

Subfreezing Dryer

360-1,600 m³/h (210-940 cfm) Air Flow

-20°C (-4°F) Pressure Dew Point



The revolutionary SF dryer is the only regenerative refrigerated dryer available in the compressed air market today. It combines the subfreezing pressure dew point (PDP) of a typical regenerative desiccant dryer, with the low operating and energy costs of a refrigerated dryer, to provide an extremely low total cost of ownership.

Best-in-class total cost of ownership, now with flow rates up to 1,600 m³/h

SF Dryer Features and Benefits

- **ISO Class 3 high-quality air** with a -20°C (-4°F) PDP delivered without interruption over the full range of compressor utilization (0-100%)
- **Ideal for systems** that have piping or pneumatic equipment exposed to subfreezing temperatures
- **Patented heat exchanger design**, with twin subfreezing chambers and a pre-cooler/re-heater, provides a subfreezing PDP while reducing energy and operating costs
- **No purge air required for regeneration**, significantly improving energy efficiency
- **No costly consumables** such as drum wheels or desiccant wheels that require replacement, lowering maintenance costs



- **Advanced controller** ensures high air quality through an intuitive high-resolution display and remote connectivity to onboard web pages
- **Plug-and-play**, featuring a 40% smaller footprint and full compatibility with all compressor types without requiring any costly compressor modifications or downstream particulate filtration
- **Smart solenoid drain valves** actuate based on demand to ensure complete moisture removal during each cycle
- **Compatible with any compressor technology** without a costly investment, providing versatility for any application





Ingersoll Rand - 50 Hz Performance						
Model	Capacity (FAD)* -20°C PDP m ³ /h (cfm)	Max. Operating Pressure barg (psia)	In/Out Connections BSP	Nominal Power kW	Dimensions (Length x Width x Height) mm (in)	Weight kg (lb)
D360SF-A	360 (200)	14 (200)	1-1/2"	1.46	1,063 x 899 x 1,767 (42 x 35 x 70)	352 (776)
D420SF-A	420 (250)	14 (200)	1-1/2"	1.78	1,063 x 899 x 1,670 (42 x 35 x 66)	352 (776)
D1600SF-A	1,600 (942)	11 (160)	3"	5.75	1,400 x 1,524 x 1,902 (55 x 60 x 75)	750 (1,653)

*Capacity measured under the following conditions: 35°C inlet temperature, 25°C ambient temperature, 7 barg

Features

- Solenoid no-loss drain with electronic feedback to the controller
- Removable panels for easy service access
- Xe90M programmable controller
- Victaulic® connections for easy maintenance
- R452A refrigerant (R449A optional)
- Air-cooled, optional water-cooled for D1600SF
- IP42 electrical protection
- Modbus connectivity
- Remote monitoring Helix connectivity
- Integrated heaters for low load (below 20% flow) and low inlet temperature



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