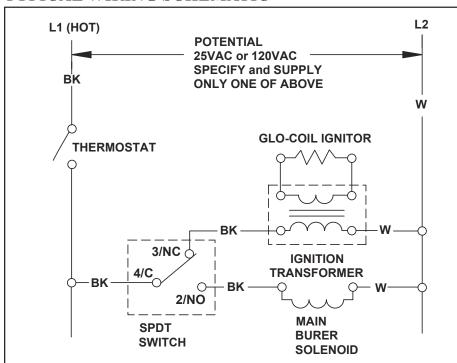
BRANT RADIANT HEATERS LTD.

Wiring Diagram for Suffix NE-2 25V and 120V

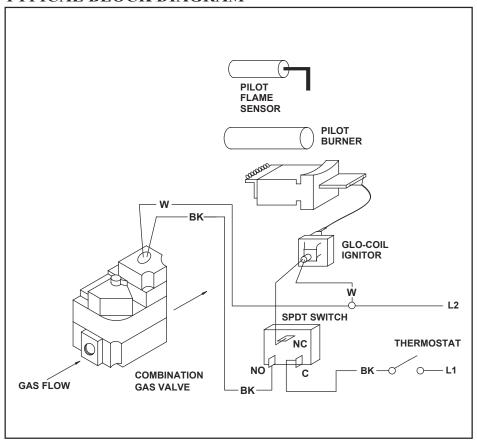
(Pilot Sensing Element - SPDT Mercury Element)

TYPICAL WIRING SCHEMATIC



- 1. This wiring diagram must be affixed on or adjacent to the heater at all times.
- 2. If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 16 AWG-TEW 105°C, 600V wire or its equivilant.
- 3. Applies to natural gas system only.

TYPICAL BLOCK DIAGRAM



BRANT RADIANT HEATERS LTD.

Wiring Diagram for Suffix NE-2 25V and 120V

(Pilot Sensing Element - SPDT Mercury Element)

Normal Sequence of Operation

Closing of the electrical circuit, upon demand for heat, the following occurs:

- 1. The system's ignition transformer is energized resulting in the heating of the glo-coil filament.
- 2. The pilot burner gas is ignited and a subsequent heating of the pilot sensing element, a mercury single-pole, double-throw pilot switch, occures.
- 3. Upon adequate heating, the pilot sensing element switches from its normally closed position causing the glo-coil ignition transformer to be de-energized to its normally open position.
- 4. The heater's main burner solenoid valve is enlarged and opens, resulting in the operation of the heater.