

CDS Dehumidifier RL Series

DEHUMIDIFIER

DriSteem CDS dehumidifiers, RL series are designed to dehumidify air coming into the unit by passing the incoming air over an evaporator coil to drop the air temperature below the dew point of the air. Moisture is removed from the air and drained out of the unit to a common floor or waste drain. The air is then reheated in the condenser coil and exits the unit. Dehumidification occurs until the set point is reached, then shuts off until the control determines a need for operation.

FIGURE 1-1: CDS DEHUMIDIFIER MODEL RL-14

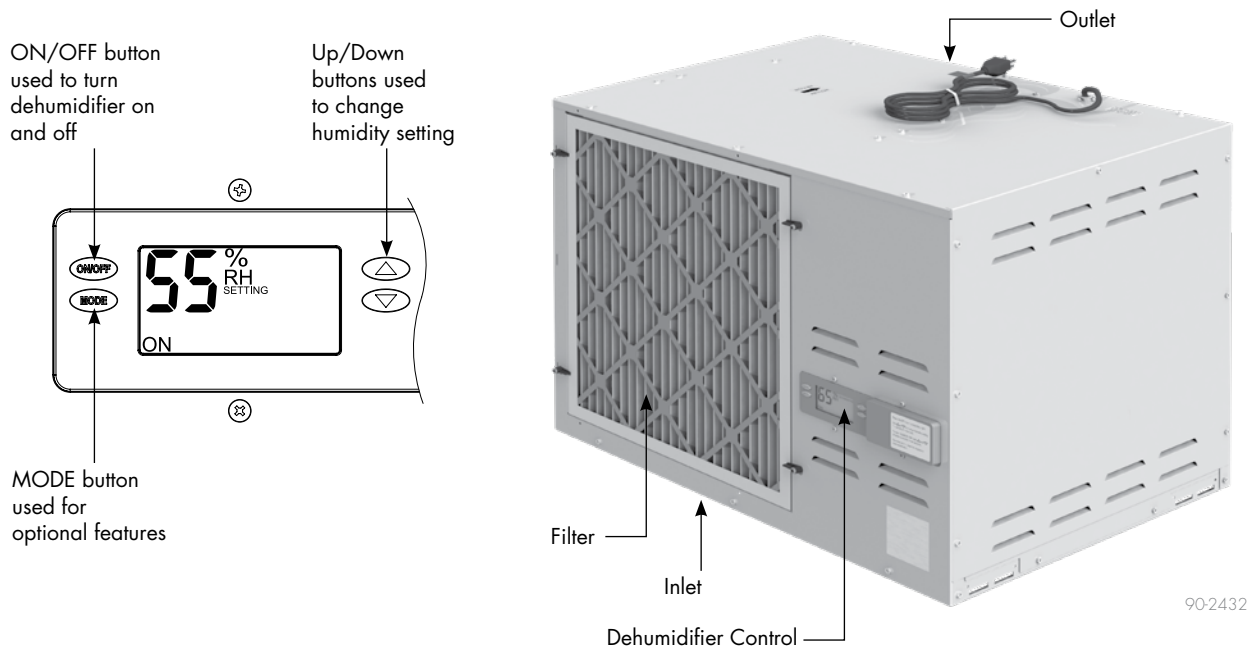
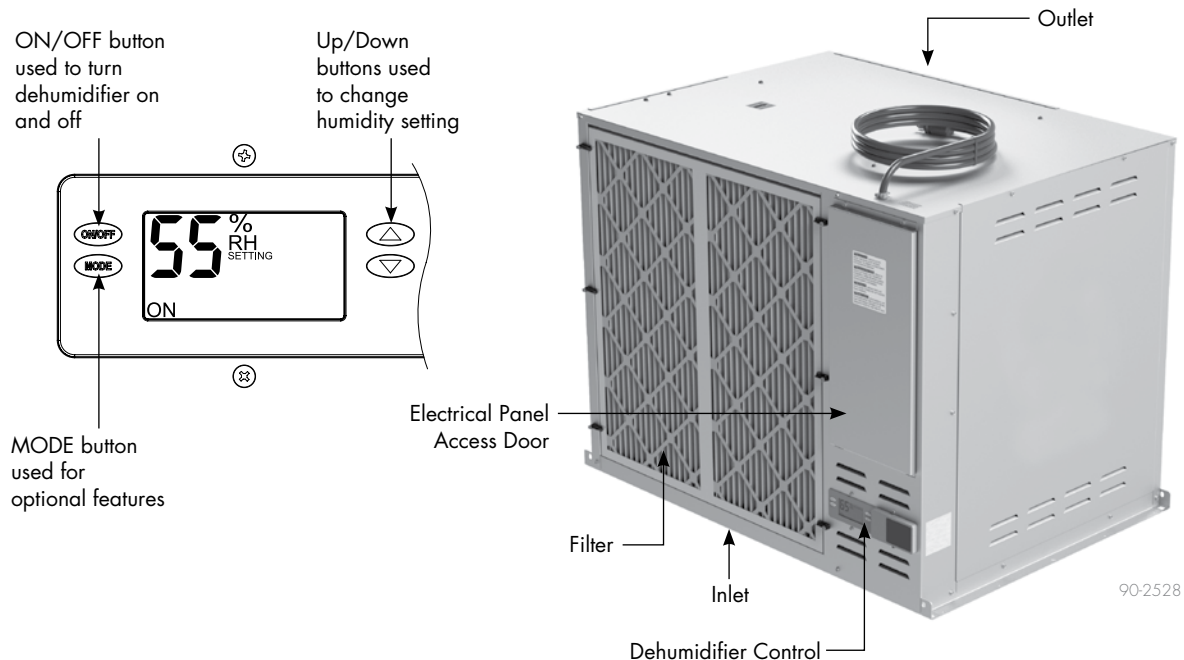


FIGURE 1-2: CDS DEHUMIDIFIER MODEL RL-31



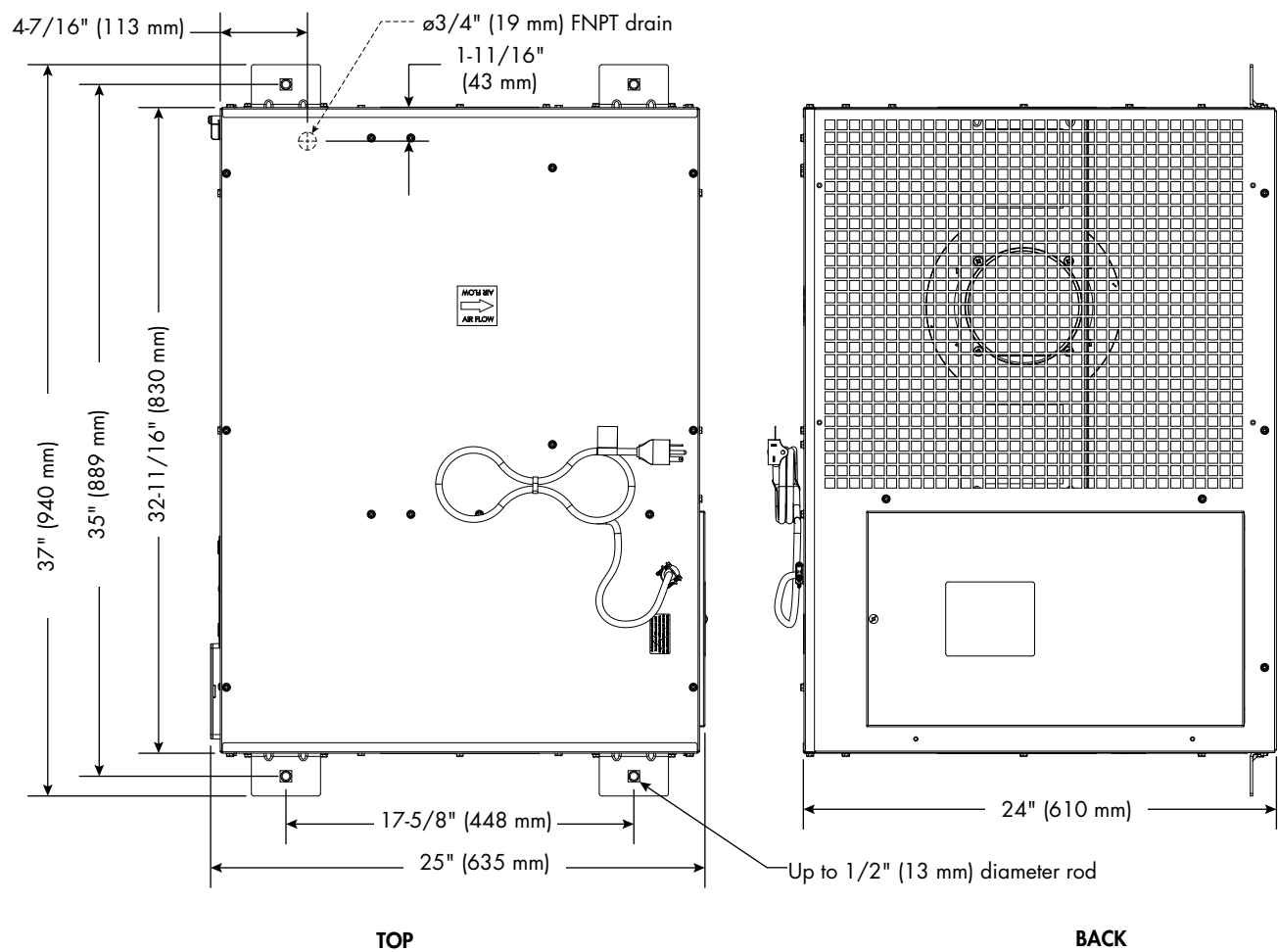
Models, capacities, and electrical specifications

**Table 2-1:
RL Series Specifications**

	Model RL-31		Model RL-14	
Capacity	89 gallons/day (31 lb/h/710 pints/day) @ 80°F (26.7°C), 60% RH		40 gallons/day (13.9 lb/h/320 pints/day) @ 80°F (26.7°C), 60% RH	42.5 gallons/day (14.7 lb/h/340 pints/day) @ 80°F (26.7°C), 60% RH
Dimensions	Width 44.88" (1140 mm) Height 34.41" (874 mm) Length 31.72" (806 mm)		Width: 32.63" (829 mm) Height: 24" (610 mm) Length: 24.25" (616 mm)	
Weight	360 lbs (163 kg) (without packaging)		180 lbs (82 kg) (without packaging)	
Voltage	208-240 VAC, 1 Phase, 60 HZ	277 VAC, 1Phase, 60 HZ	208-240 VAC	277 VAC
Operating Current	19.6A @ 80°F (26.7°C), 60% RH, 240 VAC	17.4A @ 80°F (26.7°C), 60% RH, 277 VAC	11.1A @ 80°F (26.7°C), 60% RH, 240 VAC	9.2A @ 80°F (26.7°C), 60% RH, 277 VAC
Rated Current	24A (install on dedicated 30A circuit)		20 amp breaker	
Efficiency	3.0 L/kWh @ 80°F, 60% RH, 240 VAC		2.9 L/kWh	2.5 L/kWh
Recommended Breaker Size	30A	30A	20A	20A
Recommended Wire Gauge	10 Gauge, Copper	10 Gauge, Copper	12 Gauge, Copper	12 Gauge, Copper
Maximum Fuse or Breaker Size (MOC)	40A at 208V 35A at 240V	30A	30A or lower	20A or lower
Minimum Circuit Ampacity (MCA)	28A at 208V 25A at 240V	21A	19A at 208V	15A at 277V
Operating Temperature Range	50°F to 104°F (10°C to 40°C), 60/40 to 85/80 (ideal conditions for unit to not go into defrost or shut down due to high pressure)		50°F to 104°F (10°C to 40°C), 60/50 to 85/80 (ideal conditions for unit to not go into defrost or shut down due to high pressure)	
Operating Dew Point Lower Limit	36°F (2°C)		40°F (4°C)	
Drain Size	3/4" FNPT			
Filter	MERV 11 (30" x 32" x 2")		MERV 11 (20"x22"x2")	
Airflow	1760 CFM (free flow)		830 CFM (1410m³/h) (free flow)	
Power cord	Units shipped with 10' power cord or can be hard wired.			
Dehumidifier control	50°F and 104°F (10°C to 40°C) cut off			
External control	On/off dry contact			

RL-14 dimensions

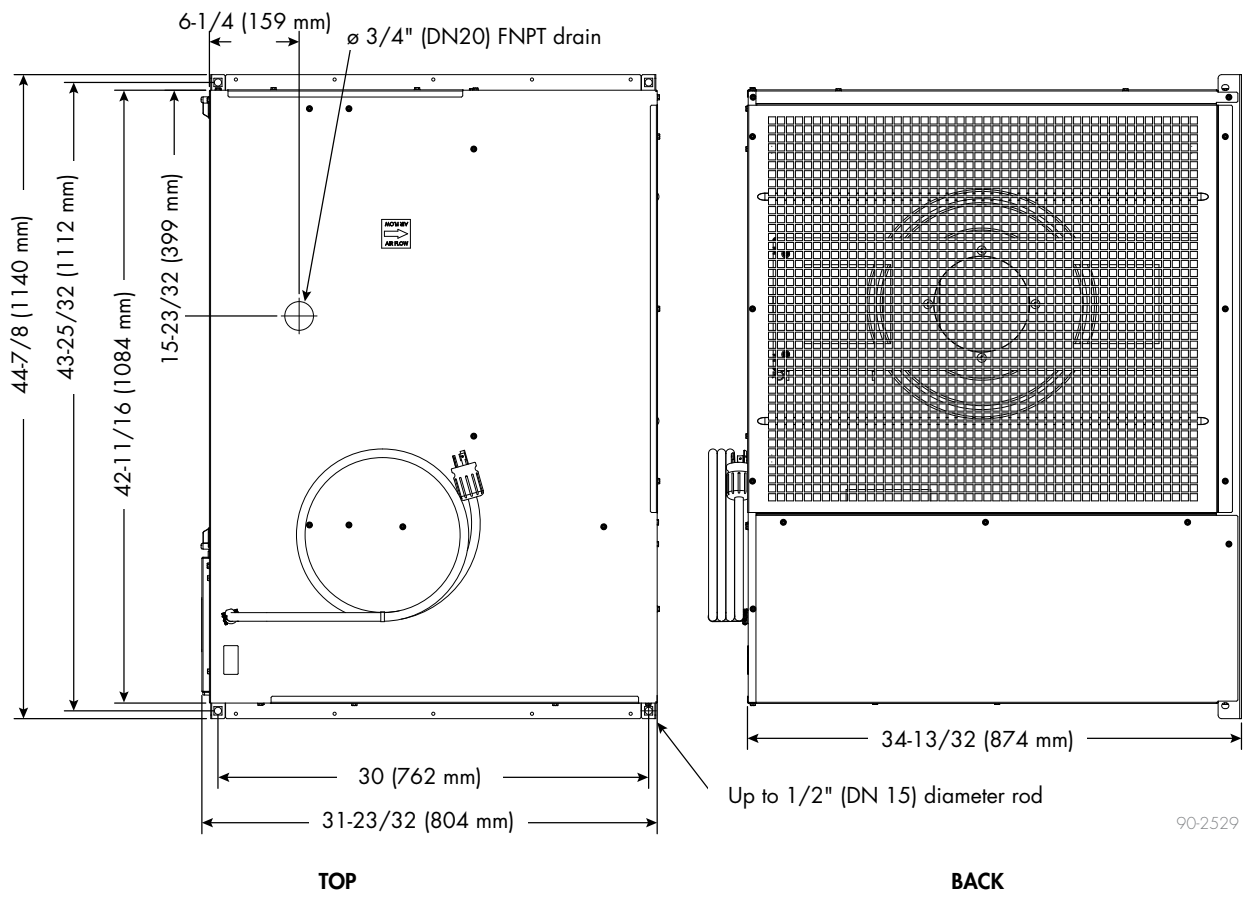
FIGURE 3-1: RL-14 DEHUMIDIFIER DIMENSIONS



90-2433

RL-31 dimensions

FIGURE 4-1: RL-31 DEHUMIDIFIER DIMENSIONS



Clearance recommendations

FIGURE 5-1: RL-14 SPACE CLEARANCES

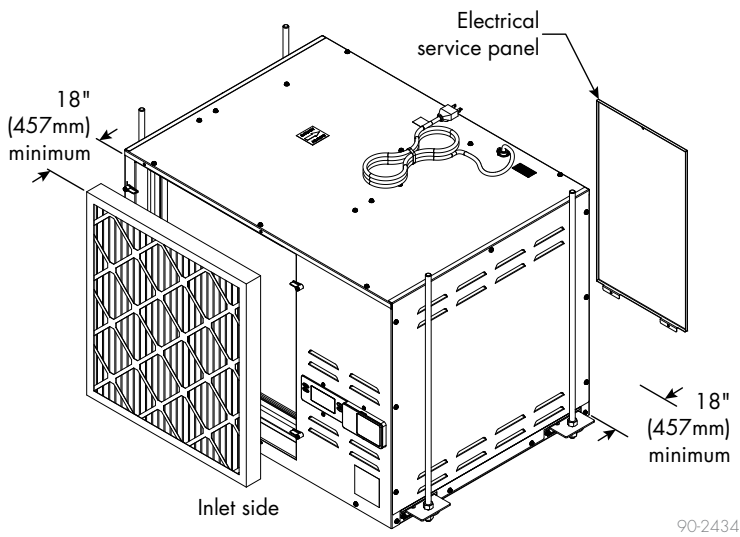


FIGURE 5-2: RL-31 SPACE CLEARANCES

