

EFFICIENT LINE

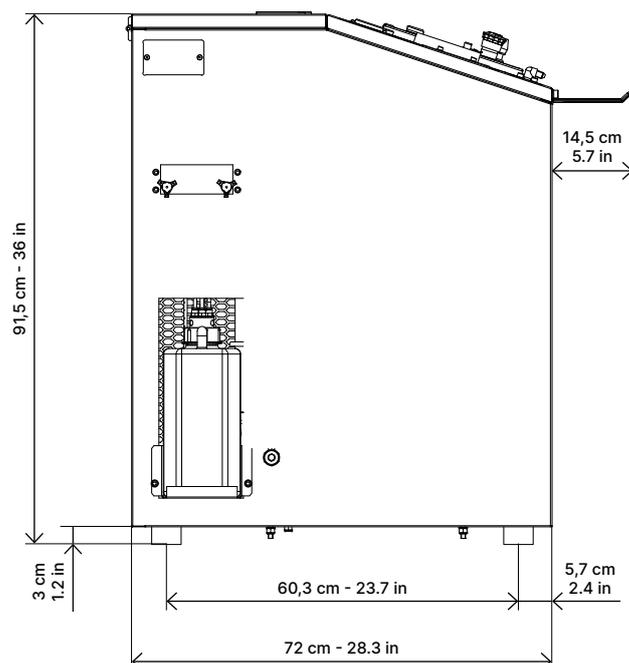
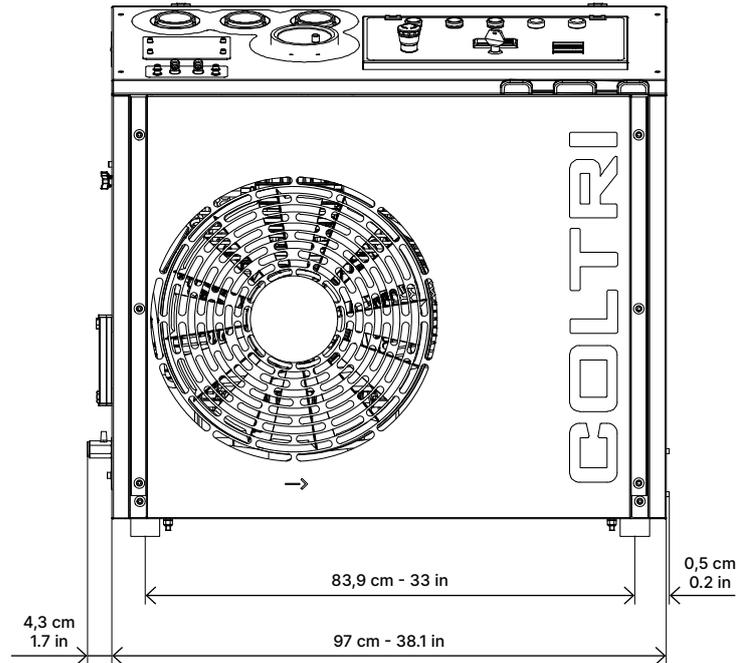
MARK III SILENT



Contact

Everything under control

The **MARK III SILENT** model is designed with control systems to effectively monitor all operations: interstage pressure, oil level, internal cabin temperature and rotation direction detector. With two connections for high pressure flexible hoses, it is equipped with electric motors and powerful pumping units, automatic condensate drain and electrical panel for managing the automatic compressor shutdown. Tra gli optional disponibili c'è il pannello di ricarica a distanza.



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

	210 EM	270 EM	235 ET	315 ET
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	270 l/min 16.2 m³/h 9.5 cfm	235 l/min 14.1 m³/h 8.3 cfm	315 l/min 18.9 m³/h 11.1 cfm
Purification System	Maxifilter			
Cooling air flow	1.240 m³/h	2.180 m³/h	1,440 m³/h	2.180 m³/h
Weight¹	162 kg - 357 lb	168 kg - 370 lb	162 kg - 357 lb	168 kg - 370 lb
Dimensions (W x D x H)¹	103 × 73 × 91 cm - 40.5 × 28.7 × 35.8 in			
Noise			LpA 73,2 dB	LpA 76,6 dB

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

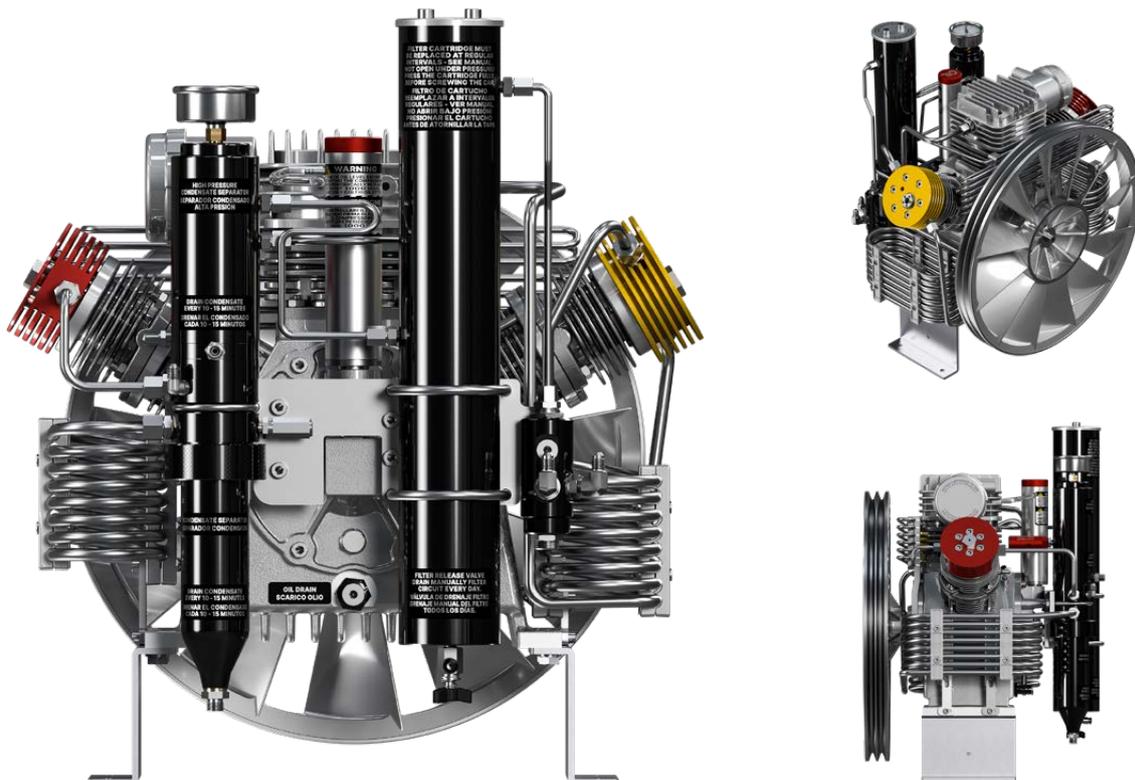
Electric motor

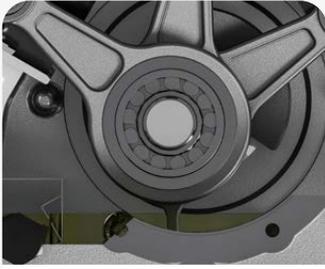
	210 EM	270 EM	235 ET	315 ET
Type	Single-phase electric		Three-phase electric	
Power	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp
Operating voltage/frequency Different voltage / frequency available on request.	220 V, 50 Hz	230 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz
Rated current	25,2 A	29,7 A	9,7 A	12,6 A
Speed (RPM)	2.850	3.510	2.840	3.410
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	270 EM	235 ET	315 ET
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	270 l/min 16.2 m³/h 9.5 cfm	235 l/min 14.1 m³/h 8.3 cfm	315 l/min 18.9 m³/h 11.1 cfm
Speed (RPM)	1.040	1.400	1.240	1.600
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			





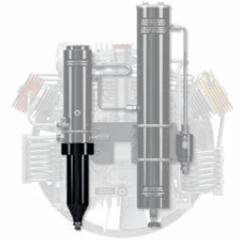
Splash lubrication with conrod pin immersed in oil



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



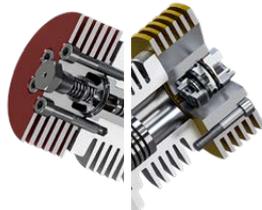
Die-cast aluminium cylinders with barrel coating in nicasil



Forged aluminum connecting rods



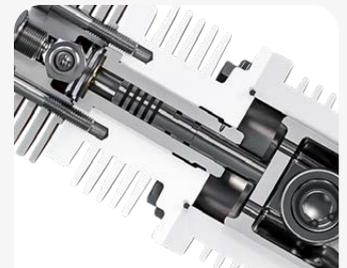
Forged steel crankshaft



Stainless steel second and third stage valves



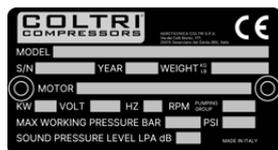
Roller Bearings for intensive work load



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.



Filling connection

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



Electromechanical pressure switch



Interstage pressure gauges



Compressor control and automatic condensate drain system



Soundproof frame

Optional



C-Monitor



Multi-Gas Analysis System (SAM)

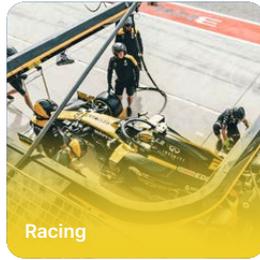


Autostart



CO SafeGuard

Application fields



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