

firstAIR

Compressors! No compromises.

FAS SERIES

Screw Air Compressor Range



FAS 3 – 37 KW



CENTRAL COMPRESSED AIR

The product range FAS includes silent single stage rotating screw compressors with air cooling and is available in the power range of 3 to 37 kW. The compressors are designed for industrial applications and prove their strength when running continuously. As the machines are equipped with driving motors classified in IE3 energy efficiency class, an economical operation is guaranteed. Moreover firstAir also offers machines with energy saving speed control.

Standard machines of the FAS range can be expanded additionally with:

- ▶ Air receiver (11 bar)
- ▶ Refrigeration Dryer
- ▶ Pre- and post-filtering
- ▶ Condensate drain



EXCELLENT QUALITY

High quality components in combination with decades of experience in building air ends ensure durability with constantly high efficiency.

FAS 3 – 37 KW

INTEGRATED OIL SEPARATOR IN THE OIL TANK

The large oil tank is equipped with all necessary connections and safety installations and therefore ensures the highest operational safety. The internal high efficiency oil separator guarantees excellent compressed air quality with a remaining oil content of $< 3\text{mg}/\text{m}^3$.

Through an inspection glass the oil level can be controlled at all times. Service can be conducted quickly and safely – the inlet neck as well as the oil drain valve can be easily accessed.

HIGH PERFORMANCE SUCTION FILTER

In all models a high performance suction filter is installed. Sucked particles are filtered in two stages: first by centrifugal forces and second by a high efficiency filter element.

ELECTRIC MOTOR

The driving motor conforms to energy efficiency class IE3, protection class IP55, insulation class F and was explicitly developed for high loads within industrial applications.

HIGH EFFICIENCY COOLING

The air cooling system is constructed and measured in a way that it can be run without problems up to a room temperature of $+45^\circ\text{C}$.



CONFIGURATION TABLE

Machine Model	FAS 3 – 37	FAS 3 – 15 R	FAS 3 – 15 AT
Air compressor unit	■	■	■
Refrigerated air dryer			■
Pre-filter			■
Post-filter			■
Air receiver		■	■
Condensate drain		■	■

TECHNICAL DATA

THE FAS SERIES IS AVAILABLE EX WORKS AS 10 BAR VERSION

Machine Model			FAS 3	FAS 4	FAS 6	FAS 7	FAS 11	FAS 15	FAS 18	FAS 22	FAS 30	FAS 37	
Cooling Type			Air-cooled										
Transmission method			Belt Driven										
Air-discharge	8 bar (g)	m ³ /min	0.36	0.52	0.76	1.15	1.74	2.11	2.98	3.62	5.20	5.94	
	10 bar (g)	m ³ /min	0.32	0.47	0.70	1.05	1.52	1.98	2.67	3.25	4.57	5.10	
Power		kW - Hp	3	4	5.5	7.5	11	15	18.5	22	30	37	
Noise level		dBA	65 ± 3	65 ± 3	65 ± 3	68 ± 3	68 ± 3	70 ± 3	70 ± 3	70 ± 3	72 ± 3	72 ± 3	
Starting method		Type	Star/Delta starting										
Voltage/Frequency		V/Hz	380/400/415V, 50Hz										
Protection Level		Class	IP55										
Insulation Class		Type	F										
Drive Motor Efficiency		Type	IE 3										
Discharge temperature		°C	Ambient temperature +15										
Air Outlet			G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G1 1/4	G1 1/4	G1 1/2	G1 1/2	
Configuration parameters	Standard type FAS	Length	mm	660	660	660	800	880	880	1050	1050	1000	1000
		Width	mm	600	600	600	800	830	830	880	880	1250	1250
		Height	mm	890	890	890	995	1075	1075	1260	1260	1310	1310
		Weight	kg	220	230	240	280	300	400	500	570	850	880
		Connection outlet		G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G1 1/4	G1 1/4	G1 1/2	G1 1/2
	Air receiver model FAS-R	Tank capacity	lt	200	200	200	270	500	270	500	270	500	
		Length	mm	1500	1500	1500	1400	2000	1450	2000	1450	2000	
		Width	mm	700	700	700	900	900	900	900	900	900	
		Height	mm	1550	1550	1550	1800	1800	1900	1900	1900	1900	
		Weight	kg	335	345	355	460	505	480	525	580	625	
	Air receiver + dryer model FAS-AT	Connection outlet		G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4	
		Tank capacity	lt	200	200	200	270	500	270	500	270	500	
		Length	mm	1500	1500	1500	1500	2000	1500	2000	1500	2000	
		Width	mm	700	700	700	900	900	900	900	900	900	
		Height	mm	1550	1550	1550	1800	1800	1900	1900	1900	1900	
Weight		kg	425	435	445	560	605	580	625	680	725		
Connection outlet		G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4			

The data and performance were recorded in accordance with standard ISO Annex C 1217 – The sound level was measured in accordance with PNEURO/PCAGI standard.

FAS – SC SERIES

TECHNICAL DATA

SCREW COMPRESSORS WITH ENERGY SAVING SPEED CONTROL.

Machine Model			FAS SC 7	FAS SC 11	FAS SC 15	FAS SC 22	FAS SC 30	FAS SC 37
Air-discharge	7 bar	m ³ /min	0.61 ~ 1.21	0.90 ~ 1.80	1.15 ~ 2.30	1.51 ~ 3.78	2.20 ~ 5.51	2.44 ~ 6.10
	8 bar	m ³ /min	0.58 ~ 1.15	0.87 ~ 1.74	1.06 ~ 2.11	1.45 ~ 3.62	2.08 ~ 5.20	2.38 ~ 5.94
	10 bar	m ³ /min	0.53 ~ 1.05	0.76 ~ 1.52	0.99 ~ 1.98	1.30 ~ 3.25	1.83 ~ 4.57	2.04 ~ 5.10
Electrical motor	Power	kW–Hp	7.5	11	15	22	30	37
	Starting method	Typ	Inverter					
	Voltage/ Frequency	V/Hz	380/400/415V, 50Hz					
Noise level		dBA	68 ± 3	68 ± 3	70 ± 3	70 ± 3	72 ± 3	72 ± 3
Discharge temperature		°C	Ambient temperature + 15					
Connection outlet		G3/4	G3/4	G3/4	G3/4	G1 1/4	G1 1/2	G1 1/2
Dimensions		Length (mm)	880	880	960	1140	1000	1000
		Width (mm)	880	880	930	880	1250	1250
		Height (mm)	1075	1075	1075	1260	1310	1310
		Weight (kg)	300	320	425	600	900	930

The data and performance were recorded in accordance with standard ISO 1217 Annex C – The sound level was measured in accordance with PNEURO/CAGI standard.



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