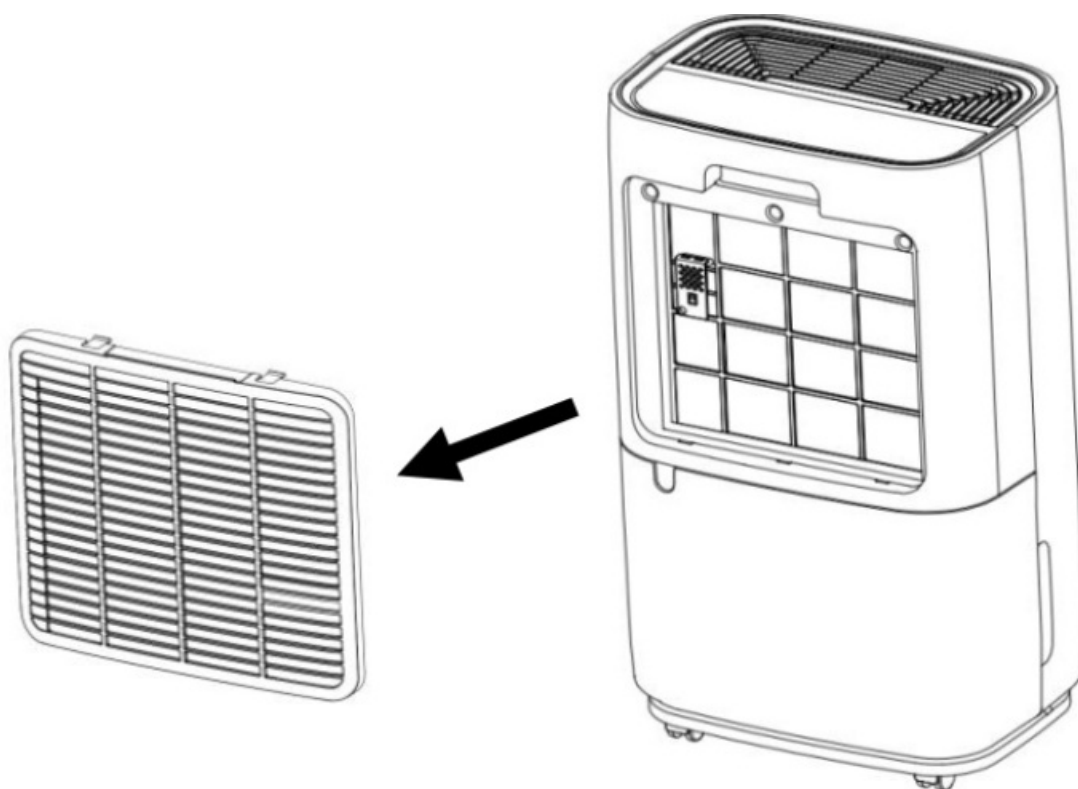
MAINTENANCE

Before cleaning and maintaining the machine, please be sure to turn off the machine and unplug the power to avoid electric shock.

CLEANING THE AIR FILTER (every two weeks)
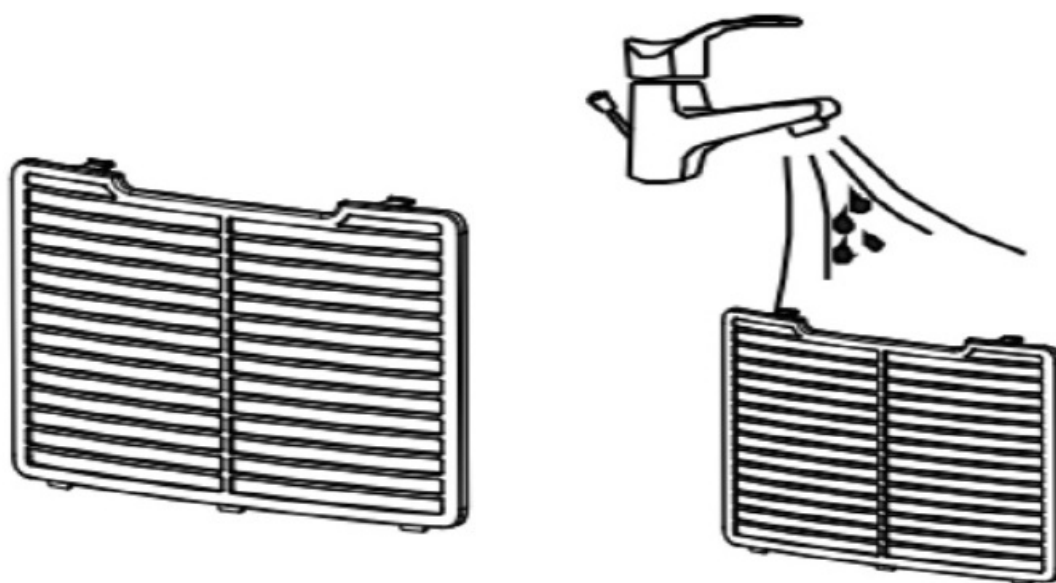
Dust collects on the filter and restricts the airflow. The restricted airflow reduces the efficiency of the system and if it becomes blocked it can cause damage to the unit.
The air filter requires regular cleaning. The air filter is removable for easy cleaning. Do not operate the unit without an air filter, or the evaporator may be contaminated.
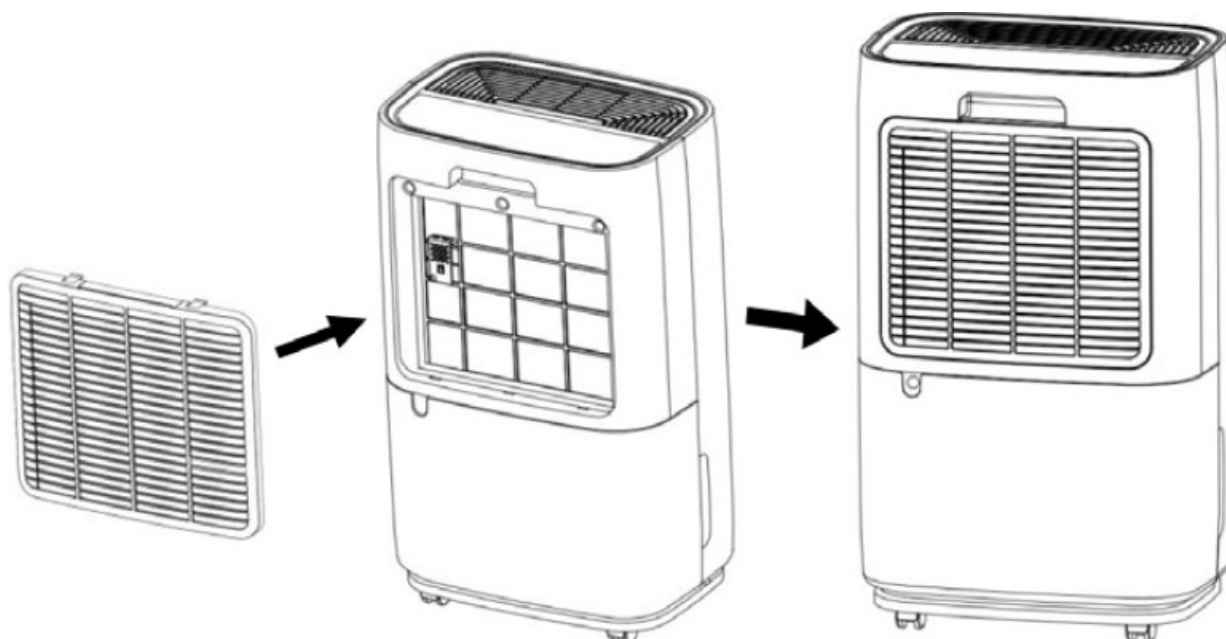
- Switch off the unit and remove air filter

- Rinse under a running water or using the vacuum to clean the dust

- Reassemble the air filter

REPLACEMENT PARTS

For "TESY" dehumidifier is provided with the following sets of filters, which are necessary for one year operation (2800 hours of operation):

- 1 Pre-filter made of active carbon
- 1 HEPA filter

You may request a replacement part for a particular model in the trade center.

SPECIFICATIONS

Dehumification Capacity	20L/Day (30°C, 80%)
Power supply	AC220-240V/50Hz
Power Consumption	378W, 220-240V~50Hz
Water tank capacity	4.0L
Maximum Refrigerant Charge	R290/60g
Net weight	14.5kg
Maximum Design pressure	High Side: 3.2MPa, Low Side:0.7MPa
Dimension	342*237*570(mm)

 Environment protection instructions

Old electric appliances contain valuable materials and therefore should not be disposed of as domestic waste! We ask you for your active cooperation to protect the resources and the environment by submitting your appliance to organized buy-back stations (if there are such).

TROUBLESHOOTING

If a condition listed below occurs, please check the following items before calling customer service.

SYMPTOM		INSPECTION	SOLUTION
The unit doesn't operate.		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 5-35 °C.
There is little formation of condensate.		Check the air filter for dirt.	Clean the air filter as necessary.
		Check if the air duct is blocked.	To clear the obstacle.
		Check if the room temperature is below 20 °C.	This is normal. Low humidity 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	E2	Humidity sensor dampened or failure.	To clean or replace the humidity sensor.
	CL	Display when Room temperature is below 5°C (41°F).	Normal. The compressor stops, and the fan keeps running.
	CH	Display when Room temperature is above38°C (100°F).	Normal. The compressor stops, and the fan keeps running.
	LO	Display when Room relative humidity is bellow 20%RH.	Normal. The compressor stops, and the fan keeps running.
	HI	Display when Room relative humidity is above 90%RH.	Normal. The compressor and the fan keep running.

Documents / Resources

TESY DHF20CEL Dehumidifier [pdf] Instruction Manual
DHF20CEL Dehumidifier, DHF20CEL, Dehumidifier

References

- ⟨⟩ **TESY Homepage**
- **User Manual**