



FAS 15 - 250 KW

The FAS product range includes air cooled, single stage silenced and packaged screw compressors in the power range of 15 - 250kW. These compressors are designed for industrial application and 24x7 continuous duty. All models are driven by highly efficient IE3 efficiency class electric motors.

FEATURES & BENEFITS



- Compact and accessible design
- Reliable EUCOMP airend technology
- IE3 premium efficiency drive
- Optimum assembly of air-end and motor
- Generous designed aluminium cooler



- Small footprint + easy to maintain
- Proven technology with high volume flow
- Developed for high loads
- Low speed operation
- Ambient temperatures up to 45°C



- · Quick installation and low service costs
- High reliability for demanding industries
- Durable and energy cost saving operation
- · Long lifetime
- Risk free operation



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 < 3mg/m³.

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.



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 is thus most suited for rugged, continuous duty industrial application, with highest efficiency.

HIGH EFFICIENCY COOLING

The cooling system for both air and oil is designed in a way that the compressor can efficiently operate even at high ambient temperature of 45°C.



CONTROLLER

With the intelligent compressor control, you have full control over the operating status: maintenance indication and fault indication. The control also features fully automatic full load, idle and intermittent control as well as remote on/off and direction control



TECHNICAL DATA - FIX SPEED COMPRESSOR

Machine Model		FAS-15	FAS-18	FAS-22	FAS-30	FAS-37	FAS-45	FAS-55	FAS-75	
Cooling Type		Air-cooled								
Madian massaura/hu/am²	5 kg/cm² (g)	108	131	145	212	263	304	415	540	
	7 kg/cm² (g)	95	117	129	191	237	275	378	487	
Working pressure/kg/cm ² Free Air Delivery CFM	8 kg/cm² (g)	85	106	127	184	222	268	415 378 339 311 286 55	459	
,	10 kg/cm² (g)	72	92	120	170	205	304 415 275 378 268 339 244 311 222 286 45 55 Direct 75 2" 1400 2 1100 2	311	413	
	12 kg/cm² (g)	69	85	106	148	187		286	362	
	Power (kW)	15	18.5	22	30	37	45	55	75	
	Starting method	Star-Delta								
Electric Motor	Voltage (V), Frequency (Hz)	400V, 50Hz								
LIECUIC MOLOI	Protection Level	IP 55								
	Insulation Class	F Class								
	Motor Efficiency	IE3								
Drive		Belt Driven Direct Driven							Driven	
Noise (dBA)		70 +/-3 72 +/-3					75 +/-3			
Oil Carryover (ppm)		≤3								
Outlet (inch)		3/4"	1-1/4"		1-1/2"		2"			
	Length (mm)	880	1050		1000		1400	22	50	
External Dimension	Width (mm)	830	30 880		1250		1100	13	44	
	Height (mm)	1075	12	60	13	10	275 378 268 339 244 311 222 286 45 55 Direct 75 + 2" 1400 22 1100 13 1600 16	94		
Weight (kg)		400	500	570	850	880	1080	2150	2250	

Machine Model		FAS-90	FAS-110	FAS-132	FAS-160	FAS-185	FAS-200	FAS-220	FAS-250		
Cooling Type		Air-cooled									
	5 kg/cm² (g)	622	812	975	1123	1254	1377	1430	1660		
	7 kg/cm² (g)	565	742	890	1014	1130	1240	1430 1289 1218 1130 1042 220 85 +	1501		
Working pressure/kg/cm² Free Air Delivery CFM	8 kg/cm² (g)	537	700	848	975	1074	1183	1218	1483		
	10 kg/cm² (g)	480	600	742	869	968	1067	1130	1434		
	12 kg/cm² (g)	434	540	646	759	876	936	1430 1289 1218 1130 1042 220 85 + DN1 379 218	1278		
	Power (kW)	90	110	132	160	185	200	220	250		
Working pressure/kg/cm² Free Air Delivery CFM 1 1 Electric Motor Drive Noise (dBA) Oil Carryover (ppm) Outlet (inch) External Dimension	Starting method				Star-	Delta					
	Voltage (V), Frequency (Hz)	400V, 50Hz									
	Protection Level	IP 55									
	Insulation Class	F Class									
	Motor Efficiency				IE	:3		1377 1430 1240 1289 1183 1218 1067 1130 936 1042 200 220 85 +/			
Drive		Direct Driven									
Noise (dBA)	Noise (dBA)		75 +/-3 82 +/-3 85 +/-3								
Oil Carryover (ppm)		≤3									
Outlet (inch)		2"	DN80					DN100			
External Dimension	Length (mm)	2250	2600 2900				37	3750			
	Width (mm)	1344	1344 1750 1600 2150					50			
	Height (mm)	1694	1850 1800			2100					
Weight (kg)		2450	3050	3250	4050	4300	4450	5000	5200		

The data & performance were recorded in accordance with latest ISO 1217 standard.

The sound level was measured in accordance with PNEUROP/CAGI standard.

Water cooled options available, details on request.

VFD with Star-Delta bypass option available, details on request.

Tank mounted & Ultrapack models are also available for 15-22 Kw with 500L tank, details on request.

Due to continous engineering improvements, above features are subject to change without prior notice.



ENERGY SAVINGS ARE SMART SAVINGS

Take control of your energy savings with our optional Energy Management System, which includes the controller, variable-speed drive, and air end to create greater overall efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

INTELLIGENT VARIABLE SPEED DRIVE

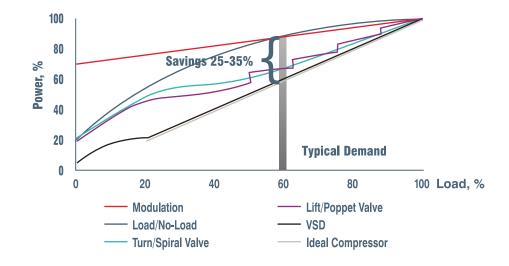
One of the ways in FAS Series compressors maximizes energy savings is with a variable speed drive (VSD). The VSD allows you to match your energy usage to current system demands, eliminating the need to overpressure the system, so you'll save money by not wasting energy.

In addition, the softstarting capability of firstAir' VSD reduces inrush current requirements, decreasing your power demand — and, of course, increasing your energy savings



- The VSD time-proven directly coupled design offers faster response and greater operational efficiency
- Variable operation slows air end speed, which lowers energy costs and reduces noise
- Matching the operating speed with changes in demand reduces component wear
- The VSD enhances quality by stabilizing air pressure at ± 0.1 kg/cm²
- · Built-in DC choke protects against harmonic disturbances and eliminates the need to source additional corrective devices

ENERGY SAVINGS WITH VSD COMPARING LOAD/NO-LOAD POWER CONSUMPTION





TECHNICAL DATA - VFD COMPRESSOR

Machine Model		FASV-15	FASV-18	FASV-22	FASV-30	FASV-37	FASV-45	FASV-55	FASV-75	
Cooling Type		Air-cooled								
	5 kg/cm² (g)	43-108	52-131	58-145	85-212	105-263	121-304	166-415	216-540	
	7 kg/cm² (g)	Air-cooled 43-108 52-131 58-145 85-212 105-263 121-304 166-415 216-54 38-95 47-117 52-129 76-191 95-237 110-275 151-378 195-48 34-85 42-106 51-127 74-184 89-222 107-268 136-339 184-48 29-72 37-92 48-120 68-170 82-205 98-244 124-311 165-41 28-69 34-85 42-106 59-148 75-187 89-222 114-286 145-36 15 18.5 22 30 37 45 55 75	195-487							
Working pressure/kg/cm ² Free Air Delivery CFM	8 kg/cm² (g)	34-85	42-106	51-127	74-184	89-222	107-268	166-415 151-378 136-339 124-311 114-286 55 Direct 75 + 2" 22 13	184-459	
7.007 200., 0	10 kg/cm² (g)	29-72	37-92	48-120	68-170	82-205	98-244	124-311	165-413	
	12 kg/cm² (g)	28-69	34-85	42-106	59-148	75-187	89-222	Direct 75 00	145-362	
	Power (kW)	15	18.5	22	30	37	45	55	75	
Electric Motor	Starting method	VFD								
	Voltage (V), Frequency (Hz)	400V, 50Hz								
Electric Motor	Protection Level	IP 55								
	Insulation Class	F Class								
	Motor Efficiency	IE3								
Drive		Belt Driven Direct Drive							Driven	
Noise (dBA)		70 +/-3 72 +/-3						75 -	- /−3	
Oil Carryover (ppm)		≤3								
Outlet (inch)		3/4"	1-1/4"		1-1/2"		2"			
Noise (dBA) Oil Carryover (ppm)	Length (mm)	960	960 1140		1000		1400	22	50	
	Width (mm)	930	8	30	12	50	1100	13	44	
	Height (mm)	1075	12	60	13	10	110-275 151-378 107-268 136-339 98-244 124-311 89-222 114-286 45 55 Direct 75- 2" 1400 22 1100 13 1600 16	94		
Weight (kg)		425	530	600	900	930	1120	2220	2350	

Machine Model		FASV-90	FASV-110	FASV-132	FASV-160	FASV-185	FASV-200	FASV-220	FASV-250	
Cooling Type		Air-cooled								
	5 kg/cm² (g)	249-262	325-812	390-975	449-1123	501-1254	551-1377	572-1430	664-1660	
	7 kg/cm² (g)	226-565	297-742	356-890	406-1014	452-1130	496-1240	1-1377 572-1430 6-1240 516-1289 3-1183 487-1218 7-1067 452-1130 74-936 417-1042 200 220 85 +/	600-1501	
Working pressure/kg/cm² Free Air Delivery CFM	8 kg/cm² (g)	215-537	280-700	339-848	390-975	430-1074	473-1183	487-1218	593-1483	
	10 kg/cm² (g)	192-480	240-600	297-742	348-869	387-968	427-1067	452-1130	574-1434	
	12 kg/cm² (g)	174-434	216-540	258-646	304-759	350-876	374-936	572-1430 516-1289 487-1218 452-1130 417-1042 220 85 + DN1 379 219 210	511-1278	
	Power (kW)	90	110	132	160	185	200	220	250	
S kg/cm² (g) 249-262 325-812 390-975 7 kg/cm² (g) 226-565 297-742 356-890 8 kg/cm² (g) 215-537 280-700 339-848 10 kg/cm² (g) 192-480 240-600 297-742 12 kg/cm² (g) 174-434 216-540 258-646 Power (kW) 90 110 132 Starting method Voltage (V), Frequency (Hz) Protection Level Insulation Class Motor Efficiency Drive Noise (dBA) 75 +/-3 Oil Carryover (ppm) Outlet (inch) 2" Length (mm) 2250 2600 External Dimension Width (mm) 1344 1750 Height (mm) 1694 1850	Starting method	VFD								
	400V,	400V, 50Hz								
	Protection Level	IP 55								
	Insulation Class	F Class								
	Motor Efficiency				IE	:3		1-1377 572-1430 5-1240 516-1289 3-1183 487-1218 7-1067 452-1130 4-936 417-1042 200 220 85 -1 DN 37 21		
Drive		Direct Driven								
Noise (dBA)	Noise (dBA)		75 +/-3 82 +/-3 85 +/-3							
Oil Carryover (ppm)		≤3								
Outlet (inch)		2"			DN80			DN100		
	Length (mm)	2250	2600 2900 3				37	50		
External Dimension	Width (mm)	1344	17	50		1600		572-1430 516-1289 487-1218 452-1130 417-1042 220 85 +	50	
	Height (mm)	1694	18	50		2350		21	00	
Weight (kg)		2520	3150	3350	4200	4450	4600	5300	5500	

The data & performance were recorded in accordance with latest ISO 1217 standard.

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Water cooled options available, details on request.

VFD with Star-Delta bypass option available, details on request.

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Compressors! No compromises.

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Distributor

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