210mm

290mm

Comfort Zone INDUSTRIAL

CZ220 Series

Ceiling Mounted Heater

HARDWIRED INSTALLATION REQUIRED
This heater must be grounded and hardwired to a properly sized current protection circuit breaker in accordance with the (US) National Electric Code and local codes.

Description

- Adjustable Heat Settings
- Fan-Forced for Wide Heat Circulation
- Horizontal and Vertical Air Flow with Tilt Feature
- Sturdy Heavy Gauge Steel Body
- High Limit Thermal Cut-Out Switch

www.comfortzoneproducts.com

Save These Instructions

晚白 尺寸：420X290

READ & SAVE THESE INSTRUCTIONS

INTENDED USE

Electric Utility heaters are designed to meet a variety of heating requirements. This product is intended for indoor use only. Use only as directed in this instruction manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

WARNING: SHOCK HAZARD

Use your heater only in dry environments. This heater is not intended for use in a bathroom, laundry area, or similar locations, or near sinks, locate heater where it may fall into a bathtub or other water container. Do not place heater outdoors. Do not use in damp environments such as flooded basements.

WARNING: HOT SURFACES

Do not touch body of heater when in use. This heater is for when in use, to avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater.

WARNING: FIRE HAZARD

Heater has hot and arcing or sparking parts inside. Do not near combustible materials or flammable gases or sources of heat. DO NOT USE in areas where gasoline, paint or flammable materials are used or stored. Keep combustible materials such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 m) from the front of the heater. Keep combustible materials such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 m) from the front or the sides. Do not place or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire, or damage the heater.

WARNING: ELECTRICAL SHOCK HAZARD

Do not use with damaged wiring. Use with adequate electrical system that is up to code.

Do not operate any heater with a damaged cord or plug or after heater malfunctions, has been dropped or damaged in any manner. Do not operate heater with a broken heating element or ceramic cone or any visible imperfections. For repairs contact Comfort Zone®. Customer Service by telephone or mail for information and assistance.

PET OWNERS NOTE:

The health of birds and some small pets are extremely sensitive to the fumes given off during initial use of many appliances. Although these fumes are not harmful to humans, it is recommended that the heater be used around birds and small pets during its initial use until the manufacturing corrosion coatings burn off.

WARNING- Improper installation or failure to follow the procedures outlined in this instruction manual can result in serious electrical shock.

WARNING: Read and understand installation and operation instructions to observe all safety instructions.

GENERAL SAFETY INFORMATION:

SPECIFICATIONS

1. For supply connections, use only copper wire. **See Figure 6**.
2. Heater air flow must be directed parallel to, or away from adjacent wall.
3. Observe wall, floor, and ceiling clearance requirements. See **Figure 1.**
4. All wiring must conform to national and local electrical codes in the United States and the heater must be grounded as a precaution with proper fuses or circuit breakers.
5. The mounting structure and hardware must be capable of safely supporting the weight of the heater and, if used, the mounting bracket.
6. All electrical power must be disconnected, and the main service box must be locked before inspection, cleaning or servicing the heater.
7. This heater is not suitable for use in hazardous locations as defined by the **National Fire Protection Association** (NFPA) in the United States. This heater has not and cannot (servicing) parts inside. Do not use in areas where gasoline, paint, or flammable liquids are used or stored.
8. This heater is not suitable for use in corrosive atmosphere such as marine, greenhouses or chemical storage areas.
9. Do not install closer than **8 inches** to a vertical surface. Do not install less than **6 feet** from the floor.
10. Extreme caution is necessary when heater is used by or near children or invalids and whenever the heater is left operating and unattended.
11. Use this heater as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

WARNING: It is advised that at the start of each heater season, the power should be turned off at the circuit breaker and the The heater should be cleaned and checked for mechanical and electrical integrity. See **SPECIFICATIONS** and NEC/local codes.

ADJUSTING AIR FLOW:

1. **Swivel the unit**- If mounted on a single center lag bolt **Figure 4a,** turn the entire heater and bracket assembly left or right.
2. **Tilt the unit**- Loosen the top Small Knob-Screws and thread into provided holes in heater until tight. See **Figure 5.**
3. **Adjust the louvers** in front of the heater as desired. See **Figure 5.**

NOTE: DO NO OPERATE THE HEATER WITH THE FRONT LOUVERS CLOSED, DAMAGE TO THE HEATER COULD RESULT.

SAFETY INSTRUCTIONS:

1. The heater is HOT when in use. Do not let bare skin touch any hot surfaces.
2. Keep combustible materials (furniture, pillows, bedding, papers, clothes, curtains, and similar items) at least 3 feet (0.9m) from all sides and surfaces of the heater.
3. Do not use outdoors or in wet areas like bathrooms, laundry areas or where it could fall into a swimming pool or other container of water.
4. This heater is a 240V AC rated direct wired appliance. Never use extension cords or relocatable power taps.

CARE AND MAINTENANCE:

CLEANING THE HEATER:

1. Do not disassemble the heater to clean it.
2. The heater should be powered OFF and disconnected from the power at the circuit breaker before attempting to clean any portion of the heater.
3. The exterior can be cleaned with a cloth, brush and/or vacuum.
4. The louvers, fan blade and heating element are delicate and should not encounter hard items. They can be cleaned by brush, vacuum and mild compressed air.

MAINTENANCE:

This Industrial Heater contains no user serviceable parts.

In the unlikely event that your heater should need service, please contact: Mr.Brands LLC 113 Fillmore St Bristol, PA 19007
1-877-420-7555
www.mrbrands.com
www.comfortzoneproducts.com

LIMITED WARRANTY

This unit is guaranteed to the original retail purchaser against defects in quality or workmanship for a period of one year from the date of original purchase. If this unit fails because of a manufacturing defect within 30 days of purchase, return the unit, with your receipt, to the retailer. After 30 days, but within the warranty period, if the unit was purchased within the continental United States, return it, to Mr. Brands LLC for repair or replacement. If the unit was purchased outside the continental United States, return the unit to the place of purchase. This warranty does not cover damage caused by misuse, abuse, overheating or alteration. Repairs made by anyone other than Mr. Brands LLC are not covered in this warranty. Mr. Brands LLC will not be held liable for any losses due to neglectful operation. All implied warranties, including the warranties of merchantability and of fitness of purpose, if applicable, are hereby limited in duration to the period of one year from the date of original retail purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Incidental or consequential damages arising from a breach of either express or implied warranties are hereby disclaimed and excluded. Some states do not allow the exclusion of limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. Upon the expiration of this warranty all such liability will terminate. No other warranties are expressed or implied. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. No informal dispute settlement mechanisms are available. This limited warranty is given in lieu of all other warranties.

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Manufactured for:
Mr.Brands LLC
113 Fillmore St
Bristol, PA 19007
1-877-420-7555
www.mrbrands.com
www.comfortzoneproducts.com

WARNING:
Cancer and Reproductive Harm –
www.P65Warnings.ca.gov

Rev. 07/20/2023

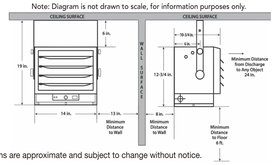
SPECIFICATIONS:

CZ220 SERIES HEAVY DUTY 5,000W ELECTRIC UTILITY HEATER					
WATTS	**SWITCH POSITION**	**VOLTS (VAC)**	**PHASE**	**AMPS**	**BTU/HOUR**
5,000W	III	208-240V, 60Hz	1	20.8	17,060
4,000W	II	208-240V, 60Hz	1	16.7	13,650
3,000W	I	208-240V, 60Hz	1	12.5	10,240
N/A	FAN ONLY	N/A	N/A	N/A	N/A
AIR THROW	HORIZONTAL	18 FT (APPROXIMATE)			
RECOMMENDED	CIRCUIT BREAKER	30 AMP	**or larger**, in accordance with NEC and local codes.		
RECOMMENDED	WIRE SIZE	10 AWG, COPPER ONLY RATED AT 167°F/75°C	**or larger**, hardwired in accordance with NEC and local codes.		
RECOMMENDED LUG TORQUES		**35 IN-LBS**	**or greater**, in accordance with NEC and local codes		
PRODUCT WEIGHT (APPROXIMATE)		**BETWEEN 25 TO 30 LBS**			

FOR CZ220 SERIES

Figure 1

Note: Diagram is not drawn to scale, for information purposes only.



NOTE: Product dimensions are approximate and subject to change without notice.

WARNING

FOR INDOOR USE ONLY, IN A DRY LOCATION FREE OF GASOLINE, PAINT, FLAMMABLE LIQUIDS OR COMBUSTIBLE DUST OR MATERIALS.
DO NOT USE EXTENSION CORDS

MAXIMUM MOUNTING HEIGHT USING BRACKET FOR:

HORIZONTAL/ANGLED AIR FLOW:
The maximum recommended ceiling height for effective vertical air flow is 8 ft.

OPERATION

SERIES MODEL- CZ220
HEAVY DUTY 5,000W
ELECTRIC UTILITY HEATER

Figure 2

POWER INDICATOR LIGHT:

Once installed and the heater is turned ON, the YELLOW Power Indicator Light will glow.

This light stays on as long as power is on at the breaker, even when the heater is off.

SETTING THE THERMOSTAT:

Press the THER Button continuously until the LED screen displays "Ø".

1. From "OFF" rotate the knob clockwise to a higher position.
2. Pick the desired power level (I, II or III) at the Control Switch.
3. Once the room reaches the desired comfort level, rotate the thermostat knob counter-clockwise until it clicks off.

CAUTION LIGHT:

The heater has a **Thermal Cutout Switch**. If there is an overheat situation this switch will shut off the heater.

Once this happens the RED Caution Light will glow, indicating an overheat condition.

Turn off the heater. Turn off power at the circuit breaker and let the heater cool/down.

Determine the cause of the overheat situation and correct. Once cool, restore power to the heater at the breaker and resume operation of the heater.

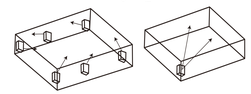
NOTE: Heater will cycle on and off to maintain room temperature. The first time you operate the unit, it may smoke slightly. This is due to residual cleaning agents or oil on the element when the heater is manufactured. This is normal and does not indicate a problem with the unit. This condition will stop after the heater has been in operation for a few minutes.

INSTALLING THE HEATER:

LOCATING THE HEATER:

Install the heater out of traffic areas, maintaining be clearances stated in **Figure 1** above. The air flow from the heater must not be restricted or obstructed by any items in the room. When more than one heater is used in an area, the heaters should be arranged so that the air discharge of each heater supports the air flow of the others to provide best circulation of warm air, as indicated below in **Figure 3.**

Figure 3

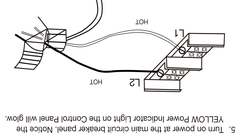


MOUNTING BRACKET INSTALLATION

Refer to **Figures 4a and 4b.**

1. Locate a ceiling joist or other structural element or support to mount the bracket in the desired direction.
2. Drill a ¼" pilot hole in the ceiling joist for the screws.
3. Place the screws and washers as shown in the **Figures 4a or 4b.**
4. Be sure to torque all terminal screws and power block lugs with proper fuses or circuit breakers.

Figure 7



CONNECTING THE POWER:

1. With the power off at the breaker, remove all screws from the bottom of the access to the electrical selection on the heater.
2. Attach flexible cable through a knock-out in the side of the heater (ofmoing NEC and local codes. See **Figure 6** and **SPECIFICATIONS** for recommended wiring and circuit breakers.

NOTE: For certain applications, conduit may be required (See **Figure 6**). Check local electrical codes. If you run the wiring in conduit and wish to be able to turn the heater on and turned.

Figure 4a: Single-Screw Mounting, To Allow Swivel

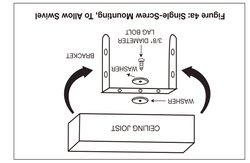
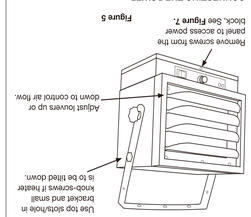


Figure 4b: Double-Screw Mounting, For Fixed Position

HANGING THE HEATER IN THE BRACKET

1. Lift the heater into the mounting bracket and align the lower bracket holes with the threaded holes nearest the heater's center.
2. Thread a large knob-screw through the hole on each side of the bracket.
3. Aim the heater horizontally or tilted by aligning the upper bracket holes with the threaded holes on the heater and secure with the small knob-screws and tighten all. See **Figure 5.**
4. Tighten the screws to secure the heater.



If heater is to be turned off/on

CONDUIT CONNECTOR

3/8" max.

FLEXIBLE CONDUIT

FLEXIBLE CONDUIT CONNECTOR

If heater is to be connected with MM Cable.

FLEXIBLE NM CABLE

CONNECTOR (see per electrical codes)

If heater is to be connected with Conduit.

FLEXIBLE CONDUIT CONNECTOR (see per electrical codes)

Figure 6

1. Pull enough wire into the heater and connect to wire to the Power Block located in the electrical area of the heater See **Figure 7.**
2. The mounting structure and hardware must be capable of safely supporting the weight of the heater and, if used, the mounting bracket.
3. Observe wall, floor, and ceiling clearance requirements, See **Figure 1.**
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