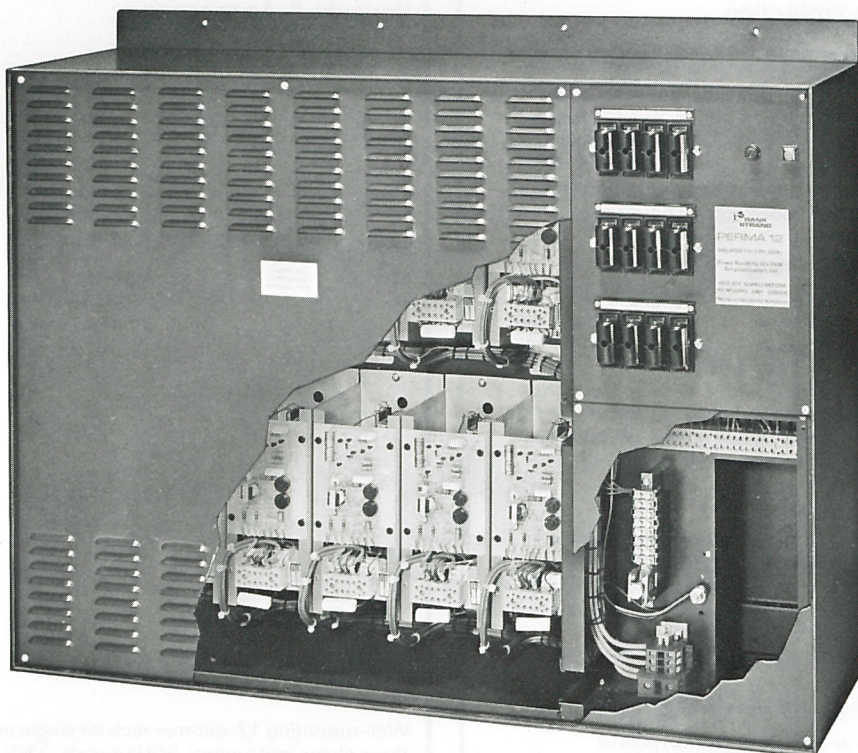




**RANK
STRAND**

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A Division of Rank Audio Visual Limited



**220/240v
50Hz**

Perma 12 Thyristor Dimmer Racks

These wall-mounting racks are an extension to the Mini-2+ range of packaged controls and provide a hard-wired, permanently installed alternative to portable 6-dimmer packs but are fully compatible. Perma 12 racks are so compact that two can be mounted one above the other with all external wiring entering either at the top or the bottom of the pair.

Each Perma 12 rack is a complete distribution system for a single, or a three phase and neutral supply including 440v rated close-excess current protection for the 12 dimmer modules each of which is rated for 2000W maximum of 220/240v tungsten lamp load. Each dimmer module is totally self-contained and complete with its own temperature-stable trigger card, pair of tungsten surge rated Thyristors and substantial inductive filter in addition to RFI suppression.

Unlike a 6-dimmer pack (with socket outlets) the various lighting loads controlled by a Perma 12 rack can be spread over a 3 phase supply because the external, hard-wiring to conveniently grouped socket outlets can ensure the 2 metre phase separation required by U.K., and some other, regulations. Load wiring in flexible cable can be reduced to the minimum.

To interconnect with the 2m long flexible cables of a Mini-2+ 2-preset desk each Perma 12 rack requires a twin 8-pin control socket box to terminate the extra-low voltage control wiring.

SPECIFICATION

Fuse Protection

Fuse panel contains a single pole fuse for each dimmer module. 440v rated, shrouded-contact fuse holder including inexpensive HRC fuse-link providing close-excess current protection or alternatively, to order, Neozed type fuse holder. Each of the three horizontal blocks of four fuse holders are linked by solid copper busbars.

Control Wiring

Internally wired to pressure-pad terminals for the incoming control signals and for the built-in, extra-low voltage D.C. power supply required for Mini-2+ desk.

To interconnect with a Mini-2+ desk, the control wiring from each rack needs to terminate in a remote twin 8-pin control socket box (order code 04 799 02).

Ventilation

The total heat dissipated by convection ventilation does not exceed 2% of the maximum load capacity. Exceptionally, in confined spaces, external ventilation may be necessary to ensure the ambient temperature does not exceed 35°C.

Thyristor Dimmer Modules

Modular construction with power distribution and individual control connections through pressure-pad terminals. Each module self-contained with its own temperature and long term stable trigger card and a pair of Thyristors, surge and continuously rated for 2000W maximum 220/240v tungsten filament lamps.

Filtering

To professional theatre standards. Incoming supply and each dimmer output fitted with radio frequency filters in addition to a substantial inductive filter to each dimmer module.

Rack Construction

Wall-mounting, sheet metal racks requiring front and top access only, housing twelve dimmer modules and a full-height power distribution compartment at the right-hand side. The multi-louvred cover over the dimmer area, the fuse panel and the connection access panel below, are all recessed.

A cable entry plate, for all external connections, is provided both at the top and the bottom rear of the distribution compartment to allow two racks to be mounted one above the other.

Power Distribution

Internally wired for three phase and neutral 50HZ supply with earth continuity conductor, but supplied with removable links coupling the three phase connections to a larger pressure-pad terminal for single phase operation.

Each dimmer output, for 220/240v tungsten lamp load, internally wired to pressure-pad terminals for load line and neutral conductors.

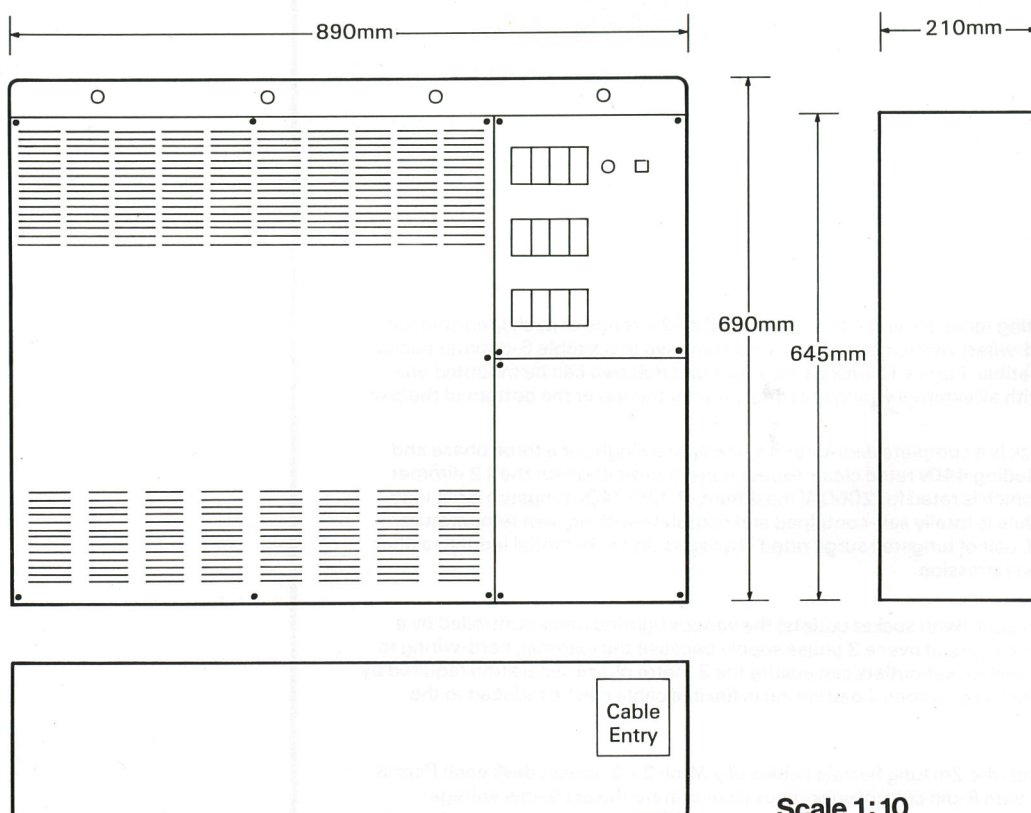
Variants & Accessories

Wall-mounting 12-dimmer rack for single or three phase and neutral, 50Hz supply, 220/240v phase to neutral. With shrouded-contact fuse holder for each of the twelve 2000-watt max. dimmers and internally wired to output terminals. Fixed format of 4 dimmer channels to each phase, supplied linked for single phase supply. 04 797 01

Wall-mounting 12-dimmer rack, as above, but fitted with single pole Neozed type fuse holders. 04 797 1T

Twin 8-pin control socket box (necessary to interconnect each rack with Mini-2+ desk). 04 799 02

8-conductor control cable, 440v insulated and sheathed. 35 600 24



Scale 1: 10