

MODELS: CDRS15 TO CDRS50



CDRS Series – Refrigerated Compressed Air Dryer Package

CDRS Series refrigerated compressed air dryers are revolutionary dryers that use a simplified refrigeration circuit to provide dependable operation, a low operating cost and versatile installation. Even small capacity air systems can benefit from moisture removal; the CDRS Series is ideal for such applications.

Features and Benefits

- Robust and compact space saving design
- R-134a environmentally friendly refrigerant
- 1,600 kPa g maximum operating pressure

Static Condenser with No Cooling Fan

- No maintenance required
- Very quiet operation – the best in in-room installations (i.e. clinics, laboratories etc)
- Low operating costs

Non-Cycling Design

- Refrigerant control valves ensure accurate temperature control and trouble free performance from 0 to 100% load:
 - Matches cooling capacity to cooling requirement to provide accurate and constant pressure dew point control – ensures maximum moisture removal at any time
 - Prevents freeze-ups and refrigerant compressor overheating during light loading – enhances refrigerant compressor reliability and longevity

Pre-Cooler / Reheater

- Uses outgoing air to initially cool the incoming air
- Allows for smaller, more power efficient refrigeration system
- Results in lower energy consumption and reduced operating cost
- Prevents pipeline sweating at the dryer outlet
- Corrosion resistant copper heat exchanger

Electronic Timer Drain



- Ensures that condensate and oil are efficiently removed from the system
- Includes isolation valve / strainer to protect the drain valve from rust and scales

IP 23 Package Protection

- Suitable for installation / operation indoors (under a roof) only

Dryer System Monitor Panel

- Power switch
- Colour indicating dew point monitor

Technical Specifications

Model	Capacity m ³ / min	Capacity cfm	kW	Inlet / Outlet	Supply	Refrigerant	kg	(H,W,D) mm
CDRS15	0.50	19	0.24	3/8"	240V/1Ph/50Hz	R134a	20	382 x 320 x 320
CDRS25	1.00	37	0.34	3/4"	240V/1Ph/50Hz	R134a	32	568 x 368 x 394
CDRS35	1.33	50	0.42	3/4"	240V/1Ph/50Hz	R134a	32	568 x 368 x 394
CDRS50	1.67	62	0.58	3/4"	240V/1Ph/50Hz	R134a	20	568 x 500 x 500

Capacity rated for conditions at 35° C inlet temperature, 25° C ambient temperature, 6.9 bar (g) inlet pressure, 50Hz.

General Note

- Operating inlet air temperature: 4 to 60° C (maximum)
- Operating ambient air temperature: 2 to 43° C
- Operating inlet pressure: 2 to 16 bar (g) (maximum)