

At a glance...



Nominal Pressure 5 - 13 bar g



Motor Power 30 - 75kW



Volume Flow 1.19 - 13.5 m³/min





Premium efficiency airend

New FM series 30-75 kW features premium quality airends designed and manufactured in house. The manufacturing process is using the latest CNC rotor grinding

Semi Integrated Version
Oil Filter
Integrated Intake Valve
Thermostatic Valve
Discharge on Top

machinery, coupled with on-line laser technology, in order to maintain precise manufacturing tolerances.

Our state of art airends are focused on high efficiency and reliability.

Their integrated design offers a very compact solution that ease service and minimises leakage risks.

High efficiency cooling system

Thanks to the optimum cooling system, the compressor can work in high ambient temperatures of up to 46°C.

Maximum durability

We maximise service life and durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines, replacing them with corrosion resistant stainless steel tubing and passive zinc coated carbon steel piping.

For ease of maintenance we complete the connection with viton sealed, grooved couplings and self-sealing high pressure compression fittings.

Designed for serviceability

Maintenance personnel welcome the FM series compressor range.

Service access is quick and easy with all doors able to be removed in seconds. We've also made sure serviceable components including filters are easily accessible and no piping needs to be disconnected to service the separator.



Optimised drive concept

With direct or gear drive coupling, the belt free FM 30-75 Series compressor range not only reduces transmission losses, it improves efficiency and reduces noise. Most importantly, it delivers greater reliability and reduced maintenance costs.

Energy efficient motor

High efficiency TEFC IE3 electric motors are fitted as standard to the entire FM 30-75 Series screw compressor range, reducing not only power consumption but also CO₂ emissions.





New advanced controller C-PRO 2.0 ensures reliable operation and protects your investment by continuously monitoring the operational parameters

- √ 3 analog inputs
- ✓ Multi-language: English/German/French/Italian/Spanish
- ✓ Standard sequence control up to 8 units (up to 7 units fixed speed & 1 variable speed)
- ✓ Standard Modbus
- √ 15 failure records in memory
- ✓ Continuous system monitoring



iConn Industry 4.0 option

The C-PRO 2.0 has the possibility to connect with iConn monitoring device iConn is the smart, proactive real-time monitoring service that delivers indepth and real-time knowledge on the system to our compressed air users.

It enables accurate production planning and total peace-of-mind protection.

It keeps 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





FM FIXED SPEED - FMRS VARIABLE SPEED SERIES

FMRS



 Energy savings and lower CO₂ emissions into the environment.

The variable speed compressor: One smart solution

Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy savings and a stable, consistent air supply.

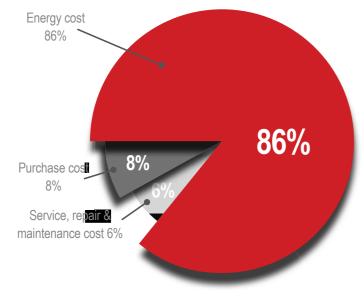
Compressor energy cost example

NOMINAL kW	OPERATING COST PER YEAR (5000 HOURS) AT COST PER KWh (€)					
KVV	0.06	0.08	0.10	0.12	0.14	0.16
55	16,500	22,000	27,500	33,000	38,500	44,000
75	22,500	30,000	37,500	45,000	52,500	60,000

Note: Hours of operation based on two 8hrs-shifts, 6 days per week. Calculations based on nominal kW.

CHAMPION FIM30RS The state of the state o

Cost of compressed air over 5 years



FM RS STEXIAL R

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

FM package compressors With dryer, filters and tank

The FM Package compressors can be easily and rapidly installed in any installation.

The intelligent C-PRO 2.0 controller Simplicity

The C-PRO 2.0 controller was designed to make the operators' interface with the variable speed drive transparent. This new generation controller features extra functions for variable speed compressors like drive status display and flexible PID setting according the application. You don't need to be an expert on variable speed drives to operate your compressor. The controller takes care of the details and automatically adjusts the compressor performance to meet your changing air system demands - saving you energy. Changing the discharge pressure is as easy as pressing a button.



Technical data

FM 30 – 45 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, Single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 8 to 13 bar Electric motor: 30 - 45kW - IE3



FM SERIES	TYPE		FM 30			FM 37			FM 45		
CODE		CC1195721	CC1195722	CC1195723	CC1195342	CC1195734	CC1195735	CC1195736	CC1195737	CC1195738	
Max. Pressure	bar	8	10	13	8	10	13	8	10	13	
Capacity at working pressure	m³/min	4.87	4.67	4.08	6.4	5.49	5.05	7.52	6.75	5.4	
Drive Motor IP55 / Class IE3	kW	30	30	30	37	37	37	45	45	45	
Operating Voltage, 50 Hz	400 V	•	•	•	•	•	•	•	•	•	
Control Voltage	24V	•	•	•	•	•	•	•	•	•	
C-PRO 2.0 Controller		•	•	•	•	•	•	•	•	•	
Noise Level	dB(A)	71	71	71	71	71	71	72	72	72	
Weight	kg		700			780			850		
Dimensions (LxWxH)	mm	15	1554 x 894 x 1405			1554 x 894 x 1405 1554 x 894 x 1405			05		
Compressered Air			FN 10226 C1 1/4 (DIN 2000-C1 1/4) female								

EN 10226 G1 1/4 (DIN 2999-G1 1/4) female

	elivery Connection		
0	PTIONAL		
	tern. Voltage 380V/60Hz 30V/50HZ	&	
E	ktended 5 years Warranty	/	CC1180793
Ar	nti -corrosion %		
Fo	ood Grade Oil		
(h	t for external heat recove eat recovery unit not cluded)	ry	
iC	onn factory Fitted		
iC	onn retrofit kit	ZS1184985	
Oi	l Heater		
	ternal Pressure vessel		
SI	ERVICE & PARTS		
	ervice Kit for 4000h or 2 months FM30		CC1198084
	ervice Kit for 8000h or I months FM30		CC1198090
	ervice Kit for 4000h or 2 months FM37-45		CC1198085
	ervice Kit for 8000h or months FM37-45		CC1198091
	nampLUBE Screw Lubric)Lt	ant	CC1180020

^{*} Service intervals are by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM FIXED SPEED - FMRS VARIABLE SPEED SERIES

FM 30 – 45RS 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:** 30 - 45kW - IE3



FMRS SERIES	TYPE	FM30RS	FM37RS	FM45RS
CODE		CC1195739	CC1195740	CC1195741
Pressure Range	bar		5 - 13	
Flow rate min - max	m³/min	1.19 - 5.60	1.41 - 6.69	1.41 - 7.84
Drive Motor IP55 / Class IE3	kW	30	37	45
Operating Voltage, 50 Hz	400V	•	•	•
Control Voltage	24V	•	•	•
C- PRO 2.0 Controller		•	•	•
Noise Level at 70% load	dB(A)	70	70	71
Weight	kg	750	830	900
Dimensions (LxWxH)	mm	11 001 110-		
Compressered Air Delivery		EN 1000C C1 1/4 (DIN 0000 C1 1/4) famala		

EN 10226 G1 1/4 (DIN 2999-G1 1/4) female

Connection	
OPTIONAL	
Altern. Voltage 380V/60Hz	
Extended 5 years Warranty	CC1180793
Anti- corrosion %	
Food Grade Oil	
Kit for external heat recovery (heat recovery unit not included)	
iConn factory Fitted	
iConn retrofit kit	ZS1184985
Oil Heater	
Internal Pressure vessel acc AD2000	
SERVICE & PARTS	
Service Kit for 4000h or 12 months FMRS30	CC1198086
Service Kit for 8000h or 24 months FMRS30	CC1198092
Service Kit for 4000h or 12 months FMRS37-45	CC1198087
Service Kit for 8000h or 24 months FMRS37-45	CC1198093
ChampLUBE Screw Lubricant 20Lt	CC1180020

^{*} Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM 55 - 75 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 8 to 13 bar Electric motor: 55 - 75kW - IE3



FM SERIES	TYPE		FM55		FM75		
CODE		CC1195745	CC1195747	CC1195748	CC1195749	CC1195750	CC1195751
Pressure Range	bar	8	10	13	8	10	13
Capacity at working pressure	m³/min	10.55	9.14	7.9	12.15	10.26	8.91
Drive Motor IP55 / Class IE3	kW	55	55	55	75	75	75
Operating Voltage, 50 Hz	400V	•	•	•	•	•	•
Control Voltage	24V	•	•	•	•	•	•
C- PRO 2.0 Controller		•	•	•	•	•	•
Noise Level at 70% load	dB(A)	73	73	73	74	74	74
Weight	kg	1150			1210	-	
Dimensions (LxWxH)	mm	2004 x 1179 x 1505		2004 x 1179 x 1505		5	
Compressered Air Delivery							

EN 10226 G2 (DIN 2999-G2) female

Connection	
OPTIONAL	
Altern. Voltage 380V/60Hz & 230V/50HZ	
Extended 5 years Warranty	CC1180793
Anti- corrosion %	
Food Grade Oil	
Kit for external heat recovery (heat recovery unit not included)	
iConn factory Fitted	
iConn retrofit kit	ZS1184985
Oil Heater	
Internal Pressure vessel acc AD2000	
SERVICE & PARTS	
Service Kit for 4000h or 12 months	CC1198088
Service Kit for 8000h or 24 months	CC1198094
ChampLUBE Screw Lubricant 20Lt (2x 20Lt needed)	CC1180020

^{*} Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

FM FIXED SPEED - FMRS VARIABLE SPEED SERIES

FM 55 - 75RS Series: Screw Compressors, Fixed Speed

Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting Design:

Pressure Range: 5 to 13 bar Electric motor: 55 - 75kW - IE3



FM SERIES CODE	ТҮРЕ	FM55RS CC1195752	FM75RS CC1195753	
Pressure Range	bar	5 - 10	5 - 13	
Flow rate min - max	m³/min	2.24 - 10.43	1.65 - 13.57	
Drive Motor IP55 / Class IE3	kW	55	75	
Operating Voltage, 50 Hz	400V	•	•	
Control Voltage	24V	•	•	
C- PRO 2.0 Controller		•	•	
Noise Level at 70% load	dB(A)	71	74	
Weight	kg	1220	1280	
Dimensions (LxWxH)	mm	2004 x 11	79 x 1505	
Compressered Air Delivery Connection		EN 10226 G2 (DIN 2999-G2) female		

Connection	
OPTIONAL	
Altern. Voltage 380V/60Hz	
Extended 5 years Warranty	CC1180793
Anti- corrosion %	
Food Grade Oil	
Kit for external heat recovery (heat recovery unit not included)	
iConn factory Fitted	
iConn retrofit kit	ZS1184985
Oil Heater	
Internal Pressure vessel acc AD2000	
SERVICE & PARTS	
Service Kit for 4000h or 12 months	CC1198089
Service Kit for 8000h or 24 months	CC1198095
ChampLUBE Screw Lubricant 20Lt (2x 20Lt needed)	CC1180020

^{*} Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

Notes	