Refrigerated Dryers

12 - 28,000 m³/hr

Our DIN refrigerated dryers provide a small footprint and deliver clean, reliable dry air that satisfies industry standards.

Designed for Optimum Efficiency

Using refrigerated dryers from Ingersoll Rand provides clean, dry air with less corrosion in the air distribution system, less damage to air-powered tools and a reduction in potential contamination during the production process. DIN dryers include multiple design features that ensure a constant dew point at all load levels. They also deliver continuous dry air performance that meets ISO 7183 industry standards.

Built-in Reliability

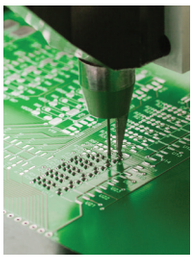
To ensure durability and reliability during operation, our family of refrigerated dryers use corrosion-resistant heat exchangers, an enhanced control-system and high-efficiency moisture-separation to ensure a steady long-term supply of dry air.

Affordable for Any Application

With flow rates ranging from 12 - 28,000 m³/hr, our reliable refrigerated dryers provide a complete, affordable solution for a wide variety of applications from small operations to large-scale industrial, including:

Dry Cleaning

Automotive



Electronics

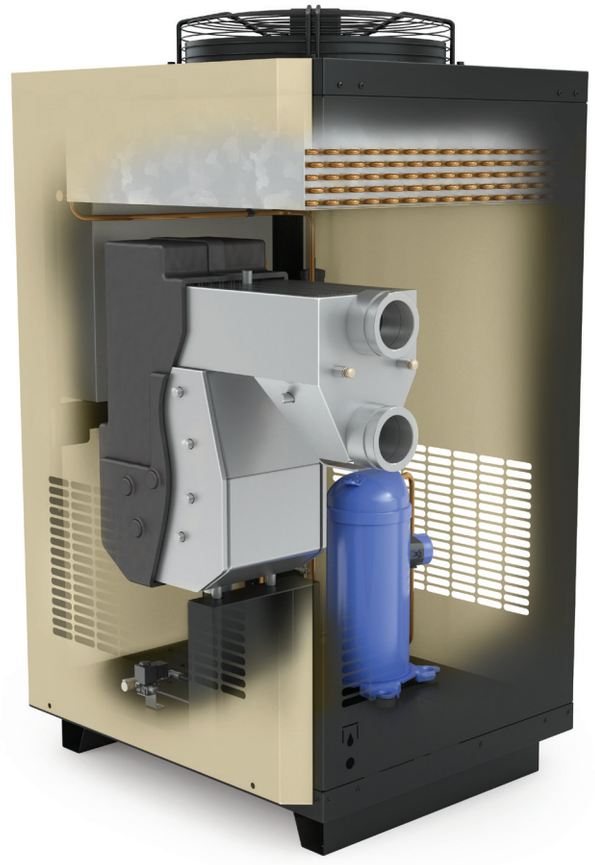
Chemical

Textile

Oil + Gas

Low Cost of Ownership

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



Bottom-Line Efficiency

- **Corrosion-resistant heat exchangers** provide more efficient throughput with less wasted energy
- **Built-in demister** efficiently removes all moisture
- **Adjustable and programmable electronic drain** valve minimizes air loss
- **Energy saving mode** shuts dryer off during low loads

Everyday Productivity

- **Small footprint and easy accessibility** simplify routine maintenance
- **Intuitive, advanced microprocessor control** lets you adjust and manage system parameters easily and efficiently
- **Air-cooled and water-cooled options** to best match your application
- **Reliable, fully hermetic compressors** use environmentally friendly refrigerant

PackageCARE™

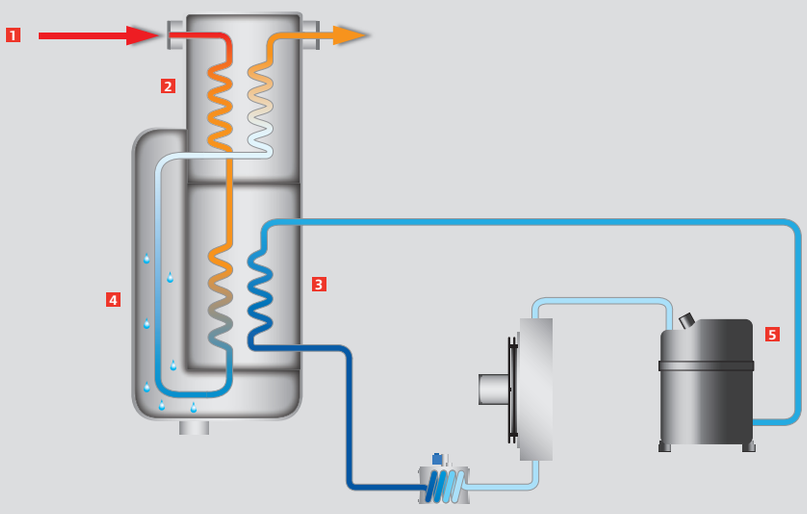
CARE Maintenance Programs | RELIABILITY FOR LIFE

Compressed air is critical to your operation. A proper maintenance strategy is crucial to avoiding unplanned, unbudgeted downtime and production interruptions. By choosing an Ingersoll Rand CARE maintenance service program — from full risk transfer to routine maintenance or parts coverage — you are investing in your future with a trusted global partner.

How Refrigerated Dryers Work

Ingersoll Rand refrigerated dryers use centrifugal separation to remove moisture at the coldest point in the system. As the air stream is cooled in the heat exchanger, moisture from the air stream condenses and is discharged through an electronic condensate removal drain. The result is highly efficient moisture removal and exceptionally dry, clean air.

Non-Cycling Refrigerated Dryers



1. Compressed air enters the dryer through the heat exchanger
2. Air is cooled by cold outgoing air in the pre-cooler/re-heater
3. Circulating refrigerant cools the compressed air
4. Advanced moisture separator design removes the condensed liquid, which is purged from the dryer using a smart drain
5. High-efficiency scroll compressor pumps refrigerant through system

Features	Air-Cooled						Water-Cooled	
	D12IN-A to D180IN-A	D240IN-A to D480IN-A	D600IN-A to D950IN-A	D1300IN to DA2250IN	D3000IN-A to D114000IN-A	D13500IN-A	D462OIN-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						✓		✓

Technical Specifications

Model	Class 5 < 7°C Dew Point m^3/min FAD 20°C	Class 5 < 7°C Dew Point m^3/hr FAD 20°C	Class 4 < 3°C Dew Point m^3/min FAD 20°C	Class 4 < 3°C Dew Point m^3/hr FAD 20°C	Nominal Power kW	Standard Power Supply V/Ph/Hz	Air Connections BSP in	Dimensions Width x Length x Height mm	Weight kg	Max. Working Pressure bar g
Air-Cooled										
D12IN	0.2	12	0.2	9.6	0.12	230/1/50	⅜"	305 x 360 x 408	18	14
D25IN	0.4	25	0.3	20.0	0.12	230/1/50	⅜"	305 x 360 x 408	18	14
D42IN	0.7	42	0.6	33.6	0.17	230/1/50	½"	390 x 432 x 454	26	14
D54IN	0.9	54	0.7	43.2	0.20	230/1/50	½"	390 x 432 x 454	26	14
D72IN	1.2	72	1.0	57.6	0.20	230/1/50	½"	390 x 432 x 454	26	14
D108IN	1.8	108	1.4	86.4	0.41	230/1/50	¾"	420 x 515 x 562	33	14
D144IN	2.4	144	1.9	115.2	0.47	230/1/50	¾"	420 x 515 x 562	38	14
D180IN	3.0	180	2.4	144	0.61	230/1/50	¾"	420 x 515 x 562	43	14
D240IN	4.0	240	3.2	192	0.90	230/1/50	1 ½"	500 x 717 x 980	76	14
D300IN	5.0	300	4.0	240	0.90	230/1/50	1 ½"	500 x 717 x 980	76	14
D360IN	6.0	360	4.8	288	0.90	230/1/50	1 ½"	500 x 717 x 980	76	14
D480IN	8.0	480	6.4	384	1.24	230/1/50	1 ½	500 x 717 x 980	82	14
D600IN	12.0	720	10.0	600	1.24	230/1/50	2"	779 x 720 x 1,360	128	14
D780IN	15.6	936	13.0	780	2.14	400/3/50	2"	779 x 720 x 1,360	158	14
D950IN	19.0	1,140	15.8	950	2.14	400/3/50	2"	779 x 720 x 1,360	162	13
DA1300IN	26.0	1,560	21.7	1,300	2.78	400/3/50	3"	806 x 1,012 x 1,539	234	14
DA1500IN	30.0	1,800	25.0	1,500	2.78	400/3/50	3"	806 x 1,012 x 1,539	234	14
DA1800IN	36.0	2,160	30.0	1,800	2.78	400/3/50	3"	806 x 1,012 x 1,539	234	14
DA2250IN	45.0	2,700	37.5	2,250	3.54	400/3/50	3"	806 x 1,012 x 1,539	260	14
D3000IN	60.0	3,600	50.0	3,000	6.29	400/3/50	DN 125	1,510 x 1,500 x 1,555	420	13
D4200IN	84.0	5,040	70.0	4,200	7.29	400/3/50	DN 125	1,510 x 1,500 x 1,555	520	13
D4800IN	96.0	5,760	80.0	4,800	9.52	400/3/50	DN 150	1,510 x 1,500 x 1,555	620	13
D5400IN	108.0	6,480	90.0	5,400	9.52	400/3/50	DN 150	1,510 x 1,500 x 1,555	720	13
D6650IN	133.0	7,980	110.8	6,650	10.98	400/3/50	DN 150	1,510 x 1,500 x 1,555	735	13
D9600IN	192.0	11,520	160.0	9,600	14.96	400/3/50	DN 200	2,270 x 1,590 x 1,570	1,150	13
D11500IN	230.0	13,800	191.7	11,500	18.16	400/3/50	DN 200	2,270 x 1,590 x 1,570	1,230	13
D13300IN	266.0	15,960	221.7	13,300	22.32	400/3/50	DN 200	3,025 x 1,590 x 1,570	1,350	13

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.

Ingersoll Rand

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