ETC's Unison DRd Series Rack Enclosures are the workhorses behind the scenes, supporting two processor options and a variety of dimming, switching and option modules. DRd Rack Enclosures are trusted for their reliability and versatility.

**APPLICATIONS**
- Churches
- Hotels
- Convention Centers
- Theatres
- Schools
- Restaurants

**FEATURES**
- All-On – clearly marked switch allows for all loads to be turned on to full, without the need for a control processor
- HighFault – protection from power spikes and surges with short circuit current ratings from 22,000 amps, up to 65,000 amps
- Regulation – monitoring and adjustment of incoming line voltage with min and max scale voltages
- Bypass – UL924–listed emergency lighting bypass input with load shedding
- Hold Last Look – dimming engine holds the last output during any loss of control
- QuickBoot – dimming engine boot time of less than 4 seconds
- HiRes Dimming – support for 16 bit DMX and over 65,000 steps of dimming
- Electronic Low Voltage Dimming – reverse phase dimming control for electronic low-voltage transformers when used with the AELV module

**ORDERING INFORMATION**

### 240 Volt DRd Rack Enclosures

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRd6-12-240</td>
<td>6 module rack enclosure (12 circuits)</td>
</tr>
<tr>
<td>DRd12-24-240</td>
<td>12 module rack enclosure (24 circuits)</td>
</tr>
<tr>
<td>DRd12-48-240*</td>
<td>(2) 12 module rack enclosures (48 circuits)</td>
</tr>
</tbody>
</table>

*In 48 channel configurations, (2) 12 module racks are cross-bussed using AX series main lug or main breaker enclosures.

### 240V - Auxiliary Enclosures

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AX6-MCB-3-100</td>
<td>Auxiliary Rack with 100A Main Breaker for DRd6 - 3Ø, 4W</td>
</tr>
<tr>
<td>AX12-MCB-3-200</td>
<td>Auxiliary Rack with 200A Main Breaker for DR12 - 3Ø, 4W</td>
</tr>
<tr>
<td>AX12X-MCB-3-400</td>
<td>Auxiliary Rack with 400A Main Breaker for (2) DR12 - 3Ø, 4W*</td>
</tr>
<tr>
<td>AX12X-ML-3-400</td>
<td>Auxiliary Rack with Main Lugs for (2) DR12 - 3Ø, 4W</td>
</tr>
</tbody>
</table>

### DRd Options and Accessories

<table>
<thead>
<tr>
<th>MODEL</th>
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<tbody>
<tr>
<td>DRd-FLO</td>
<td>DRd 0-10V LED/ Fluorescent Control Option</td>
</tr>
<tr>
<td>DRd-DALI</td>
<td>DRd DALI Control Option</td>
</tr>
<tr>
<td>DRd-PED</td>
<td>DRd Floor Mount Pedestal</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**GENERAL**
- DRd rack enclosures available in two sizes. DRd6 with support for 6 modules and up to 12 circuits and DRd12 with up to 12 modules and 24 circuits.
- Full 8 year Warranty

**FUNCTIONAL**
- High density dimming for incandescent, fluorescent, neon, cold cathode, electronic and magnetic low voltage transformer load types
- Ability to cross bus and control two rack enclosures using one control processor
- 16 bit DMX input
- Designed for reliable continuous operation

**MECHANICAL**
- Welded 18-gauge formed steel construction
- Surface or floor stand mount
- Hinged, lockable full-height door with electrostatic air filter
- Fine-textured, scratch resistant, epoxy paint
- Integral low voltage fan
- Modular control electronics

**ELECTRICAL**
- 240 Volt, 3 phase systems –
  - Available in 100/120 and 240 Volt UL, 230 Volt CE configurations
- Voltage tolerance ± 10%
- Operating frequency: 50-60Hz.
- DRd6/DRd12 Rack Enclosures fault current protection:
  - 22,000A Short Circuit Current Rating (SCCR)
  - 65,000A SCCR when installed using AX Auxiliary Rack Enclosure with Main Breaker
- Main lugs accept maximum 250 MCM wire
- Load terminals accept maximum #6 AWG wire
- AX Racks equipped with breakers sized for maximum load capacity
- Lower rated trip plug options available
- UL and cUL LISTED

**THERMAL**
- Ambient room temperature: 0-40°C / 32-104°F
- Ambient humidity: 10-90% non-condensing

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**ACCESSORIES AND OPTIONS**

**CONTROL PROCESSORS**
- SmartLink® Architectural Control Processor (S-ACP)
- Paradigm® Architectural Control Processor (P-ACP)

**STATION POWER OPTIONS**
- SmartLink Station Power Module (S-SPM)
  - Provides Echelon® LinkPower for up to 16 SmartLink stations
  - Allows for up to 1640 feet (500 meters) of station bus wiring
- Paradigm Station Power Module (P-SPM)
  - Provides Echelon LinkPower for up to 32 Unison stations
  - Provides 24V auxiliary power for interface and touchscreen stations
  - Allows for up to 1640 feet (500 meters) of station bus wiring

**UNISON DIMMER MODULES**

<table>
<thead>
<tr>
<th>MODEL</th>
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<tbody>
<tr>
<td>HD15</td>
<td>Dual 15A (240V) Dimmer Module</td>
</tr>
<tr>
<td>HD15F</td>
<td>Single 15A (240V) 3-wire Dimmer Module</td>
</tr>
<tr>
<td>HR15</td>
<td>Dual 15A (240V) Relay Module</td>
</tr>
<tr>
<td>HCC15</td>
<td>Dual 15A (240V) Constant Current Module</td>
</tr>
<tr>
<td>HELV5</td>
<td>Dual 5A (240V) Electronic Low Voltage Dimmer Module</td>
</tr>
</tbody>
</table>

**ACCESSORIES**
- Unison RideThru Option (URTO)
  - Short term power back-up of control electronics for at least 10 seconds
  - Automatically engages when power is lost
  - Recharges during normal power operation
- Unison Battery Pack Option (UBPO)
  - Long term power back-up of control electronics for at least 90 minutes
  - Automatically engages when power is lost
  - Recharges during normal power operation
- 0-10V (4-wire) control option (DRd-FLO)*
  - 0-10 Volt (sink) driver and ballast control
  - Up to 24 outputs
  - 400mA per channel
- DALI Ballast option (DRd-DALI)*
  - Support for 24 loops of DALI control in broadcast mode
  - Up to 64 ballasts per output
  - External DALI power supply required (by others)
- Unison DRd Pedestal (DRd-PED)
  - Floor-mount pedestal for Unison DRd dimming enclosures

*Option module required, either (1) DRd-DALI or (1) DRd-FLO may be used in each DRd enclosure
Unison® 240V Rack Enclosure

Unison Dimming Series

PHYSICAL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>DRd6-12-240</td>
<td>21.9</td>
<td>557</td>
<td>17.0</td>
</tr>
<tr>
<td>DRd12-24-240</td>
<td>31.0</td>
<td>787</td>
<td>17.0</td>
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<tr>
<td>AX6</td>
<td>21.9</td>
<td>557</td>
<td>13.0</td>
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<tr>
<td>AX12</td>
<td>31.0</td>
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</tr>
<tr>
<td>AX12X</td>
<td>31.0</td>
<td>787</td>
<td>13.0</td>
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DRd Weights

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<th>MODEL</th>
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<th>SHIPPING WEIGHT</th>
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<tr>
<td></td>
<td>lbs</td>
<td>kgs</td>
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<tr>
<td>DRd6-12-240</td>
<td>38</td>
<td>17.15</td>
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<tr>
<td>DRd12-24-240</td>
<td>51</td>
<td>23.13</td>
</tr>
<tr>
<td>AX6-MCB</td>
<td>28</td>
<td>12.52</td>
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<tr>
<td>AX12-MCB</td>
<td>33</td>
<td>14.97</td>
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<tr>
<td>AX12X-ML</td>
<td>33</td>
<td>14.97</td>
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<tr>
<td>AX12X-MCB</td>
<td>35</td>
<td>15.88</td>
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*Weights and dimensions typical

Drd weights

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Clearance above fan

12.0” 304.8 mm

9.5” 243.8 mm

30.0” 762 mm

13.0” 330.2 mm

17.0” 431.8 mm

*Optional AX Shown

Physical Dimensions

Fault

Fault+

Power

Link

Power

Aux

Error

DMX A

Power

DMX B

Ethernet

Recent

and

# nav

thru

telp0

1 2abc 3 def

4 ghi 5 jkl 6 mno

7pqrs 8tuv 9wxyz

PhySICAL