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INSTRUCTIONS Hard Wire Unit Heater HVG-RF 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

- Read all instructions before installing or using this heater.
- 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 5 ft. (1.52 m) from the front of the heater and away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- To disconnect heater, rotate thermostat knob full counter-clockwise and turn off power to heater circuit at main disconnect panel.
- Do not use outdoors.
- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electrical shock or fire, or damage the heater.
- To prevent a possible fire, do not block air intakes or exhaust in any way whatsoever.
- A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electrical shock, or injury.
- Do not operate heater without fixing it to its support.
- The thermostat should not be considered an infallible device in cases where maintaining a temperature is considered critical. In these particular cases, it is imperative to add a monitoring system to avoid the consequences of a thermostat failure.
- This heater is not approved for use in corrosive atmospheres, wet or very humid locations such as marine, green house or chemical storage areas.

SAVE THESE INSTRUCTIONS

OPERATING INSTRUCTIONS

The heater must be properly installed before it is used.

HEATER OPERATION

1. Use heat “HIGH/LOW” switch to select heat desired.
2. Rotate thermostat knob full clockwise.

This heater is designed with a fan delay that allows the elements to heat-up before the fan turns on. When the thermostat is satisfied the elements will be deenergized and the fan will continue to run until the residual heat is removed from the heater. Then the fan will stop.

3. Use fan “AUTO/ON” switch to select fan operation.
“AUTO” – Fan controlled by thermostat.
“ON” – Continuous fan operation.

TO TURN HEATER OFF

Rotate thermostat knob full counter-clockwise.

FAN ONLY OPERATION (No heat)

1. Rotate thermostat knob full counter-clockwise.
2. Place fan “AUTO/ON” switch in “ON” position.
Fan runs continuously and heat remains off.

IMPORTANT

This heater have an **automatic reset thermal high limit** that will deenergize the heating elements, and turn the red alarm light on, if the interior temperature of the heater exceeds its setting.

The limit will automatically reset, and turn off the red alarm light, when the heater interior temperatures fall below its setting.

MAINTENANCE INSTRUCTIONS

The heater motor is permanently lubricated.

Occasional cleaning of the inlet grille will prevent clogging. Use a vacuum with a brush attachment.

Cleaning should be done while the heater is disconnected from the main service panel. Wait until the housing and heating elements cool before performing maintenance.

Any other servicing should be performed by a qualified technician.

WARRANTY

Please refer to the specification sheet at www.globalcommander.ca.

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INSTALLATION INSTRUCTIONS

- All wiring must be in accordance with National and Local Electrical Codes.
- Heater must be grounded as a precaution against possible shock.
- To avoid possible electrical shock, disconnect all power at the main panel prior to wiring.
- Verify the power supply voltage coming to the heater matches the heater nameplate rating (on back of heater) before energizing heater.
- When installed, heater must be electrically grounded in accordance with the National Electrical Code.

CAUTION

- Use only with copper branch circuit conductors.
- Use supply wires suitable for 90 °C (194 °F)
- Minimum mounting height: 6 ft. (1.83 m) in USA and 8 ft. (2.43 m) in Canada.
- High temperature, risk of fire, keep electrical cords, drapery, furnishings, and other combustibles at least 5 ft. (1.52 m) from the front of the heater and away from the sides and rear.
- To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.
- To prevent possible overheating - or damage due to overheating - keep at least 5 ft. (1.52 m) clearance in front of heater.
- See **Figures 1 and 2** for side, ceiling and back minimum mounting clearances.
- Wall/Ceiling structures and anchoring must be sufficient strength to support the combined weight of the heater and mounting bracket 42 lb (19 kg).
- We recommend installing this product on an outside ceiling or wall to avoid vibrations spreading to an adjacent room.

LOCATE HEATER PROPERLY

Heater may be mounted for either horizontal or vertical heated air discharge.

Maximum mounting height:
Vertical airflow: 15 ft. (4.57 m)
Horizontal airflow: 8 ft. (2.44 m)

HEATER INSTALLATION

NOTE:

Horizontal airflow:

Mount heater with thermostat below discharge air grille.

Vertical airflow:

Mount heater with access door away from wall.

WALL MOUNTING

Wall must be able to support the weight of the heater and mounting bracket 42 lb (19 kg).

Take heater out of the mounting support.

Attach the support to the wall structural members with four (4) 1/4 in. diameter and 1 1/2 in. long lag bolts (Not provided). **DO NOT USE KEYHOLE SLOTS – USE CIRCULAR HOLES ONLY.**

Mount heater back into support.

CEILING MOUNTING

Ceiling must be able to support the weight of the heater and mounting bracket 42 lb (19kg).

Take heater out of the mounting support.

Attach the support to the ceiling structural members with four (4) 1/4 in. diameter and 1 1/2 in. long lag bolts (Not provided). **DO NOT USE KEYHOLE SLOTS – USE CIRCULAR HOLES ONLY.**

Mount heater back into support.

WIRING

All wiring must be in accordance with National and Local Electrical Codes.

The heater must be grounded as a precaution against possible shock.

Insure power source is deenergized before wiring heater.

Check nameplate on back of heater.

Connect heater only to voltage and phase specified on nameplate.

For supply power wiring a multiple 1/2 in. – 3/4 in. knock-out is provided.

Field wiring must be properly sized to carry the amperage of the heater.

The heater has a wiring diagram affixed to the inside of the control compartment access door. Check this diagram before making any electrical connections.

Branch circuit wiring must be minimum 90 °C (194 °F).

Wiring compartment volume: 85 in.³ (1393 cm³) minimum.

Figure 1
Minimum Clearance

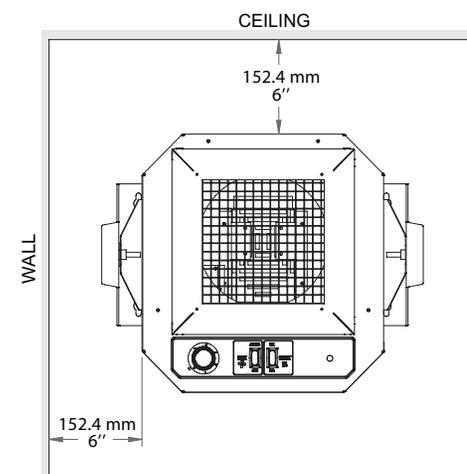


Figure 2
Minimum Clearance

