

## OPERATION AND MAINTENANCE INSTRUCTIONS FOR TYPE OKP - PORTABLE RADIANT HEATERS



WARNING

**FIRE/EXPLOSION HAZARD WARNING** - During operation, take precautions to ensure that combustible materials are always kept at a safe distance from the radiant energy. This heater is not intended for use in hazardous areas where flammable vapours, gases or liquids or other combustibles are present. Remember that objects placed under an infrared heater can take a while to reach stabilized temperatures. If you are unsure of the suitability of the heater for the intended application, check with the factory for recommendations.



WARNING

Insulation contamination or moisture accumulation can cause fault to the element sheath generating arcing and releasing molten metal. Install proper ground fault protection to prevent personal injury and/or property damage.

4.0 A slide-out terminal block facilitates electrical connections.

5.0 Take sufficient precautions to protect the power cord (supplied by others) from damage by moving vehicles or other equipment.

### INITIAL INSPECTION

1.0 Upon receipt from the carrier, inspect the heater and immediately report any damage to the shipping company or carrier.

2.0 Verify that the voltage and wattage as shown on the heater nameplate are as ordered and match the electrical supply available.

### ELECTRICAL CONNECTIONS



CAUTION

Heaters must be wired by qualified personnel in compliance with local codes.

3.0 The heater can be field wired for single or three phase operation. Refer to Fig. 1 and Fig. 2.

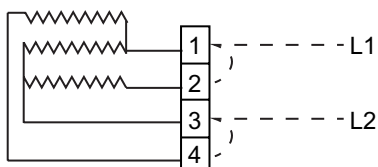


Fig.1 - One Phase Wiring

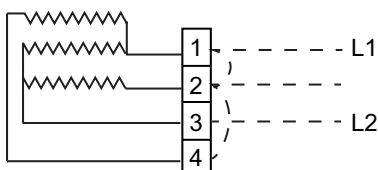


Fig.2 - Three Phase Wiring

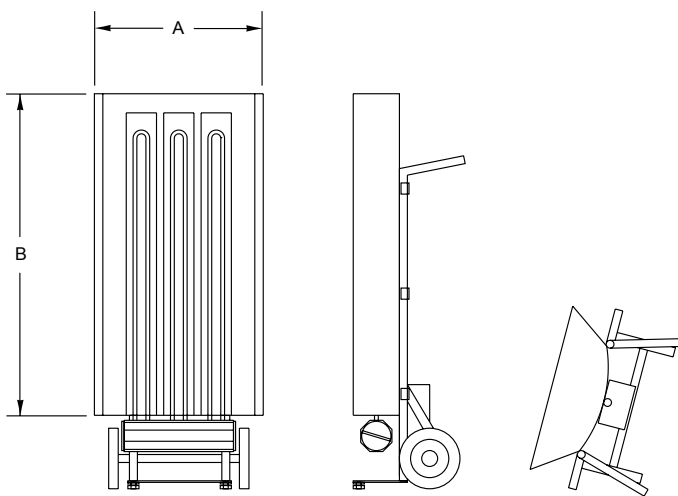
### OPERATION



WARNING

Prior to operation, an insulation resistance check must be performed. Heater with values less than 1MΩ should follow a drying process. Please contact factory for details on procedure if heater is under 1 MΩ.

6.0 The OKP portable radiant heater is approved for operation in non-hazardous areas only. Ensure that no hazardous conditions exist prior to energizing the heater (hazardous conditions include the presence of combustible dust, vapours, liquids, solids, etc.).



**7.0** Never leave the heater unattended since, over time, the radiant energy may cause a build-up in surface temperature sufficient to damage the work or create a hazard.

**8.0** The heater is designed to provide spot heating in areas not normally heated. Typical uses including people heating, thawing, paint drying (be sure to remove vapours), etc.

**9.0** The heater may be used in the vertical (stand-up) position or the horizontal position.



CAUTION

***During and just after operation, the main housing and screen may reach elevated temperatures sufficient to burn hands or clothing. Do not touch these areas before ensure that they have cooled.***

***Avoid standing too close to the heater, especially with your back turned, where loose articles of clothing may contact the screen.***

**10.0** Use of the heater for ground thawing will reduce service life. If this use is intended it is important that a space be maintained between the sides of the metal housing and ground sufficient to prevent excessive heat build-up.

## **MAINTENANCE**



WARNING

***Disconnect all power before installing or servicing the heater. Failure to do so could result in personal injury and/or property damage. All maintenance and installation should be done by qualified personnel in compliance with local codes.***

**11.0** Periodically wipe each of the three reflectors with a water dampened cloth. Use a window cleaner solvent to remove stubborn dirt.

**12.0** The heating elements are field replaceable. Service life will be a function of usage time and cycle frequency.

**13.0** To order replacement elements from your supplier, provide the catalog number, voltage and wattage of the unit and the number of elements required. Allow one to two weeks for delivery.



WARNING

***After performing maintenance, and prior to energization, an insulation resistance check must be performed. Heater with values less than 1 MΩ should follow a drying process. Please contact factory for details on procedure if heater is under 1 MΩ.***



Engineered Electric Heat

**2721 Plymouth Drive, Oakville, Ontario, Canada L6H R5R**

**Phone: (905) 829-4422 Fax: (905) 829-4430**

**PLEASE ADHERE TO INSTRUCTIONS PUBLISHED IN THIS MANUAL.**  
Failure to do so may be dangerous and may void certain provisions of your warranty.  
For further assistance, please call:

**Oakville: 1-800-410-3131**

(U.S.A. and Canada)

Please have model and serial numbers available before calling.

**WARRANTY:** Under normal use the Company warrants to the purchaser that defects in material or workmanship will be repaired or replaced without charge for a period of 18 months from date of shipment, or 12 months from the start date of operation, whichever expires first. Any claim for warranty must be reported to the sales office where the product was purchased for authorized repair or replacement within the terms of this warranty.

Subject to State or Provincial law to the contrary, the Company will not be responsible for any expense for installation, removal from service, transportation, or damages of any type whatsoever, including damages arising from lack of use, business interruptions, or incidental or consequential damages.

The Company cannot anticipate or control the conditions of product usage and therefore accepts no responsibility for the safe application and suitability of its products when used alone or in combination with other products. Tests for the safe application and suitability of the products are the sole responsibility of the user.

This warranty will be void if, in the judgment of the Company, the damage, failure or defect is the result of:

- vibration, radiation, erosion, corrosion, process contamination, abnormal process conditions, temperature and pressures, unusual surges or pulsation, fouling, ordinary wear and tear, lack of maintenance, incorrectly applied utilities such as voltage, air, gas, water, and others or any combination of the aforementioned causes not specifically allowed for in the design conditions or
- any act or omission by the Purchaser, its agents, servants or independent contractors which for greater certainty, but not so as to limit the generality of the foregoing, includes physical, chemical or mechanical abuse, accident, improper installation of the product, improper storage and handling of the product, improper application or the misalignment of parts.

No warranty applies to paint finishes except for manufacturing defects apparent within 30 days from the date of installation.

The Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the product(s).

The Purchaser agrees that all warranty work required after the initial commissioning of the product will be provided only if the Company has been paid by the Purchaser in full accordance with the terms and conditions of the contract.

The Purchaser agrees that the Company makes no warranty or guarantee, express, implied or statutory, **(INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE)** written or oral, of the Article or incidental labour, except as is expressed or contained in the agreement herein.

**LIABILITY:** Technical data contained in the catalog or on the website is subject to change without notice. The Company reserves the right to make dimensional and other design changes as required. The Purchaser acknowledges the Company shall not be obligated to modify those articles manufactured before the formulation of the changes in design or improvements of the products by the Company.

The Company shall not be liable to compensate or indemnify the Purchaser, end user or any other party against any actions, claims, liabilities, injury, loss, loss of use, loss of business, damages, indirect or consequential damages, demands, penalties, fines, expenses (including legal expenses), costs, obligations and causes of action of any kind arising wholly or partly from negligence or omission of the user or the misuse, incorrect application, unsafe application, incorrect storage and handling, incorrect installation, lack of maintenance, improper maintenance or improper operation of products furnished by the Company.

Edmonton	Oakville	Orillia	Greensburg	Houston	Denver
<b>Head Office</b>	1-800-410-3131	1-877-325-3473	1-800-473-2402	1-855-219-2101	1-855-244-3128
1-800-661-8529	(905) 829-4422	(705) 325-3473	(812) 663-4141	(281) 506-2310	(303) 979-7339
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