

ACDH20A

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PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THIS DEHUMIDIFIER. THE OPERATION GUIDE IN THIS MANUAL IS VERY IMPORTANT, PLEASE KEEP IT FOR REFERENCE.

Notices

PLEASE READ THE FOLLOWING NOTICES CAREFULLY BEFORE OPERATING THIS UNIT. THE WARNINGS AND NOTICES MUST BE OBSERVED EFFECTIVELY TO ENSURE THE SAFETY OF OPERATION.

Warning means personal death or serious injuries may result from improper disposals.

- If any abnormalities are found, turn the power switch located on the back of the unit to the OFF position, disconnect the power plug from the supply, and contact the retailer.
- Before turning off the dehumidifier, turn the power switch to the OFF position before disconnecting the power plug from the supply.
- Please DO NOT try to dismantle or repair the dehumidifier.
- Avoid contact of liquids to the unit and operator when inserting or disconnecting the plug from the power supply.
- 110/120v current is required for operation.
- Ensure the plug terminals are clean before placing them into a live power outlet.
- DO NOT operate the unit in places that expose it to flammable vapors or other chemical substances like oil and gasoline.

- Keep the dehumidifier away from heating equipment to prevent the internal resin material from igniting or melting.
- DO NOT connect the dehumidifier to a socket with a voltage rating of anything other than what the unit is intended for.
- Avoid damaging the power cord or allowing other objects to rest on the cord and/or unit.
- To prevent injury or damage to the unit, avoid contact between the fan blade and other objects while the unit is operating at a high speed.
- DO NOT operate the unit with the back cover removed.

Notice means personal injury or property damage may result from improper disposals.

- The dehumidifier must be placed on a smooth and stable surface for optimal operating standards.
- The dehumidifier is for indoor use only. Direct exposure to outdoor conditions may be hazardous and/or cause damage to the unit.
- If the unit ends up in a position other than upright, water may enter the electrical compartment and cause electric shock.
- DO NOT use the dehumidifier for purposes such as food storage or artwork preservation, as it could promote deterioration in quality.
- If the unit is set to drain continuously, ensure the installation of the drainpipe is not warped.
- DO NOT block the air inlet or outlet. Direct air from the dehumidifier to blow away from heating equipment.
- Always properly disconnect the power cord from the power supply if the unit is being moved, not in operation, or undergoing cleaning and maintenance.
- Keep children away from the unit.
- DO NOT tamper with, or disassemble the float valve in the tank.
- Periodically inspect the unit for damages if it is being used on a continuous basis. Especially the air filter, drainpipe, power plug terminals, etc.

- Ensure the dehumidifier water tank is empty and the power is OFF before moving the unit. Utilize the handles while doing so.

Operation and efficiency

Defrosting operation:

The evaporator in the dehumidifier may defrost if the temperature of the room it is operating in is less than 59 degrees Fahrenheit. This defrosting feature may start up and operate for approximately 5 minutes every 30 minutes or longer.

- During the defrosting operation, the dehumidification function and air purification may intermit.
- DO NOT turn off the unit or disconnect the power cord during the defrosting operation.

The dehumidifier is not an air conditioner, and therefore, cannot sustain extremely low temperatures. Its purpose is to extract moisture and small amounts of heat out of the room atmosphere in which it is operating.

Room temperature increase:

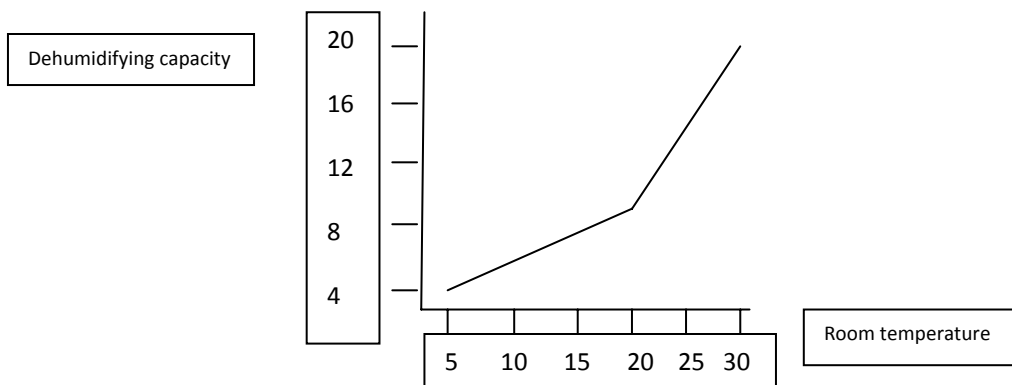
This unit DOES NOT have a cooling function. In addition to other heat emitting appliances such as grow lights, the unit will produce heat during operation and could increase the temperature of the room housing the unit. If occupying a smaller space such as a cabinet or other similar sized space, temperature fluctuation may be more distinct.

Dehumidifying capacity:

The illustration below shows the daily dehumidifying capacity of the unit. This capacity is based on the 86 degree Fahrenheit room temperature that the unit sets, 80% relative humidity, and the air outlet fully opened. At different temperatures and humidity levels, the dehumidifying capacity may vary.

In the same room temperature, the dehumidifying capacity is higher when relative humidity levels are high and lower when relative humidity levels are low. In the same relative humidity, the dehumidifying capacity is higher in high temperatures, and lower in low temperatures.

If the dehumidifier is placed in a cabinet or small area, its dehumidifying capacity may highly reduce the active humidity levels in the area after a short amount of time.



Part Names and Functions:

(Please refer to the original manual for pictures and diagrams- PG 6)

Maintain a distance of 1' in all directions of the unit. This will ensure air flow is efficiently being exchanged into the unit for optimal operation. An anti-bacterial air purification filter is included to provide clean air exchange between the room and the dehumidifier.

Operation panel:

(Please refer to the original manual for pictures and diagrams- PG 7)

Select proper functions:

To lower the indoor humidity levels: Humidity valve selection 55-70%

Dehumidifying a wardrobe or small space: Humidity valve selection 45-55%

Indoor air filtration: Humidity valve selection 55-70%

Preparations and inspections beginning operation:

Air filter installation:

(Please refer to the original manual for pictures and diagrams- PG 9)

1. Remove the air inlet panel located on the back of the unit.
2. Apply the filter in between the plates of the air inlet panel
3. Re-install the air inlet panel to the back of the unit.

Water tank installation:

(Please refer to the original manual for pictures and diagrams- PG 10)

The dehumidifier cannot operate if the tank is full of water or is not installed correctly.

1. To remove the water tank, pull it straight out from the unit securing it from the bottom.
2. Empty the water down the drain. **DO NOT consume or apply to the garden**
3. Re-install the water tank back into place.

Once the water tank is full the dehumidifier will stop operation automatically. The FULL indication light will be lit if the water tank is full or if it is removed from the unit.

Operation Manual

1. Connect the dehumidifier to the appropriate power supply.
 - The power indicator light should be illuminated red.
 - Confirm that the water tank is properly installed into the unit housing. The FULL indicator light should not be lit.

2. The power switch located on the back of the unit should be in the ON position “I”.
 - The fan should begin to operate upon powering on the unit.
 - The compressor is on if the humidity value of the air is above the indicated level selected by the knob.
 - The compressor is off if the humidity value of the air is lower than the indicated level selected by the knob.

3. Wind speed is adjustable through two separate modes:
 - High or low

4. Humidity level selection
 - Use the humidity knob to select between minimum room humidity levels or maximum room humidity levels.
 - Closer to the MIN selection will indicate low humidity levels in the room, dictating the dehumidifier to extract more moisture.
 - Closer to the MAX selection will indicate higher humidity levels in the room, dictating the dehumidifier to extract less moisture.

5. Turning the unit off
 - Pressing the switch towards the “O” position will turn power to the unit off.

6. FULL water tank indication
 - If the tank is full, the FULL indicator light will illuminate orange and the machine will cease operation.

Maintenance

Review all WARNINGS and NOTICES before performing any services or maintenance on this unit

Keep the dehumidifier in an upright stance only to avoid operational defect and disconnect the unit from the power supply.

Cleaning

1. Use a damp, not saturated, cloth to clean the dehumidifier housing. DO NOT clean the operation panel with a damp cloth or liquids.

2. DO NOT use abrasive cleaners or flammable liquids to clean the unit.
3. Certain cleaning cloths that contain chemical compounds may affect the color of the unit's housing.

Storage

1. Empty the water from the collection tank and dry it out thoroughly.
2. Clean the filter with either a dust collector or by rinsing it in warm soapy water. Ensure that it is thoroughly dry before replacing it back into the unit. The lifespan of the filter is approximately 6 months. After this time has elapsed, replace it with a similar anti-microbial filter available at most local hardware stores.
3. Keep the machine in an upright stance and away from direct sunlight and moisture.

Continuous drainage

Using the continuous drainpipe function allows the dehumidifier to function without filling up the water collection tank. This method is ideal for situations that require continuous operation.

1. Make sure that the unit is disconnected from the power supply while installing the continuous drainpipe.
2. Remove the stopper located in the drainage port located on the back of the unit.
3. Re-install the stopper into the drainage port responsible for filling the water collection tank. This is accessible from the front of the unit by removing the tank.
4. Install tubing from the drainage port to the appropriate draining location.
5. Ensure the water tank is back in the correct position before turning the unit on, otherwise it will not operate.
6. Make sure to incline the drainpipe tubing downwards for proper drainage.
7. Ensure the dehumidifier is operating in the recommended temperature and humidity frame to prevent freezing.

Troubleshooting

Please refer to the PG 15 in the original manual for various malfunctions and solutions.

Technical specifications

Model:	ACDH20A
Power supply:	115Vac/60Hz
Rated current:	3 amps
Dehumidifying capacity:	20L per day @ 86F / 80% RH 12L per day @ 80F / 60% RH
Water tank capacity:	4L
Net weight:	Approximately 28 LBS.
Overall dimensions:	12.5" L x 11.5" W x 22" H
Operational temperature:	41F - 95F
Airflow:	180 cubic meters per hour
Coolant:	R134a / 170g
Sound:	< 43 dB/A
Suction side pressure:	.5 MPa
Discharge side pressure:	1.5 MPa