



VX and MX Installation Racks provide quiet 100% duty cycle operation, making them ideal for any venue; theatre, ballroom, house of worship, or corporate presentation environment.

FEATURES:

VERSATILE MODULAR DESIGN

•*Create a dimming package to meet your needs*

FRONT ACCESSIBLE POWER DEVICES

•*Instant access for serviceability*

PREWIRED SYSTEMS

•*Allows ease of installation*

1200 WATT OR 2400 WATT

•*Multiple versions to meet your power and load requirements*

HEAVY DUTY FLOOR MOUNT OR WALL MOUNT MODELS AVAILABLE

•*Provides flexibility in system integration*



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VX and MX Series Rack System

Floor Mount

Standard E.I.A. 19" wide panel space. Cabinet depth 24", (height varies according to requirements).

Specifications:

The dimmer rack shall be of free standing floor mount design with locking front and rear doors and constructed of 11 gauge steel and be spot welded and MIG welded for strength. Rack front door and sides shall be vented for maximum cooling air flow. Panel mounting rails on the front and the rear shall be drilled and tapped 10-32 thread on universal E.I.A. hole spacing. Four (4) 9/32" diameter holes shall be provided in the center of the bottom panel. Each cabinet shall be iron phosphate dipped and finished with a durable baked on textured polyurethane enamel in carbide black.

The dimmerboard will operate on 120/240 volt, 50/60 Hertz AC and contain the facilities for incoming power distribution. The dimmerboard shall be completely wired, providing the appropriately rated terminals for line load and power connections. All terminals shall be clearly marked for identification.

The control input signal to the system shall be of USITT standard DMX-512 digital multiplex and analog 0-10VDC and shall operate simultaneously with the multiplex control signal. Selection of the first address shall be via user accessible switches on the front of the control module.

The dimmer address select switches shall be addressable in single channel increments. It shall not be necessary to skip dimmer numbers to compensate for rack size.

The control module shall be capable of interfacing with house light circuits via USITT standard DMX-512 digital multiplex or optional analog 0-10VDC and shall operate simultaneously with the multiplex control signal.

The dimming equipment shall be of solid state design.

Each dimmer shall have the following LED display indicators:

Phase indicators: Indicates power is present on X, Y and Z legs.

DMX Signal: Indicates DMX-512 signal is present on the control input line.

DMX Match: Indicates DMX-512 signal and dimmer pack address match.

No load: Indicates open circuit or no load condition. (VX series only.)

Output Indicator: Indicates voltage output for each dimmer channel.

Overvoltage Protection: Should the input power line voltage increase above 150VAC through miswiring or neutral fault, this circuit shall turn off the dimmer outputs and flash the "overvoltage" LED. The dimmer shall return to normal operation when the fault is corrected.

Overtemperature Protection: If the internal temperature should rise above 75° C because of restriction of ventilation or exceptionally high ambient temperature, this circuit shall drop the dimmer output to zero and flash the "overtemp" LED, until the condition is corrected. The dimmer shuts down at 75° C and returns to normal at 50° C.

Cooling Fan: Internal dimmer cooling fans shall be provided to properly ventilate all components for operation at full loads. Any system requiring additional fan panels will be unacceptable.

Power Devices: Each dimmer channel shall employ front removable modules with power devices bolted directly to the internal heat sink provided. The power devices shall be conservatively rated at two times the channels current capacity. There shall be 2500 volts of optical isolation between the AC line and all control signals in the assembly. Dimmers employing solid state relays (SSR's) as power devices will not be acceptable.

Each dimmer channel shall have an integral inductive toroidal mounted within the dimmer chassis. The design of the filter shall reduce the rate of current rise resulting from SCR switching and provide a minimum rise time of at least 350 microseconds.

The power efficiency of the dimmer shall exceed 96% at full load. Switch on versus switch off response times shall be within 60 milliseconds for all loads.

Dimmable/Non-Dim: Any channel shall be assignable from dimmable to non-dimmable relay without replacing the power module (VX series only.)

Scene Memory: Dimmer shall be able to store ten programmable scenes (VX series only.)

Circuit Protection: Protection of each module shall be by a magnetic circuit breaker of the appropriate capacity.

Each module shall be a recognized component of Underwriter's Laboratories and when properly installed in a Leprecon VX or MX series cabinet shall be an integral part of the entire system's NEC compliance.

Test Switch: Each channel can be tested without a control console by using the test switch.

The system shall be factory pre-wired and supplied with the following dimmer channels:

- (1.2kw channels) (modules of 12 up to 96 channels)
- (2.4kw channels) (modules of 12 up to 96 channels)

The dimmer bank shall be VX or MX Series Leprecon LLC.

FULL TWO YEAR WARRANTY

For a period of two years from the date of sale, Leprecon LLC will replace any defective parts and will repair any defective module returned to the factory prepaid, without charge for parts or labor. Please consult your dealer for full warranty details.