

Ingersoll Rand

Large Capacity Refrigerated Dryers



An Efficient, Reliable Source of Dry Air

Ingersoll Rand

Smart dryer design efficiently delivers a high-capacity, clean air supply for large-scale industrial, automotive, or petrochemical operations:

- **Energy Savings**– High-efficiency scroll compressors reduce energy by up to 20% through the use of a low pressure drop design, partial loading (larger units only) and zero loss drain valves.
- **Reliable Design**– Scroll compressors with corrosion-resistant materials 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.
- **Packaged Convenience**– Compact, fully self-contained units are easy to install, operate and maintain.
- **Environmentally Sound**– Energy-efficient design and ozone-friendly R407C refrigerant minimise environmental impacts.

High capacity meets high performance

Ingersoll Rand Large Capacity Refrigerated Dryers satisfy demands for high-quality clean, dry air in heavy-duty applications.

Everything in their design is tuned for economy and efficiency – from energy-saving compressor operation, to durable mechanical construction, to wide air paths for efficient drying performance even at low air velocities.

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



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.

Why Dry Compressed Air?

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.

Multi-stage filtering helps remove residual contaminants. Cleaner, drier air means less corrosion in air distribution systems, less damage to air-powered tools and reduced potential for contaminated production processes.



Corrosion



Spoiled paint finish



Damaged tools



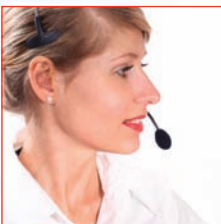
Models D4620IN-D11400IN

Technical Specifications

Model	Class 5 < 7°C Dew Point		Class 4 < 3°C Dew Point		Air Connections	Water Connections BSP F	Dimensions			Refrigerant		Max Working Pressure bar g	Net Weight kg
	m ³ /min FAD 20°C	m ³ /h FAD 20°C	m ³ /min FAD 20°C	m ³ /h FAD 20°C			Width mm	Length mm	Height mm	Type	Quantity kg		
Watercooled													
D4620IN-W	81.8	4909	65.8	3948	DN 150	1 1/2"	910	1940	1310	R407C	4.9	14	560
D5400IN-W	104.7	6282	84.1	5045	DN 150	1 1/2"	910	1940	1310	R407C	5.4	14	526
D6600IN-W	133.6	8015	105.7	6343	DN 150	1 1/2"	910	1940	1310	R407C	7.3	14	659
D9000IN-W	163.8	9825	131.6	7897	DN 200	2"	930	3000	1927	R407C	10.2	14	1055
D11400IN-W	209.8	12588	168.5	10113	DN 200	2"	930	3000	1927	R407C	11.5	14	1065
D13500IN-W	267.6	16055	214.6	12876	DN 250	2"	2975	1165	1980	R407C	14.0	12	1730
D18000IN-W	372.1	22326	300.3	18017	DN 300	2"	3575	1315	2230	R407C	32.0	12	2750
D22800IN-W	471.5	28291	380.0	22802	DN 300	2"	3575	1315	2230	R407C	40.0	12	2785
Aircooled													
D4620IN-A	81.0	4861	65.7	3943	DN 150	n/a	910	1940	1447	R407C	7.6	14	526
D5400IN-A	103.1	6184	83.6	5018	DN 150	n/a	910	1940	1447	R407C	9.5	14	551
D6600IN-A	127.0	7618	102.7	6162	DN 150	n/a	910	1940	1447	R407C	11.7	14	624
D9000IN-A	160.5	9630	130.4	7822	DN 200	n/a	930	3000	2079	R407C	14.8	14	1077
D11400IN-A	204.1	12249	165.9	9952	DN 200	n/a	930	3000	2079	R407C	19.0	14	1102
D13500IN-A	261.5	15692	212.9	12772	DN 250	n/a	1150	3390	2210	R407C	22.5	12	1850

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, condensing water inlet temp.= 30°C, condensing mean temperature = 40°C, stated pressure dew points in accordance with ISO 8573.1 standards.
- 2) All models supplied with R407C refrigerant and rated for 400V/3/50Hz power supply.
- 3) All models rated for maximum inlet temperature of 65°C and maximum ambient temperature of 46°C.
- 4) In case of different values between the refrigerant quantities shown in this table and the quantities written on dryer's data plate, the latter is valid.
- 5) For models D13500IN-W, D18000IN-W, D22800IN-W with pressostatic valve option installed, the inlet water connection changes to two 1 1/2" BSP connections.



UltraCare.....helping you to maintain a healthy business

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

That is why we offer UltraCare. A responsive, flexible, preventative maintenance program, designed to provide Ingersoll Rand authorised maintenance to ensure increased system reliability. UltraCare helps to eliminate unexpected downtime and costly repairs.



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.

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