



FAS SERIES

Screw Air Compressor Range



COMPRESSED
AIR ADVISORS

Inc.

Compressed Air Advisors, Inc.

Phone: 877.247.2381

info@compressedairadvisors.com

www.compressedairadvisors.com

firstAIR

Compressors! No compromises.

FAS 4 – 37KW

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 4 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.

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

- ▶ Air receiver (11 bar) ▶ Refrigeration Dryer ▶ Pre-filtering



EXCELLENT QUALITY

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



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 $< 3\text{mg/m}^3$.

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 4 – 37	FAS 4 – 15 T	FAS 4 – 15 U
Air compressor unit	■	■	■
Refrigerated air dryer			■
Pre-filter			■
Post-filter			■
Air receiver		■	■
Condensate drain		■	■

TECHNICAL DATA

Machine Model		FAS4	FAS6	FAS7	FAS11	FAS15	FAS18	FAS22	FAS30	FAS37	
Air End Model		EU5	EU5	EU11	EU11	EU18	EU18	EU18	EU37	EU37	
Cooling Type		Air-cooled									
Condition of Air Suction	Temperature (°C)	0 ~ 40									
	Ambient Pressure (MPa)(A)	0.101									
	Relative Humidity (%)	80									
	Cp/Cv	1.4									
Working pressure/Free Air Delivery CFM	125psi	18.40	26.80	40.60	56.60	74.50	97.50	113.10	168.70	197.90	
	150psi	16.60	23.40	36.10	48.80	69.90	89.70	106.30	161.30	180.10	
Electric Motor	Power (kW)	4	5.5	7.5	11	15	18.5	22	30	37	
	Motor speed (rpm)	3480	3480	3515	3515	3515	3528	3540	3552	3552	
	Starting method	Direct			Wye-Delta						
	Voltage/ Frequency (V/Hz)	1/60/208-230V, 3/60/208-230V/460V				3/60/208-230V/460V					
	Protection Level	IP55									
	Insulation Class	F Class									
	Motor Weight (kg)	54	62	85	107	130	140	185	225	240	
Drive		Belt Driven									
Noise (dBA)		65±3	65±3	68±3	68±3	70±3	70±3	70±3	72±3	72±3	
Oil Carryover (ppm)		≤3									
Discharge temperature (after cooler) (°C)		≤Ambient temperature+15°C									
Set pressure of safety valve (MPa)		Rated working pressure + 0.1MPa									
Lubricant Capacity (L)		6	6	8	8	8	12	12	18	18	
Dimension	Length (mm)	660	660	800	880	880	1050	1050	1000	1000	
	Width (mm)	600	600	800	830	830	880	880	1250	1250	
	Height (mm)	890	890	995	1075	1075	1260	1260	1310	1310	
Outlet (inch)		G1/2	G1/2	G3/4	G3/4	G3/4	G1 1/4	G1 1/4	G1 1/2	G1 1/2	
Weight (kg)		230	240	280	300	400	500	570	850	880	

Machine Model		FAS4T	FAS6T	FAS7T	FAS11T	FAS15T
Tank Volume (L)		200	200	270	270	270
External Dimension	Length (mm)	1370	1370	1500	1500	1500
	Width (mm)	600	600	800	830	830
	Height (mm)	1440	1440	1600	1680	1680
Weight (kg)		435	445	560	580	680

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

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