

Ingersoll Rand

Refrigerated Air Dryers

DISTRIBUTED BY:
Pro Wood Finishes
14622 Southlawn Lane
Rockville MD 20850
Ph: (301) 424-3033



Innovation

Reliability

Efficiency

IR Ingersoll Rand
Industrial Technologies

Reliable, Efficient, Low Cost of Ownership

Providing clean, dry, compressed air is especially important in applications where moisture or contamination can cause system corrosion, damage to air-powered tools or degradation of products or processes touched by the compressed air.

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.

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.
- Service intervals.
- History of last 10 alarms.



Electronic Drain Valve : D12IN-A to D480IN-A

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.

Technical Specifications

Model	Class 5 < 7° C Dew Point		Class 4 < 3° C Dew Point		Nominal Power	Standard Power Supply	Air Connections	Dimensions			Weight	Max. Working Pressure
	m³/min FAD 20°C	m³/hr FAD 20°C	m³/min FAD 20°C	m³/hr FAD 20°C				Width	Length	Height		
Air Cooled												
D12IN-A	0.2	12	0.2	9.6	0.12	230/1/50	3/8"	305	360	402	17	14
D25IN-A	0.4	25	0.3	20.0	0.12	230/1/50	3/8"	305	360	402	23	14
D42IN-A	0.7	42	0.6	33.6	0.18	230/1/50	1/2"	389	431	452	25	14
D54IN-A	0.9	54	0.7	43.2	0.18	230/1/50	1/2"	389	431	452	26	14
D72IN-A	1.2	72	1.0	57.6	0.20	230/1/50	1/2"	389	431	452	26	14
D108IN-A	1.8	108	1.4	86.4	0.41	230/1/50	3/4"	420	515	562	33	14
D144IN-A	2.4	144	1.9	115.2	0.47	230/1/50	3/4"	420	515	562	38	14
D180IN-A	3.0	180	2.4	144.0	0.61	230/1/50	3/4"	420	515	562	43	14
D240IN-A	4.0	240	3.2	192.0	0.68	230/1/50	1 1/2"	500	679	978	76	14
D300IN-A	5.0	300	4.0	240.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D360IN-A	6.0	360	4.8	288.0	1.04	230/1/50	1 1/2"	500	679	978	87	14
D480IN-A	8.0	480	6.4	384.0	1.40	230/1/50	1 1/2"	500	679	978	110	14
D600IN-A	12.0	720	10.0	600.0	1.85	230/1/50	2"	720	780	1425	120	14
D780IN-A	15.6	936	13.0	780.0	1.98	400/3/50	2"	720	780	1425	130	12
D950IN-A	19.0	1140	15.8	950.0	2.58	400/3/50	2"	720	780	1425	150	12
D1300IN-A	26.0	1560	21.7	1300.0	3.40	400/3/50	3"	784	1388	1585	260	12
D1410IN-A	28.2	1692	23.5	1410.0	3.40	400/3/50	3"	784	1388	1585	270	12
D1890IN-A	37.8	2268	31.5	1890.0	5.30	400/3/50	3"	784	1388	1585	300	12
D2520IN-A	50.4	3024	42.0	2520.0	6.88	400/3/50	DN 100	914	1388	1585	330	12
D3000IN-A	60.0	3600	50.0	3000.0	7.81	400/3/50	DN 125	1500	1510	1570	420	12
D4200IN-A	84.0	5040	70.0	4200.0	11.29	400/3/50	DN 125	1500	1510	1570	520	12
D4800IN-A	96.0	5760	80.0	4800.0	12.91	400/3/50	DN 150	1500	1510	1570	620	12
D5400IN-A	108.0	6480	90.0	5400.0	12.91	400/3/50	DN 150	1500	1510	1570	720	12
D6600IN-A	127.0	7618	102.7	6162.0	9.90	400/3/50	DN 150	910	1940	1447	624	14
D9000IN-A	160.5	9630	130.4	7822.0	11.00	400/3/50	DN 200	930	3000	2079	1077	14
D11400IN-A	204.1	12249	165.9	9952.0	14.35	400/3/50	DN 200	930	3000	2079	1102	14
D13500IN-A	261.5	15692	212.9	12772.0	19.84	400/3/50	DN 250	1150	3390	2210	1850	12
Water Cooled												
D4620IN-W	81.8	4909	65.8	3948.0	5.23	400/3/50	DN 150	910	1940	1310	560	14
D5400IN-W	104.7	6282	84.1	5045.0	6.76	400/3/50	DN 150	910	1940	1310	526	14
D6600IN-W	133.6	8015	105.7	6343.0	9.00	400/3/50	DN 150	910	1940	1310	659	14
D9000IN-W	163.8	9825	131.6	7897.0	10.47	400/3/50	DN 200	930	3000	1927	1055	14
D11400IN-W	209.8	12588	168.5	10113.0	14.23	400/3/50	DN 200	930	3000	1927	1065	14
D13500IN-W	267.6	16055	214.6	12876.0	19.40	400/3/50	DN 250	2975	1165	1980	1730	12
D18000IN-W	372.1	22326	300.3	18017.0	23.70	400/3/50	DN 300	3575	1315	2230	2750	12
D22800IN-W	471.5	28291	380.0	22802.0	31.54	400/3/50	DN 300	3575	1315	2230	2785	12

Notes:

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.

Maximum Inlet Temperature

D12IN-A to D5400IN-A	60 °C
D6600IN-A to D13500IN-A	65 °C
D4620IN-W to D22800IN-W	65 °C

Maximum Ambient Temperature

D12IN-A to D950IN-A	50 °C
D1300IN-A to D13500IN-A	46 °C
D4620IN-W to D22800IN-W	46 °C

Water Connections BSP (inches)

D4620IN-W to D6600IN-W	1 1/2"
D9000IN-W to D22800IN-W	2"

If Pressostatic valve option installed on D13500IN-W, D18000IN-W & D22800IN-W, the inlet water connection changes to two 1 1/2" BSP connections.

Features

Features	Air Cooled						Water Cooled	
	D12IN-A to D180IN-A	D240IN-A to D480IN-A	D600IN-A to D950IN-A	D1300IN-A to D5400IN-A	D6600IN-A to D11400IN-A	D13500IN-A	D4620IN-W to D11400IN-W	D13500IN-W to D22800IN-W
Dew Point Indication	✓	✓	✓	✓	✓	✓	✓	✓
On/off Switch		✓	✓	✓	✓	✓	✓	✓
Terminal for Remote Alarm Signal	✓	✓	✓	✓	✓	✓	✓	✓
Remote Control				✓	✓	✓	✓	✓
Energy Saving Mode	✓	✓	✓	✓	✓	✓	✓	✓
Remote ON/OFF Switch				✓	✓	✓	✓	✓
High Pressure Switch	✓	✓	✓	✓	✓	✓	✓	✓
Variable Speed Fan	✓	✓						
Fan Pressure Switch			✓	✓	✓	✓		
History of Last 10 Alarms	✓	✓	✓					
History of Last 50 Alarms				✓	✓	✓	✓	✓
Hot Gas By-pass Valve		✓	✓	✓	✓	✓	✓	✓
Electronic No-loss Drain			✓	✓	✓	✓	✓	✓
Electronic Drain Valve	✓	✓						
Internal Pre-filter						✓		✓

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 Class	Solid - Maximum Number of Particles per m³			Water Pressure Dew Point °C	Oil & Oil Vapour mg/m³
	0.1-0.5 micron	0.5-1 micron	1-5 micron		
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	1000	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?

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 46°C ambient air conditions – which covers a large range of applications.

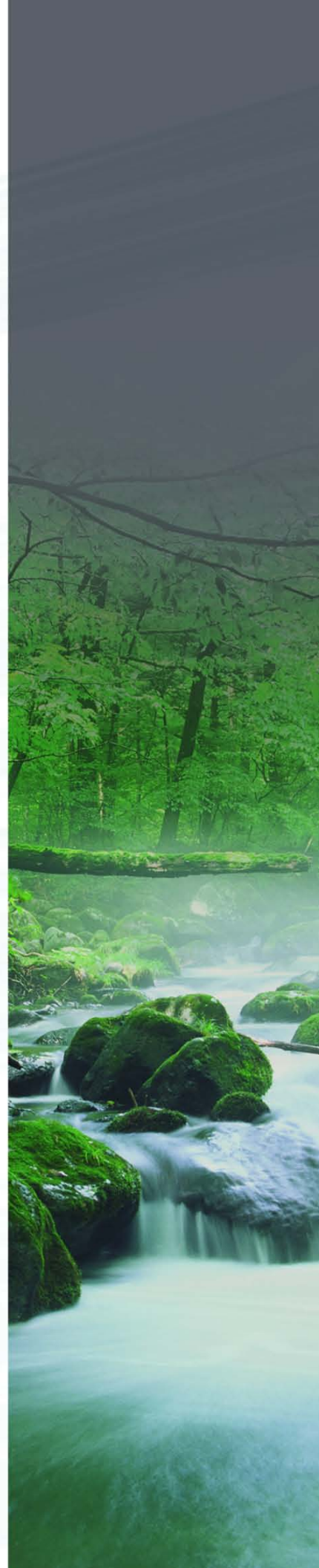
Environmental Friendly Refrigerant

D12IN-A to D480IN-A	R134A
D600IN-A to D5400IN-A	R507
D6600IN-A to D13500IN-A	R407C
D4620IN-W to D22800IN-W	R407C



Progress is *greener* with Ingersoll Rand

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.**



UltraCare

Helping you maintain a healthy business

A lot can (and will) happen over the life of a compressed air system. With ever increasing demands for machine availability, reducing production losses due to unplanned maintenance and downtime is essential.

That is why we offer UltraCare. A responsive, flexible, contract maintenance agreement, designed to provide Ingersoll Rand authorised scheduled maintenance ensuring increased system reliability and lowest energy. UltraCare eliminates unscheduled downtime and costly repairs.

Provided an Ingersoll Rand prefilter is installed you have 5 years peace of mind on the complete dryer.

Air Filtration

Ingersoll Rand's next generation of compressed air filters features our new Element Replacement Indicator (ERI). An illuminating approach to filter maintenance that yields real, measurable benefits for you, for your company and for our environment.

Using Ingersoll Rand filters you will achieve a low overall air treatment pressure drop. Proactive servicing ensures that the cost of pressure drop is kept to the lowest possible level. Reactive costs more money and can affect your productivity.

(see our Air Filtration brochure for further details).

All Inclusive!

- Unlimited running hours.
- Total peace of mind.

(for more details see our UltraCare brochure).





Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

air.ingersollrand.com

Ingersoll Rand Industrial Technologies
Swan Lane, Hindley Green
Wigan WN2 4EZ, UK
Tel: +44 (0) 1942 257171
Fax: +44 (0) 1942 254162
Email: asgesawebleads@irco.com



Ingersoll Rand compressors are not designed, intended or approved for breathing air applications. Ingersoll Rand does not approve specialised equipment for breathing air applications and assumes no responsibility or liability for compressors used for breathing air service.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of product shall be in accordance with Ingersoll Rand's standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.