





General catalogue For Products













FIDAR FARAZ FARTAK

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About Us:

Fidar Faraz Fartak is a leading engineering company based in Iran specializing in industrial **compressed air systems, Compressed air equipments, and PSA based nitrogen and oxygen generator packages**. With years of experience and a commitment to innovation, we deliver reliable, energy-efficient equipment and full technical support for industries across the world.



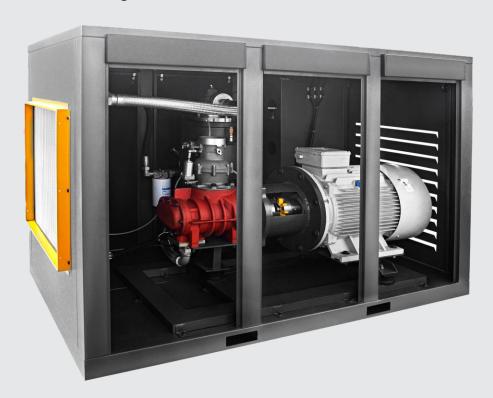






Screw Oil injected Air Compressors:

Fidar Faraz Fartak designs and manufactures a full range of high-performance screw air compressors engineered for efficiency, durability, and reliability. Our product line includes **belt-driven**, **direct-coupled**, **and permanent-magnet motor (PM) models**, **with both single and double stage airend units**, each developed to meet diverse industrial requirements. Every model can be equipped with a Variable Speed Drive (VSD) system, delivering significant energy savings and stable air output under varying load conditions. With advanced engineering, precision assembly, and dust protection up to **IP50**, our compressors offer dependable operation and long service life for a wide range of industries.





Screw Oil injected Air Compressors Specs:

Fidar compressors deliver powerful performance and superior reliability across a wide range of industrial applications. Covering capacities from **5.5 KW up to 315 KW, with working pressures of 8, 10 and 13 bar**. Backed by our in-house engineering and design team, **Fidar Faraz Fartak** provides custom-built compressor systems tailored to meet the unique requirements of every client, ensuring optimal performance, energy savings, and long-term dependability.

Model	Power		Pres	sure	Deli	very	Air	Weight
Model	kw	Нр	Bar psig cfm m³/min		OutletSize	kg		
F 10 B_8			8	116	35.3	1		
F 10 B_10	7.5	10	10	145	33.5	0.9	1/2 "	250
F 10 B_13			13	186	28.6	0.8		
F 15 B_18			8	116	49.4	1.4		
F 15 B_10	11	15	10	145	45.9	1.3	3/4 "	290
F 15 B_13			13	186	38.8	1.1		
F 20 B_8			8	116	74.1	2.1		
F 20 B_10	15	20	10	145	70.6	2	3/4 "	310
F 20 B_13			13	186	56.5	1.6		
F 25 B_8			8	116	88.2	2.5		
F 25 B_10	18.5	25	10	145	84.7	2.4	3/4 "	400
F 25 B_13			13	186	70.6	2		

Model	Por	wer	Pres	sure	Deli	ivery	Air	Weight
Model	kw	Нр	Bar psig		cfm	m³/min	OutletSize	kg
F 30 B_8			8	116	105.9	3.5		
F 30 B_10	22	30	10	145	102.4	3	1 "	500
F 30 B_13			13	186	88.2	2.8		
F 40 B_18			8	116	141.2	4.5		
F 40 B_10	30	40	10	145	137.7	4	1 1/4 "	700
F 40 B_13			13	186	116.5	3.8		
F 50 B_8			8	116	176.5	5.5		900
F 50 B_10	37	50	10	145	173	5	1 ¼ "	
F 50 B_10			13	186	160	4.5		
F 60 B_8			8	116	211.8	7		
F 60 B_10	45	60	10	145	28.3	6.5	1 ¼ "	970
F 60 B_13			13	186	183.6	5.7		
F 75 B_8			8	116	282.5	9		
F 75 B_10	55	75	10	145	271.9	8	1 ½ "	1250
F 75 B_13			13	186	247.2	7		
F 100 B_8			8	116	353.1	11		
F 100 B_10	75	100	10	145	342.2	10	1 ½ "	1400
F 100 B_13			13	186	317	9		

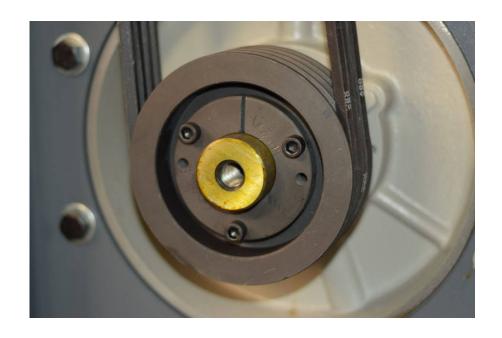
Model	Power		Pressure		Deli	very	Air Outlet Size	Weight (Kg)	
	KW	HP	Bar	psig	cfm	m3/min			
F 30 D_8			8	116	116.5	3.3			
F30 D_10	22	30	10	145	113	3.2	1"	550	
F 30 D_13			13	188	109.5	3.1			
F50 D_8			8	116	185.4	5.25			
F50 D_10	37	50	10	145	180.8	5.12	1 ¼ "	950	
F50 D_13			13	188	176.5	5			
F60 D_8			8	116	226	6.4			
F60 D_10	45	60	10	145	218.9	6.2	1 ¼ "	1020	
F60 D_13			13	186	211.8	6			
F 75 D_8			8	116	293.1	8.3		_	
F75 D_10	55	75	10	145	275.4	7.8	1 ½ "	1300	
F75 D_13			13	188	264.8	7.5			

Model	Po	wer	Pres	ssure	Del	ivery	Air Outlet Size	Weight (Kg)	
	KW	HP	Bar	psig	cfm	m3/min			
F 100 D_8			8	116	406.1	11.5			
F100 D_10	75	100	10	145	388.4	11	1½"	1450	
F 100 D_13			13	188	370.8	10.5			
F120 D_8			8	116	480.2	13.6			
F120 D_10	90	120	10	145	444.9	12.6	21/2"	2800	
F120 D_13			13	188	388.4	11			
F150 D_8			8	116	628.6	17.8			
F150 D_10	110	150	10	145	547.3	15.5	2½"	3000	
F150 D_13			13	188	466.1	13.2			
F 175 D_8		175	8	116	734.5	20.8	21/2"		
F 175 D_10	132		10	145	607.4	17.2		3100	
F175 D_13			13	188	526.1	14.9			
F215 D_8			8	116	879.3	24.9			
F215 D_10	160	215	10	145	773.3	21.9	21/2"	3300	
F215 D_13			13	188	674.5	19.1			
F270 D_8			8	116	1589.1	45			
F270 D_10	200	270	10	145	1483.2	42	4"	5700	
F270 D_13			13	188	1412.5	40			
F335 D_8			8	116	1907	54			
F335 D_10	250	335	10	145	1836.3	52	4"	6200	
F335 D_13			13	188	1555.8	44			













Pressure Vessels:

- Fidar Faraz Fartak designs and manufactures high-quality pressure vessels Each vessel is engineered and fabricated using traceable, certified steel sheets to ensure maximum safety, durability, and performance.
- All surfaces are sand-blasted prior to coating for optimal adhesion and corrosion protection. Internal surfaces are coated with epoxy paint and external surfaces with anti-corrosive oil-based coating, both applied with thickness tailored to the vessel's operating environment.
- Fidar employs the mix welding, back welding and Submerged Arc Welding (SAW) process for superior weld integrity. During production, VT (Visual Test) and PT (Pressure Test) inspections are conducted, followed by a complete hydrostatic test upon completion. UT (Ultrasonic Test) and RT (Radiographic Test) can also be performed upon customer request.



Model	Capacity	Working	Thickness	Connection	Dime	ensions (mm)	Manhole
	(Liter)	Pressure (bar)	(mm)	(inch) Both Sides)	D	H1	H2	(Inch)
		8	6					
TK 500	500	10	6	3/11	600	1680	2100	N/A
		13	8					
TI/ 1000	1000	8	6	1"	000	1.000	2100	
TK 1000	1000	10	8	- I	800	1680	2100	6
		13	8					
		8	6					
TK 2000	2000	10	8	2"	1200	1700	2100	16
		13	8	_				
		8	8			1700	2100	
TK 3000	3000	10	8	2"	1400			16
		13	10	_				
TI/ 4000	4000	8	8	3"	4250	2222	2050	46
TK 4000	4000	10	8	37	1250	3200	3850	16
		13	10					
=======================================	5000	8	8		4.00		2050	16
TK 5000	5000	10	10	4"	1400	3200	3850	
		13	12					
	2000	8	10					
TK 8000	8000	10	10	6"	1800	3200	4000	16
		13	12					
		8	12	au.	1005		4700	10
TK 10000	10000	10	12	6"	1800	4200	4700	18
		13	12					

Model	Capacity	Working	Thickness	Dime	Manhole		
	(Liter)	Pressure (bar)	(mm)	D	H1	H2	(Inch)
TKH 500	500	40	15	750	1400	1700	N/A
TKH 1000	1000	40	15	750	2200	2450	N/A

Pressure boosters up to 40 bar:

Pressure booster units are designed to increase inlet pressure from 7–13 bar up to 40 bar, providing reliable and efficient performance across a wide range of industrial applications.

Specifications:

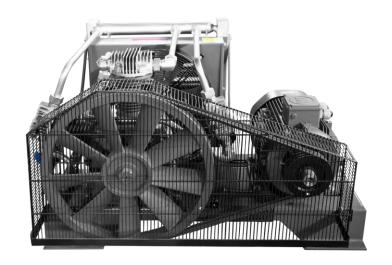
- Belt and pulley drive system for smooth and reliable operation Specially designed cast iron pulleys for durability and optimal power transfer.
- Easy belt tension adjustment system for simplified maintenance Splash lubrication system (finger type) ensuring proper lubrication and long service life
- High-strength cast iron crankshaft for superior mechanical stability
- Automatic condensate drain system for efficient moisture removal
- Long-life bearings designed for continuous industrial operation
- Air intake filter with silencer for reduced noise and clean air suction
- Oil level indicator for easy visual monitoring of lubrication status

•Safety Systems:

- Inlet air control system for optimized airflow management
- High-pressure cut-off system to ensure operational safety
- Non-return valve between booster and receiver tank for cylinder head protection
- Protective perforated guard for pulleys and belts to ensure operator safety
- Manual drain valve for easy condensate discharge
- High-pressure gauge (manometer) for precise pressure monitoring
- Safety relief valve to prevent over pressure conditions

		Pres	sure							Connection Size				Weight (kg)				
Model	Min	imum	Max	imum	7 ba (Inle		10 b (Inle		13 ba (Inle		Power (KW/HP)			Width	Height	(kg)		
	bar	psi	bar	psi	m3/min	cfm	m3/min	cfm	m3/min	cfm								
FBD 10	15	218	40	518	2.10	74	2.89	102	3.67	130	7.5/10	1	1286	825	753	265		
FBD 15	15	218	40	518	2.45	87	3.37	119	4.29	152	11/15	1	1286	825	753	285		
FBD 20	15	218	40	518	3.71	131	5.10	180	6.49	229	15/20	1	1357	820	758	300		
FBD 25	15	218	40	518	4.90	173	6.73	238	8.57	303	18.5/25	1 1/4	1423	874	736	345		
FBD 30	15	218	40	518	5.56	196	7.65	270	9.74	344	22/30	1 1/4	1423	881	736	390		
FBD 40	15	218	40	518	6.68	236	9.18	324	11.68	413	30/40	1 1/4	1423	972	736	426		







Desiccant Dryers:

Desiccant air dryers are designed to remove the moisture generated during air compression by using the adsorption process. The adsorbent materials used in these systems are selected based on the required dew point, which can be designed **from –10 °C down to –70 °C** depending on the application. These dryers are engineered to deliver ultra-dry and clean compressed air, making them ideal for industries where air purity is critical, such as pharmaceutical, food, chemical, and electronics sectors.

Types Of desiccant Dryers:

Desiccant air dryers are generally classified into two main categories: Heatless and Heated types. Each type offers specific features, advantages, and limitations, and the selection depends on operating conditions, budget, and air quality requirements

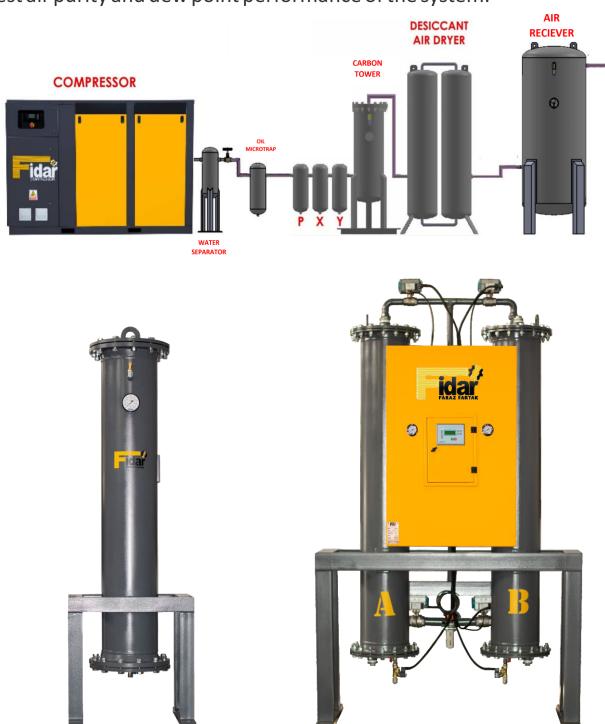
- Heatless Desiccant Dryers use a portion of the dried compressed air to regenerate the desiccant material. They feature simple construction, low initial cost, and minimal power consumption, making them a cost-effective choice for small to medium compressed air systems.
- •Heated Desiccant Dryers use heated air for desiccant regeneration, resulting in higher efficiency and reduced purge air consumption. The regeneration process is performed using warm airflow provided by an electric heater, ensuring reliable operation for large-scale or critical applications.

Fidar Faraz Fartak dryers capacity and dew point:

- •Nominal flow rate: from 1 Nm³/min up to 100 Nm³/min
- Maximum inlet air temperature: 65°C
- •Achievable outlet dew point: down to -70°C, in compliance with ISO 8573 Class 1.1.1
- Equipped with an activated carbon tower for the removal of oil aerosols and vapors down to 0.003 micron.
- Precise capacity calculation performed based on FAD (Free Air Delivery), operating pressure, temperature, and duty cycle

Carbon Tower:

All Fidar Faraz Fartak desiccant air dryer models are equipped with an additional Activated Carbon Tower stage. This unit plays a crucial role in prefiltration, removing oil vapors, unpleasant odors, and Volatile Organic Compounds (VOCs) from the compressed air before it enters the dryer. By ensuring the elimination of these contaminants, the activated carbon tower protects the desiccant material from degradation and helps maintain the highest air purity and dew point performance of the system.



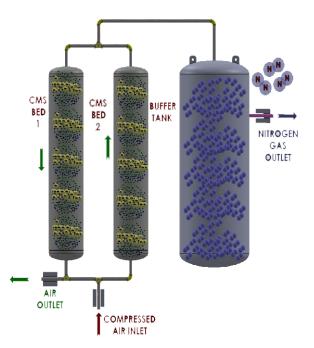
What is Nitrogen?

- Nitrogen belongs to Group 15 of the periodic table and is represented by the chemical symbol N₂
- Nitrogen constitutes approximately 78% of the Earth's atmosphere
- It is found in all living cells
- It forms important compounds such as ammonia, amino acids, nitric acid, and cyanides
- It is a colorless, odorless, tasteless, and non-flammable gas

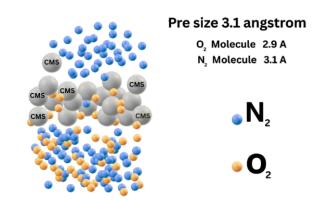
From air to Nitrogen !!!

The nitrogen generation process in this system involves compressing ambient air, drying and moisture absorption, multi-stage purification, oxygen separation in PSA towers, and final storage in a buffer tank. This process operates fully automatically and continuously, ensuring the delivery of nitrogen gas with stable purity and pressure for industrial applications. The technology comprises a set of devices and auxiliary equipment, which are utilized as follows:





The PSA system consists of a set of adsorption towers containing molecular sieves, an automatic control panel, a nitrogen analyzer, a buffer tank, and multi-stage filters. These components operate in a coordinated and controlled manner, ensuring a continuous and stable production of high-purity nitrogen.



Inlet de	w point	Ambient temp	Relative Humidity	Inlet Air Quality	Inlet Compressed air flow
Refrigerant Dryer	Desiccant Dryer				Based on design capacity, installed
+3°C for purities lower than 99.5%	-40° C for purities higher than 99.5%	25°C	≤ 80%	1.4.1	location and purity needed

PSA Packages Capacity:

The nitrogen generation packages manufactured by Fidar Faraz Fartak are designed and produced with capacities ranging from 1 m³/hr to 1120 m³/hr and purities from 95% to 99.999%. In addition, custom designs can be provided to meet the specific requirements of various industrial projects.







