Compressed Air Technologies.
Built to Deliver Value.



CHAMPION

Screw Compressors
90 to 132 kW

ChampionAirtech.com



At a glance...

Nominal Pressure
5 - 13 bar g

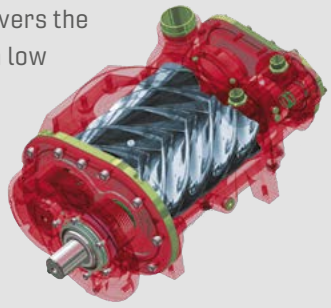
Motor Power
90 - 132kW

Volume Flow
5.26 - 24.79 m³/min

COMPRESSED AIR TECHNOLOGIES BUILT TO DELIVER VALUE

Premium efficiency airend

The new highly efficient airend delivers the highest quality compressed air at a low rotational speed, to help minimise the unit's energy consumption and achieve excellent performance.



Pilot TS SE innovative touch screen compressor controller



Features & functions

The high-resolution touch screen display, is highly user-friendly and self-explanatory. Advanced control system and integrated sensors optimise the compressor to the actual working conditions, saving on energy and protecting your investment against condensate.

Embedded IoT and includes onboard web server and Base Load Select for primary function for up to three secondary units. Both the board and controller have a high level of CS Standard for cyber security.



Eliminating all Risks

Protect your investment and minimise downtimes with the 5-year extended warranty and with the Industry 4.0 Solution iConn.

OUTSTANDING EFFICIENCY



FM RS flexiAIR

Variable Speed Technology

Allows substantial energy savings of at least 25% of the energy cost

effiDRIVE IES2 COMPLIANT

FM-RS Series features Power Drive Systems that exceed the class **IES2 EN61800-9** requirements and assure high efficiency and high energy savings levels.

iConn Industry 4.0 Solution

The FM90 to FM132 Series is equipped with iConn as a standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users. It enables accurate production planning and total peace-of-mind protection, generating insight and statistics that keep users informed on performance, at the same time highlighting potential issues before they become a problem.

- Condition based monitoring
- Predictive maintenance required
- Full Air Manufacturing Control Optimisation
- External data pattern integration

iConn

Technical data

FM 90 – 132 Series Screw Compressors, Fixed Speed



Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 7.5 to 13 bar
Electric motor: 90 - 132kW - IE3

FM SERIES	TYPE	FM90			FM110			FM132		
PART NO		A34905437	A34905438	Configurator FM9013	A34905440	A34905441	Configurator FM11013	A34905443	A34905444	Configurator FM13213
	REC	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR	FLOOR
Max. Pressure	bar	7.5	10	13	7.5	10	13	7.5	10	13
	PSI	109	145	188	109	145	188	109	145	188
Capacity at working pressure	CFM	641.32	547.74	477.46	762.80	665.69	581.64	875.46	759.63	660.03
	m^3/min	18.16	15.51	13.52	21.60	18.85	16.47	24.79	21.51	18.69
Drive Motor IP55 / Class IE3	kW	90	90	90	110	110	110	132	132	132
	HP	125	125	125	150	150	150	180	180	180
Operating Voltage, 50 Hz	400 V	•	•	•	•	•	•	•	•	•
Air Cooled		•	•	•	•	•	•	•	•	•
Pilot TS SE7 with iConn and Base Load Select		•	•	•	•	•	•	•	•	•
Noise Level	dB(A)	73	73	73	75	75	75	76	76	76
Weight	kg	2447			2532			2764		
Dimensions (LxWxH)	mm	2290 x 1327 x 2039			2290 x 1327 x 2039			2290 x 1327 x 2039		
Compressered Air Delivery Connection		EN 10226 R 2 1/2								

OPTIONAL
Alternative Voltage 380V/60Hz
Heat Recovery Integrated
Heat Recovery External
Heat Recovery Retro-fit Integrated
Heat Recovery Retro-fit External
Canopy Heater
Oil Thermostat 70°C
Food Grade Lubricant
Synthetic Oil
Water Separator + Drain
Remote on-off (only for more than 20 meters distance)
Monitoring
Profibus
Potential free contact kit
Extended Warranty 5 years

SERVICE & PARTS
Standard Service Kit FM90-132 (4000hrs) SKFM90132-1-N
Extended Service Kit FM90-132 (8000hrs) MKFM90132

Heat recovery requires synthetic oil. Not included in the price of heat recovery. In case of order please add the price of heat recovery + synthetic oil. Food Grade oil is synthetic.
Service intervals are by calendar months or operating hours, whichever occurs first. For 8000hrs, also 4000hrs kit must be purchased. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.

FM 90 – 132 RS Series Screw Compressors, Variable Speed



Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting
Pressure Range: 5 to 13 bar
Electric motor: 90 - 132kW - IE3

FM SERIES	TYPE	FM90RS	FM110RS	FM132RS
PART NO		A34905439	A34905442	A34905445
	REC	FLOOR	FLOOR	FLOOR
Max. Pressure	bar	5 - 13	5 - 13	5 - 13
	PSI	73 - 188	73 - 188	73 - 188
Capacity at working pressure	CFM	185.76 - 641.32	186.76 - 759.63	187.76 - 872.92
	m^3/min	5.26 - 18.16	5.26 - 21.51	5.26 - 24.72
Drive Motor IP55 / Class IE3	kW	90	110	132
	HP	125	150	180
Operating Voltage, 50 Hz	400 V	•	•	•
Air Cooled		•	•	•
Pilot TS SE7 with iConn and Base Load Select		•	•	•
Noise Level	dB(A)	74	76	77
Weight	kg	2579	2604	2655
Dimensions (LxWxH)	mm	2290 x 1327 x 2039		
Compressered Air Delivery Connection		EN 10226 R 2 1/2		

OPTIONAL	
Alternative Voltage 380V/60Hz	**CONFIG_VOLTAGE FM**
Heat Recovery Integrated	**CONFIG_HEAT_REC_INT FM**
Heat Recovery External	**CONFIG_HEAT_REC_EXT FM**
Heat Recovery Retro-fit Integrated	**ZS1196556**
Heat Recovery Retro-fit External	**ZS1196954**
Canopy Heater	**CONFIG_HEATER**
Food Grade Lubricant	**CONFIG_FOOD_GRADE_OIL FM**
Synthetic Oil	**CONFIG_SYNTHETIC_OIL FM**
Water Separator + Drain	**CONFIG_SEPARATOR FM**
Remote on-off (only for more than 20 meters distance)	**CONFIG_REMOTE**
Monitoring	**CONFIG_FILT_MON**
Profibus	**CONFIG_PROF**
Potential free contact kit	**CONFIG_CONTACT_KIT**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Standard Service Kit FM90-132RS (4000hrs) SKFM90132-1-RS-N	**SKFM90132-1-RS-N**
Extended Service Kit FM90-132 (8000hrs) MKFM90132	**MKFM90132**

Heat recovery requires synthetic oil. Not included in the price of heat recovery. In case of order please add the price of heat recovery + synthetic oil. Food Grade oil is synthetic.
Service intervals are by calendar months or operating hours, whichever occurs first. For 8000hrs, also 4000hrs kit must be purchased. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.



Compressed Air Solutions.
Your Compressed Air Partner



Champion stationary rotary screw compressors, both fixed and variable speed drive, are the answer to the needs of small and medium-sized companies.



A modern production system and process demands increased levels of air quality. Our complete Air Treatment Range ensures product quality and efficient operation.



Champion also design and manufacture an enviable range of Portable Rotary Screw compressors. All designed to provide efficiency and reliability in the most demanding applications and conditions, these compressors set new standards.

CHAMPION

ChampionAirtech.com

For additional information please contact your local representative.
Specifications subject to change without notice.

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