Refrigerated Air Dryers



Innovation

Reliability

Efficiency



Reliable, Efficient, Low Cost of Ownership



Refrigerated dryers from Ingersoll Rand offer multiple design features to ensure a constant dew point at all load levels and will deliver a continuous dry air performance that satisfies ISO 7183 industry standards.

Clean, Reliable, Refrigerated Air

These units provide complete, affordable solutions for a wide selection of applications, including:

- · Dry Cleaning.
- · Light Processing.
- Petrochemical.
- Automotive.
- Manufacturing.
- · Oil and Gas.

Designed for Optimum Efficiency

Multi-stage filtering helps remove residual contaminants. Using refrigerated dryers from Ingersoll Rand will provide clean, dry air which means less corrosion in the air distribution system, less damage to air-powered tools and reduced potential for contamination in production process.

Ingersoll Rand offer multiple design features to ensure constant dew point at all load levels and will deliver continuous dry air performance that satisfies ISO 7183 industry standards.

Low Cost of Ownership

Ingersoll Rand's refrigerated dryers provide the very best combination of high efficiency, low pressure drop and small footprint which reduces power consumption, reduces installation time and facilitates maintenance.



Corrosion



Spoiled Paint Finish

Optimise your Choice

The 'D' Refrigerated Dryer Range - one range for all applications. These units provide a small footprint with complete, affordable solutions for applications ranging from dry cleaning to automotive body shops, to light processing and manufacturing applications. The high capacity units are designed for large-scale industrial, automotive and petrochemical applications.

Electronic Drain Valve: D12IN-A to D5400IN-A (CN) D12IN-A to D480IN-A (EU)

The programmable electronic drain valve is fully adjustable to help minimise air loss.

- Easily adjusted from the dryer control panel to match all possible working conditions.
- Proven reliability thousands in service.
- Includes a strainer for quick maintenance.



Electronic No-loss Drain (Optional in CN / STD in EU): D600IN-A to D5400IN-A

The powerful no loss electronic drain eliminates the need for pre-setting the unit.

- · Using state-of-the-art software and combined with a special transducer interface to measure the presence of condensate, it is released only when needed.
- · Continuous monitoring ensures fast, effective discharge of the condensate with no deficit of compressed air.

Control Panel: D12IN-A to D480IN-A

- Full feature, multi-function control panel.
- Energy saving mode shuts dryer off during low loads.
- Alarm display:
 - High and very high dew point.
 - Low dew point.
 - Probe failure.
- Fan speed indication.
- Remote alarm contact.
- History of last 10 alarms.

Control Panel: D600IN-A to D950IN-A

Includes all the main functions to control and monitor the unit:

- Energy saving mode shuts dryer off during low loads.
- Alarm display:
 - Dew Point high/low temperature.
 - High ambient temperature.
 - No-loss drain failure.
- Terminal for remote alarm signal.
- Terminal for remote alarm for no-loss drain.
- History of last 10 alarms.

Control Panel: D1140IN-A to D5400IN-A

This range has all the main functions you would expect to control and monitor the unit:

- Energy saving mode shuts dryer off during low loads.
- Alarm display:
 - Dew Point high/low temperature.
 - High ambient temperature.
 - No-loss drain failure.
- Terminal for remote alarm signal.
- Terminal for remote alarm for no-loss drain.
- Remote ON/OFF.
- History of the last 50 alarms.



Advanced Microprocessor Controls: D4620IN-W to D26600IN-W and D6650IN-A to 23000IN-A

- Dew Point high/low temperature.
- Air inlet temperature displays.
- Air outlet temperature.
- Multi level menus to allow user programming.
- Volt free general alarm contact.

Reliable Design

Reciprocating compressors with corrosion resistant materiale deliver cost efficient, long-life performance. They feature fewer moving parts, are fully-instrumented and monitored for reliability and are protected by IP54-rated electrical enclosures.

This makes them the optimum investment for high-volume needs with a lot at stake – and the bigger, the better!

Every unit delivers advanced microprocessor control with multi-level menus, password protection and alarms.

Units with capacities above 150 m³/min also add self-diagnostic software plus the ability to trim energy consumption during periods of reduced demand.





China Technical Specifications - 50 Hz

Model	Class 5 < 7° C Dew Point		Class 4 < 3° C Dew Point		Nominal	Standard	Air	Dimensions		Max.		
					Power	Power Supply	Connections	Width	Length	Height	Weight	Working Pressure
	m³/min FAD 20°C	m³/hr FAD 20°C	m³/min FAD 20°C	m³/hr FAD 20°C	kW	V / Ph / Hz	BSP in	mm	mm	mm	kg	bar g
Air Cooled												
D12IN-A	0.2	12	0.2	9.6	0.12	230/1/50	3/8"	305	360	408	17	14
D25IN-A	0.4	25	0.3	20.0	0.12	230/1/50	3/8"	305	360	408	23	14
D42IN-A	0.7	42	0.6	33.6	0.18	230/1/50	1/2"	390	432	453	25	14
D54IN-A	0.9	54	0.7	43.2	0.18	230/1/50	1/2"	390	432	453	26	14
D72IN-A	1.2	72	1.0	57.6	0.20	230/1/50	1/2"	390	432	453	26	14
D108IN-A	1.8	108	1.4	86.4	0.41	230/1/50	3/4"	420	516	563	33	14
D144IN-A	2.4	144	1.9	115.2	0.47	230/1/50	3/4"	420	516	563	38	14
D180IN-A	3.0	180	2.4	144	0.61	230/1/50	3/4"	420	516	563	43	14
D240IN-A	4.0	240	3.2	192	0.68	230/1/50	1 1/2"	503	604	980	76	14
D300IN-A	5.0	300	4.0	240	1.04	230/1/50	1 1/2"	503	604	980	87	14
D360IN-A	6.0	360	4.8	288	1.04	230/1/50	1 1/2"	503	604	980	87	14
D480IN-A	8.0	480	6.4	384	1.40	230/1/50	1 1/2"	503	604	980	110	14
D600IN-A	12.0	720	10.0	600	1.85	230/1/50	2"	720	779	1340	120	14
D780IN-A	15.6	936	13.0	780	1.98	400/3/50	2"	720	779	1340	130	12
D950IN-A	19.0	1140	15.8	950	2.58	400/3/50	2"	720	779	1340	150	12
D1140IN-A	21.7	1300	19.0	1140	3.40	400/3/50	3"	785	1365	1554	260	12
D1300IN-A	26.0	1560	21.7	1300	3.40	400/3/50	3"	785	1365	1554	260	12
D1410IN-A	28.2	1692	23.5	1410	3.40	400/3/50	3"	785	1365	1554	270	12
D1620IN-A	31.5	1890	27.0	1620	5.30	400/3/50	3"	785	1365	1554	300	12
D1890IN-A	37.8	2268	31.5	1890	5.30	400/3/50	3"	785	1365	1554	300	12
D2520IN-A	50.4	3024	42.0	2520	6.88	400/3/50	DN 100	901	1390	1554	330	12
D3000IN-A	60.0	3600	50.0	3000	7.81	400/3/50	DN 125	1500	1510	1554	420	12
D3600IN-A	70.0	4200	60.0	3600	11.29	400/3/50	DN 125	1500	1510	1554	520	12
D4200IN-A	84.0	5040	70.0	4200	11.29	400/3/50	DN 125	1500	1510	1554	520	12
D4800IN-A	96.0	5760	80.0	4800	12.91		DN 150	1500	1510	1554	620	12
D5400IN-A	108.0	6480	90.0	5400	12.91	400/3/50	DN 150	1500	1510	1554	720	12
D3400IN-A	100.0	0400	90.0	3400	12.51	400/3/50	DIN 150	1500	1510	1554	720	12
Water Coole		1262	10.0	11.40	2.40	400 (2.150		705	1255	1.427	2.50	
D1140IN-W	21.7	1300	19.0	1140	3.40	400/3/50	3"	785	1365	1437	260	12
D1300IN-W	26.0	1560	21.7	1300	3.40	400/3/50	3"	785	1365	1437	260	12
D1410IN-W	28.2	1692	23.5	1410	3.40	400/3/50	3"	785	1365	1437	270	12
D1620IN-W	31.5	1890	27.0	1620	5.00	400/3/50	3"	785	1365	1437	300	12
D1890IN-W	37.8	2268	31.5	1890	5.00	400/3/50	3"	785	1365	1437	300	12
D2520IN-W	50.4	3024	42.0	2520	6.60	400/3/50	DN 100	901	1390	1437	330	12
D3000IN-W	60.0	3600	50.0	3000	7.40	400/3/50	DN 125	1501	1511	1437	420	12
D3600IN-W	70.0	4200	60.0	3600	10.70	400/3/50	DN 125	1501	1511	1437	520	12
D4200IN-W	84.0	5040	70.0	4200	10.70	400/3/50	DN 125	1501	1511	1437	520	12
D4800IN-W	96.0	5760	80.0	4800	12.30	400/3/50	DN 150	1501	1511	1437	620	12
D5400IN-W	108.0	6480	90.0	5400	12.30	400/3/50	DN 150	1501	1511	1437	720	12

¹⁾ Data refers to the following conditions: air FAD 20°C/1 bar a, pressure 7 bar g, ambient temperature 25°C, air inlet temperature 35°C, water inlet temperature = 30°C, condensing mean temperature = 40°C, stated pressure dew points in accordance with ISO 8573-1:2001 standards.

Features (50HZ)

Features	D12IN-A to D180IN-A	D240IN-A to D480IN-A	D600IN-A to	ir Cooled D1300IN-A to D5400IN-A	D6650IN-A to D11500IN-A	D13300IN-A to D23000IN-A	D600IN-W to D960IN-W	Water Cooled D1300IN-W to D11500IN-W	D13300IN-W to D26600IN-W
Dew Point Indication	1	1	1	1	/	/	/	✓	/
On/off Switch		✓	✓	✓	✓	1	✓	1	1
Terminal for Remote Alarm Signal	/	/	/	/	/	1	1	/	/
Remote Control				/	1	1		✓	1
Energy Saving Mode	/	1	/	/	/	1	1	/	/
Remote ON/OFF Switch				/	1	1		✓	1
High Pressure Switch	/	1	/	/	1	1	1	/	/
Variable Speed Fan	/	1							
Fan Pressure Switch			/	/	/	1			
History of Last 10 Alarms	/	1	1				1		
History of Last 50 Alarms				/	1	/		/	1
Hot Gas By-pass Valve		1	✓	/	1	1	1	✓	1
Electronic No-loss Drain			/	/	1	/	/	/	1
Electronic Drain Valve	/	1							
Internal Pre-filter						1			1

Maintaining air quality is so important that the International Standards Organisation (ISO) developed six compressed air quality classes, as defined by ISO 8573-1:2001.

ISO 8573-1:2001 Air Quality Classes

Quality	Solid - Ma	imum Number of Particles per m³ Water Pressure Oil & Oil			
Class	0.1-0.5 micron	0.5-1 micron	1-5 micron	Dew Point °C	mg/m³
0	As specified by	the end-user or manufacturer	and more stringent than Class 1		
1	100	1	0	-70°C	0.01
2	100, 000	1,000	10	-40°C	0.1
3	N/A	10,000	500	-20°C	1
4	N/A	N/A	1,000	3°C	5
5	N/A	N/A	20,000	7°C	N/A
6	N/A	N/A	N/A	10°C	N/A

To determine which industry classification you require, ask yourself these simple questions:

- Does compressed air quality affect my production process and the quality of my end products?
- · Will poor compressed air quality decrease my productivity, cost savings and product quality standards?
- · What internal and external ambient conditions affect the quality of my compressed air produced by my system?

Maximum Inlet Temperature		Maximum Ambient Temperature		
D12IN-A to D23000IN-A	60 °C	D12IN-A to D950IN-A	50 °C	
D600IN-W to D5400IN-W	60 °C	D1300IN-A to D23000IN-A	45 °C	
D6650IN-W to D26600IN-W	55 °C			
Water Connections BSP (inches)				
D660IN-W to D950IN-W	3/4"			
D1300IN-W to D6650IN-W	1-1/2"			
D9600IN-W to D26600IN-W	2"			

Energy and Environmental

Energy savings mode shuts dryer off during low loads. The D12IN-A to D950IN-A units are rated for 50°C and units above this range are rated for 45°C ambient air conditions – which covers a large range of applications.

Environmental Friendly Regrigerant(EU)

 D12IN-A to D180IN-A
 R134A

 D240IN-A to D23000IN-A
 R407C

 D600IN-W to D950IN-W
 R407C

 D1300IN-W to D5400IN-W
 R507

 D6650IN-W to D26600IN-W
 R407C

Environmental Friendly Regrigerant(CN)

D12IN-A to D480IN-A R134A D600IN-A to D5400IN-A R404A D1300IN-W to D5400IN-W R404A



Ingersoll Rand offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions. From air compressors that reduce energy consumption to electric-powered golf cars with near-zero emissions, Ingersoll Rand provides the knowledge, experience and solutions to help our clients achieve their sustainability goals.



Global Reach, Local Service

Ingersoll Rand provides its products and services directly or through distributors to customers in close to 200 countries.



Ingersoll Rand maintains offices, warehouses and customer centres throughout the world.

Ingersoll Rand focuses on providing innovation to increase your productivity and profitability. Expect more with Ingersoll Rand. We are your total solutions provider.





Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands — including Club Car°, Ingersoll Rand°, Thermo King° and Trane° — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results.









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