Compressed Air Technologies.
Built to Deliver Value.



CHAMPION

Screw Compressors
30 to 75 kW

ChampionAirtech.com

At a glance...

Nominal Pressure
5 - 13 bar g

Motor Power
30 - 75kW

Volume Flow
1.19 - 13.5 m³/min

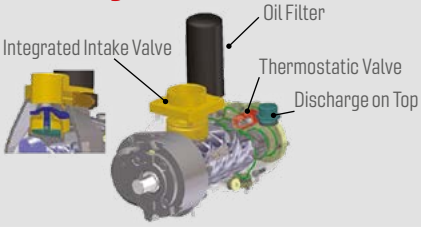


NEW GENERATION HIGHLY EFFICIENT SCREW COMPRESSORS

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 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.

Semi Integrated Version



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.





C-PRO3 compressor controller*

The control system ensures reliable operation and protects the investment by continuously monitoring the operational parameters. The C-PRO3 also has the capability to have programmable inputs and outputs, control additional equipment as well as providing the following features in clear readable text from a 2.8" Graphic Display with modern user interface:

- Discharge/line pressure display
- Air/oil temperature display
- Total hours run and under load
- Service due indicator
- Enhanced fault log monitor
- Real time clock
- Timer controlled stop/start
- Remote start/stop
- Auto restart after power failure
- Second pressure setting
- Status indication
- RS485 - Modbus RTU
- Micro-SD-Card for alarm - & data logging

*30 to 45 kW compressors

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 CO_2 emissions.

iConn Industry 4.0 option

The C-PRO3 has iConn intergrated, and 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. 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

iConn

FM RS

flexiAIR
Variable Speed Technology

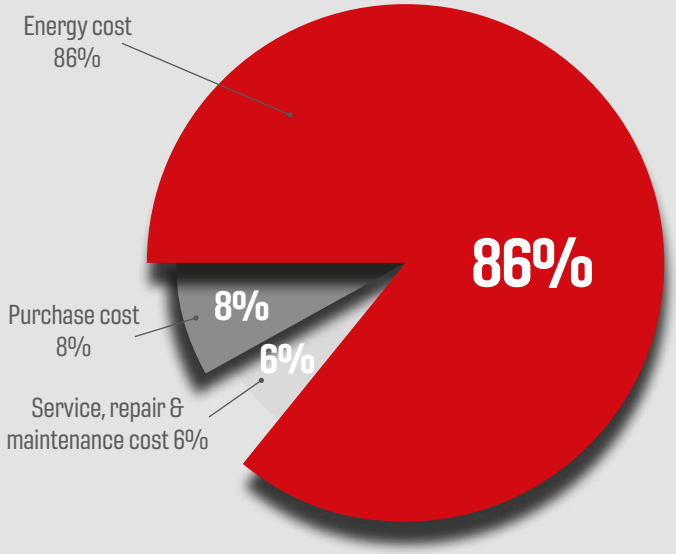
= Energy savings and lower CO_2 emissions into the environment.



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.

Cost of compressed air over 5 years



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.

FM RS

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

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.

- ✓ 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

*55 to 75 kW compressors



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		
PART NO		RSCCP3045V201	RSCCP3045V202	RSCCP3045V203	RSCCP3045V204	RSCCP3045V205	RSCCP3045V206	RSCCP3045V207	RSCCP3045V208	RSCCP3045V209
Max. Pressure	bar	8	10	13	8	10	13	8	10	13
Capacity at working pressure	m^3/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 3.0 Controller with iConn and Base load select		•	•	•	•	•	•	•	•	•
Noise Level	dB(A)	71	71	71	71	71	71	72	72	72
Weight	kg	700			780			850		
Dimensions (LxWxH)	mm	1554 x 894 x 1405			1554 x 894 x 1405			1554 x 894 x 1405		
Compressered Air Delivery Connection		EN 10226 G1 1/4 (DIN 2999-G1 1/4) female								

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 30-45 kW	**CONFIG_F3_FOODGRADE**
FM/FMRS 30-45 HRC - Factory Fitted *	**CONFIG_HRC_F3**
FM/FMRS 30-45 HRC - Retro Fit	**CC1232558**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Standard Service Kit FM30 (4000hrs)	**CC1198084**
Extended Service Kit FM30 (8000hrs)	**CC1198090**
Standard Service Kit FM37-45 (4000hrs)	**CC1198085**
Extended Service Kit FM37-45 (8000hrs)	**CC1198091**
Overhaul Service Kit FM30 (20000hrs) V2	**47961868001**
Overhaul Service Kit FM37-45 (20000hrs) V2	**47961870001**

* Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.
Service intervals are by calendar months or operating hours, whichever occurs first. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.

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 PART NO	TYPE	FM30RS RSCCP3045V210	FM37RS RSCCP3045V211	FM45RS RSCCP3045V212
Pressure Range	bar	5 - 13	5 - 13	5 - 13
Flow rate min - max	m^3/min	1.23-4.93	1.3 - 6.05	1.3 - 7.25
Drive Motor IP55 / Class IE3	kW	30	37	45
Operating Voltage, 50 Hz	400V	•	•	•
Control Voltage	24V	•	•	•
C-PRO 3.0 Controller with iConn and Base load select		•	•	•
Noise Level at 70% load	dB(A)	70	70	71
Weight	kg	750	830	900
Dimensions (LxWxH)	mm	1554 x 894 x 1405		
Compressered Air Delivery Connection		EN 10226 G1 1/4 (DIN 2999-G1 1/4) female		

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 30-45 kW	**CONFIG_F3_FOODGRADE**
FM/FMRS 30-45 HRC - Factory Fitted *	**CONFIG_HRC_F3**
FM/FMRS 30-45 HRC - Retro Fit	**CC1232558**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Standard Service Kit FM30RS (4000hrs)	**CC1198086**
Extended Service Kit FM30RS (8000hrs)	**CC1198092**
Overhaul Service Kit FM30RS (20000hrs) V2	**47961869001**
Standard Service Kit FM37-45RS (4000hrs)	**CC1198087**
Extended Service Kit FM37-45RS (8000hrs)	**CC1198093**
Overhaul Service Kit FM37-45RS (20000hrs) V2	**47961871001**

* Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.
Service intervals are by calendar months or operating hours, whichever occurs first. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.

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 PART NO	TYPE	FM55 CC1195745	 CC1195747	 CC1195748	FM75 CC1195749	 CC1195750	 CC1195751
Pressure Range	bar	8	10	13	8	10	13
Capacity at working pressure	m^3/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		
Compressered Air Delivery Connection		EN 10226 G2 (DIN 2999-G2) female					

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1216381**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 55-75 kW	**CONFIG_F4_FOODGRADE**
FM/FMRS 55-75 HRC - Factory Fitted *	**CONFIG_HRC_F4**
Canopy Heater	**CONFIG_HEATER**
FM/FMRS 55-75 HRC - Retro Fit (needs Thermostatic element for fixed speed 8 and 10 bar)	**CC1232559**
Thermostatic Element for Retro Fit HRC_F4	**A11175374**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Standard Service Kit FM55-75 (4000hrs)	**CC1198088**
Extended Service Kit FM55-75 (8000hrs)	**CC1198094**
Overhaul Service Kit FM55 10/13bar (20000hrs)	**CC1198100**
Overhaul Service Kit FM55 8bar (20000hrs)	**47957610001**
Overhaul Service Kit FM75 8/13 bar (20000hrs)	**CC1198101**
Overhaul Service Kit FM75 10 bar (20000hrs)	**47957609001**

* Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.
Service intervals are by calendar months or operating hours, whichever occurs first. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.
** Price On Arrival.

FM 55 – 75RS 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: 55 - 75kW - IE3

FM SERIES PART NO	TYPE	FM55RS CC1195752	FM75RS CC1195753
Pressure Range	bar	5 - 10	5 - 13
Flow rate min - max	m^3/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	71
Weight	kg	1220	1280
Dimensions (LxWxH)	mm	2004 x 1179 x 1505	
Compressered Air Delivery Connection		EN 10226 G2 (DIN 2999-G2) female	

OPTIONAL	
Alternative Voltage 380/3/60Hz	**CONFIG_F0-F4_380_VOLT**
iConn Factory Fitted	**CONFIG_iConn**
iConn Retrofit Kit NETT PRICE	**ZS1216381**
AD2000 (internal separator vessel)	**CONFIG_F0-F4_AD2000**
Factory Fitted Food Grade Oil 55-75 kW	**CONFIG_F4_FOODGRADE**
FM/FMRS 55-75 HRC - Factory Fitted **	**CONFIG_HRC_F4**
FM/FMRS 55-75 HRC - Retro Fit	**CC1232559**
Extended Warranty 5 years	**CC1180793**
SERVICE & PARTS	
Standard Service Kit FM55-75RS (4000hrs)	**CC1198089**
Extended Service Kit FM55-75RS (8000hrs)	**CC1198095**
Overhaul Service Kit FM55-75RS (20000hrs)	**CC1198102**

* Please note that this is the internal connection kit which enables to connect the compressor to the External CH-Airwatt Heat Recovery units.
Service intervals are by calendar months or operating hours, whichever occurs first. Please see pages 92-102 for more details and for lubricants allowed to comply with the Extended Warranty.

Notes



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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