

EFFICIENT LINE

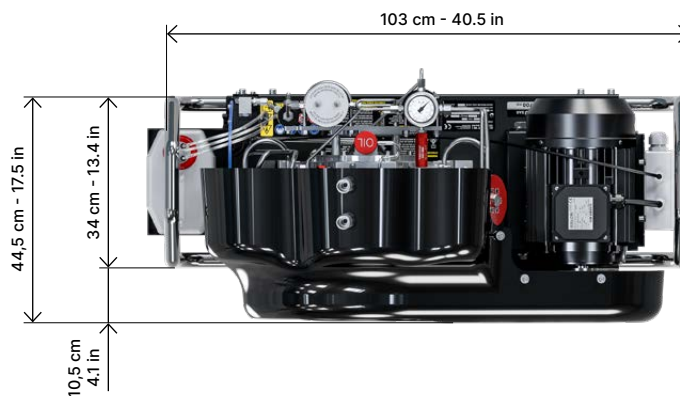
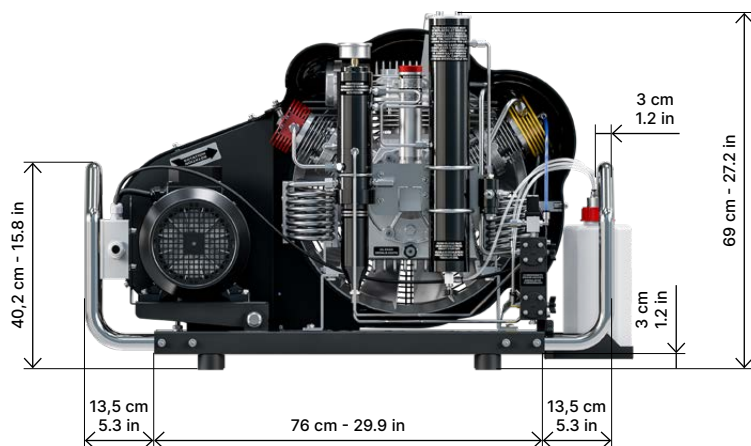
SMART 210 EM FA



Contact

The evolution of the species

SMART 210 FA breathing air compressors represent the evolution of the standard, one of the best known and biggest selling models in the world. They are equipped with two connections for high pressure hoses, a single-phase electric motor, indestructible pumping unit and a compact frame with handles for easier transport. Equipped with electrical panel with automatic condensate drain and digital pressure switch with autostop. External charging panels are available as optional extras.



Technical data

Type of gas	Breathing air EN 12021
Intake pressure	Atmospheric / max 300 millibar
Working pressure	232 bar / 300 bar / 330 bar
Max working pressure	232 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	6°
Oil	Synthetic Coltri Oil ST 755
Oil change interval	1 year / 1.000 h
Frame	Steel - Colour Black RAL 9005 - Powder coating painting - Scratch proof

Compressor

	210 EM FA
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	210 l/min 12.6 m³/h 7.4 cfm
Purification System	Maxifilter
Cooling air flow	1.240 m³/h
Weight¹	100 kg - 220.5 lb
Dimensions (W x D x H)¹	100 × 46 × 70 cm - 39.4 × 18.1 × 27.6 in

¹ Standard model. Dimensions may vary depending on accessories.

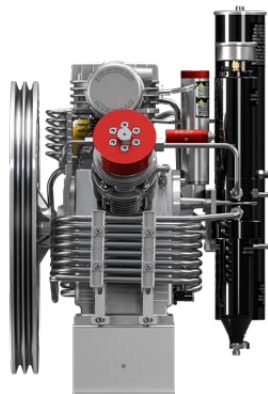
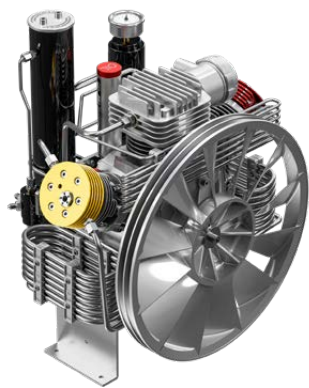
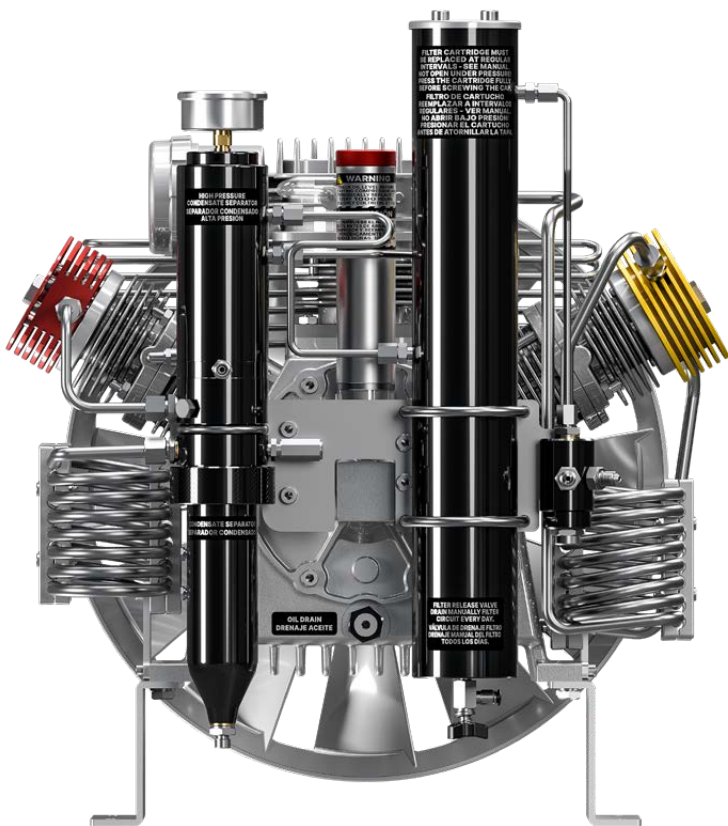
Electric motor

	210 EM FA	
Type	Single-phase electric	
Power	4 kW - 5.5 Hp	
Operating voltage/frequency Different voltage / frequency available on request.	220 V, 50 Hz	220 V, 60 Hz
Rated current	25,2 A	
Speed (RPM)	2.850	3.450
Protection class	IP55	

The IP55 protection class, compliant with IEC 60034-5, guarantees protection against dust deposits and water jets from any direction.

Technical data pumping unit MCH 16

210 EM FA	
Charging rate	210 l/min
Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	12.6 m³/h
	7.4 cfm
Speed (RPM)	1.040
Number of stages	3
Number of cylinders	3
Cylinder bore 1st stage	95 mm
Cylinder bore 2nd stage	38 mm
Cylinder bore 3rd stage	14 mm
Stroke	40 mm
Direction of rotation (from flywheel side)	Counter clockwise (left)
Drive type	V-belt A type
Intermediate pressure 1st stage	~ 6 bar
Intermediate pressure 2nd stage	~ 45 bar
Oil sump capacity	1,8 liters
Max intake pressure	1,3 bar (absolute) / 300 millibar - 4,35 psi

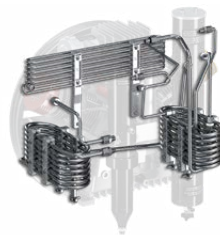




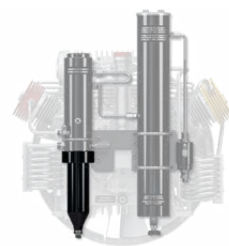
Splash lubrication with conrod pin immersed in oil



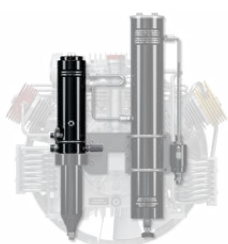
Suction filter: 10 µm



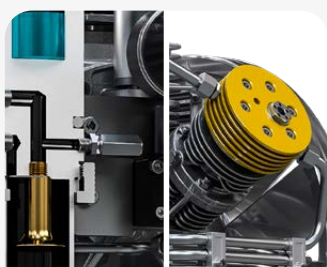
Pipes, fitting and nuts in stainless steel AISI 316



Intermediate condensate separator after the second stage



High pressure final condensate separator



Safety valves after each stage of compression



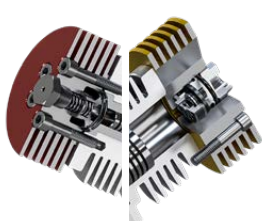
Die-cast aluminium cylinders with barrel coating in nicasil



Forged aluminum connecting rods



Forged steel crankshaft



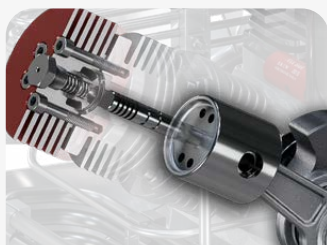
Stainless steel second and third stage valves



Roller Bearings for intensive work load



Third stage in tempered steel with 5 piston rings in special cast iron



Second and third stage with pushing pistons to eliminate lateral forces on the pistons



CE certification

Standard equipment

Purification system Maxifilter

MAXIFILTER cartridge repackable or disposable



Purification system	Maxifilter
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar) ¹	890 m ³

¹ When using a filter cartridge without HOPCALITE CO CATALYST.
If a cartridge with CO removal is used, the process air capacity is reduced by about 20%.

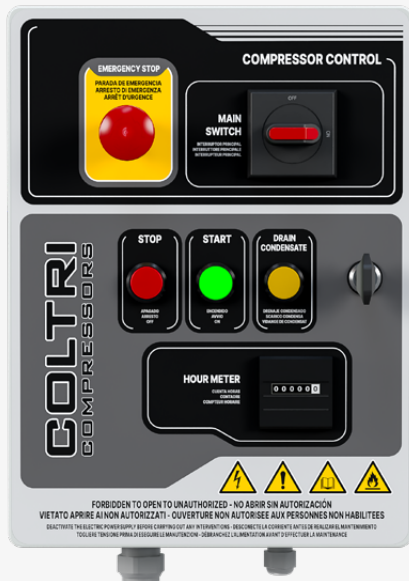
Condensate separation system

- Interstage separator after 2nd stage
- Final separator for the removal of oil/water condensate
- Final safety valve, fitted to separator housing
- Pressure maintaining/non return valve



Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H ₂ O	25 mg/m	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO ₂	500 ppm(v)	≤ 500
Oil	0,5 mg/m	≤ 0,5 mg/m

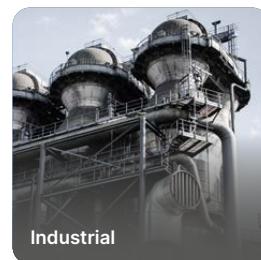
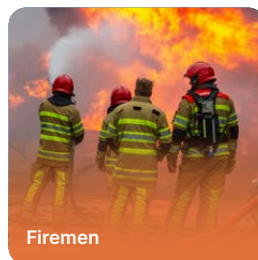
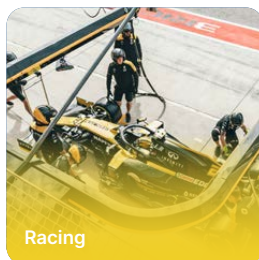
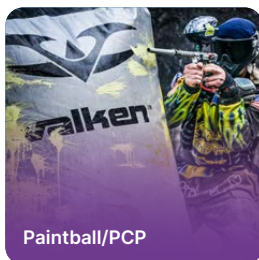
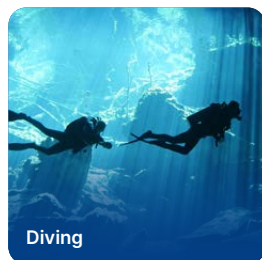
- * Measured at our facility using ASCO HORA 160 ANALYZER.
- Only with special filter cartridge with HOPCALITE CO CATALYST. and up to a maximum concentration of 25 ppm CO in intake air. The compressed clean breathing air then contains a maximum of 5 ppm CO.
 - The level of CO₂ in the intake air must not exceed the maximum level of CO₂ as per EN 12021:2014.
 - Reported values exceed standards:
 - ISO 8573-1 class 3 for particles
 - ISO 8573-1 class 1 for humidity
 - ISO 8573-1 class 1 for oil.



Full automatic electric panel

Stop button
Power button
Condensate drain button
Emergency button
Main switch
Operating hour meter

Application fields



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