

**Extended 3 year
warranty available**



domnick hunter



CRD Refrigeration Dryers
5 - 1000 cfm

**Energy efficient
compressed air refrigeration dryers**

Compressed Air contains water, oil and dirt

The Problem

Compressed air is an essential power source that is widely used throughout industry. This safe, powerful and reliable utility can be the most important part of your production process. However, your compressed air will contain water, dirt, wear particles, bacteria and even degraded lubricating oil which all mix together to form an unwanted abrasive sludge. This sludge, often acidic, rapidly wears tools and pneumatic machinery, blocks valves and orifices causing high maintenance and costly air leaks. It also corrodes piping systems and can bring your production process to an extremely expensive standstill! Only compressed air that is totally clean and dry will ensure maximum savings.



Corrosion



Unwanted Abrasive Sludge



Damaged Tools

The Solution

All of these costly problems can be avoided by installing a domnick hunter CRD compressed air refrigeration dryer package complete with OIL-Xplus filtration. The packages are suitable for use with any compressor type and provide air quality to ISO 8573.1 Class 1.4.1.

Features and Benefits



- **Clean, Dry, Compressed Air, Stops Damage & Corrosion.**
- **R134a Environmentally friendly refrigerant with no planned phase out.**
- **Energy Efficient, Low Running Costs**
Air to air heat exchanger reduces overall size of the refrigeration circuit by up to 60%. Zero loss float drain saves air.
Saving Air - Saves Energy - Saves Money
- **No Condensation on Downstream Piping**
Air to air heat exchanger raises outlet air temperature eliminating condensation that can occur on chilled piping in humid conditions.
- **Compact, Lightweight and Wall Mountable**
Efficient heat exchanger and refrigeration circuit design reduces overall weight & dimensions, allowing the unit to be mounted on a wall or compressor. Power cord and 3 pin plug are fitted to further simplify installation.
- **On-off switch and dewpoint indicator for easy start up and monitoring.**
- **Easy to remove casing provides instant access to the internal components and simplifies routine cleaning / maintenance.**
- **Suitable for High Ambient Operating Conditions up to 122°F (50°C) and inlet temperatures up to 140°F (60°C)**
- **Can be retrofitted into existing HVAC installations.**
- **Optional Bypass kit available.**

Technical Specifications

Capacities are rated in accordance with CAGI (ADF100) and NFPA (Class H) Standards.

100°F (38°C) Inlet Temperature, 100 psi (7 bar) Inlet Pressure, 100°F (38°C) Ambient Temperature, to deliver 33°F to 39°F (0.5°C to 3.9°C) pressure dewpoint at less than 5 psi d (0.3 bar) differential pressure.

Model	Nominal Capacity *			Max. Pressure		Electrical Supply	Absorbed Power	Refrigerant	Air Connections
	38°F	45°F	50°F	psi g	bar g	115 V / 1PH / 60Hz	kW		
CRD5	5	6	7	232	16	•	0.19	R134a	3/8" NPT - F
CRD10	10	12	14	232	16	•	0.20	R134a	3/8" NPT - F
CRD15	15	18	21	232	16	•	0.23	R134a	3/8" NPT - F
CRD25	25	30	35	232	16	•	0.27	R134a	1/2" NPT - F
CRD35	35	42	48	232	16	•	0.40	R134a	1/2" NPT - F
CRD50	50	61	69	232	16	•	0.59	R134a	3/4" NPT - F
CRD75	75	91	104	232	16	•	0.80	R134a	3/4" NPT - F
CRD100	100	121	138	232	16	•	0.99	R134a	3/4" NPT - F

Maximum ambient temperature 122°F (50°C)

Maximum inlet temperature 140°F (60°C)

Minimum ambient temperature 41°F (5°C)

Correction Factors

Capacity correction factors to be used when operating conditions differ from those shown above.

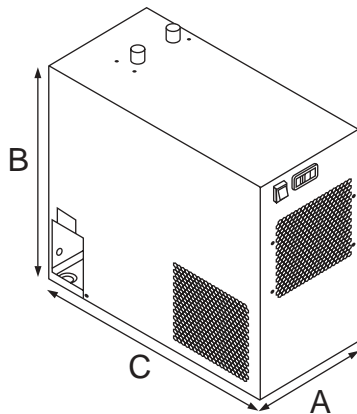
To obtain dryer capacity at new conditions multiply nominal capacity x C1 x C2 x C3

Ambient Temperature (C1)							
°F	60	70	80	90	100	110	120
°C	16	21	27	32	38	43	50
Correction Factor	1.34	1.26	1.17	1.09	1.00	0.91	0.82

Inlet Temperature (C2)						
°F	90	95	100	110	120	140
°C	32	35	38	43	49	60
Correction Factor	1.24	1.11	1.00	0.81	0.67	0.45

Inlet Pressure (C3)										
Pressure psi g	60	80	90	100	125	150	175	200	220	232
Pressure psi g	4.1	5.5	6.2	6.9	8.6	10.3	12.1	13.8	15.2	16.0
Correction Factor	0.83	0.93	0.97	1.00	1.07	1.12	1.16	1.19	1.21	1.22

Dewpoint (C4)				
°C	3	5	7	10
°F	38	41	45	50
Correction Factor	1.00	1.12	1.24	1.46



Model	A		B		C		Weight	
	inches	mm	inches	mm	inches	mm	lbs	Kg
CRD5	7.76	197	17.91	455	17.72	450	40	18
CRD10	7.76	197	17.91	455	17.72	450	42	19
CRD15	7.76	197	17.91	455	17.72	450	44	20
CRD25	11.10	282	20.87	530	23.62	600	71	32
CRD35	11.10	282	20.87	530	23.62	600	73	33
CRD50	13.86	352	23.82	605	27.56	700	101	46
CRD75	13.86	352	23.82	605	27.56	700	121	55
CRD100	13.86	352	23.82	605	27.56	700	128	58

Environmental Impact of Inefficient Compressed Air Systems

Global Warming

The greatest environmental impact of any compressed air system is the indirect contribution to global warming.

Any compressed air system which uses electricity produced by fossil fuel burning power stations contributes to carbon dioxide emissions.

Carbon dioxide is the major "greenhouse gas" contributing to global warming.

The more energy efficient the compressed air system, the less carbon dioxide produced.



domnick hunter can provide a total solution to inefficient compressed air systems



CIRRUS - Clean, dry compressed air to ISO 8573.1 Class 1.4.1 Energy efficient. Low running costs.

Environmentally friendly refrigerant and components.



OIL-Xplus - Highest quality compressed air.

Energy efficient filter housings and elements giving low pressure drop and running costs.



ES OIL/WATER SEPARATORS - ES2000 Series Oil/Water Separator treat oily condensate at a fraction of the cost of other disposal methods and keep discharges within legal limits.

This can also assist in attaining ISO 14000 environmental approval.


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