





Compressed Air dryer

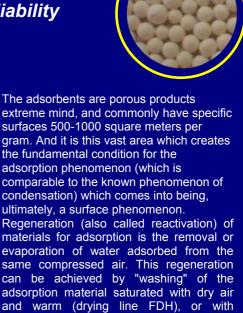
Adsorption – heatless regeneration Low capacities

Principle of adsorptionDrying with high efficiency and reliability

Some applications require a compressed air with very low moisture content (dew point negative between -5 to -70 ° C approximately), not being met by drying systems for cooling (dew point +3 ° C). In this case we use a dryer which operates by the principle of adsorption.

Adsorption is a physical process that leads to the fixing of certain gas molecules (in our case water vapor) on the surface of solids materials called adsorption, adsorbents or sorbents. This process is highly efficient, since the materials are easily regenerated adsorption after reaching its saturation (hot or cold).

With regard to compressed air, the adsorption system radically eliminates water vapor in the mixture. With this system you can currently obtain dew points near -100 ° C.



FDA mini series

pressurized cold and dry air (line FDA).

Besides the standard equipment of adsorption (lines FDA / FDH) and special executions, the Fargon designs and manufactures gearging equipment for small points of use.

> These equipments are used in applications that despite consuming a small amount of air compressed air, need to have the same high quality of drying and purity.

Ideal for applications in machines, point of use, medical air, laboratories.

- Five models for outflows from 3 scfm (5 Nm ³ / h) to 35 scfm (60 Nm ³ / h)
 - Easy installation, operation and maintenance
- Low operating and maintenance cost

- Does not require skilled labor for maintenance
- Multiple filter settings allow meet a wide range of applications, from industrial use to the medical and pharmaceutical use.
- Automation controlled by special electronic board programmable microprocessor allows, if necessary, fine adjustment of the device to the operating conditions of the process.







wall fixing

PECIFICATIONS

Model	Capacity at pressure 7 bar temper. 38°C DP = -25/- 40°C		Inlet and outlet connect. R- threaded	Di	approx (withou			Consumption of compressed air for regeneration	
	scfm	Nm³/h		Length	Width	Height	Weight	W	
FDA 0010	3	5	1⁄4" R	250	150	500	12	10	10-15%



FDA 0020 intermediate model of the line

Wall fixing

SPECIFICATIONS

Model	pressu tempe DP =	acity at re 7 bar r. 38°C : -25/-)°C	Inlet and outlet connect. R- threaded	Di	Dimensions / weight approximate (without filters) (mm / kg)				Consumption of compressed air for regeneration
	scfm Nm³/h			Length Width Height Weight				W	
FDA	9	15	1⁄4" R	300	165	700	25	10	10-15%

FDA 0090 FDA 0120 FDA 0130





SPECIFICATIONS

Model	pressu tempe DP =	bacity at ire 7 bar er. 38°C = -25/- D°C	Inlet and outlet connect. R- threaded	Di	mensions approxi (without (mm /	mate filters)	Power Consum.	Consumption of compressed air for regeneration		
	scfm	Nm³/h		Length	Width	Height	Weight	W		
FDA 0090	20	34	1∕₂" R	350	350	850	52	10	10-15%	
FDA 0120	35	60	½" R	310	300	800	65	10	10-15%	
FDA 0130	35	60	1⁄2" R	350	350	850	55	10	10-15%	

To select he correct model to your necessity, use the table bellow FÓRMULA: Table flow rate = Q X factor F1 X factor F2

Q	Compressed air flow rate to be treated (Nm³/h or scfm)									
F1	Operation pressure (bar)	4	5	6	7	8	9	10		
	Operation pressure correction factor	1,58	1,34	1,14	1	0,88	0,8	0,72		
F2	Inlet compressed air temperature (°C)	30	35	38	40	45	50			
	Compressed air temperature correction factor	0,64	0,86	1	1,11	1,43	1,88			
	Table flow rate = Q x F1 x F2									
		Selected dryer								

Filtration systems



Dryers FDA MINI can be supplied with a complete filtration system, which may include:

- Filter to remove particulate
- · Coalescing filter for removal of oil / condensate
- Activated charcoal filter to remove odors oil
- Sterilization filter
- Purifiers filters Purifiers (removal of CO₂ / CO)

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