

REFRIGERATED COMPRESSED AIR DRYERS.

CDRL SERIES

The CAPS CDRL series dryers are ideal for compressed air systems to deliver reliable protection against moisture. CAPS has worked in conjunction with a world renowned compressed air dryer manufacturer to develop this range of dryers that caters for your needs.

KEY FEATURES

- Designed for hot and humid climate with optimum 3°C pressure dew point performance.
- Stainless steel brazed plate heat exchangers optimize heat transfer and service life. Separator / re-heater and evaporator combined into one compact efficiency unit.
- Reheat circuit – reduces the amount of heat rejection to the ambient air.
- Improved ventilation with up-flow cooling air design.
- Low pressure drop reduces power consumption and operating costs.
- Easy to install package that saves time and money.
- User friendly digital control / display with VFC alarm output.
- IP54 control cubicle protection.



HOW IT WORKS

Warm, saturated compressed air enters the air to air heat exchanger and is cooled by the exiting air. The pre-cooled air then enters the air to refrigerant heat exchanger and is further chilled causing water vapour to condense.

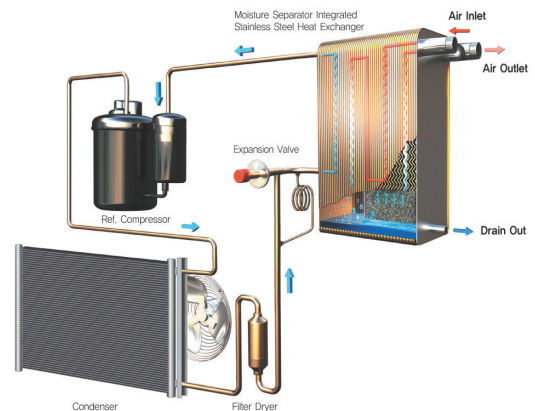
Condensed moisture is collected from the air stream by an integral separator with stainless steel demister.

Liquid condensate is removed from the separator by an automatic drain. Cold air is then reheated in the air to air heat exchanger to eliminate pipe sweating.

Pairs up with the correct in-line filters will provide high quality compressed air for your application.

OPERATING CONDITIONS

- Inlet air temperature: 4 - 65°C
- Ambient temperature: 4 - 50°C
- Max inlet pressure: 16 bar.g
- Minimum inlet pressure: 3 bar.g
- Electrical requirements: 415 V / 3P / 50 Hz



CAPS REFRIGERATED AIR DRYERS TECHNICAL DATA

MODEL	FLOW CAPACITY		UNIT KW	INLET/OUTLET CONNECTIONS (INCHES)	APPROX WEIGHT	DIMENSIONS (MM)			REFRIGERANT
	MC/MIN	CFM				HEIGHT	WIDTH	DEPTH	
CDRL800-4	23.09	815	5.8	3"FLG	285	1,564	724	1,054	R-407C
CDRL1250-4	36.09	1,275	7.3	4"FLG	340	1,572	724	1,204	R-407C
CDRL1500-4	43.32	1,530	7.1	4"FLG	400	1,722	804	1,254	R-407C

CAPS CORRECTION FACTORS

Table 1 = Pressure Correction

Inlet Air Pressure (Bar g)	6	7	8	9	10	11	12	13	16
Correction Factor	0.92	1.00	1.03	1.07	1.09	1.10	1.12	1.18	1.23

Table 2 = Inlet Air Temperature Correction

Inlet Air Temp (°C)	35	40	45	50	55	60	65
Correction Factor	1.00	1.00	0.94	0.87	0.72	0.61	0.52

Table 3 = Ambient Air Temperature Correction

Ambient Air Temp (°C)	25	30	35	40	43	50
Correction Factor	1.00	0.88	0.83	0.63	0.50	0.38