

OPTIFLAME – BUILT-IN

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The electric fireplaces shall be 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 enclosure whose design is based on information based on sizing and clearances shown in the manufacture's literature.

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 or 208 volts AC, 60 Hertz , the unit can be field converted prior to installation to 120 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 volts in order to incorporate replacement bulbs that are readily available through standard supply outlets. On 208/240 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 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 armoured 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. Except for model BF30E and BF36E, a radio frequency remote control shall be included with 3 settings: flame only, flame with 50% heat output and flame with 100% output. LED indicator lights shall be incorporated into the unit in order to provide a visual cue as to operating mode, lights shall not be visible from flame viewing area.

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 aluminium 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.