

OPTIFLAME BUILT-IN ELECTRIC FIREPLACE – BF33 / BF39 / BF45

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The electric fireplaces shall be **OptiFlame as manufactured by Dimplex North America Ltd. Of Cambridge Ontario, Canada.** The units shall be CUL and UL approved for use in the United States and Canada, and will be permanently mounted in a cabinet or wall enclosure whose design is based on information based on sizing and clearances shown in the manufacture's literature. The BF series fireplaces have been tested in accordance with the UL 2021 and CSA C22.2 No. 46 standards for fixed and location-dedicated electric room heaters.

The electric firebox itself should consist of a simulated flame effect with self contained heating elements and blower. The unit facing shall also be suitable for field adaptation and enhancement of the architect's choice. The unit will be of zero clearance design allowing combustibles to be installed to the edge of the unit face if desired.

The electric flame effect shall be produced using Dimplex's patented 3-D technology with no combustion; the unit shall provide independent operation of the flame effect with or without the output produced by the electric heating elements. The hand finished fireplace logs shall be individually painted in the factory in order to provide the unique look of a real log fire.

The unit shall be supplied factory pre-wired for operation on 240-220-208 volts AC, 60 Hertz, or the unit can be field converted prior to installation to 120-110 volt operation if required, by means of a switch located on the top of the unit. All light bulbs providing the flame effect shall operate on 120-110 volts in order to incorporate replacement bulbs that are readily available through standard supply outlets. On a 240-220-208 volt operation a 4 wire electrical supply (two line wires plus neutral and ground) is required. The unit will require a line, neutral, and ground wire if 120-110 volt operation only is required. A dedicated, properly fused circuit with a 20amp rating for the appropriate voltage is required. A large rear entry junction box is provided c/w cable clamp allowing wiring with non-metallic sheathed cable as well as BX armored cable. Knockouts for conduit entry shall be provided through the bottom of the terminal box. Wire shall be rated for 60 C.

A remote wall thermostat may be incorporated into the unit operation in order to monitor heat output and may be included with the unit depending on model number

All units shall be provided with built in on/off power disconnect switch and additional heat activation switch. LED indicator lights shall be incorporated into the unit in order to provide a visual cue as to operating mode.

The fireplace shall be constructed of heavy 20 gauge steel, surfaces shall be detergent washed and coated with a phosphate solution prior to the electrostatic powder paint coating. The unit shall be finished in flat black.

Heating elements shall be constructed of a nichrome wire encased in an extruded aluminum fin assembly designed for optimum performance by use of the unique cross flow element design.

A low RPM blower motor and centrifugal squirrel cage blower shall be incorporated for quiet efficient air flow across the heating elements.