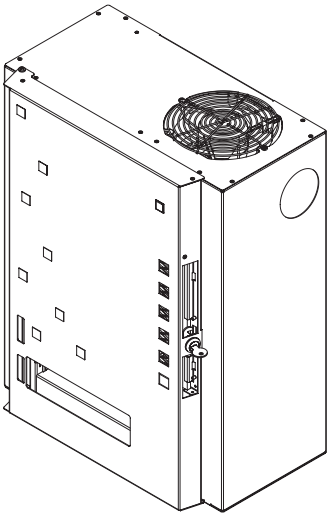




GENERAL INFORMATION

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

- 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

277 Volt DRd Rack Enclosures

MODEL	DESCRIPTION
DRd6-12-277	6 module rack enclosure (12 circuits)
DRd12-24-277	12 module rack enclosure (24 circuits)
DRd12-48-277*	(2) 12 module rack enclosures (48 circuits)

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

277V – Auxiliary Enclosures

MODEL	DESCRIPTION
AX6-MCB-3-100	Auxiliary Rack with 100A Main Breaker for DRd6 - 3ø, 4W
AX12-MCB-3-200	Auxiliary Rack with 200A Main Breaker for DR12 - 3ø, 4W
AX12X-MCB-3-400	Auxiliary Rack with 400A Main Breaker for (2) DR12 - 3ø, 4W
AX12X-ML-3-400	Auxiliary Rack with Main Lugs for (2) DR12 - 3ø, 4W

DRd Options and Accessories

MODEL	DESCRIPTION
DRd-FLO	DRd 4-wire Fluorescent Option
DRd-DALI	DRd DALI Option
DRd-PED	DRd Floor Mount Pedestal



Unison Dimming Series

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

- 277 Volt, 3 phase systems –
 - Available in 100/120 and 240 Volt UL, 230 Volt CE configurations
- Voltage tolerance $\pm 10\%$
- 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 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

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

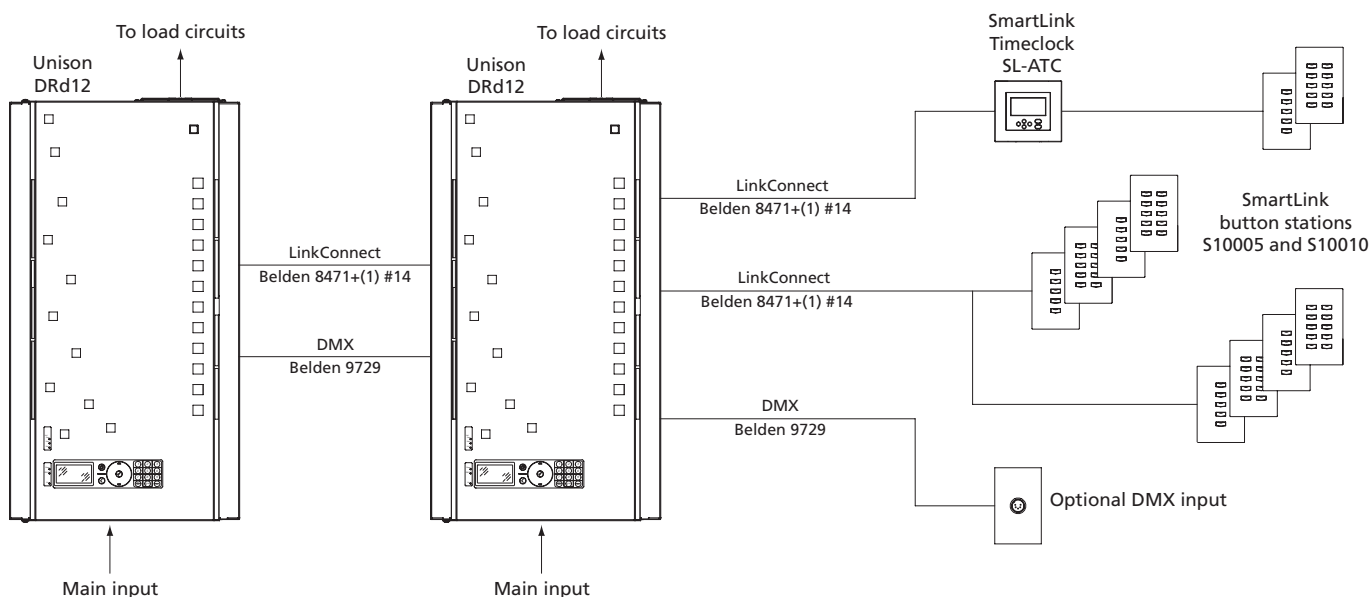
MODEL	DESCRIPTION
AD15	Dual 15A (277V) Dimmer Module
AD15F	Single 15A (277V) 3-wire Dimmer Module
AR15	Dual 15A (277V) Relay Module
ACC15	Dual 15A (277V) Constant Current Module
AD20	Dual 20A (277V) Dimmer Module
AD20F	Single 20A (277V) 3-wire Dimmer Module
AR20	Dual 20A (277V) Relay Module
ACC20	Dual 20A (120V) Constant Current Module
AELV5	Dual 5A (277V) Electronic Low Voltage Dimmer Module

ACCESSORIES

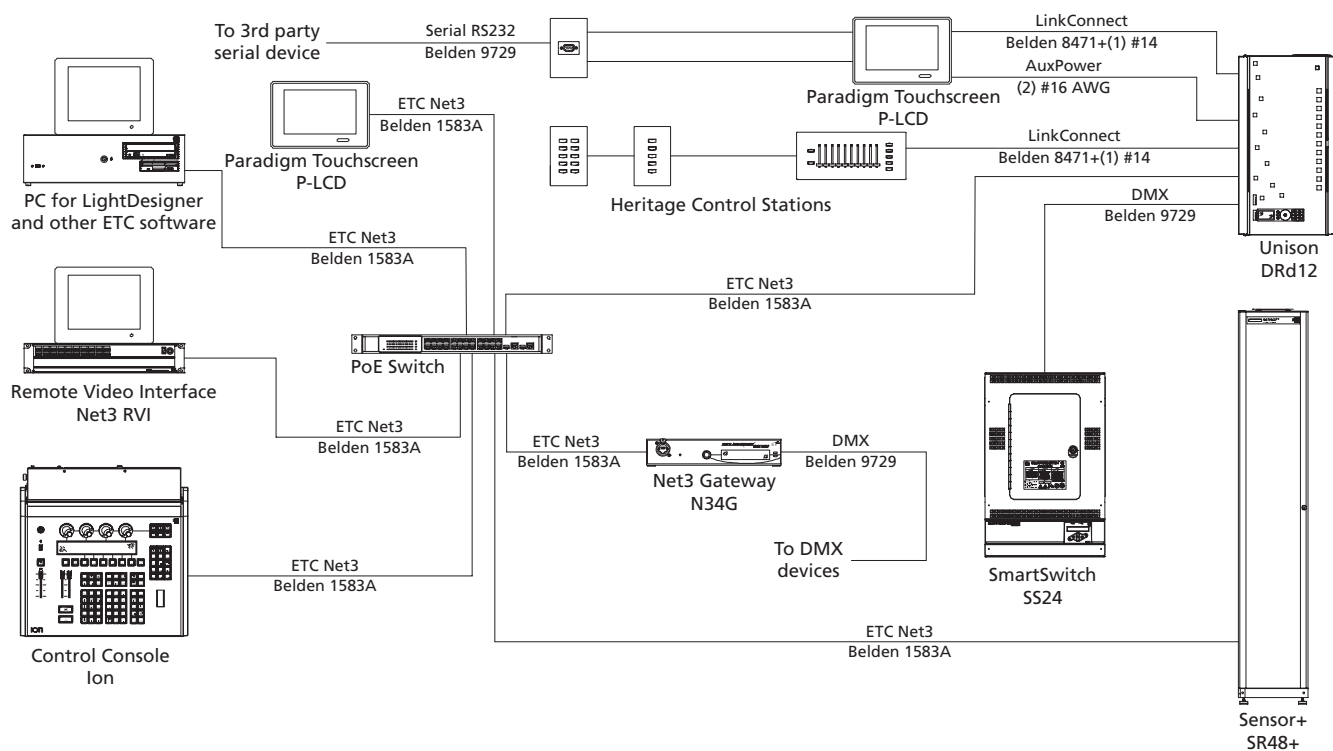
- Unison RideThru Option (URTO)
 - Short term power back-up of control electronics for at least 10 seconds
 - Automatically engages when power is lost
 - Recharges during normal power operation
- Unison Battery Pack Option (UBPO)
 - Long term power back-up of control electronics for at least 90 minutes
 - Automatically engages when power is lost
 - Recharges during normal power operation
- 4-wire Fluorescent option (DRd-FLO)*
 - 4-wire (0-10 Volt sink) ballast control
 - Up to 24 outputs
 - Up to 50 ballasts per output
- 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

TYPICAL SYSTEM RISER – SMARTLINK CONTROL

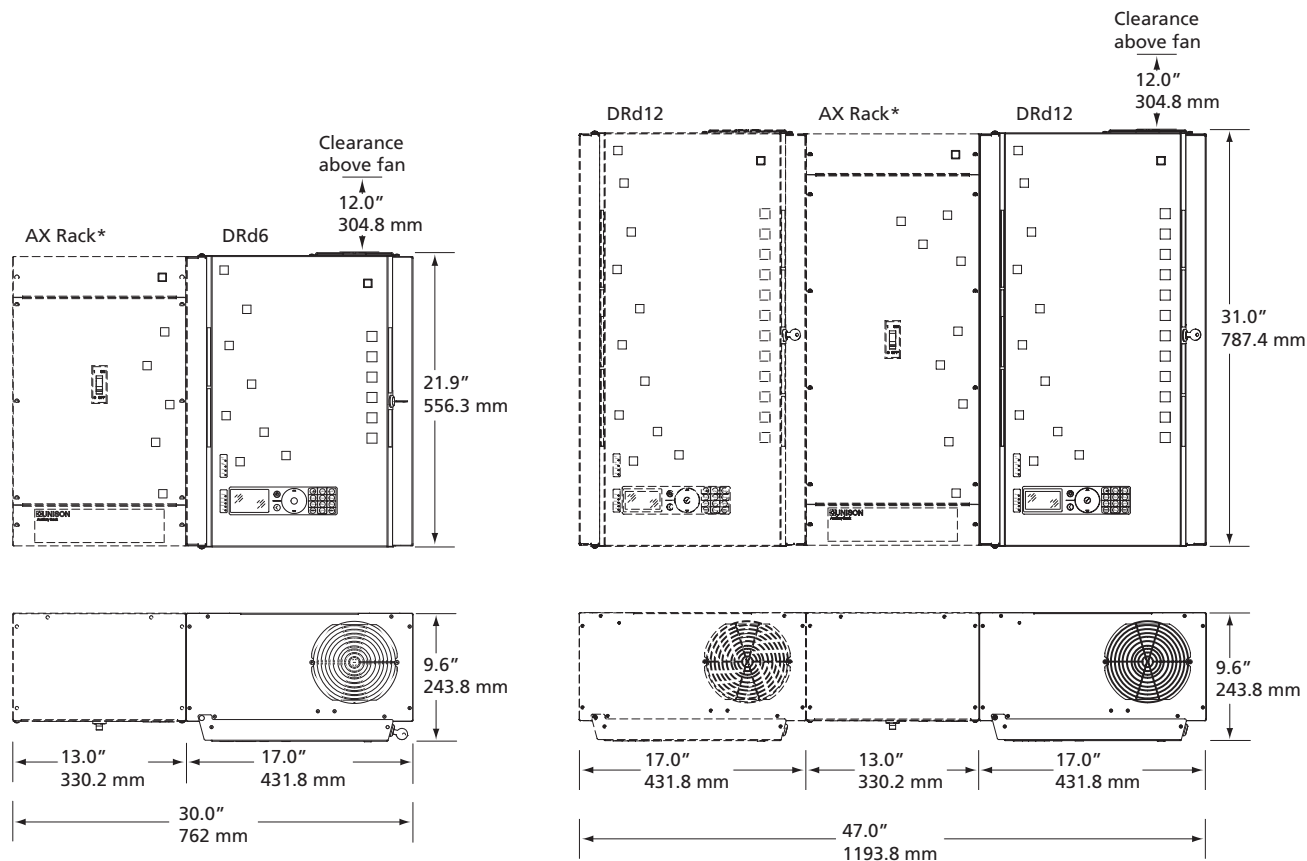


TYPICAL NETWORK RISER – PARADIGM CONTROL



Unison Dimming Series

PHYSICAL



*Optional AX Shown

Product Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
DRd6-12-277	21.9	557	17.0	432	9.60	244
DRd12-24-277	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
DRd6-12-277	38	17.15	42	19.05
DRd12-24-277	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