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INSTRUCTIONS “UCI” Series



WARNING



When using electrical appliances, basic precautions should always be taken to reduce the risk of fire, electrical shock and injury, including the following.

Read carefully these instructions before installation, operation of the heater. Failure to adhere to the instructions could result in fire, electric shock, serious personal injury, and death or property damage. Review frequently for continuing safe operation and instruction of future users, if necessary.

IMPORTANT INSTRUCTIONS

- 1- Read all instructions before installing or using this heater.
- 2- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, like furniture, pillows, bedding, papers, clothes, and curtains at least 36 in. (915 mm) from the front of the heater.
- 3- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- 4- Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- 5- Do not use outdoors.
- 6- To disconnect heater, rotate thermostat knob full counter-clockwise and turn off power to heater circuit at main disconnect panel (or operate internal disconnect switch if provided).
- 7- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- 8- To prevent a possible fire, do not block air intakes or exhaust in any way whatsoever.
- 9- This heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- 10- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- 11- The thermostat should not be considered an infallible device in cases where maintaining a temperature is considered critical. Examples: Hazardous material storage, computer server room, etc. In these particular cases, it is imperative to add a monitoring system to avoid the consequences of a thermostat failure.

SAVE THESE INSTRUCTIONS

OPERATING INSTRUCTIONS

- 1- The heater must be properly installed before it is used.
- 2- Turn the power on at the circuit breaker panel.
- 3- Electronic thermostat:
 - Be sure to set it on the fan mode.
- 4- Built-in thermostat with control knob.
 - To set thermostat at the desired temperature, follow these steps:
 - Set thermostat at maximum temperature (turn clockwise).
 - When the desired temperature is reached, turn the thermostat counter-clockwise slowly until you hear a click.
 - The thermostat will keep this room temperature.

START UP

On a call for heat from either the remote thermostat or the unit mounted thermostat the elements and fan will be energized.

When the thermostat is satisfied the elements will be deenergized.

The fan will continue to run until the residual heat is removed from the heater. Then the fan will stop.

OVERTEMPERATURE PROTECTION

- The motor and the electric heating elements are protected against overtemperature by automatic reset thermal high-limits.
- Cycling of either high-limit is an indication of abnormal operation and should be corrected at once.

LUBRIFICATION OF MOTOR

The motor includes sealed lubrication-free bearings.

MAINTENANCE INSTRUCTIONS

- 1- Once a year, remove the dust accumulation inside the heater using a vacuum cleaner or compressed air. Cleaning should be done while the heater is disconnected from the supply circuit.
- 2- Cleaning should be done while the heater is disconnected from the main service panel. Wait until the housing and heating element cool before performing maintenance.
- 3- Replace the front panel before energizing.
- 4- Any other servicing should be performed by a qualified technician.
- 5- The motor includes sealed lubrication-free bearings.

INSTALLATION INSTRUCTIONS

CAUTION

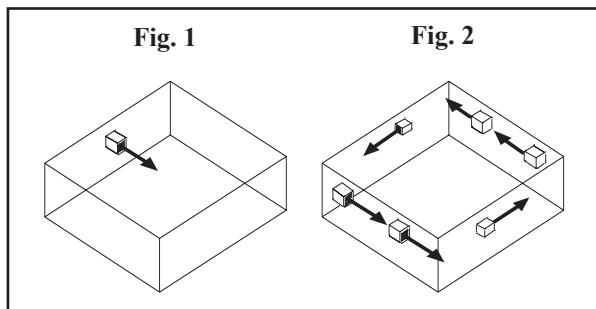
- High temperature, risk of fire, keep electrical cords, drapery, furnishings, and other combustibles at least 36 in. (915 mm) from the front of the heater. To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.
- For Canada:
Install at least 24 in. (610 mm) from floor except 40 to 60 kW at least 8 ft. (2.4 m) from floor.
- For United States:
Install at least 6 ft. (1.8 m) from floor except 40 to 60 kW at least 8 ft. (2.4 m) from floor.
- Do not obstruct front of heater for at least 6 ft. (1.8 m).
- Not for residential use in the United States.
- Disconnect all power supplies before working on any circuit.
- Put all covers back on heater before testing.

LOCATION OF HEATERS AND REMOTE THERMOSTATS

- 1- For best results, do not exceed mounting heights as per table below:

| Maximum recommended mounting height | |
|-------------------------------------|----------------|
| 2 to 10 kW | 8 ft. (2.4 m) |
| 15 to 30 kW | 10 ft. (3.0 m) |
| 40 to 60 kW | 15 ft. (4.5 m) |

- 2- Direct discharge air streams:
 - Away from room occupants.
 - Away from columns, posts, machinery and partitions.
 - Parallel to outside walls.
 - Along the windward side of buildings exposed to prevailing winds.
- 3- Locate thermostats on interior partitions, walls or posts (insulate from cold steel posts). Install thermostats away from cold drafts, internal heat sources and from heater discharge.
- 4- Small rooms require only one unit heater. In large rooms, arrange multiple units to provide perimeter circulation as illustrated in fig. 1 and 2.



POWER SUPPLY CONNECTIONS

The power supply may be single or three phase as shown on the nameplate. The wiring diagram is on the inside of the terminal compartment cover. Wire heater in accordance with local and national codes.

TEST

- To test the unit heater, temporarily set thermostat to maximum temperature.
- Make sure that the fan rotates in the correct direction; airflow should be in the direction of the arrow such as indicated on the fig. 4.

MINIMUM CLEARANCE FROM WALL AND CEILING

| | |
|-------------|-----------------|
| 2 to 10 kW | 4 in. (102 mm) |
| 15 to 30 kW | 6 in. (152 mm) |
| 40 to 60 kW | 12 in. (305 mm) |

OVERTEMPERATURE PROTECTION

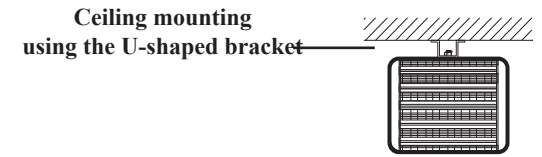
The motor and the electric heating elements are protected against overtemperature by automatic reset thermal high-limits. Cycling of either high-limit is an indication of abnormal operation and should be corrected at once.

LUBRIFICATION OF MOTOR

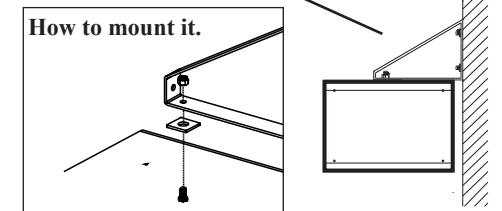
The motor includes sealed lubrication-free bearings.

Fig. 3 - MOUNTING 2-30kW

Horizontal wall or ceiling mounting using 1 of 2 supplied brackets which allow 360° rotation.



Wall mounting using the triangular bracket.



Vertical mounting using 4 threaded rods 1/2 in. - 13 UNC not included

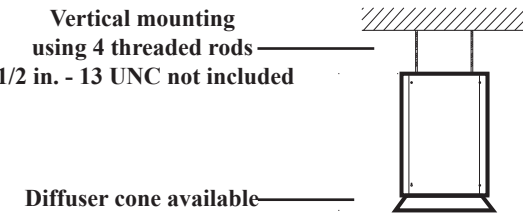
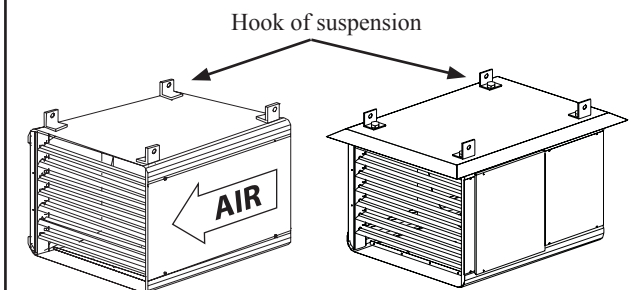


Fig. 4 - MOUNTING 40-60kW

4 hooks of suspension supplied for 1/2 in. - 13 UNC threaded rods not included



Standard Model

Model with Mine Duty Option