

Dry-Filtro Systems

together we grow ..

The main pollutants are water, oil and solid dust particles In Compressed Air

We Care Pure Air

































About Us

Dry-Filtro Systems is a technology oriented company having experience team of more than 25 years in Compressed air down-stream system. We worked with various industries and provided better solutions for different applications to remove contamination in compressed air. We believe in customer satisfaction and maintaining good product quality as per ISO 8573.1 Standards.





Note: High pressure and lowest dew point upto (-) 70°C ADP are optional.

Applications:

- Powder Coating /Spray Painting
- Pharmaceutical Industries
- Blister pack machine and tablet / capsule coating
- Automobile Industries
- Automobile workshop
- Engineering Industries
- Cleaning & Pneumatic operations
- Sand blasting machine.
- **Textile** Pneumatic operation in spinning, weaving & processing industries
- Dairy industries FFS machine
- Plastic Industries Blow & injection molding machine, PET Bottles
- · Sugar- Centrifugal, Instrumentation, Co-Gen & Distilleries
- Power Sector Circuit Breaking
- Others Hospitals, Ceramic & Chemical Industries, Cement, Co-generation plant, Breweries, Distilleries, CNC machine shop, Foundry, Instrumentation, Packing, Paper, Printing, Rice Mill, Tool room and more.

Desiccant Air Dryer (Heatless Type)

Condensate moisture along with oil and dust particles for downstream application is a major problem. The only way to remove these unwanted contaminants (Heatless) dryer is a complete purification package, it includes filtration plus drying.

Filtration: Before drying, wet air enters Pre Filter in series. i,e first air enters into pre filter of sintered bronze element and removes all major dust particles along with big droplets of moisture and oil. The air flow direction in this PF is from out to In. This will help to reduce early chocking from major particles. In Second stage filter (MF) micro filter which is made up of micro glass fiber removes mist form of moisture and oil along with small dust particles up to 0.2μ . This type of filter enhances the life of solenoid valves and increases life of desiccant in the drying tower.

Drying: After pre filtration only vapour content of moisture which is major contribution in the air will enter into desiccant towers. Both towers are totally filled up with desiccant and type of desiccant depends upon desired dew point required for application. Solenoid valves are controlled by the control panel (Timer based). At the initial stage both towers will remain open for 15 seconds to bring both towers in pressurized mode. After pressurized mode one tower will be in drying mode to adsorb vaporized moisture and second tower will be in regeneration mode. The total cycle time will be of 10 min. To remove minute particles after dryer, dust filter is adopted at the outlet of dryer. The quality of air at the std. dryer

Dust: $< 5\mu$

Moisture: upto (-)40°C ADPC (Atm dew point)

0il: 0.1 PPM

Model: standard models at 7kg/cm2

	Sr. No.	Model	Capacity	End Connection	Overall Dimensions (L x W x H) in mm Approx.			
	1.	DFS-001	10 CFM	½" BSPT (F)	750 x 400 x 1100			
	2.	DFS-0015	15 CFM	½" BSPT (F)	850 x 400 x 1500			
	3.	DFS-002	20 CFM	½" BSPT (F)	850 x 400 x 1750			
	4.	DFS-002N	25 CFM	½" BSPT (F)	850 x 400 x 1800			
	5.	DFS-003	30 CFM	½" BSPT (F)	850 x 500 x 1850			
	6.	DFS-004	40 CFM	3/4" BSPT (F)	900 x 500 x 1900			
	7.	DFS-006	60 CFM	3/4" BSPT (F)	1000 x 500 x 1950			
	8.	DFS-008	80 CFM	1" BSPT (F)	1150 x 600 x 2000			
-	9.	DFS-010	100 CFM	1" BSPT (F)	1200 x 600 x 2100			
	10.	DFS-012	120 CFM	1" BSPT (F)	1250 x 600 x 2100			
	11.	DFS-015	150 CFM	1 ½" BSPT (F)	1250 x 650 x 2100			
	12.	DFS-020	200 CFM	1 ½" FLGD ASA 150#	1250 x 650 x 2100			
	13.	DFS-025	250 CFM	1 ½" FLGD ASA 150#	1250 x 700 x 2150			
s	14.	DFS-030	300 CFM	1 ½" FLGD ASA 150#	1400 x 800 x 2150			
	15.	DFS-040	400 CFM	2" FLGD ASA 150#	1600 x 800 x 2150			
	16.	DFS-050	500 CFM	2" FLGD ASA 150#	1800 x 1000 x 2200			
	17.	DFS-080	800 CFM	3" FLGD ASA 150#	2000 x 1050 x 2200			
	18.	DFS-100	1000 CFM	4" FLGD ASA 150#	2200 x 1200 x 2200			
	19.	DFS-150	1500 CFM	4" FLGD ASA 150#	2400 x 1500 x 2250			

Refrigerated Air Dryer

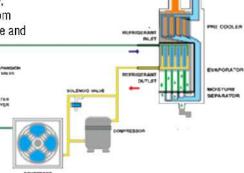
Working principle

The wet compressed air enters in to compact three in one heat exchanger (Economizer, Evaporator & Moisture Separator) for pre cooling and passes through moisture separator and separates condensate and will be discharged by auto drain valve. The cooled and dried compressed air will return through heat exchanger and passes through outlet.



Silence Features

- Compact Three-in-One heat exchanger.
- Aluminium plate finned cross flow heat exchanger.
- Reliable refrigerated compressor having eco-friendly refrigerant, low noise level/less power consumption
- Total modular canopy design, interchangeability, easy fitment of all components and the data from microcontroller ensures preventive Maintenance and easy serviceability.



Version: Air Cooled

TECHNICAL SPECIFICATIONS

Refrigerated Dryer Technical Datasheet Table

Model	Airflow		Max. Op. Pressure		Power Supply	Version	Line Size	End Conn.		
	m ^{3/min}	cfm	Kg/cm ²	psi	V/Ph/Hz			L	w	Н
DF-20R	0.57	20	12	171	230/1/50	Air Cooled	½" BSPT (F)	480	400	625
DF-40R	1.13	40	12	171	230/1/50	Air Cooled	¾" BSPT (F)	480	400	625
DF-60R	1.7	60	12	171	230/1/50	Air Cooled	¾" BSPT (F)	480	400	625
DF-80R	2.27	80	12	171	230/1/50	Air Cooled	1" BSPT (F)	680	560	850
DF-100R	2.83	100	12	171	230/1/50	Air Cooled	1" BSPT (F)	680	560	850
DF-125R	3.54	125	12	171	230/1/50	Air Cooled	1%" BSPT (F)	680	560	850
DF-150R	4.25	150	12	171	230/1/50	Air Cooled	1½" BSPT (F)	680	560	850
DF-200R	5.66	200	12	171	230/1/50	Air Cooled	1 ½" BSPT (F)	750	650	1000
DF-250R	7.08	250	12	171	230/1/50	Air Cooled	1 ½" BSPT (F)	750	650	1000
DF-300R	8.49	300	12	171	415/3/50	Air Cooled	2" FLGD ASA 150#	950	850	1250
DF-350R	9.91	350	12	171	415/3/50	Air Cooled	2" FLGD ASA 150#	950	850	1250
DF-450R	12.74	450	12	171	415/3/50	Air Cooled	2" FLGD ASA 150#	950	850	1250
DF-550R	15.57	550	12	171	415/3/50	Air Cooled	2 ½" FLGD ASA 150#	1000	900	1400
DF-650R	18.41	650	12	171	415/3/50	Air Cooled	2 ½" FLGD ASA 150#	1000	900	1400
DF-750R	21.24	750	12	171	415/3/50	Air Cooled	2 ½" FLGD ASA 150#	1000	900	1400
DF-900R	25.48	900	12	171	415/3/50	Air Cooled	3" FLGD ASA 150#	1250	1000	1550
DF-1000R	28.32	1000	12	171	415/3/50	Air Cooled	3" FLGD ASA 150#	1250	1000	1550
DF-1100R	31.15	1100	12	171	415/3/50	Air Cooled	3" FLGD ASA 150#	1250	1000	1550

Note: Water Cooled Models starting from 550 cfm and above are available on request

Ideal Installation



Selection Criteria: To select dryer following desired specification is required.

- * Application
- * Flow in/cfm or Nm3/hr
- * Inlet temperature
- * Max. Operating Pressure
- * Operating Pressure / Max. Pressure

Optional Accessories:

- Activated Carbon Filter
- Auto Drain Valve
- Differential Pressure Gauges

Other Manufacturing Range



Coalescing Filters

To remove water / oil liquid form as well as mist, dust up to 0.2 micron and vapour oil. In the Compressed air systems, install filters in the series near to the application or coolest place in the pipeline for better efficiency.

The first filter (PF) have the purpose of prefiltration and protecting second high efficiency micro filter (MF). To remove vapour oil, install activated carbon filter (ACF) in series with these two filters.



SB Elements MF Elements ACF Element

Filter Elements

PF - Pre Filter

Element: Sintered bronze / SS wire mesh

MF - Micro Filter

Element: Binder free micro -glass fiber

ACF – Activated Carbon Filter

Element: Carbon cartridge or granules

for higher efficiency.

Capacity: upto 10,000 CFM / 7kg/cm2

Operating Pressure.

Quality of Air: Dust - upto 0.2m

Moisture /Removes liquid and mist from.

Oil - 0 - 0.1 ppm



Moisture Separator

Moisture Separator removes big droplets of moisture & oil from compressed air. For better efficiency install at coolest place in the pipeline.

Types: • Baffle

- Demister
- Baffle cum demister
- Centrifugal

Range- 1/2 inch to 10 inch line size



After cooler

After cooler will help to reduce the temperature of compressed air up to ambient temperature. Shell & tube type of heat exchanger will cool the air to desired temperature and big droplets in the air will be separated by moisture separator.

Types: Horizontal & Vertical Range: up to 5000 CFM.



Pressure Vessels (Air Receiver)

Pressure Vessels are designed as per IS Standards. The role of Air Receiver is to store the pressurized air and to maintain constant pressure at utility. If also acts as a pulsation dampener, cools the air and collects moisture at the bottom.

Proper draining of accumulated water is essential. Proper selection /sizing will help to increase the life of compressor also.

Type: Vertical/Horizontal

Standard: IS 2825/MOC 2062 ASME Sec VIII Div |

Capacity: upto 5m3



Duplex Filter

Duplex Filters are used for liquid/water and air to remove large particles in the pipeline or system. It consists of two separate housings and valves to divert liquid flow while otherhousing /element is being cleaned. The valves works automatically or self cleaning operation. These filters are used in the pipe line system where flow cannot be stopped for continuous operation. The filtration (element) can be selected best on the flow, line size ane continuation level.

The filters are used in various type of industries like Chemical, Process, Pulp, Oil, and Gas etc.



Presence of condensate at compressor accessories like Air Receiver, Filters and Moisture Separator etc in the system should be removed regularly. Otherwise moisture carryover along with air takes place in the system. Proper selection of auto drain valve plays important role. 'Dry-Filtro' brought various range to select.



Mechanical Auto Drain Valve (MDV-15)



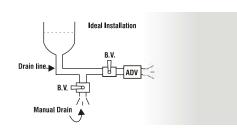
ADV-50(Regular)



Dual Timer Based ADV-151



ADV-151 (Full Bore)





Registered Office

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