Ingersoll Rand Air Compression Air Treatment

Reliability, Efficiency, Energy-saving

In Ingersoll Rand, we are well aware that air quality is the cornerstone of a successful air compressor system. Improper treatment of compressed air may have a profound impact on your operations. To this end, we have innovatively developed a series of high-quality air treatment to fully meet your drying needs.

High-quality clean compressed air plays a crucial role in the production process. Ingersoll Rand dryers can remove moisture from compressed air to a greater extent while ensuring reliability to prevent the products from being contaminated and attain a higher yield rate. Besides, they can also extend the maintenance interval and life cycle of pneumatic control valves and other air-consuming equipment, and thus effectively reduce operating costs of factories by enabling efficient production and low carbon emissions.

Our dryers are designed to optimize the entire air compressor system to guarantee high air quality, and also improve productivity and efficiency for smoother overall operation. By choosing Ingersoll Rand, you can be sure of flourishing business with our excellent air treatment solutions.


Pharmaceutical &
bio-fermentation process
Rubber, tire products
Process & instrument
Textiles, chemical fiber process
Food, beverages, tobacco production
Ingersoll Rand
Industrial
Applications

D-INR Series

Refrigerated Dryers

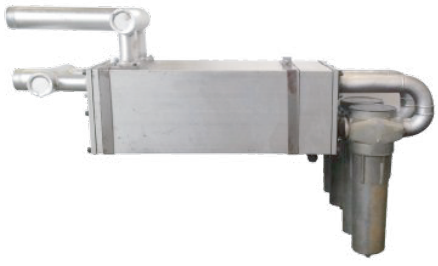
With D-INR series refrigerated dryers, Ingersoll Rand is committed to providing users with cleaner and drier air, and think more for our customers to always ensure higher efficiency, lower emissions, mature technology and perfect reliability for them.

Upgrade in refrigeration system for safety and reliability

- ISO 8573 Class 5 dew point and wider range of the highest operating temperature with standard configuration
- Safe operation of the system through multiple protections, including refrigerant high / low voltage protection, over current protection, refrigerant gas-liquid separator, and refrigerant drying filter
- Environmentally friendly refrigerants with stable & non-toxic property and a high refrigeration / thermal efficiency for improved performance of dryers, and reverse flow heat exchange design for extended life time of the unit, and energy-saving & environmental protection

New heat exchange design for a significant leap in performance

- Efficient three-in-one plate-fin heat exchanger, small size, light weight, high heat exchange efficiency, reduce pressure loss, to ensure lower energy consumption
- Precise pressure control of hot air bypass valve for higher operation efficiency of the unit by effectively preventing ice blockage and leakage, and the evaporator with a detachable design adopted for ease of maintenance and lower maintenance costs



Intelligent control system for safety and convenience

- Intuitive operation panel for indication of 5 working statuses, including operation, delay, remote, overload protection and refrigerant failure
- Dew point temperature display for direct observation of working effect of the dryer, and standard emergency stop switch equipped to ensure safety of the system
- Simple flowchart for easy understanding of the working principle of the refrigerated dryer

D-INR Series Refrigerated Dryers

Model	Capacity m^3/min	Connection size	Power V/Ph/hz	Dimensions (mm) L	W	H	Weight kg
Air-cooled							
D42INR-A-E	0.7	1" BSPT	220/1/50	550	330	645	43
D72INR-A-E	1.2	1" BSPT	220/1/50	550	330	645	46
D108INR-A-E	1.8	1" BSPT	220/1/50	550	330	695	61
D216INR-A-E	3.6	1.5" BSPT	220/1/50	700	420	860	102
D294INR-A-E	4.9	1.5" BSPT	220/1/50	700	420	860	102
D342INR-A-E	5.7	1.5" BSPT	220/1/50	760	480	870	133
D390INR-A-E	6.5	1.5" BSPT	220/1/50	760	480	870	135
D444INR-A-E	7.4	1.5" BSPT	220/1/50	760	480	870	177
D540INR-A-E	9	2" BSPT	220/1/50	950	600	1200	207
D690INR-A-E	11.5	2" BSPT	220/1/50	950	600	1200	246
D810INR-A-E	13.5	2.5" BSPT	380/3/50	1160	650	1300	273
D990INR-A-E	16.5	2.5" BSPT	380/3/50	1160	650	1300	298
D1050INR-A-E	17.5	2.5" BSPT	380/3/50	1160	650	1300	365
D1170INR-A-E	19.5	3" BSPT	380/3/50	1260	760	1400	425
D1380INR-A-E	23	3" BSPT	380/3/50	1260	760	1400	492
D1590INR-A-E	26.5	3" BSPT	380/3/50	1320	800	1400	498
D1740INR-A-E	29	3" BSPT	380/3/50	1320	800	1400	540
D2100INR-A-E	35	4" FLG	380/3/50	1320	1040	1800	613
D2340INR-A-E	39	4" FLG	380/3/50	1320	1040	1800	659
D2700INR-A-E	45	4" FLG	380/3/50	1320	1040	1800	726
D3090INR-A-E	51.5	5" FLG	380/3/50	1600	1280	1900	829
D3480INR-A-E	58	5" FLG	380/3/50	1600	1280	1900	915
D4080INR-A-E	68	6" FLG	380/3/50	1860	1350	1900	1100
D4200INR-A-E	70	6" FLG	380/3/50	1860	1350	1900	1233
D4560INR-A-E	76	6" FLG	380/3/50	1900	1480	2120	1445
D4800INR-A-E	80	6" FLG	380/3/50	1900	1480	2120	1496
D5520INR-A-E	92	6" FLG	380/3/50	2040	1960	2120	1758
D5940INR-A-E	99	6" FLG	380/3/50	2040	1960	2120	1800
D7680INR-A-E	128	6" FLG	380/3/50	1900	2500	2160	1980
D8700INR-A-E	145	8" FLG	380/3/50	1900	2500	2340	2100
Water-cooled							
D690INR-W-E	11.5	2" BSPT	220/1/50	850	500	920	255
D810INR-W-E	13.5	2.5" BSPT	380/3/50	1010	600	1020	288
D990INR-W-E	16.5	2.5" BSPT	380/3/50	1010	600	1020	297
D1050INR-W-E	17.5	2.5" BSPT	380/3/50	1010	600	1020	376
D1170INR-W-E	19.5	3" BSPT	380/3/50	1110	630	1070	442
D1380INR-W-E	23	3" BSPT	380/3/50	1110	630	1070	502
D1590INR-W-E	26.5	3" BSPT	380/3/50	1200	660	1120	505
D1740INR-W-E	29	3" BSPT	380/3/50	1200	660	1120	572
D2100INR-W-E	35	4" FLG	380/3/50	1310	960	1470	648
D2340INR-W-E	39	4" FLG	380/3/50	1310	960	1470	696
D2700INR-W-E	45	4" FLG	380/3/50	1310	960	1470	762
D3090INR-W-E	51.5	5" FLG	380/3/50	1360	1020	1520	875
D3480INR-W-E	58	5" FLG	380/3/50	1360	1020	1520	977
D4080INR-W-E	68	6" FLG	380/3/50	1560	1200	1550	1188
D4200INR-W-E	70	6" FLG	380/3/50	1560	1200	1550	1276
D4560INR-W-E	76	6" FLG	380/3/50	1560	1480	1550	1432
D4800INR-W-E	80	6" FLG	380/3/50	1560	1480	1550	1467
D5520INR-W-E	92	6" FLG	380/3/50	1820	1580	1600	1698
D5940INR-W-E	99	6" FLG	380/3/50	1820	1580	1600	1746
D7680INR-W-E	128	6" FLG	380/3/50	1820	1580	1600	1825
D8700INR-W-E	145	8" FLG	380/3/50	1820	2060	1760	2250

Notes:1. Standard conditions: Inlet P = 7Barg; Inlet T = 45°C, cooling water T = 30°C. Dewpoint conform to ISO 8573-1 Class 5

2. For any special requests, please contact with IR sales representative

S Series

Refrigerated Dryer

As one of the core equipment of the compressed air system, the refrigerated dryer effectively reduces the temperature of the compressed air through a cooling medium, causing water vapor to condense and separate before being discharged, achieving air drying. The Ingersoll Rand S series refrigerated dryer is equipped with high-efficiency rotary compressors, high-efficiency refrigerants, and a newly designed three in one heat exchanger, ensuring stable operation of the unit under high temperature conditions and safeguarding customer safety production.

Product Information

- Non-cycling refrigerated dryer
- Rated pressure dew point 2~10 °C
- Rated processing capacity of 0.7~16.5 m3/min
- Full range of air-cooled models

Product Highlights

Adaptability to extreme working conditions

Specially designed for summer environments, it can operate stably under extreme conditions of 45 °C ambient temperature/60 °C inlet temperature, demonstrating excellent weather resistance.

Efficient rotary compressor

The entire series of HIGHLY rotary compressors are equipped with high-efficiency R404A refrigerant to improve refrigeration efficiency and ensure dew point stability.

Innovative 3 in 1 heat exchanger

The newly designed 3 in 1 heat exchanger is equipped with a large pre cooler module to reduce energy consumption and improve system stability.

Intelligent controller module

Equipped with an intelligent controller module, standard with delayed startup and low-temperature shutdown protection functions, easy to operate, and efficient management.

S Series Refrigerated Dryer

Model	Capacity m^3/min	Power Supply V/Ph/hz	Air Interface Diameter	Nominal Power kW	Dimensions (mm) L	W	H	Weight kg
D42Rs-A	0.7	220/1/50	0.75″	0.45	470	360	680	42
D72Rs-A	1.2	220/1/50	0.75″	0.45	470	360	680	48
D108Rs-A	1.8	220/1/50	1″	0.51	550	380	690	63
D216Rs-A	3.6	220/1/50	1.5″	0.67	650	450	780	81
D294Rs-A	4.9	220/1/50	1.5″	0.80	760	500	780	95
D342Rs-A	5.7	220/1/50	1.5″	0.93	760	500	850	102
D390Rs-A	6.5	220/1/50	1.5″	0.99	760	500	850	118
D444Rs-A	7.4	220/1/50	1.5″	1.06	760	500	850	124
D540Rs-A	9.0	220/1/50	1.5″	1.16	850	520	875	185
D690Rs-A	11.5	220/1/50	2″	1.88	900	600	1100	246
D810Rs-A	13.5	220/1/50	2″	2.04	900	600	1100	254
D990Rs-A	16.5	380/3/50	2.5″	2.90	1100	650	1200	276

Note: Data refer to the following conditions: ambient temperature：25°C, inlet temperature：35°C, inlet pressure：7 barg.

R Series High-efficiency Regenerative Desiccant Dryers

D-ILRi/D-IERi Series

Heatless & Micro-heat Regenerative Desiccant Dryers

Ingersoll Rand D-ILRi and D-IERi desiccant dryers adopts heatless and micro-heat technology, in combination with double drying towers and valve control, to achieve highly efficient after-treatment of compressed air and outstanding product reliability.

Product Features:

- Reliable performance & extended life time
- Intelligent control for high accuracy and efficiency
- Integral structure for ease of installation
- Excellent design for outstanding performance
- Selection of quality materials to be aesthetically pleasing and robust
- Optimized customer experience with more functions

Advanced Dryer Tower Design

- High-Quality Materials and Optimized Margin: The tower body is manufactured using selected high-quality materials, with full consideration given to the adsorbent margin during the design process to ensure long-term stable operation of the equipment.
- Patented Diverging Flow Design without Dead Zones: A patented diverging flow structure is adopted to completely eliminate dead zones, ensuring uniform airflow distribution within the tower and enhancing drying efficiency.

High-Quality Pressure Reducing Valve

- Precise Pressure Control: The pressure reducing valve can accurately control the gas pressure actuating the control valve components within the range of 0.45-0.6 MPa, effectively preventing damage to the pneumatic valve actuator due to excessive pressure.
- Field Adjustability: The pressure reducing valve supports manual adjustment based on the size of the incoming gas at the site, allowing flexible adaptation to different working environments.

Intelligent Control System

- Precise Cyclic Switching: The intelligent control system can accurately control the cyclic switching of the desiccant dryer, ensuring accurate operation.
- Real-Time Status Management: The system displays key operational statuses such as drying, regeneration, and pressure equalization in real-time, allowing operators to monitor the equipment's operation at any time.
- Flexible Switching Cycle: The system defaults to a standard switching cycle but also supports manual settings based on actual field conditions, meeting diverse needs.

Technical Data

D-ILRi 20 Series Heatless Regenerative Desiccant Dryers

- Air flow: 1.2-127m3/min
- Max. working pressure: 1.0MPa
- Rated working pressure: 0.7MPa
- Max. inlet temperature: 45℃
- Pressure dew point: -20℃
- Regeneration air consumption: ≤14%

D-IERi 20 Series Microo-heat Regenerative Desiccant Dryers

- Air flow: 1.2-127m3/min
- Max. working pressure: 1.0MPa
- Rated working pressure: 0.7MPa
- Max. inlet temperature: 45℃
- Pressure dew point: -20℃
- Regeneration air consumption: ≤8%

Model	Flow m^3/min	Power V/Ph/hz	Air interface pipe diameter mm	Dimensions (mm) L	W	H	Weight kg
D-ILRi 20 series heatless desiccant dryers							
D72ILRi20	1.2	220/1/50	1/2" BSPT	730	480	1550	132
D126ILRi20	2.1	220/1/50	3/4" BSPT	850	500	1620	144
D216ILRi20	3.6	220/1/50	3/4" BSPT	950	550	1620	168
D282ILRi20	4.7	220/1/50	1" BSPT	1000	600	1660	321
D312ILRi20	5.2	220/1/50	1" BSPT	1000	600	1660	328
D408ILRi20	6.8	220/1/50	1-1/2" BSPT	1000	600	1660	358
D540ILRi20	9	220/1/50	1-1/2" BSPT	1250	650	1740	405
D690ILRi20	11.5	220/1/50	1-1/2" BSPT	1250	650	1740	427
D840ILRi20	14	220/1/50	2" BSPT	1350	700	1830	485
D1050ILRi20	17.5	220/1/50	2" BSPT	1350	700	1830	565
D1380ILRi20	23	220/1/50	2-1/2" BSPT	1450	800	1920	814
D1710ILRi20	28.5	220/1/50	3" BSPT	1680	950	2060	955
D2040ILRi20	34	220/1/50	3" BSPT	1750	950	2070	1112
D2550ILRi20	42.5	220/1/50	DN100 FLG	1850	1000	2250	1238
D3120ILRi20	52	220/1/50	DN100 FLG	2000	1100	2300	1537
D3600ILRi20	60	220/1/50	DN125 FLG	2100	1200	2520	1818
D4500ILRi20	75	220/1/50	DN125 FLG	2200	1250	2550	2156
D5220ILRi20	87	220/1/50	DN125 FLG	2200	1250	2550	2182
D5940ILRi20	99	220/1/50	DN150 FLG	2200	1400	2820	2832
D6780ILRi20	113	220/1/50	DN150 FLG	2200	1400	2820	2860
D7620ILRi20	127	220/1/50	DN150 FLG	2300	1400	2830	3820
D-IERi 20 series micro-heat desiccant dryers							
D72IERi20	1.2	220/1/50	1/2" BSPT	730	480	1550	145
D126IERi20	2.1	220/1/50	3/4" BSPT	850	500	1620	152
D216IERi20	3.6	220/1/50	3/4" BSPT	950	550	1620	186
D282IERi20	4.7	220/1/50	1" BSPT	1000	600	1660	347
D312IERi20	5.2	220/1/50	1" BSPT	1000	600	1660	352
D408IERi20	6.8	220/1/50	1-1/2" BSPT	1000	600	1660	395
D540IERi20	9	220/1/50	1-1/2" BSPT	1250	650	1740	447
D690IERi20	11.5	220/1/50	1-1/2" BSPT	1250	650	1740	456
D840IERi20	14	380/3/50	2" BSPT	1350	700	1830	533
D1050IERi20	17.5	380/3/50	2" BSPT	1350	700	1830	611
D1380IERi20	23	380/3/50	2-1/2" BSPT	1450	800	1920	867
D1710IERi20	28.5	380/3/50	3" BSPT	1680	950	2060	1009
D2040IERi20	34	380/3/50	3" BSPT	1750	950	2070	1145
D2550IERi20	42.5	380/3/50	DN100 FLG	1850	1000	2250	1302
D3120IERi20	52	380/3/50	DN100 FLG	2000	1100	2300	1611
D3600IERi20	60	380/3/50	DN125 FLG	2100	1200	2520	1912
D4500IERi20	75	380/3/50	DN125 FLG	2200	1250	2550	2280
D5220IERi20	87	380/3/50	DN125 FLG	2200	1250	2550	2312
D5940IERi20	99	380/3/50	DN150 FLG	2200	1400	2820	2988
D6780IERi20	113	380/3/50	DN150 FLG	2200	1400	2820	3046
D7620IERi20	127	380/3/50	DN150 FLG	2300	1400	2830	3982

Notes: 1. Data refer to standard operating conditions: ambient temperature: 38℃, inlet temperature: 38℃, working pressure 7 barg.
2. Max. ambient temperature: 40℃, max. inlet temperature: 45℃, max. working pressure: 10 barg.

Technical Data

D-ILRi 40 Series Heatless Regenerative Desiccant Dryers

- Air flow: 1.2-127m3/min
- Max. working pressure: 1.0MPa
- Rated working pressure: 0.7MPa
- Max. inlet temperature: 45°C
- Pressure dew point: -40°C
- Regeneration air consumption: ≤14%

D-IERi 40 Series Microo-heat Regenerative Desiccant Dryers

- Air flow: 1.2-127m3/min
- Max. working pressure: 1.0MPa
- Rated working pressure: 0.7MPa
- Max. inlet temperature: 45°C
- Pressure dew point: -40°C
- Regeneration air consumption: ≤8%

Model	Flow m^3/min	Power V/Ph/hz	Air interface pipe diameter mm	Dimensions (mm) L	W	H	Weight kg
D-ILRi 40 series heatless desiccant dryers							
D72ILRi40	1.2	220/1/50	1/2″ BSPT	730	480	1550	132
D126ILRi40	2.1	220/1/50	3/4″ BSPT	950	550	1630	168
D216ILRi40	3.6	220/1/50	1″ BSPT	1050	600	1680	321
D282ILRi40	4.7	220/1/50	1-1/2″ BSPT	1050	600	1680	342
D312ILRi40	5.2	220/1/50	1-1/2″ BSPT	1050	600	1680	358
D408ILRi40	6.8	220/1/50	1-1/2″ BSPT	1250	650	1760	405
D540ILRi40	9	220/1/50	2″ BSPT	1350	700	1840	442
D690ILRi40	11.5	220/1/50	2″ BSPT	1350	700	1840	485
D840ILRi40	14	220/1/50	2″ BSPT	1350	700	1840	565
D1050ILRi40	17.5	220/1/50	2-1/2″ BSPT	1450	800	1930	814
D1380ILRi40	23	220/1/50	3″ BSPT	1680	950	2060	955
D1710ILRi40	28.5	220/1/50	3″ BSPT	1750	950	2080	1112
D2040ILRi40	34	220/1/50	DN100 FLG	1850	1000	2150	1238
D2550ILRi40	42.5	220/1/50	DN100 FLG	2000	1100	2260	1537
D3120ILRi40	52	220/1/50	DN125 FLG	2100	1200	2430	1818
D3600ILRi40	60	220/1/50	DN125 FLG	2200	1250	2430	2156
D4500ILRi40	75	220/1/50	DN150 FLG	2320	1400	2680	2832
D5220ILRi40	87	220/1/50	DN150 FLG	2320	1400	2680	2860
D5940ILRi40	99	220/1/50	DN150 FLG	2420	1450	2680	3385
D6780ILRi40	113	220/1/50	DN150 FLG	2420	1450	2680	3820
D7620ILRi40	127	220/1/50	DN150 FLG	2620	1500	2750	4226
D-IERi 40 series micro-heat desiccant dryers							
D72IERi40	1.2	220/1/50	1/2″ BSPT	730	480	1550	145
D126IERi40	2.1	220/1/50	3/4″ BSPT	950	550	1650	186
D216IERi40	3.6	220/1/50	1″ BSPT	1050	600	1720	347
D282IERi40	4.7	220/1/50	1-1/2″ BSPT	1050	600	1720	385
D312IERi40	5.2	220/1/50	1-1/2″ BSPT	1050	600	1720	395
D408IERi40	6.8	220/1/50	1-1/2″ BSPT	1250	650	1800	447
D540IERi40	9	380/3/50	2″ BSPT	1350	700	1900	496
D690IERi40	11.5	380/3/50	2″ BSPT	1350	700	1900	533
D840IERi40	14	380/3/50	2″ BSPT	1350	700	1900	611
D1050IERi40	17.5	380/3/50	2-1/2″ BSPT	1450	800	1980	867
D1380IERi40	23	380/3/50	3″ BSPT	1680	950	2100	1009
D1710IERi40	28.5	380/3/50	3″ BSPT	1750	950	2110	1145
D2040IERi40	34	380/3/50	DN100 FLG	1850	1000	2190	1302
D2550IERi40	42.5	380/3/50	DN100 FLG	2000	1100	2300	1611
D3120IERi40	52	380/3/50	DN125 FLG	2100	1200	2450	1912
D3600IERi40	60	380/3/50	DN125 FLG	2200	1250	2470	2280
D4500IERi40	75	380/3/50	DN150 FLG	2320	1400	2720	2988
D5220IERi40	87	380/3/50	DN150 FLG	2320	1400	2720	3046
D5940IERi40	99	380/3/50	DN150 FLG	2420	1450	2720	3506
D6780IERi40	113	380/3/50	DN150 FLG	2420	1450	2720	3982
D7620IERi40	127	380/3/50	DN150 FLG	2620	1500	2800	4396
D9300IERi40	155	380/3/50	DN200 FLG	3000	1750	2900	5060

Notes: 1. Data refer to standard operating conditions: ambient temperature: 38°C, inlet temperature: 38°C, working pressure 7 barg.
2. Max. ambient temperature: 40°C, max. inlet temperature: 45°C, max. working pressure: 10 barg.

D-IBRi Series

Heating Air-blowing Regenerative Desiccant Dryers

Ingersoll Rand D-IBRi series desiccant dryers adopt the heat blowing principle to achieve efficient drying of compressed air, which greatly reduces the loss of compressed air and saves energy.

- The ambient air drawn by the blower is heated by an external electric heater before entering the regeneration tower for thermal regeneration of the adsorbent;
- After a certain period of thermal regeneration, the heater is turned off before using a blower for cold blowing regeneration and cooling-off;
- When the temperature in the adsorption tower drops to a certain point, the dry air from the outlet of the working tower is used for cold blowing regeneration in the regeneration tower at an average air consumption ≤ 3% during the cycle, so as to finally complete the regeneration and activation of the adsorbent in the regeneration tower;
- In case of low outlet air quality requirements (e.g. atmospheric dew point ≤ -40°C), or low ambient temperature, only a blower is be used for cold blowing regeneration without introducing dry air from the outlet of the working tower, resulting in no regeneration air consumption (when the regeneration air consumption is zero).

Product Features

- A dual eccentric PTFE sealed butterfly valve is adopted for reliable performance and long service life
- A high quality two-position five-way solenoid valve is used to control pneumatic valves to ensure the reliable operation of the equipment.
- A blower with reliable performance is used to guarantee normal operation of the dryer system.
- Unique design ensures uniform distribution of dry regeneration airflow, eliminating "short circuit" phenomenon caused by flow rate high at the center and low at the edges.
- Tower body and high-temperature pipes are wrapped with patterned aluminum sheet for insulation against energy waste.
- Specific pressurization function ensures uninterrupted air supply during dryer switching.
- Multiple measures are taken to ensure that the laminar bed is not loose, the desiccant is not worn, and the use life of the desiccant is extended.
- The air flows through the dryer at a slower speed for longer contact time with the desiccant, thus maintaining the dew point and reducing pressure loss.
- Pressure gauge and safety valve is equipped on every tower body.
- An appropriate cooling-off period is included in the regeneration cycle to prevent peak dew point during conversion.
- Standard configuration: programmable logic controller (PLC) & human-machine interaction interface.

Technical Data

- Working pressure range: 0.7~1.0Mpa
- Average cycle regeneration gas consumption: ≤3% (zero air consumption: 0%)
- Nominal pressure dew point: -40℃ (optional -70℃)
- Rated inlet temperature: ≤38℃
- Adsorbent: active aluminum oxide (with non-standard option of molecular sieve / silica gel)
- Cycle time: 8 hours
- Power supply: 380V/3PH/50Hz
- Pressure drop: ≤0.02MPa
- Control mode: fully automatic PLC control

D-IBRi Series Heated Air Blower Regenerative Desiccant Dryers

Model	Flow	Power	Air interface pipe	Installed power	Dimensions (mm)			Weight
	m^3/min	V/Ph/hz	diameter mm	kW	L	W	H	kg
D840IBRi	14	380/3/50	DN50	18.4	1500	800	2320	1320
D1080IBRi	18	380/3/50	DN65	20.5	1500	800	2380	1360
D1320IBRi	22	380/3/50	DN80	23.5	1700	1050	2400	1530
D1500IBRi	25	380/3/50	DN80	23.5	1700	1050	2400	1570
D1980IBRi	33	380/3/50	DN100	29.5	1900	1100	2520	2130
D2640IBRi	44	380/3/50	DN100	43.5	2200	1150	2540	2890
D3000IBRi	50	380/3/50	DN100	43.5	2200	1150	2540	2960
D3600IBRi	60	380/3/50	DN125	54	2340	1250	2680	3750
D4200IBRi	70	380/3/50	DN125	71	3300	1900	2780	5320
D4800IBRi	80	380/3/50	DN125	71	3300	1900	2780	5360
D5400IBRi	90	380/3/50	DN150	77	3360	2000	2860	7440
D6000IBRi	100	380/3/50	DN150	77	3360	2000	2860	7480
D7200IBRi	120	380/3/50	DN150	99	3600	2200	3030	8650
D9000IBRi	150	380/3/50	DN200	123	3800	2300	3330	9800
D12000IBRi	200	380/3/50	DN200	153.5	4200	2450	3400	11400

D-IBRi ZP Series Zero Purge Heated Air Blower Regenerative Dryers

Model	Flow	Power	Air interface pipe	Installed power	Dimensions (mm)			Weight
	m^3/min	V/Ph/hz	diameter mm	kW	L	W	H	kg
D840IBRi ZP	14	380/3/50	DN50	18.4	1800	1400	2400	1970
D1080IBRi ZP	18	380/3/50	DN65	20.5	1800	1400	2400	2050
D1320IBRi ZP	22	380/3/50	DN80	23.5	2200	1500	2500	2190
D1500IBRi ZP	25	380/3/50	DN80	23.5	2200	1500	2500	2250
D1980IBRi ZP	33	380/3/50	DN100	29.5	2200	1700	2550	2530
D2640IBRi ZP	44	380/3/50	DN100	43.5	2400	1850	2600	3600
D3000IBRi ZP	50	380/3/50	DN100	43.5	2400	1850	2600	3760
D3600IBRi ZP	60	380/3/50	DN125	54	2720	1960	2750	4285
D4200IBRi ZP	70	380/3/50	DN125	71	3500	2200	2800	5600
D4800IBRi ZP	80	380/3/50	DN125	71	3500	2200	2800	5800
D5400IBRi ZP	90	380/3/50	DN150	77	3480	2300	2900	6980
D6000IBRi ZP	100	380/3/50	DN150	77	3480	2300	2900	7750
D7200IBRi ZP	120	380/3/50	DN150	99	3600	2720	3050	8740
D9000IBRi ZP	150	380/3/50	DN200	123	4000	2800	3350	10540
D12000IBRi ZP	200	380/3/50	DN200	153.5	4250	3200	3460	13500

Note: Data refer to the following conditions: ambient temperature：38°C, inlet temperature：38°C, inlet pressure：7 barg.

HCD Series

Heat-of-Compression (HOC) Regenerative Desiccant Dryers

With Ingersoll Rand HCD series HOC regenerative desiccant dryers, the desiccant saturated after adsorption is regenerated with the hot air discharged from the compressor, instead of electric heating, and then cooled through partial dry air blowing, if required, to enhance its drying capability.

HCD series dryers can only be used in combination with air compressors with oil-free lubrication. This is because, when high temperature oil-containing compressed air is used for desiccant regeneration, it will contaminate and fail the desiccant, and impair the performance of the dryers; also, oil may be accumulated over time during high temperature regeneration, resulting in potential safety hazards.

Configuration

Cryogenic Temperature Model

- Working pressure range: 0.7~1.0Mpa
- Average air consumption: 3% (zero air consumption: 0%)
- Nominal pressure dew point: -40℃
- Inlet temperature: ≥120℃
- Simens PLC
- TD-400 text display
- Near / remote control
- Stainless steel pneumatic control pipeline assembly

High Temperature Model

- Working pressure range: 0.7~1.0Mpa
- Average air consumption: 3% (zero air consumption: 0%)
- Nominal pressure dew point: -40℃
- Inlet temperature:≥180℃
- Simens PLC
- TD-400 text display
- Near / remote control
- Stainless steel pneumatic control pipeline assembly

Model HCD	Flow m^3/min	Overall power kW	Max cooling water flow t/h	Air interface pipe diameter mm	Dimensions (mm) L	W	H	Weight kg
HCD-H series high temperature HOC dyers								
HCD20H	19	0.2	14.5	DN65	2800	1400	2700	1800
HCD22H	23	0.2	15.9	DN65	2800	1400	2700	1980
HCD25H	26	0.2	18.1	DN65	2800	1400	2700	2250
HCD35H	35	0.2	25.3	DN80	2900	1500	2750	3150
HCD45H	45	0.2	32.5	DN100	3000	1600	2800	4050
HCD50H	52.9	0.2	38.3	DN100	3000	1600	2800	4680
HCD60H	62.0	0.2	44.8	DN125	3200	1700	2850	5580
HCD70H	69.0	0.2	50.6	DN125	3600	1900	2950	6300
HCD75H	76.9	0.2	55.6	DN125	4100	2200	3050	6900
HCD85H	84.1	0.2	61.5	DN150	4100	2200	3150	7500
HCD-H series high temperature HOC dyers								
HCD120L	120	51.2	54	DN150	3800	2800	3100	9000
HCD150L	150	69.2	68	DN150	3900	3000	3200	10800
HCD180L	180	84.2	81	DN200	4200	3200	3300	13200
HCD200L	200	93.2	90	DN200	4400	3500	3500	14700
HCD250L	250	96.2	112	DN250	4500	4000	4100	18300
HCD300L	300	138.2	135	DN250	5100	4500	4500	21900
HCD350L	350	160.2	160	DN250	5600	4500	4500	22900
HCD400L	400	185.2	180	DN300	6000	4700	4700	23900
HCD-H ZP series high temperature HOC dyers								
HCD20H ZP	19	0.2	18.2	DN65	2850	1400	2700	1900
HCD22H ZP	23	0.2	20	DN65	2850	1400	2700	2080
HCD25H ZP	26	0.2	22.7	DN65	2850	1400	2700	2350
HCD35H ZP	35	0.2	32.5	DN80	3000	1500	2850	3260
HCD45H ZP	45	0.2	40.8	DN100	3200	1600	2850	4170
HCD50H ZP	52.9	0.2	48	DN100	3200	1600	2850	4800
HCD60H ZP	62.0	0.2	56.3	DN125	3400	1700	2900	5710
HCD70H ZP	69.0	0.2	63.5	DN125	3600	2000	2950	6520
HCD75H ZP	76.9	0.2	69.8	DN125	4100	2200	3050	7130
HCD85H ZP	84.1	0.2	77.1	DN150	4100	2200	3150	7760
HCD-L ZP series cryogenic temperature HOC dyers								
HCD120L ZP	120	66.2	86.8	DN150	5000	2900	3100	9920
HCD150L ZP	150	90.2	95.2	DN200	4900	3000	3200	12400
HCD180L ZP	180	120.2	114.2	DN200	5200	3200	3300	14880
HCD200L ZP	200	132.2	127	DN200	5400	3500	3500	16430
HCD250L ZP	250	165.2	159	DN250	5500	4000	4100	21080
HCD300L ZP	300	180.2	190	DN250	6100	4500	4500	23800
HCD350L ZP	350	210.2	222	DN250	6600	4500	4500	24900
HCD400L ZP	400	240.2	254	DN300	7100	4700	4700	25900

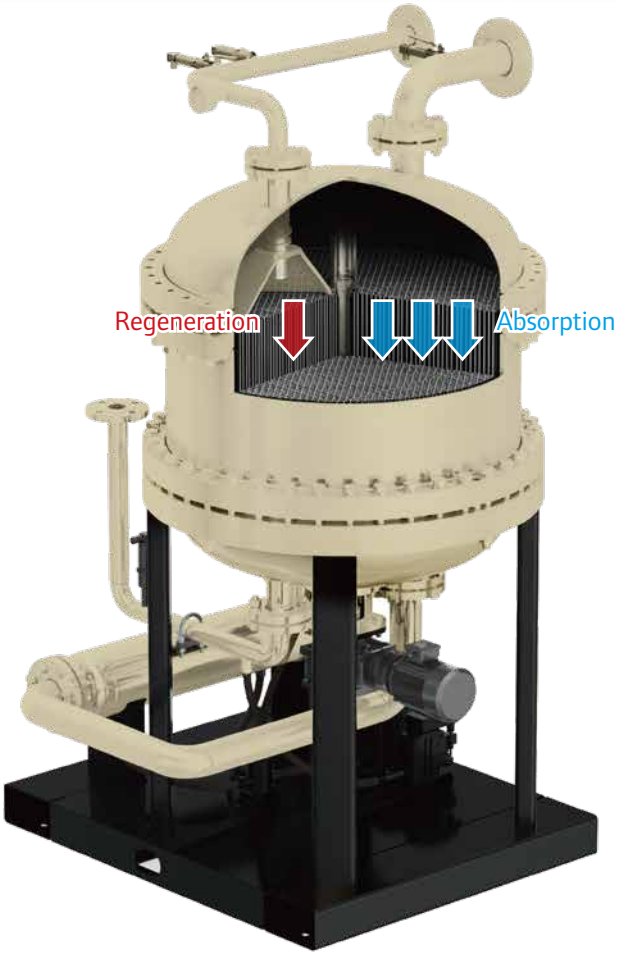
Note: the dimensions and air inlet & outlet pipe diameter of all dryers are subject to the final outline drawings.

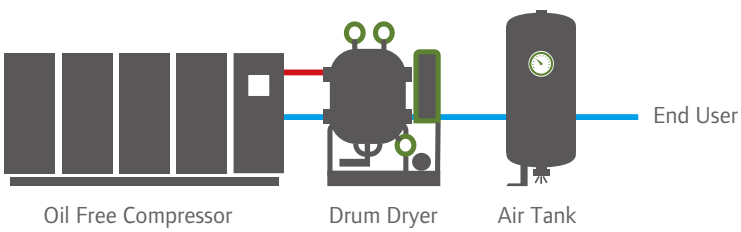
IRDR Series

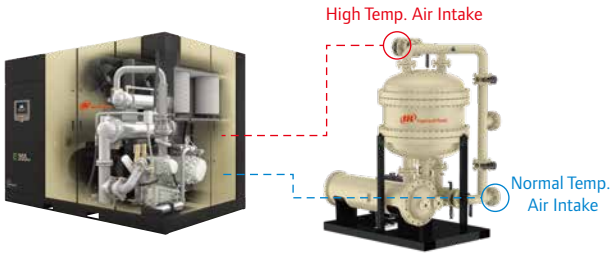
Drum Desiccant Dryer

The wheel was invented in 1950 and has been used as a mature technology in various areas requiring normal pressure drying, such as new wind systems, room dehumidification and purification. IRDR is to change the design of the rotating wheel of normal pressure to be suitable for the pressure state. The wheel is a core spare part of the absorbent, so that when compressed air passes, moisture stays on the drum. A cellular structure similar to that of an engine exhaust gas catalytic device is adopted to ensure maximum adsorption area. The surface uses high-performance special composite material, dehumidification ability is much better than traditional alumina. The wheel, which is seeable to the naked eye, has a very low pressure drop.

Different from the traditional two-tower constant adsorption dryer, IRDR zero purge drum dryer has a single tower design, a honeycomb structure, and a corrugated special high-performance composite adsorbent. Most of the internal area is used to dry compressed air, and a small part is used for compression heat regeneration, which works continuously and stably.







Dual air inlet from compressor; No filter required.

Zero Energy Consumption Design

- Use oil-free compressor residual heat
- Regeneration process, zero gas consumption and micro power consumption (0.12kW)
- Air flow is smooth and pressure loss is small

No Consumables

- No alumina molecular sieve, no dust, environmental protection
- No electric pneumatic switch valve, no consumables
- Low speed swing, low noise

Continuous and Efficient Purification

- No switching required, dew point stability
- Single towers have the smallest footprint and fewer components
- Hard substrates, composite silicones, cellular structures, and high-efficiency adsorption
- External separator to improve water separation

IRDR

Model	Capacity CFM or m^3/min	Rated flowpressure Mpa	Ambient temperature °C	inlet temperature °C	High Temp. inlet temperature °C	heater kW	Package Weight kg	Width cm	Depth cm	Height cm
Air Cooled										
IRDR5-8.5	5.1	0.85	1-40	≤38	≥110	/	700	110	130	200
IRDR10-7	9.6	0.70	1-40	≤38	≥110	/	700	110	130	200
IRDR16-7	16.1	0.70	1-40	≤38	≥110	/	950	125	160	230
IRDR20-10	20.3	1.00	1-40	≤38	≥110	/	800	120	130	200
IRDR25-8.5	24.6	0.85	1-40	≤38	≥110	/	1000	130	160	230
IRDR32-10	31.8	1.05	1-40	≤38	≥110	/	1050	135	160	230
IRDR35-8.5	35.0	0.85	1-40	≤38	≥110	/	1100	140	160	230
IRDR41-10	40.6	1.05	1-40	≤38	≥110	/	1100	140	160	230
IRDR45-7.5	45.2	0.75	1-40	≤38	≥110	/	1400	160	190	240
IRDR51-10	50.9	1.07	1-40	≤38	≥110	/	1400	160	190	240
Water Cooled										
IRDR5W-8.5	5.2	0.85	1-40	≤38	≥110	/	650	80	120	200
IRDR10W-7	9.6	0.70	1-40	≤38	≥110	/	650	80	120	200
IRDR16W-7	16.1	0.70	1-40	≤38	≥110	/	800	90	130	210
IRDR20W-10	20.3	1.00	1-40	≤38	≥110	/	650	80	130	200
IRDR25W-8.5	24.6	0.85	1-40	≤38	≥110	/	800	90	140	210
IRDR32W-10	31.8	1.05	1-40	≤38	≥110	/	850	90	150	220
IRDR35W-8.5	35.1	0.85	1-40	≤38	≥110	/	900	90	160	220
IRDR41W-10	41.1	1.05	1-40	≤38	≥110	/	900	90	160	220
IRDR45W-7.5	45.2	0.75	1-40	≤38	≥110	/	1600	150	200	230
IRDR51W-10	50.9	1.07	1-40	≤38	≥110	/	1600	150	200	230
IRDR54W-7.5	53.3	0.75	1-40	≤38	≥110	/	1600	150	200	230
IRDR60W-7.5	62.1	0.75	1-40	≤38	≥110	/	1700	150	200	250
IRDR65W-8.5	65.0	0.85	1-40	≤38	≥110	/	1800	150	190	250
IRDR70W-8.5	72.5	0.85	1-40	≤38	≥110	/	1800	150	190	250
IRDR80W-8.5	80.1	0.85	1-40	≤38	≥110	/	1900	150	200	250
IRDR90W*	90	0.7	1-40	≤38	≥110	/	2200	160	210	280
IRDR100W*	100	0.7	1-40	≤38	≥110	/	2200	160	210	280
IRDR125W*	125	0.7	1-40	≤38	≥110	/	2300	160	210	280
IRDR150W*	150	0.7	1-40	≤38	≥110	/	3000	175	240	300
IRDR200W*	200	0.7	1-40	≤38	≥110	/	4000	210	260	310
IRDR250W*	250	0.7	1-40	≤38	≥110	/	4800	240	280	320
IRDR300W*	300	0.7	1-40	≤38	≥110	/	5400	260	310	330

* The IRDR90-300 products are only listd reference data under 0.7Mpa. For detailed selection parameters, please consult with Ingersoll Rand sales.

Operating conditions

- Standard Operating Pressure: 0.7Mpa
- Temperature air inlet: ≤ 38°C
- High temperature air inlet: ≥ 110°C
- Ambient temperature:1-40°C
- Power supply: AC380V / 3P / 50Hz
- Cooling water inlet temperature: ≤32°C

Standard configuration

- Variable frequency control
- Zero purge drain valve
- PLC control, color touch screen
- Remote control

Optional configuration

- Temperature air inlet: ≥ 90°C
- Electric heater
- Only one high temperature air inlet
- Remote transmission
- Stainless steel pipe
- Dew Point Display Module

IRDR-E

Model	Capacity CFM or m^3/min	Rated flowpressure Mpa	Ambient temperature °C	inlet temperature °C	High Temp. inlet temperature °C	heater kW	Package Weight kg	Width cm	Depth cm	Height cm
Air Cooled										
IRDR5-8.5E	5.1	0.85	1-40	≤38	≥110	4	750	110	130	200
IRDR10-7E	9.6	0.70	1-40	≤38	≥110	4	750	110	130	200
IRDR16-7E	16.1	0.70	1-40	≤38	≥110	4	1000	125	160	230
IRDR20-10E	20.3	1.00	1-40	≤38	≥110	4	850	120	130	200
IRDR25-10E	24.9	1.00	1-40	≤38	≥110	4	1050	130	160	230
IRDR32-10E	31.8	1.05	1-40	≤38	≥110	4	1100	135	160	230
IRDR35-8.5E	35.0	0.85	1-40	≤38	≥110	4	1150	140	160	230
IRDR41-10E	40.6	1.05	1-40	≤38	≥110	4	1150	140	160	230
IRDR45-7.5E	45.2	0.75	1-40	≤38	≥110	9	1500	160	190	240
IRDR51-10E	50.9	1.07	1-40	≤38	≥110	9	1500	160	190	240
Water Cooled										
IRDR5W-8.5E	5.2	0.85	1-40	≤38	≥110	4	700	110	120	200
IRDR10W-7E	9.6	0.70	1-40	≤38	≥110	4	700	110	120	200
IRDR16W-7E	16.1	0.70	1-40	≤38	≥110	4	850	120	130	210
IRDR20W-10E	20.3	1.00	1-40	≤38	≥110	4	700	110	130	200
IRDR25W-10E	24.9	1.00	1-40	≤38	≥110	4	850	120	140	210
IRDR32W-10E	31.8	1.05	1-40	≤38	≥110	4	900	120	150	220
IRDR35W-8.5E	35.1	0.85	1-40	≤38	≥110	4	950	120	160	220
IRDR41W-10E	41.1	1.05	1-40	≤38	≥110	4	950	120	160	220
IRDR45W-7.5E	45.2	0.75	1-40	≤38	≥110	9	1700	150	200	230
IRDR51W-10E	50.9	1.07	1-40	≤38	≥110	9	1700	150	200	230
IRDR54W-7.5E	53.3	0.75	1-40	≤38	≥110	9	1700	150	200	230
IRDR60W-7.5E	62.1	0.75	1-40	≤38	≥110	15	1800	150	200	250
IRDR65W-8.5E	65.0	0.85	1-40	≤38	≥110	15	1900	150	190	250
IRDR70W-8.5E	72.5	0.85	1-40	≤38	≥110	15	1900	150	190	250
IRDR80W-8.5E	80.1	0.85	1-40	≤38	≥110	15	2000	150	200	250
IRDR90WE*	90	0.7	1-40	≤38	≥110	22	2300	160	210	280
IRDR100WE*	100	0.7	1-40	≤38	≥110	22	2300	160	210	280
IRDR125WE*	125	0.7	1-40	≤38	≥110	27	2400	160	210	280
IRDR150WE*	150	0.7	1-40	≤38	≥110	36	3100	175	240	300
IRDR200WE*	200	0.7	1-40	≤38	≥110	45	4200	210	260	310
IRDR250WE*	250	0.7	1-40	≤38	≥110	56	5000	240	280	320
IRDR300WE*	300	0.7	1-40	≤38	≥110	76	5600	260	310	330

* The IRDR90-300 products are only listd reference data under 0.7Mpa. For detailed selection parameters, please consult with Ingersoll Rand sales.

Operating conditions

- Standard Operating Pressure: 0.7Mpa
- Temperature air inlet: ≤ 38°C
- High temperature air inlet: ≥ 110°C
- Ambient temperature:1-40°C
- Power supply: AC380V / 3P / 50Hz
- Cooling water inlet temperature: ≤32°C

Standard configuration

- Variable frequency control
- Zero purge drain valve
- PLC control, color touch screen
- Remote control

Optional configuration

- Temperature air inlet: ≥ 90°C
- Electric heater
- Only one high temperature air inlet
- Remote transmission
- Stainless steel pipe
- Dew Point Display Module

D-ICD Series

High Efficiency Combined Dryers

D-ICD series high efficiency combined dryers make a breakthrough from a simple serial connection of ordinary refrigerator and absorber, and obtains a superior energy-saving effect to greatly improve the return on investment of users.

- High-temperature inlet air is reduced to 5°C or below by using freeze-drying technology;
- Saturated humid air under low temperature conditions, after removing the condensed water by an efficient cyclone separator, and then filtering out the oil by an efficient oil removal filter, enters the adsorption tower for low-temperature adsorption;
- The adsorbed dry and cold air enters the freeze-drying system again, and achieves a temperature rise effect by exchanging heat with the humid hot air at the inlet;
- After the temperature is raised, most of the dry compressed air will go to the air pipeline, and a small part of the dry hot air will return to the regeneration tower to enable variable temperature regeneration of the adsorbent already saturated at low temperature.

Product Features

Reliable performance

High-quality outlet compressed air with stable low dew point and no impurities & moisture is obtained under stable outlet temperature.

Easy maintenance

Moisture content of compressed air is reduced by using a freeze-drying system to effectively prolong the life time of the adsorbent, extend the work cycle and reduce valve wear.

Pressure dew point options

The pressure dew point can be designed to be -40°C or -70°C according to user requirements.

Good energy-saving effect

The dryer requires no installation of an electric heater or no increase in regeneration air consumption, thus significantly reducing regeneration air consumption of the adsorbent (i.e. regeneration gas consumption ≤ 3%) and reducing the power consumption of the refrigeration compressor by 20%-40%.

Space saving

More space is saved with the compact structure design than a simple serial connection of refrigerator and absorber.

Technical Data

- Nominal working pressure: 0.7-1.0Mpa
- Rated inlet temperature: ≤45℃
- Average air consumption: ≤3%
- Electrical grade: NEMA 4 or IP55
- Cooling water temperature: 32℃
- Standard inlet conditions: 0.7Mpa / 38℃ / 100% saturated humid air

Configuration

- Simens PLC and touch panel
- Near / remote control
- Integral housing design for flow rate up to 60m³/min
- Split design for flow rate of 80m³/min and above
- Stable dew point performance & energy saving

Model D-ICD	Flow m³/min	Power V/Ph/Hz	Air interface pipe diameter mm	Cooling water interface pipe diameter	Cooling water flow t/h	Desiccant filled in double towers Kg
D-ICD series high efficiency combined dryers (water-cooled)						
D900ICD-W	15	380/3/50	DN65	1"	4.5	324
D1200ICD-W	20	380/3/50	DN65	1"	5.0	350
D1800ICD-W	30	380/3/50	DN80	1-1/2"	6.0	430
D2400ICD-W	40	380/3/50	DN100	1-1/2"	8.0	628
D3000ICD-W	50	380/3/50	DN100	1-1/2"	10.0	650
D3600ICD-W	60	380/3/50	DN125	1-1/2"	12.0	845
D4800ICD-W	80	380/3/50	DN125	1-1/2"	16.0	1122
D6000ICD-W	100	380/3/50	DN150	1-1/2"	22.0	1560
D7200ICD-W	120	380/3/50	DN150	1-1/2"	27.0	1800
D9000ICD-W	150	380/3/50	DN200	1-1/2"	30.0	2260

Note: The air inlet is flanged for all dryers. The dimensions and air inlet & outlet pipe diameters are subject to the outline drawings. Other non-standard models with different flow rate can be customized upon request.

F Series

Universal Filters

Integrating Excellent Performance into Design and Mmanufacturing

Ingersoll Rand's advanced F series compressed air filters effectively reduce contaminants in the air system to protect critical processes and precious instruments & equipment. Through rigorous testing and by integrating excellent components, F series filters can provide high quality compressed air in a long-lasting way.

Superior quality

Without effective filtration, various problems, such as a higher scrap rate, inferior quality products and additional maintenance costs, may occur in the manufacturing and processes of those products relying on compressed air. Our brand new F series filters are designed to solve these problems and ensure that the compressed air system provides high-quality clean compressed air for your equipment.

Higher efficiency

Maintaining a low pressure difference across all compressed air components is crucial for highly-efficient energy systems. Our new F series filters adopts a rigorous engineering design to ensure low pressure difference throughout the available lifetime of the filter element, and are equipped with a differential pressure indicator, which can directly display the cost consumption caused by the pressure difference in the system.

Optimal choice

As every compressed air system has its unique filtration requirements, our all-new F series filters are available in four different filtration grades to provide comprehensive filtration solutions for compressed air in all critical processes.

F Series Universal Filters

Model	Flow		Air interface pipe diameter	Dimensions (mm)		Weight
	m^3/min	m^3/hr	mm	H	W	kg
F series threaded filters						
F42*-E	0.7	42	0.5" BSPT	266	90	1.1
F72*-E	1.2	72	0.5" BSPT	266	90	1.1
F108*-E	1.8	108	0.75" BSPT	300	90	1.4
F216*-E	3.6	216	1" BSPT	420	120	3.2
F294*-E	4.9	294	1.5" BSPT	520	120	5.2
F342*-E	5.7	342	1.5" BSPT	520	120	5.2
F390*-E	6.5	390	1.5" BSPT	520	120	5.2
F444*-E	7.4	444	1.5" BSPT	520	120	5.2
F540*-E	9	540	2" BSPT	730	160	7.6
F690*-E	11.5	690	2" BSPT	730	160	7.6
F810*-E	13.5	810	2" BSPT	730	160	7.6
F990*-E	16.5	990	2.5" BSPT	1010	160	9.5
F1050*-E	17.5	1050	2.5" BSPT	1010	160	9.5
F1170*-E	19.5	1170	2.5" BSPT	1010	160	9.5
F1380*-E	23	1380	3" BSPT	770	200	10.6
F1590*-E	26.5	1590	3" BSPT	770	200	10.6
F1740*-E	29	1740	3" BSPT	1035	200	12.8
F2100*-E	35	2100	3" BSPT	1035	200	12.8
F series flanged filters						
F2340*-E	39	2340	3"FLG	1140	440	76
F2700*-E	45	2700	4"FLG	900	500	91
F3090*-E	51.5	3090	5"FLG	930	500	98
F3480*-E	58	3480	5"FLG	930	500	103
F4080*-E	68	4080	5"FLG	950	540	118
F4200*-E	70	4200	5"FLG	950	540	120
F4560*-E	76	4560	6"FLG	990	560	124
F4800*-E	80	4800	6"FLG	990	560	127
F5520*-E	92	5520	6"FLG	1040	640	132
F5940*-E	99	5940	6"FLG	1040	640	136
F7680*-E	128	7680	6"FLG	1040	640	165
F8700*-E	145	8700	8"FLG	1140	700	228
F10800*-E	180	10800	8"FLG	1160	760	295
F12960*-E	216	12960	8"FLG	1160	760	302
F14400*-E	240	14400	8"FLG	1200	820	335
F18000*-E	300	18000	10"FLG	1250	900	428
F21600*-E	360	21600	10"FLG	1300	940	483
F25200*-E	420	25200	12"FLG	1360	1000	554
F28800*-E	480	28800	14"FLG	1550	1100	766

Notes: 1. Rated working pressure: 7Barg, max. working pressure: 16Barg, working temperature: ＜80°C, with a differential pressure indicator.

2. "*" refers to the filter grades: G, D, H & A

- G: 1μ for moisture removal at an efficiency over 95%, filtering out of water & oil mist above 1μm
- D: 1μ for dust removal, filtering out dust particles above 1 μm
- H: 0.01μ/0.01ppm for oil removal, filtering out particles above 0.01 μm, water & oil mist, and with residual oil content of 0.01ppm@7barg
- A: 0.01μ/0.001ppm for precise oil removal, filtering out particles above 0.01μm, water & oil mist, and with residual oil content of 0.001ppm@7barg

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