BOLTIC™

COMMERCIAL WHEELED
DEHUMIDIFIERS
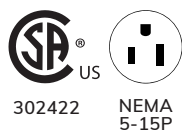## INSTRUCTION MANUAL

#22BPCD90P   160 PINT
#22BPCD130P   200 PINT

READ AND SAVE THESE INSTRUCTIONS.

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SPECIFICATIONS

MODEL	22BPCD90P		22BPCD130P	
DEHUMIDIFYING CAPACITY	80°F (27°C) / 60% RH	86°F (30°C) / 80% RH	80°F (27°C) / 60% RH	86°F (30°C) / 80% RH
	93 PINTS/DAY	160 PINTS/DAY	130 PINTS/DAY	200 PINTS/DAY
WATTAGE & CURRENT	735W / 7.0A (80°F / 60% RH)		945W / 8.3A (80°F / 60% RH)	
SUPPLY VOLTAGE	115V / 60Hz		115V / 60Hz	
REFRIGERANT	R410A		R410A	
AIR CIRCULATION	386 CFM		400 CFM	
BODY DIMENSIONS	19¼"W X 21½"D X 37⅛"H		20⅜"W X 21½"D X 33¾"H	
NET WEIGHT	97 LB.		117 LB.	
LOADING QUANTITY	20' - 72 / 40' - 152 / 40'HQ - 228		20' - 54 / 40' - 114 / 40'HQ - 114	

CSA ®US
302422   NEMA 5-15P

CONFORMS TO UL STD. 60335-1
CONFORMS TO CSA C22.2 NO. 60335-1-16

PRODUCT INTRODUCTION

This product is intended for indoor office, industrial, or other commercial applications. Use only with electrical wiring that is in good working order and that meets applicable codes and ordinances. A dedicated circuit is required to run this equipment. If you have any questions about whether your wiring is adequate, consult a qualified electrician.

While using your Boltic dehumidifier, you should follow the **IMPORTANT INSTRUCTIONS** listed below. As part of those instructions, we have used the word "**WARNING**" to indicate the level of hazard: **WARNING** indicates a hazard which, if not avoided, could result in injury or death.

HAZARD STATEMENTS

As with all electrical appliances, basic safety precautions should always be followed to reduce the risk of electric shock, fire, or injury to persons, including the following precautions:

- Read all the instructions before using this dehumidifier.
- Use this dehumidifier only as described in this manual. Any other use not recommended by the manufacturer may cause electrical shock, fire, or injury to persons.
- Do not operate the dehumidifier with a damaged power cord or after the dehumidifier malfunctions.
- Use of extreme caution is necessary when any dehumidifier is used by or near children, disabled persons, or pets, and whenever the dehumidifier is left operating unattended.
- Do not place the dehumidifier on small, unlevel, or uneven surfaces, or on any surface which might cause the dehumidifier to tip or fall.
- For proper operation, the dehumidifier should be placed on a smooth, non-combustible, level surface.
- Always unplug the dehumidifier when not in use, when moving from place to place, when assembling or disassembling parts, and before cleaning.
- The use of attachments not recommended or sold by the manufacturer may cause hazards.
- Do not use outdoors.
- Do not use the dehumidifier in a window. Rain may cause electrical hazard (for non-window models).
- Do not operate the dehumidifier with blade guards or any safety device removed.
- A dedicated circuit must be used with this equipment. Avoid the use of extension cords due to risk of fire.
- Do not run the power cord under carpeting. Do not cover the cord with throw rugs, runners, etc. Arrange the cord away from high-traffic areas to avoid tripping hazard.
- Do not insert or allow any object to enter any openings on the dehumidifier, as doing so may cause electric shock and / or fire hazard. Avoid contact with moving parts.
- Do not use any methods to accelerate the cleaning or defrosting process other than those recommended by the manufacturer.
- Do not use the dehumidifier in a room with continuously operating sources that require air, such as open flames, gas appliances, or electric heaters.
- Use only in a well-ventilated area where the room size corresponds to the output of the machine.

WARNINGS

⚠️ OBSERVE THE FOLLOWING:

WARNING: Shock Hazard

DO NOT allow machine or cord to operate in standing water. Machine is designed for use in damp areas such as basements, attics, and garages. Allowing the unit to operate in wet conditions may result in electric shock.

WARNING: Hot Surfaces

DO NOT touch dehumidifier motor when in use. This motor is hot when in use. To avoid burns, DO NOT let bare skin touch hot surfaces.

WARNING: Fire Hazard

DO NOT use near combustible materials, flammable gases, or sources of heat.
DO NOT USE in areas where gasoline, paint, or flammable materials are used or stored. To prevent a possible fire, DO NOT block air intakes or exhaust in any manner. DO NOT insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock, fire, or damage to the dehumidifier.

WARNING: Electrical Shock Hazard

DO NOT use with damaged cord or plug. Use with adequate electrical system that is up to code.

CAUTION: To prevent electric shock, this product has a 3-prong grounded plug that must be inserted into a matching properly grounded outlet to reduce the risk of electrical shock. DO NOT attempt to bypass this safety feature.

DO NOT operate any dehumidifier with a damaged cord or plug, after dehumidifier malfunctions, or after dehumidifier has been dropped or damaged in any manner. Unplug the dehumidifier when not in use. DO NOT operate dehumidifier with its ventilation obstructed.

WARNING:

1. To reduce the risk of fire or electric shock, do not use this dehumidifier with any solid state speed control device.

2. This appliance has a ground plug which is intended to fit in an outlet only one way. If this does not fit an outlet, contact a qualified electrician. DO NOT attempt to bypass this procedure.

3. This product is for indoor use only.

4. Unplug from electrical supply source before cleaning.

5. If the power cord is damaged, contact your local service center or a qualified electrician to install an appropriate replacement cord to prevent any injury or damage.

6. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

7. Children should be supervised to ensure that they do not play with the appliance.

RULES FOR SAFE OPERATION

⚠️ **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

1. Never insert fingers, pencils, or any other object through the guard when the dehumidifier is running.

2. Disconnect the dehumidifier when moving from one location to another.

3. Disconnect the dehumidifier when removing grilles for cleaning.

4. Ensure the dehumidifier is on a stable surface when operating to avoid overturning.

5. DO NOT use the dehumidifier in a window. Rain may create electrical hazard.

6. The dehumidifier is for commercial use only.

7. DO NOT leave the dehumidifier running unattended.

SETUP

Dehumidifier Operation:
Always operate the dehumidifier in the upright position following all instructions and recommendations listed in this manual.

Dehumidifier Connection:
Electrical:
- Power the machine using the included plug.
- This unit uses a standard 120V wall outlet.
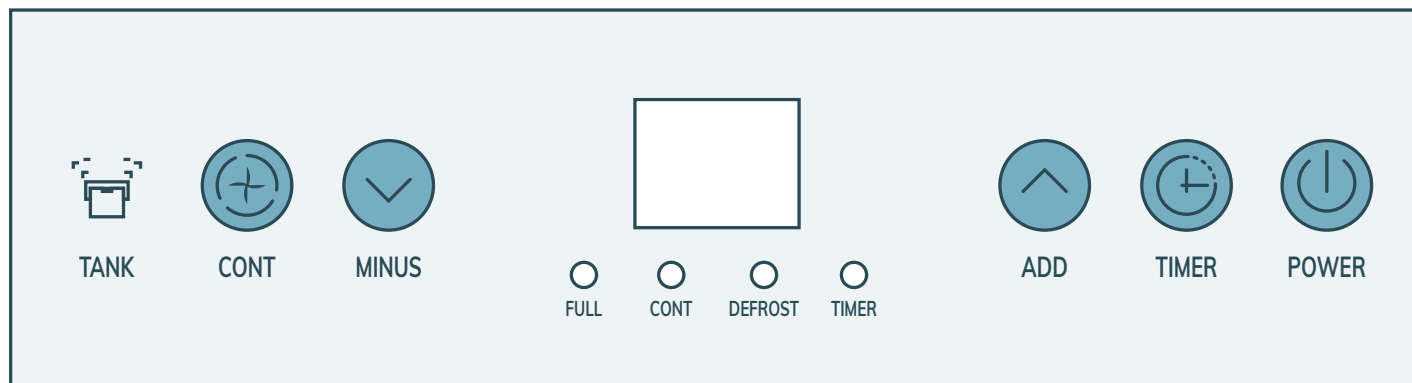- DO NOT use an extension cord.

Auto Drainage (Optional):
- Connect a water hose (≤ 13.12') to the water drainage hole using the quick connector.
- The machine will automatically drain through the water hose when operating.

Dehumidifier Location:
- Ensure the dehumidifier is sitting on a dry, level surface. Installation on a slope may cause excess noise and decreased capabilities.

OPERATION INSTRUCTIONS

CONTROL PANEL

"POWER" Button

- Press this button to start the machine. It enters continuous mode and starts working if it is outside the protection of a 3-minute delay start to the compressor.

- Press this button again to stop the machine. It enters standby mode, with the fan delaying 1 minute to stop.

"TIMER" Button

- In standby mode, press this button to set the start time for the machine. The time range is 1-24 hours.

- When the machine is on, press this button to set the shutdown time. The time range is 1-24 hours.

"ADD" Button

- Press this button to increase the set humidity. The buzzer will buzz once for each press, and the set humidity increases by 5% RH (Relative Humidity). Successive operation can be achieved by pressing this button continuously.

- When the "TIMER" button is pressed first, this button will increase the time (hours).

"MINUS" Button

- Press this button to decrease the set humidity. The buzzer will buzz once for each press, and the set humidity decreases by 5% RH (Relative Humidity). Successive operation can be achieved by pressing this button continuously.

- When the "TIMER" button is pressed first, this button will decrease the time (hours).

"CONT" Button

- Press this button to make the dehumidifier work continuously. The machine will keep working under this mode.

- This mode will be canceled after pressing the button again.

START UP

1. **Plug in the Unit:**
   - The dehumidifier will beep once.

2. **Press the "POWER" Button:**
   - The LCD display will light up.
   - A few seconds later, the current environment will be displayed.

3. **Setting Humidity:**
   - Press the "ADD" and "MINUS" buttons to set the required humidity.
   - When the current room humidity is < set humidity - 3% RH, the dehumidifier will turn off.
   - When the current room humidity is ≥ set humidity + 3% RH, the dehumidifier will turn on.

4. **Setting Preset Time:**
   - Press the "TIMER" button. The "hour" will flash on the display.
   - Press "ADD" and "MINUS" to adjust the working hours.

5. **Shut Down the Machine:**
   - Press the "POWER" button when the machine is on. The dehumidifier will stop working and all indicator lights will turn off.

NOTICES

1. **Compressor Restart Delay:**
   - During dehumidification, the compressor can only be restarted 3 minutes after it stops.

2. **Automatic Defrosting:**
   - If the machine works under low temperature, it may automatically defrost.
   - During defrosting, the defrosting indicator light will be illuminated, the fan works, and the compressor stops working.

3. **Memory Function:**
   - The system stores the current status before a power cut and resumes the same mode after power is restored.
   - If there is a power outage or the unit shuts off, it will automatically restart with the default humidity setting (10% RH) once power is restored.

4. **Humidity Range:**
   - 20% RH to 90% RH.
   - Set humidity by pressing the "ADD" and "MINUS" buttons in this cycle: 20% RH, 25% RH, 30% RH . . . 80% RH, 85% RH, 90% RH.

5. **Defrost Function:**
   - Protection based on temperature reflected by sensors.
   - When temperature is lower than 41°F/5°C or higher than 100°F/30°C, the compressor and fan stop working.
   - Defrost requirement: If the compressor runs for 30 minutes and the temperature sensor detects ≤ 30.2°F/-1°C for 10 seconds, the compressor stops, defrost starts, and the fan continues. The defrost light turns on.
   - Defrost stops when the pipe temperature reaches 41°F/5°C or after 15 minutes of defrosting.

6. **Compressor and Dehumidifier Operation:**
   - The dehumidifier starts immediately, and the compressor starts 3 seconds later if air inlet humidity ≥ setting humidity +3% RH.
   - The compressor stops immediately, and the dehumidifier stops 1 minute later if air inlet humidity ≤ setting humidity -3% RH.

CARE AND MAINTENANCE

⚠️ **BEFORE CLEANING:**

WARNING: Shock Hazard

Unplug dehumidifier from outlet before doing any cleaning or maintenance.
DO NOT IMMERSE THE DEHUMIDIFIER OR ANY WIRES IN WATER.

CAUTION:

DO NOT use harsh chemicals or abrasive cleaners as they may damage or deform the surface.
Allow dehumidifier to dry completely before use.

CLEANING

1. **Cleaning the Body:**
   - Periodic grille cleaning with a vacuum will prevent dust buildup.
   - The motor is sealed and does not require any interior maintenance, cleaning, or lubrication.
   - Clean the grille surface and body using a clean, damp cloth.

2. **Cleaning the Air Filter:**
   - Pull the louver on the front to access the air filter.
   - Gently pull out the air filter.
   - Use a vacuum cleaner to remove dirt from the surface of the air filter.
   - If the filter is exceptionally dirty, immerse it gently into warm water (about 104°F) with a neutral detergent, then rinse and dry thoroughly.
   - Insert the filter back into the unit.

3. **Dehumidifier Storage:**
   - Ensure dehumidifier is completely clean and dry before storage.
   - Transport and store the unit in an upright position.
   - Machines can be stacked to save space.

TROUBLESHOOTING

ISSUE	POSSIBLE CAUSE	SOLUTION
Machine does not run.	Room temperature under 41°F/5°C or above 95°F/35°C.	To protect the machine, use it only when ambient temperature is between 41°F/5°C & 95°F/35°C.
Machine runs but does not dehumidify.	The humidity set point is 2% higher than ambient humidity.	Reset the humidity to a lower set point.
Reduced dehumidifier capacity.	Filter mesh is jammed.	Clean the air filter according to cleaning instructions on pg. 8.
	Air-in and/or air-out louvers jammed.	Clear the blockage from air-in and/or air-out louvers.
No air inlet.	Filter and/or air-in louver jammed.	Clean the filter according to cleaning instructions on pg. 8 and/or clean air-in louver.
Loud operation.	Machine is situated on an uneven surface.	Move to flat ground.
	Filter jammed.	Clean filter according to cleaning instructions on page 8.
"E1" code displayed.	The copper head sensor has failed.	Check the sensor connection. If code remains, contact retailer to replace the sensor.
"E2" code displayed.	The temperature & humidity sensor has failed.	Check the sensor connection. If code remains, contact retailer to replace the sensor.
"CL" code displayed.	Room temperature < 41°F/5°C.	The machine will stop working until it is in a proper operating temperature.
"CH" code displayed.	Room temperature > 95°F/35°C.	
"LO" code displayed.	Room humidity < 20% RH.	The machine will stop working until it is in a proper relative humidity.
"HI" code displayed.	Room humidity > 95% RH.	