

EFFICIENT LINE

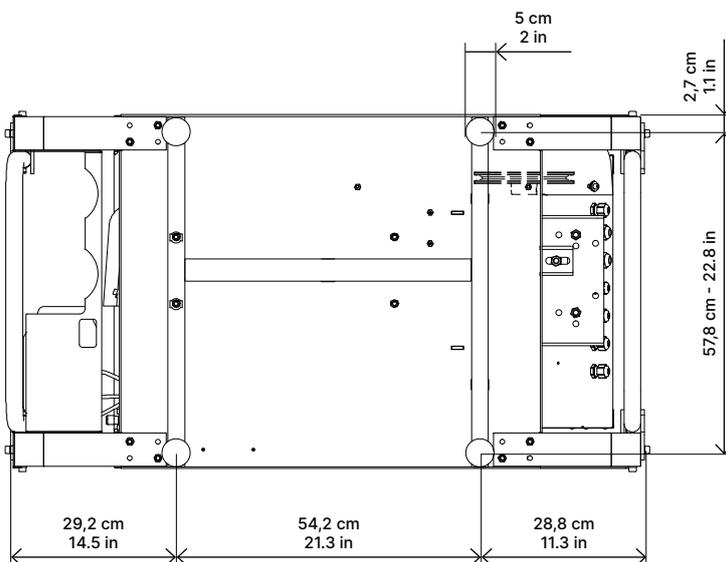
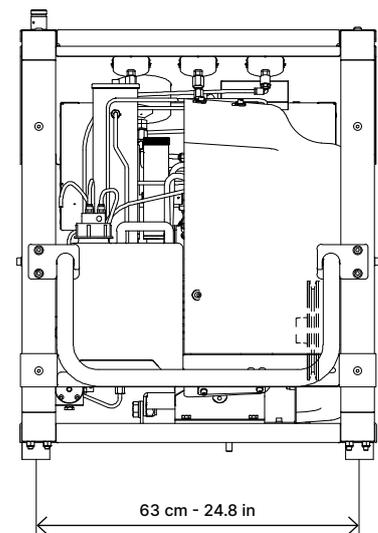
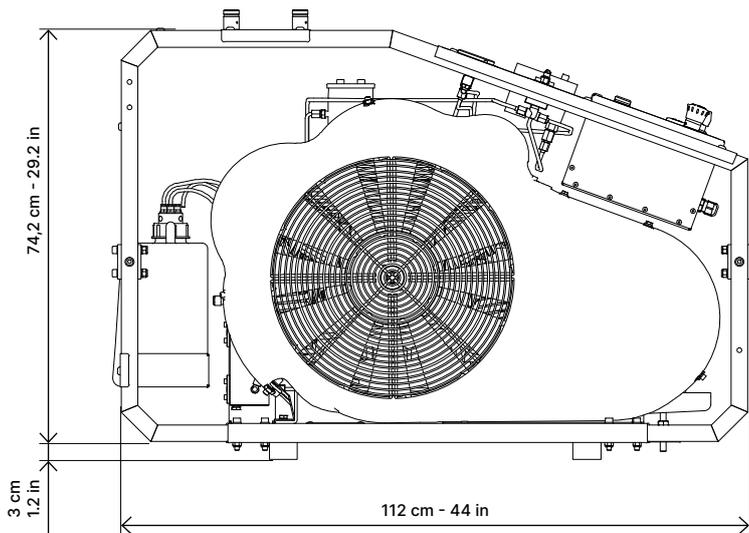
ERGO



Contact

Maximum efficiency in motion

Practical and lightweight, **ERGO** combines robustness and great operational efficiency. Equipped with two different pumping units, powered by electric motor, mono-phase or single-phase. It is equipped with a monitoring panel complete with interstage pressure gauges, autostop with adjustable pressure switch, automatic condensate drain and rotation direction control. There are two connections for high pressure hoses (from 232 to 330 bar) and a Maxifilter filter system. The Remote charging panels, the C-Monitor and the Multi-gas analysis system (SAM) are available as optional



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 m ³ /h 7.4 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	235 l/min 14.1 m ³ /h 8.3 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Purification System	Maxifilter			
Cooling air flow	1.240 m ³ /h	2.180 m ³ /h	1,440 m ³ /h	2.180 m ³ /h
Weight¹	159 kg - 350 lb	147 kg - 324 lb	159 kg - 350 lb	152 kg - 335 lb
Dimensions (W x D x H)¹	112 × 63 × 77 cm - 44.1 × 24.8 × 30.3 in			
Noise	LpA 78.4 dB			

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

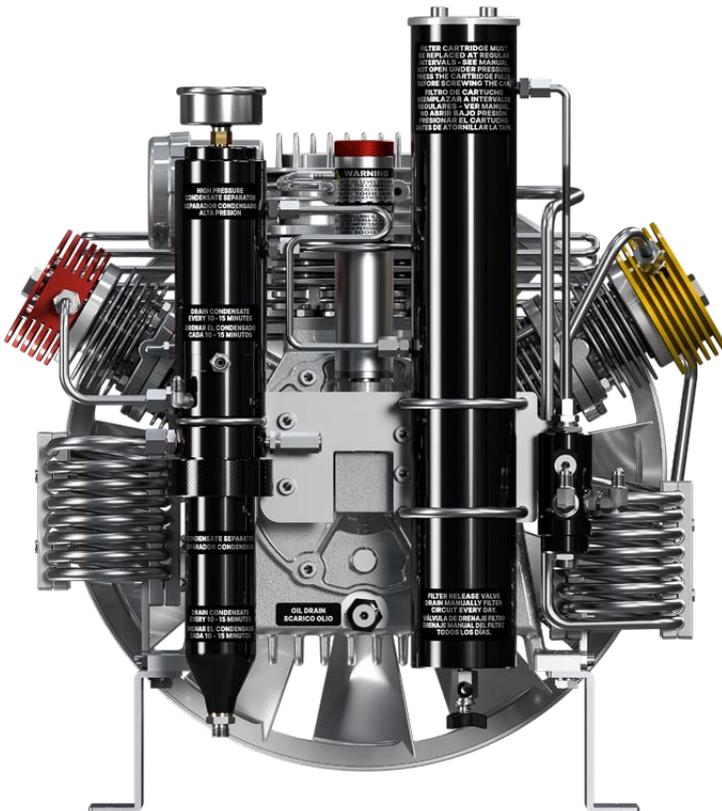
Electric motor

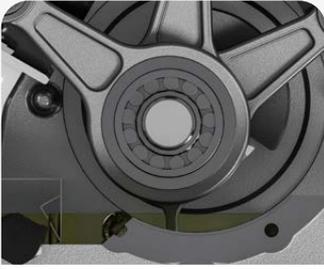
	210 EM	270 EM	235 ET	315 ET
Type	Single-phase electric		Three-phase electric	
Power	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp
Operating voltage/frequency Different voltage / frequency available on request.	220 V, 50 Hz	230 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz
Rated current	25,2 A	29,7 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
Amount of oil				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



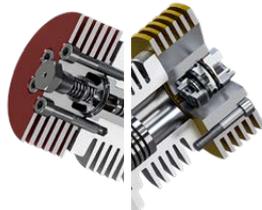
Die-cast aluminium cylinders with barrel coating in nicasil



Forged aluminum connecting rods



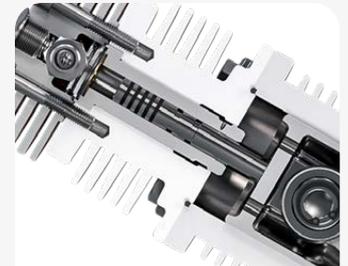
Forged steel crankshaft



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

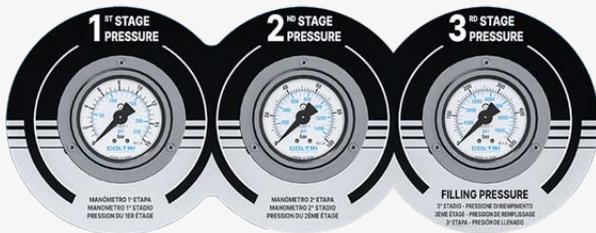
- * Measured at our facility using ASCO HORA 160 ANALYZER.
- Only with special filter cartridge with HOPCALITE CO CATALYST. and up to a maximum concentration of 25 ppm CO in intake air. The compressed clean breathing air then contains a maximum of 5 ppm CO.
 - The level of CO₂ in the intake air must 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.



Compressor control and automatic condensate drain system



Electromechanical pressure switch



Interstage pressure gauges



Filling connection

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

Optional

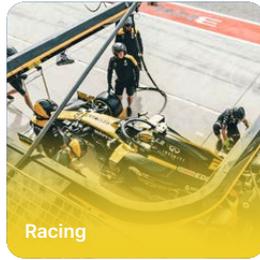


C-Monitor



Multi-Gas Analysis System (SAM)

Application fields



Aerotecnica Coltri S.p.A.

Via dei Colli Storici, 177
25015 Desenzano del Garda - Brescia - Italy

Tel. +39 030 9910301
+39 030 9910297

info@coltri.com



Printed on paper from
sustainably managed forests



coltri.com



Visit our
showroom in
Virtual Reality



coltri.com/showroom

COLTRI[®]
COMPRESSORS