



FERRO



CONVERTOR SERIES

-ROTARY SCREW AIR COMPRESSORS



STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, IP54 fan motors, star-delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, high-efficiency screw blocks consuming less energy are provided as standard in all our products.



SERVICEABILITY

Service-friendly design implemented using a layout that provides instant access to all consumable items, with quick-release protective covers and easy-to-use controllers minimizes downtime and reduces maintenance costs.

GENERAL FEATURES



ELECTRONIC CONTROL

Ferro rotary screw compressors are equipped with easy-to-use, robust and long-lasting microprocessor controllers with communication capabilities as per the product line to ensure smooth operation and uninterrupted production.



SCREW BLOCK

Patented and durable screw block that provides high-capacity of air, and that is specially selected for each model's capacity requirement

Production of air with high volumetric efficiency, thanks to the new rotor profiles, and lower torque requirements

New generation bearing design with increased load carrying capabilities



AIR OIL SEPARATOR

Spin-on or immersed type separator design depending on the product line

Immersed type separator

High performance separation with three-stage design

More efficient separation at lower volume with deeply wrapped, intertwined separation layers

Low amount of oil mist in outlet air ≤ 3 ppm

Spin-on separator

Easy replacement, ease of assembly and disassembly

Design that does not require a separator tank



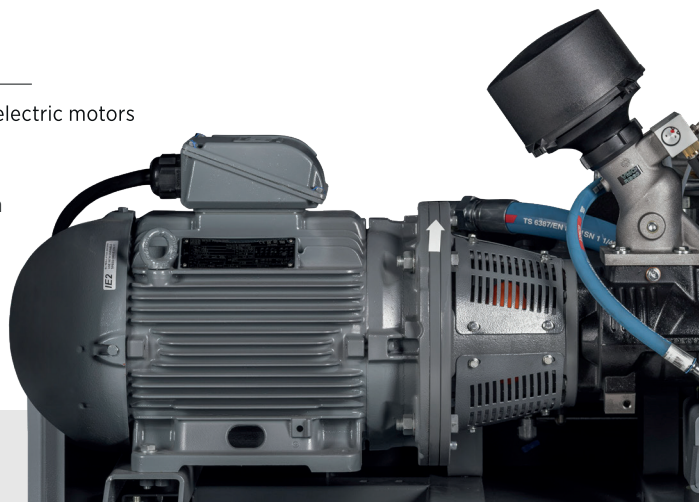
MAIN MOTOR AND DRIVE SYSTEM

High efficiency 400V/3 phase/50Hz, IE3 IP55 electric motors with F Class insulation

Star delta motor starting system

Easy of assembly and disassembly with bush pulleys on belt-pulley models

Direct coupled, long-lasting and efficient transfer system thanks to use of elastic couplings

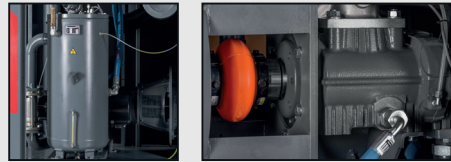




CONVERTER SERIES

Rotary Screw Air Compressors

FERRO CONVERTER series variable-speed compressors drive the motor with the frequency converter to adjust the compressor operation speed according to your requirements and save up to 35% energy. Thanks to its high-quality equipment and excellent engineering in its design, it provides a very efficient and flexible use as per requirements. Responds to all requirements between 5.5 and 315 KW.



ADVANTAGES

- Up to 35% energy saving*
- Operation at constant output pressure value
- Wide operating pressure range (5-14 bars)
- Soft & smooth start up
- Protection against the adverse effects of peak currents
- Effective production of pressurized air even in case of highly variable pressurized air requirements

*When compared with compressors without an inverter for applications with variable requirements

MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled one on one (1:1) with the elastic coupling
- Variable-speed starting with frequency converter
- High temperature protection with motor bearings (INVERSYS 55-315 Plus)
- High speed premium efficiency electric motor

AIR/OIL SEPARATOR

- Easy-to-detach spin-on type separator (CONVERTER-37 Plus)
- High-efficiency immersion type separator with long service life (CONVERTER 45-315 Plus)

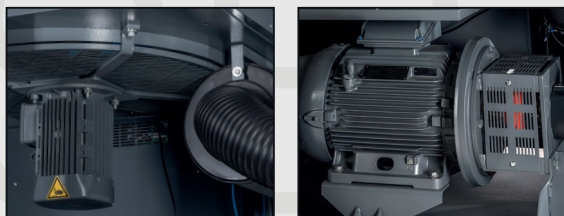


COOLING SYSTEM

- Temperature controlled fan (CONVERTER 5-30 Plus)
- Axial cooling fans controlled with secondary fan inverter (CONVERTER 30-315 Plus)

ADDITIONAL OPTIONS TO THE GENERAL OPTIONS LIST

- Model options with Tank, without Tank, with Tank dryer (INV 5-15 Plus)
- Automatic greasing system



TECHNICAL DATA

Model	Pressure		Capacity*				Motor Power	Connection Size	Receiver Volume/ Dryer Model	Dimensions (mm)			Weight	Noise**
	bar	psi	Minimum		Maximum					Length	Width	Height		
			m³/min	cfm	m³/min	cfm	kg	dB(A)						
CONVERTER 5 PLUS	7,5	110	0,38	11	1,03	32	5,5/7,5	G 1/2"	200-250L HRD 30	1025	650	950	235	69
	10	145	0,37	10	0,83	27								
	13	190	0,36	14	0,64	23								
CONVERTER 7 PLUS	7,5	110	0,42	14	1,40	42	7,5/10	G 1/2"	200-250L HRD 40	1025	650	950	255	70
	10	145	0,43	13	1,20	35								
	13	190	0,43	12	0,95	29								
CONVERTER 11 PLUS	7,5	110	0,77	27	1,80	64	11/15	G 3/4"	500L HRD 40	1175	730	1000	305	69
	10	145	0,81	29	1,61	57								
	13	190	0,74	16	1,30	46								
CONVERTER 15 PLUS	7,5	110	0,99	35	2,85	101	15/20	G 3/4"	500L HRD 50	1175	730	1000	345	71
	10	145	0,97	34	2,33	82								
	13	190	0,99	35	2,07	73								
CONVERTER 18 PLUS	7,5	110	1,10	37	3,50	124	18,5/25	G 1"	-	1275	850	1465	465	71
	10	145	1,00	36	3,00	106								
	13	190	1,10	38	2,60	92								
CONVERTER 22 PLUS	7,5	110	1,30	32	4,20	140	22/30	G 1"	-	1275	850	1465	500	71
	10	145	1,30	32	3,80	124								
	13	190	1,20	29	3,00	99								
CONVERTER 30 PLUS	7,5	110	1,22	43	5,30	187	30/40	G 1 1/4"	-	1575	1030	1750	695	71
	10	145	1,22	43	4,60	162								
	13	190	1,21	43	4,00	141								
CONVERTER 37 PLUS	7,5	110	1,30	46	6,80	240	37/50	G 1 1/4"	-	1575	1030	1750	715	71
	10	145	1,30	45	5,80	205								
	13	190	1,30	44	5,00	177								
CONVERTER 45 PLUS	7,5	110	1,30	46	7,60	268	45/60	G 1 1/4"	-	1575	1030	1750	945	73
	10	145	1,20	43	6,80	240								
	13	190	1,20	44	5,90	208								
CONVERTER 55 PLUS	7,5	110	2,50	88	9,90	350	55/75	G 1 1/2"	-	2000	1200	1810	1290	75
	10	145	2,40	84	8,20	290								
	13	190	2,60	91	7,40	261								
CONVERTER 75 PLUS	7,5	110	2,60	91	12,90	456	75/100	G 1 1/2"	-	2000	1200	1810	1390	77
	10	145	2,50	88	10,90	385								
	13	190	2,50	88	9,60	339								
CONVERTER 90 PLUS	7,5	110	6,20	220	16,80	593	90/125	G 2"	-	2500	1400	2037	2020	78
	10	145	6,00	213	14,40	509								
	13	190	6,20	221	12,30	434								
CONVERTER 110 PLUS	7,5	110	6,63	234	20,10	710	110/150	G 2"	-	2500	1400	2037	2380	78
	10	145	7,11	251	17,30	611								
	13	190	7,04	249	15,00	530								
CONVERTER 132 PLUS	7,5	110	6,90	244	24,30	858	132/180	G 2 1/2"	-	2750	1805	2000	2555	78
	10	145	6,80	239	20,30	717								
	13	190	9,74	344	18,10	639								
CONVERTER 160 PLUS	7,5	110	6,80	239	28,20	996	160/220	G 2 1/2"	-	2750	1805	2000	2760	78
	10	145	7,13	252	24,60	869								
	13	190	8,50	299	21,70	766								
CONVERTER 200 PLUS	7,5	110	14,03	495	37,50	1324	200/270	DN80	-	3250	2250	2450	4460	79
	10	145	13,90	490	32,30	1141								
	13	190	13,81	488	28,80	1017								
CONVERTER 250 PLUS	7,5	110	13,60	479	45,20	1596	250/340	DN100	-	3250	2250	2450	5600	79
	10	145	13,51	477	38,50	1360								
	13	190	13,50	475	33,50	1183								
CONVERTER 315 PLUS	7,5	110	13,20	466	54,10	1911	315/430	DN100	-	3250	2250	2450	6000	79
	10	145	13,23	467	44,30	1564								
	13	190	12,93	457	38,00	1342								

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.
- Ferro compressors reserves its rights to make changes in its products and specifications without prior notice.
- * Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.



FERRO

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