

# NEW GENERATION HIGHLY EFFICIENT SCREW COMPRESSORS

## 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 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.

## 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<sub>2</sub> emissions.

# 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 CODE	TYPE	FM30RS CC1195739	FM37RS CC1195740	FM45RS 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	1554 x 894 x 1405		
Compressed Air Delivery Connection		EN 10226 G1 1/4 (DIN 2999-G1 1/4) female		
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.