## TRH4 DUAL VOLTAGE OR 3 HEAT WIRING INSTRUCTIONS

SFRIFS 4 UNITS — SINGLE END WIRED

DUAL RETURN WIRES RATED FOR 450°C, 600V ARE SUPPLIED IN INTERNAL WIREWAYS FOR LINE INPUT AT GROUND LUG END-SEE NOTE 3 12" WIREWAY NEMA 1 ENCLOSURES CONDUCTORS (NO FIELD CONNECTIONS EXTENDING FROM UNIT AT THIS END) R1 R2 ASSEMBLY USING THE NI-STEEL RING CRIMP CONNECTORS PROVIDED. L1A L1B

ATTACH PROPERLY RATED LINE INPUT WIRES TO THIS END OF THE DUAL ELEMENT SOLID OR STRANDED CONDUCTORS CAN BE USED. USE ONLY INSULATED NICKEL PLATED, NICKEL CLAD, OR NICKEL CONDUCTOR.

(NOTE; ELEMENT VOLTAGE = LINE VOLTAGE FOR PARALLEL CIRCUIT OPERATION)

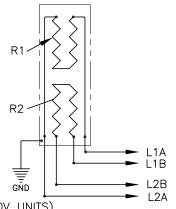
TABLE 1

3 HEAT CONNECTIONS (SINGLE INPUT VOLTAGE)

| HEAT RANGE  | LINE INPUT WIRING                      |
|-------------|----------------------------------------|
| MAX HEAT    | TO L1A/L2A TOGETHER & L1B/L2B TOGETHER |
| MEDIUM HEAT | TO EITHER L1A & L1B OR L2A & L2B       |
| LOW HEAT    | TO L1A & L1B, L2A/L2B SPLICED TOGETHER |

## "WARNING:"

DO NOT USE COPPER WIRE TO MAKE CONNECTIONS INSIDE THIS HEATER. HIGH TEMPERATURES WILL OXIDIZE COPPER. USE OF NICKEL PLATED OR NICKEL CLAD INSULATED COPPER WIRE IS RECOMMENDED. WIRE INSULATION RATING MUST BE SUITABLE FOR THE AMBIENT TEMPERATURE OF THE WIRING INSTALLATION. AMPACITY & VOLTAGE RATINGS SHOULD BE IN ACCORDANCE WITH NEC/NFPA (NATIONAL ELECTRICAL CODE) & ALL OTHER LOCAL REGULATIONS.



DUAL VOLTAGE CONNECTIONS (FOR 240/480V OR 120/240V UNITS)

TABLE 2

GND

1ø LINE VOLTAGE INPUT W/GROUND

CONNECT PER TABLE 1 OR TABLE 2

L2B L2A

| INPUT VOLTAGE     | LINE INPUT WIRING                                          |
|-------------------|------------------------------------------------------------|
| HIGH (480 OR 240) | TO L1A & L1B, L2A/L2B SPLICED TOGETHER (R1&R2 IN SERIES)   |
| LOW (240 OR 120)  | TO L1A/L2A TOGETHER & L1B/L2B TOGETHER (R1&R2 IN PARALLEL) |

## WIRING NOTES:

- 1. ELECTRICAL CONNECTIONS TO THE HEATER ARE MADE THROUGH THE 1/2 NPT TAPPED HOLES IN THE TOP OF THE HOUSING OR THROUGH THE K.O. AT END. WIRING SHOULD BE RUN IN RIGID OR FLEXIBLE METAL CONDUIT AND INSTALLED IN ACCORDANCE WITH NEC AND ALL LOCAL CODES THAT MAY BE APPLICABLE. ACCESS TERMINALS BY REMOVING THE ENCLOSURE COVER SCREWS. 12GA FOR UNITS OVER 20A & 14GA FOR 20A OR LOWER.
- LEADWIRE RATED AT 250°C OR HIGHER IS RECOMMENDED INSIDE THE HEATER JUNCTION BOX. USE OF 200°C WIRE IS PERMITTED ONLY IF UNIT IS USED AT AMBIENT CONDITIONS BELOW 104°F. HIGH TEMPERATURE WIRE IS AVAILABLE FROM TEMPCO.
- "CAUTION:" USE 200°C OR HIGHER RATED WIRING MATERIAL TO CONNECT TO THESE CROSSOVER WIRES INSIDE TRH HOUSING OR CONNECT TO FIELD WIRING USING EXTERNAL JUNCTION BOX.
- 4. EXTERNAL SWITCHING REQUIRED FOR 3 HEAT OPERATION. REMOVE CROSSOVER WIRES (L1A & L2A) IF UNIT IS TO BE DOUBLE END WIRED FOR SINGLE VOLTAGE USE.

WARNING;" HAZARD OF ELECTRIC SHOCK. INSTALLATION MUST BE GROUNDED TO EARTH TO AVOID SHOCK HAZARD. DISCONNECT POWER TO INSTALLATION BEFORE SERVICING OR INSTALLING HEATER

TRH/KRH UNIVERSAL 2000 RADIANT HEATER DUAL VOLTS OR 3 HEAT WIRING INSTRUCTIONS NEMA 1 HOUSING - SERIES 4

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