

Subfreezing Dryer

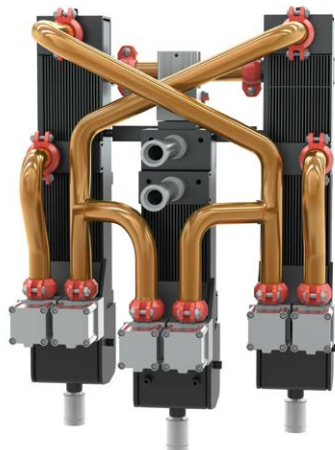
SF Dryer 360–420 m³/hr



The revolutionary SF dryer is the only regenerative refrigerant 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 refrigerant dryer, to provide an extremely low total cost of ownership.

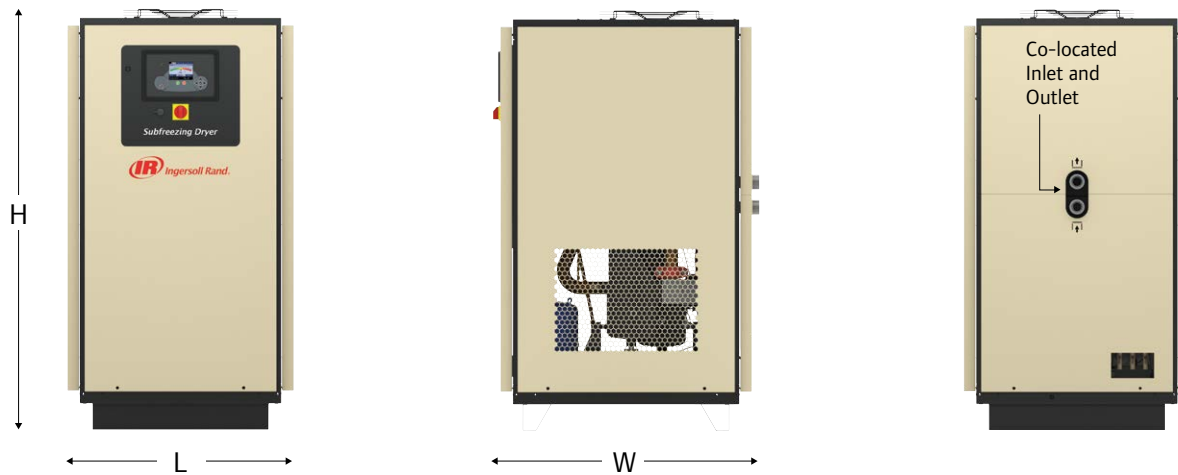
SF Dryer Features and Benefits

- **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 cost



- **Advanced controller** ensures high air quality through an intuitive high-resolution display and remote connectivity to onboard web pages
- **Easy to install**, 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





Ingersoll Rand – 50 Hz Performance						
Model	Capacity (FAD)* -20 °C PDP m ³ /hr	Max. Operating Pressure bar g	In/Out Connections	Nominal Power kW	Dimensions (Length x Width x Height) mm	Weight kg
D360SF-A	360	13	1-½" BSP	1.29	900 x 990 x 1600	290
D420SF-A	420	13	1-½" BSP	1.31	900 x 990 x 1600	320

*Capacity measured under the following conditions: FAD (Free Air Delivery) 20°C/1 bar a, pressure 7 bar g, ambient temperature 25°C, air inlet temperature 35°C

Standard features include:
Removable panels for easy service access
IP42 electrical protection
Solenoid no-loss drain with electronic feedback to the controller
Xe90M programmable controller
Victaulic® connections for easy maintenance
R404A refrigerant

Optional features include:
R452A refrigerant
IP54 electrical protection
Low temperature kit (ambient and/or inlet)
Water cooled/seawater cooled
Outdoor modification



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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.



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