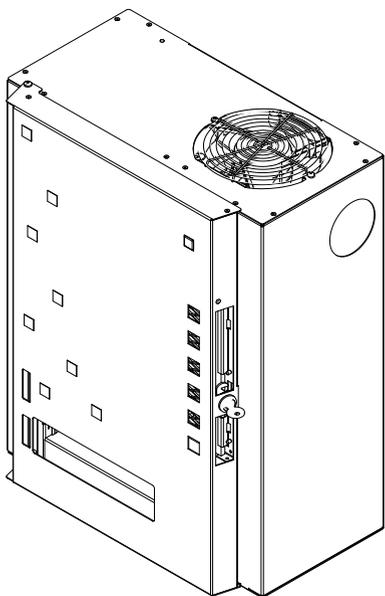




100V 120V

## Unison Dimming Series



## GENERAL INFORMATION

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

- Houses of worship
- Hotels
- Convention centers
- Theaters
- 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 100,000 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 four seconds
- PowerStrip – solid copper bus that easily converts from one-phase to three-phase without additional parts
- 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 ELV module
- California Title 20/24 Compliant

## ORDERING INFORMATION

## 100-120 Volt – DRd Rack Enclosures

MODEL	DESCRIPTION
DRd6-12-120	Six-module rack enclosure (12 circuits)
DRd12-24-120	12-module rack enclosure (24 circuits)
DRd12-48-120*	Two 12-module rack enclosures (48 circuits)

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

## 100-120 Volt – Auxiliary Enclosures

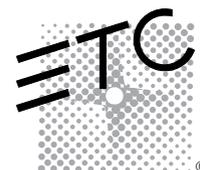
MODEL	DESCRIPTION
AX6-MCB-1-150	Auxiliary rack with 150A Main Breaker for DRd6 - 1ø, 3W
AX6-MCB-3-100	Auxiliary Rack with 100A Main Breaker for DRd6 - 3ø, 4W
AX12-MCB-1-300	Auxiliary Rack with 300A Main Breaker for DRd12 - 1ø, 4W
AX12-MCB-3-200	Auxiliary Rack with 200A Main Breaker for DRd12 - 3ø, 4W
AX12X-MCB-1-400	Auxiliary Rack with 400A Main Breaker for Two DRd12 - 1ø, 3W
AX12X-MCB-3-400	Auxiliary Rack with 400A Main Breaker for Two DRd12 - 3ø, 4W
AX12X-ML-1-600	Auxiliary Rack with Main Lugs for Two DRd12 - 1ø, 3W
AX12X-ML-3-400	Auxiliary Rack with Main Lugs for Two DRd12 - 3ø, 4W

## Compatible Dimming Processors

MODEL	DESCRIPTION
P-ACP	Paradigm Architectural Control Processor
E-ACP	Echo Architectural Control Processor
S-ACP	SmartLink Architectural Control Processor

## DRd Options and Accessories

MODEL	DESCRIPTION
DRd-FLO	DRd 0-10V LED/Fluorescent Control Option
DRd-DALI	DRd DALI Control Option
DRd-PED	DRd Floor-Mount Pedestal
U-RTO	Unison RideThru Option
U-BPO	Unison BatteryPack Option



## SPECIFICATIONS

## GENERAL

- DRd rack enclosures available in two sizes: DRd6 with support for six modules and up to 12 circuits, and DRd12 with up to 12 modules and 24 circuits.
- Full eight-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
- Supports ETC Dimmer Doubling
- 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

- 100-120V, three-phase systems
  - Field configurable for single-phase operation with no additional parts
- Voltage tolerance  $\pm 10\%$
- Operating frequency: 50-60Hz
- DRd6/DRd12 Rack Enclosure fault current protection:
  - 22,000A Short Circuit Current Rating (SCCR)
  - 100,000A SCCR when installed using AX Auxiliary Rack with Main Breaker
- Main lugs accept maximum 350 MCM wire for DRd12 and 150 MCM wire for DRd6
- Load terminals accept maximum #6 AWG wire
- AX Racks equipped with breakers sized for maximum load capacity with 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

## SUPPORTED DIMMER MODULES

MODEL	DESCRIPTION
D15	Dual 1.8KW (120V) Dimmer Module
D15E	Dual 1.8KW (120V) High Rise-Time Dimmer Module
D15F	Single 1.8KW (120V) Three-wire Dimmer Module
R15	Dual 1.8KW (120V) Relay Module
CC15	Dual 1.8KW (120V) Constant Current Module
D20	Dual 2.4KW (120V) Dimmer Module
D20E	Dual 2.4KW (120V) High Rise-time Dimmer Module
D20F	Single 2.4KW (120V) 3-wire Dimmer Module
R20	Dual 2.4KW (120V) Relay Module
CC20	Dual 2.4KW (120V) Constant Current Module
ELV10	Dual 1.2KW (120V) Electronic Low-Voltage Module

## ACCESSORIES AND OPTIONS

## CONTROL PROCESSORS

- Echo™ Architectural Control Processor (E-ACP)
- SmartLink® Architectural Control Processor (S-ACP)
- Paradigm® Architectural Control Processor (P-ACP)

## STATION POWER OPTIONS

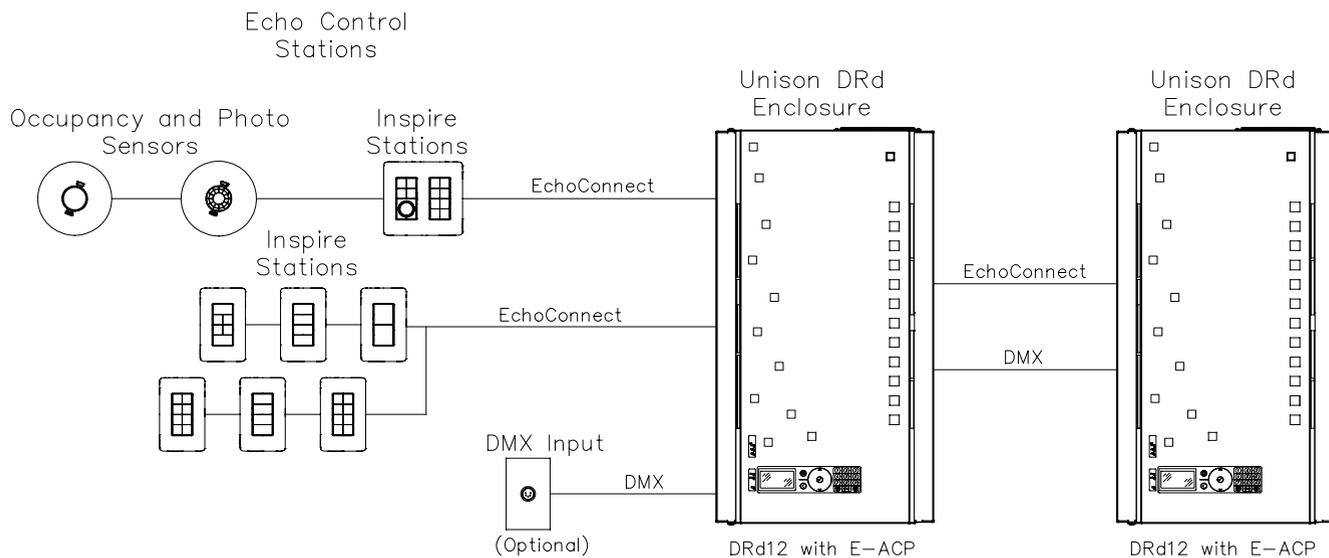
- Echo Station Power Module (S-SPM)
  - Provides EchoConnect power for up to 16 stations and 16 power controllers or panels
  - Allows for up to 1640 feet (500 meters) of station bus wiring
- SmartLink Station Power Module (S-SPM)
  - Provides LinkConnect power for up to 16 SmartLink stations
  - Allows for up to 1640 feet (500 meters) of station bus wiring
- Paradigm Station Power Module (P-SPM)
  - Provides LinkConnect power 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

## ACCESSORIES

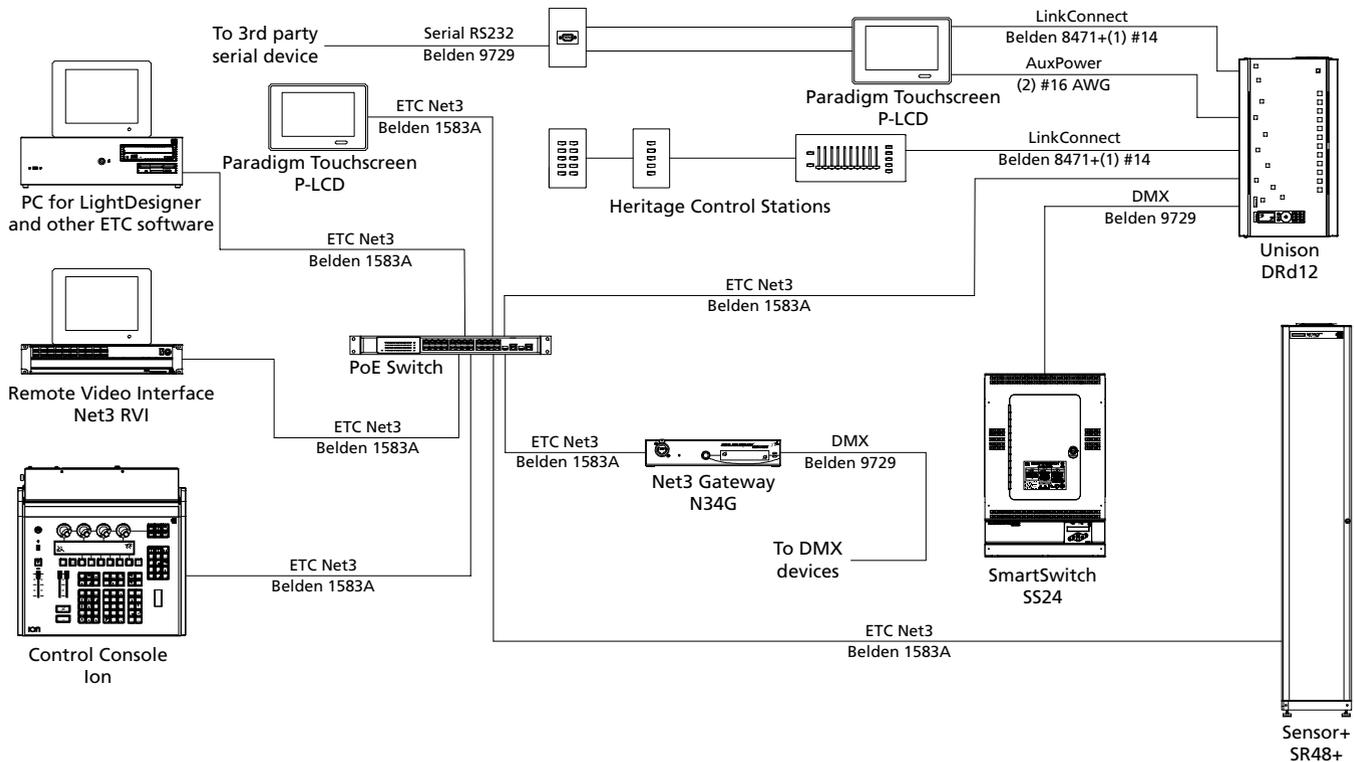
- Unison RideThru Option (URTO)
  - Short-term power backup of control electronics for at least 10 seconds
  - Automatically engages when power is lost
  - Recharges during normal power operation
- Unison Battery Pack Option (UBPO)
  - Long-term power backup of control electronics for at least 90 minutes
  - Automatically engages when power is lost
  - Recharges during normal power operation
- 0-10V (four-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 one DRd-DALI or one DRd-FLO may be used in each DRd enclosure

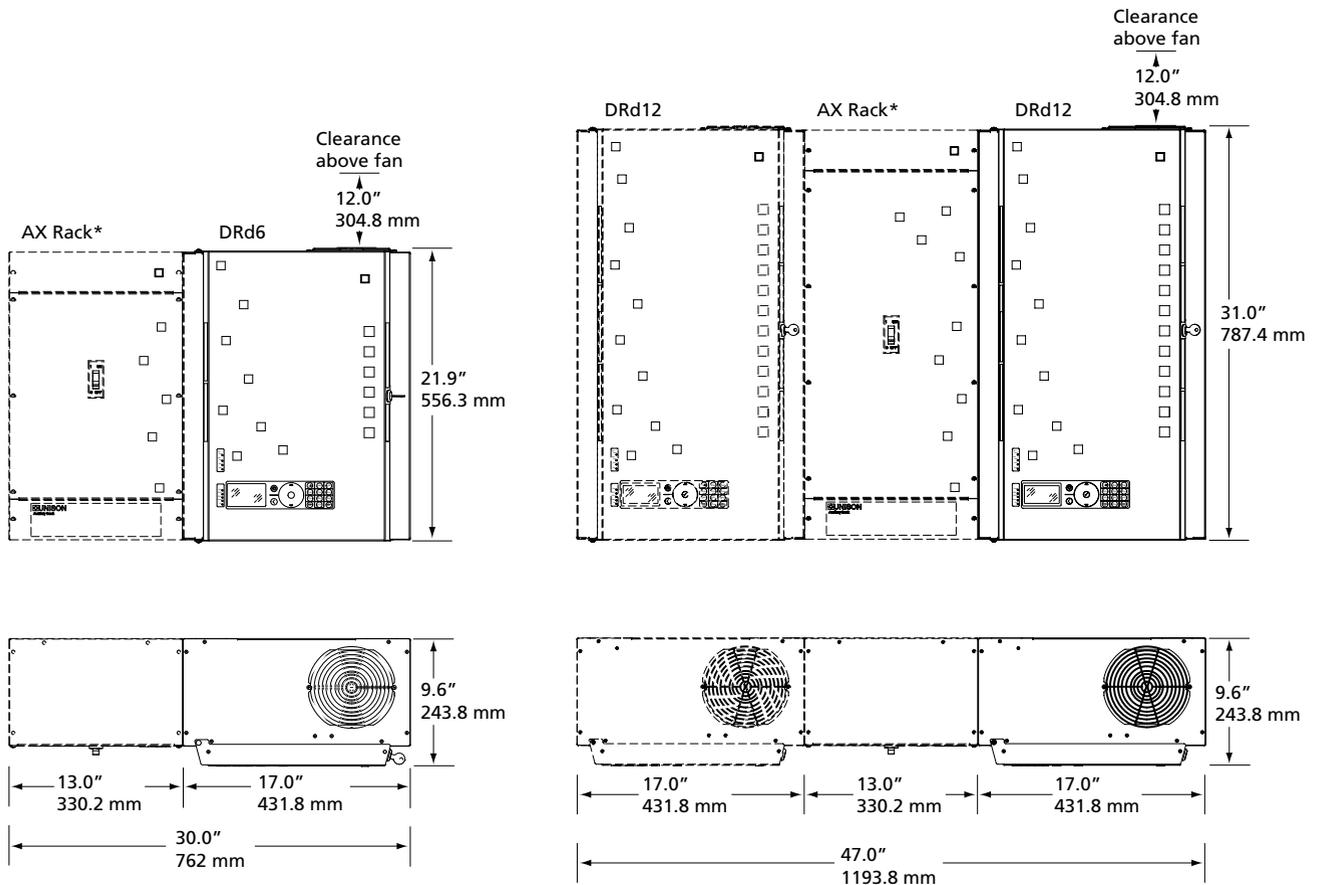
TYPICAL SYSTEM RISER – ECHO CONTROL



TYPICAL SYSTEM RISER – PARADIGM CONTROL



PHYSICAL



\*Optional AX Shown

Product Dimensions\*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
DRd6-12-120	21.9	557	17.0	432	9.60	244
DRd12-24-120	31.0	787	17.0	432	9.60	244
AX6	21.9	557	13.0	330	8.0	203
AX12	31.0	787	13.0	330	8.0	203
AX12X	31.0	787	13.0	330	8.0	203

Product Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
DRd6-12-120	38	17.15	42	19.05
DRd12-24-120	51	23.13	55	24.95
AX6-MCB	28	12.52	35	15.87
AX12-MCB	33	14.97	40	18.14
AX12X-ML	33	14.97	40	18.14
AX12X-MCB	35	15.88	42	19.05

\*Weights and dimensions typical



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Unison® products protected by one or more of the following U.S. Patent Numbers 5,323,088, 5,352,958 and 6,849,943; European Patent Number 0603333; German Patent Number 69203609; US and International patents pending