

EFFICIENT LINE

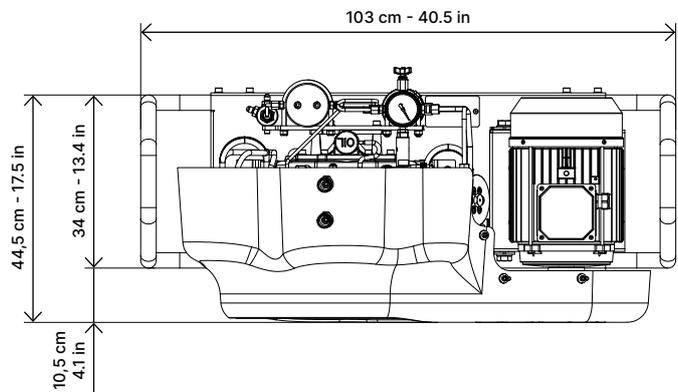
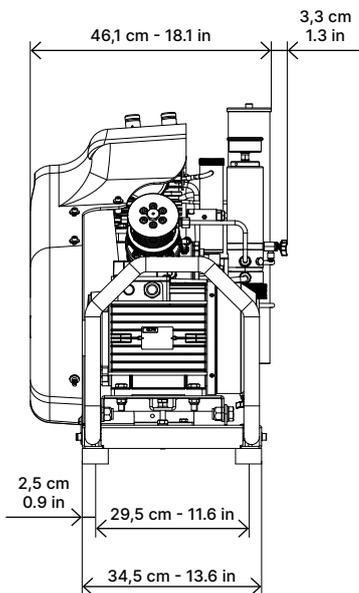
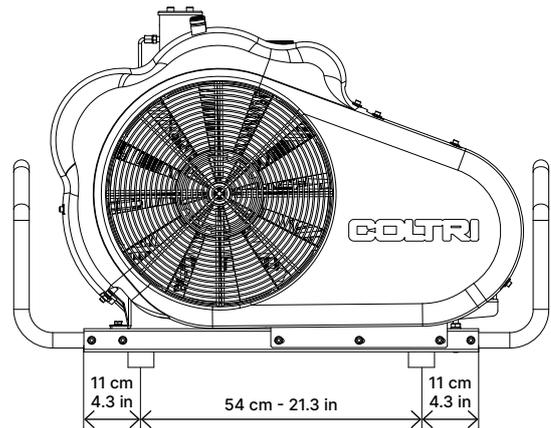
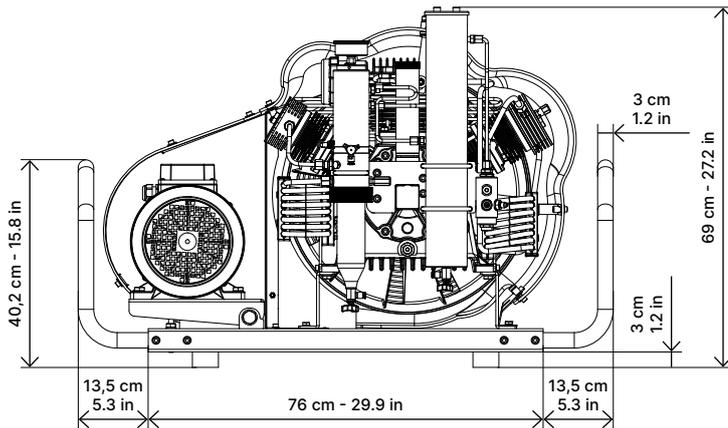
SMART



Contact

The evolution of the species

SMART 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 or three phase electric motor, indestructible pumping units and a compact frame with handles for easier transport. Available options: external refilling panels, electrical display with automatic condensate drainage, and autostop pressure gauge.



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 (Single-phase electric) / 420 bar (Three-phase electric)
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

	125 EM	210 EM	235 ET	270 EM	315 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	125 l/min 7.5 m ³ /h 4.4 cfm	210 l/min 12.6 m ³ /h 7.4 cfm	235 l/min 14.1 m ³ /h 8.3 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Purification System	Maxifilter				
Cooling air flow	1.710 m ³ /h	1.240 m ³ /h	1,440 m ³ /h	2.180 m ³ /h	2.180 m ³ /h
Weight¹	93 kg 205 lb	100 kg 220.5 lb	95 kg 209.4 lb	105 kg 231.5 lb	105 kg 231.5 lb
Dimensions (W x D x H)¹	100 × 46 × 70 cm - 39.4 × 18.1 × 27.6 in				
Noise	LpA 74,5 dB				LpA 79,1 dB

¹ Standard model. Dimensions and weight may vary depending on accessories.

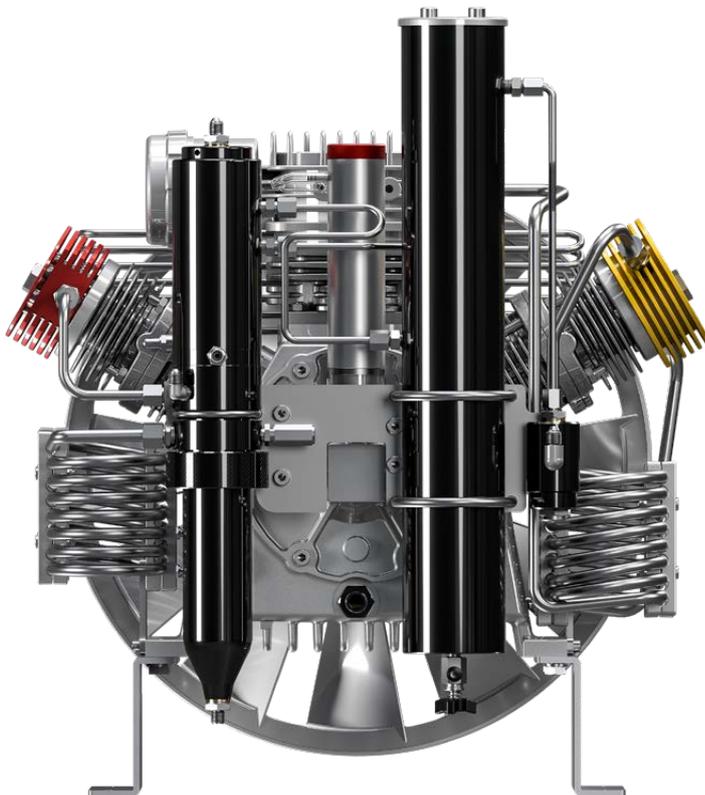
Electric motor

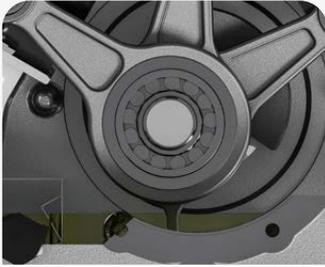
	125 EM	210 EM	235 ET	270 EM	315 ET		
Type	Single-phase electric		Three-phase electric	Single-phase electric	Three-phase electric		
Power	3 kW - 4 Hp	4 kW - 5.5 Hp		5,5 kW - 7.5 Hp			
Operating voltage/frequency Different voltage / frequency available on request.	230 V, 60 Hz	220 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz	230 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz
Rated current	20 A	25,2 A	9,7 A		29,7 A	12,6 A	
Speed (RPM)	2.800	3.450	2.840	3.410	3.510	2.850	3.420
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 8/16

	125 EM	210 EM	235 ET	270 EM	315 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	125 l/min 7.5 m³/h 4.4 cfm	210 l/min 12.6 m³/h 7.4 cfm	235 l/min 14.1 m³/h 8.3 cfm	270 l/min 16.2 m³/h 9.5 cfm	315 l/min 18.9 m³/h 11.1 cfm
Speed (RPM)	1.500	1.040	1.270	1.400	1.600
Number of stages	3				
Number of cylinders	3				
Cylinder bore 1st stage	60 mm	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



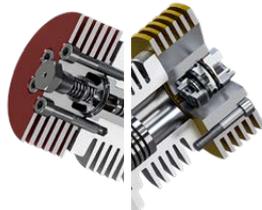
Die-cast aluminium cylinders with barrel coating in nicasil



Forged aluminum connecting rods



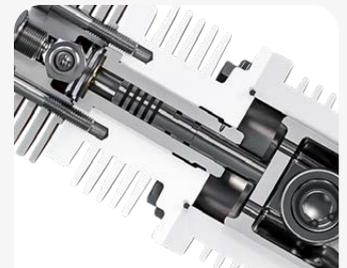
Forged steel crankshaft



Stainless steel second and third stage valves



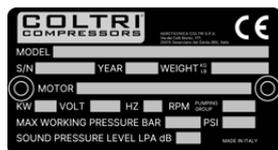
Roller Bearings for intensive work load



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.



Filling hose



Carrying handles



Filling connection

2 Filling connection to choose from: DRV DIN 232 bar, INT/YOKE DRV 232 bar and DRV DIN 300 bar.

Optional



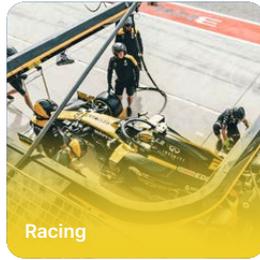
C-Monitor



Full automatic electric panel

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

Application fields



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