

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

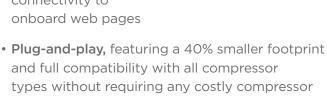
SF Dryer Features and Benefits

- 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 highresolution display and remote connectivity to onboard web pages

filtration



• Smart solenoid drain valves actuate based on demand to ensure complete moisture removal during each cycle

modifications or downstream particulate

 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 m³/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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