

# CD80/8 Dimmer Banks

## Reliable, proven technology, enhanced facilities

- ◀ High performance chokes for increased filtering
- ◀ Optional split rack control
- ◀ Optional "status quo" memory
- ◀ Available with 2.4kw and single 6.0kw modules
- ◀ No loss in density — 48 modules per rack
- ◀ Compact size — only 17 $\frac{3}{4}$ " (0.45m) deep x 24 $\frac{1}{2}$ " wide
- ◀ Easy to install; simple to maintain
- ◀ Quiet fans to maintain operating temperatures

## Specifications:

The dimmer bank shall consist of a free-standing, factory assembly of dimmer rack(s) constructed of  $\frac{1}{16}$ " (5mm) steel angle top and bottom frames, 14-gauge roll-formed posts and a  $\frac{1}{8}$ " (3mm) aluminum backpanel. Removable cover panels shall be provided for each end of the dimmer bank. Each dimmer rack shall include removable dimmer trays, fan module, top and bottom vent grills and a hinged latching front door. Rack components shall be designed for easy removal and installation so that the dimmer bank is completely open and empty during contractor's wiring.

Each dimmer rack shall have provisions for up to 48 plug-in dimmer modules each containing either two 2.4kw dimmers or one 6kw dimmer. For 220-volt applications, dimmer module capacities are dual 2.2kw, dual 5.5kw and single 6.6kw. Guides shall be provided on the dimmer trays for ease of insertion and withdrawal of the dimmer modules. A tapered housing shall be provided on the rack and dimmer module connectors to assure positive alignment of the module and to protect the connector pins from insertion damage. All power and signal connection shall be factory wired and neatly dressed.

Adequate space shall be provided for contractor wiring alongside factory installed wiring. A tubular screw termination point shall be provided for each contractor load and neutral wire. Terminals shall also be provided for two twisted pair multiplexed signal wires, two overtemp wires and auxiliary wires as required. All terminals shall be clearly marked and all connectors and wiring shall be accessible from the front of the rack.

Plug-printed circuit cards containing demultiplexing circuitry, firing circuitry and power supply shall be housed near the base of the rack in an easily removable module. There shall be no commonality of circuitry between cards and each card shall contain separate and independent dimmer drive circuits.

An optional "status quo memory" facility may be added to the system to maintain stage levels in the event the control signal is lost or interrupted. The system shall also have an optional a split control feature to enable more

than one console to access individual sections of the rack.

Two 10" low-noise fans shall be mounted in the base of the rack to maintain the temperature of all components at proper operating levels with all dimmers under full load, provided ambient room temperature does not exceed 40°C. An automatic fan shut-off which is activated when the control console is turned off shall be provided to extend fan life. Each rack shall have provisions for an optional automatic thermal shut-off of all dimmers in the rack should the safe operating temperature of the rack be exceeded. Indicator pilot lights shall be provided for each phase.

The size of the dimmer bank shall not exceed 80" (2.03m) high x 17 $\frac{3}{4}$ " (0.45m) deep x 24" (0.62m) times the number of racks wide. The entire dimmer bank assembly shall be U.L. approved and appropriately labelled. Finish shall be black semi-gloss baked enamel.



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### Dimensions:

1. Load neutral buss
2. Control terminals
3. Over temp, pilot light
4. Removable air outlet vent
5. Removable side panels
6. 96 dimmer load terminals
7. Two 10" fans
8. Removable air inlet vent
9. Removable/lockable hinged door (typical per rack)

\* Contractor's entrance — bottom and sides for power feed only, top for loads and controls (typical each rack).

