

EFFICIENT LINE

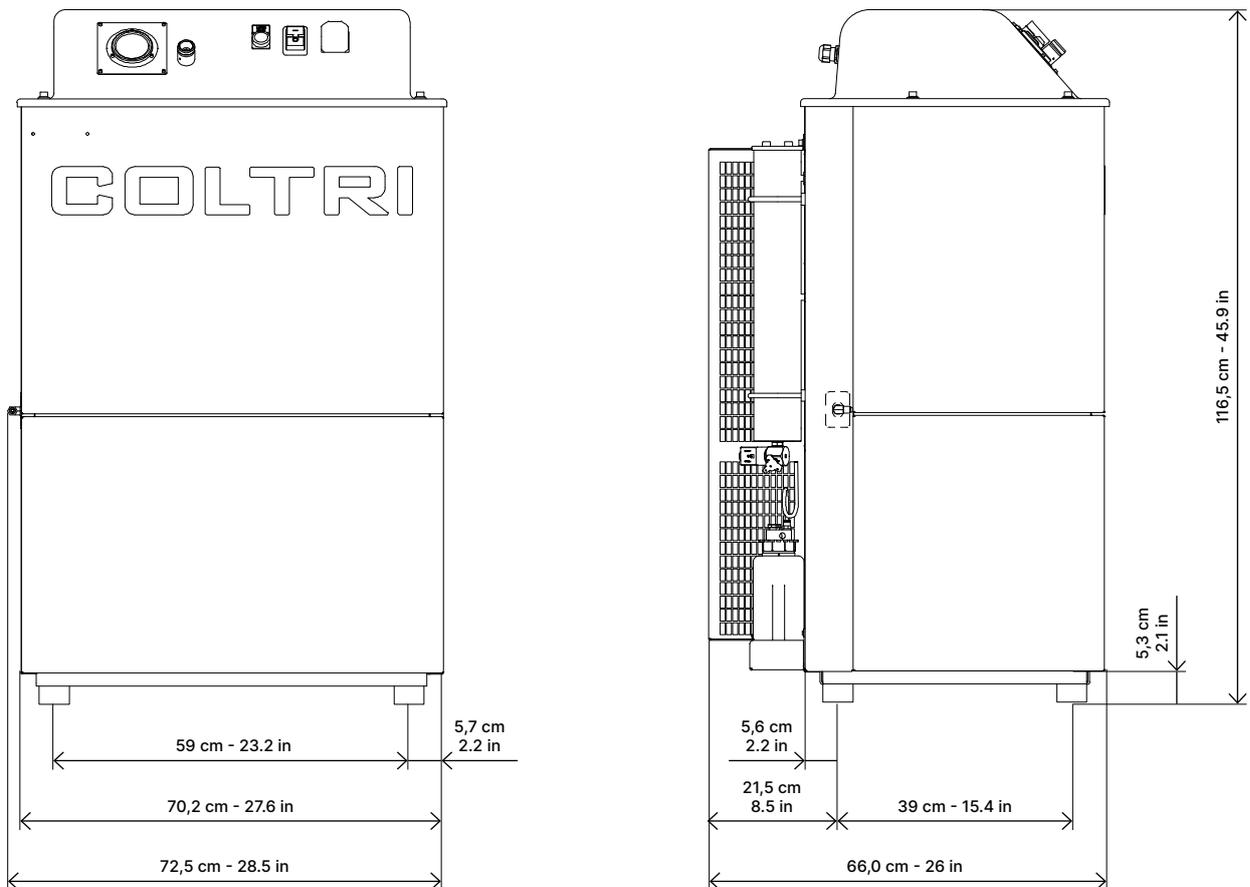
# MINI SILENT 100



Contact

# Maximum efficiency in motion

Coltri's breathing air compressors of the **MINI SILENT** series, equipped with 100 l/min pumping unit MCH 6, are characterized by extreme silence, obtained without sacrificing performance. The large space offered by the frame allows the use of a filtering system with Maxifilter. These compressors are available with single-phase or three-phase electric motor and integrated control panel with hour meter, they have automatic condensate drain and autostop as standard. The equipment includes a filling connection for flexible hose with working pressure from 232 to 330 bar.



## 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	330 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 Blue RAL 5015 - Powder coating painting - Scratch proof

## Compressor

	100 EM	100 ET
<b>Charging rate</b> Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.		100 l/min 6 m <sup>3</sup> /h 3.5 cfm
<b>Purification System</b>	Maxifilter	
<b>Cooling air flow</b>	792 m <sup>3</sup> /h	990 m <sup>3</sup> /h
<b>Weight<sup>1</sup></b>	84,5 kg - 186 lb	105 kg - 231.5 lb
<b>Dimensions (W x D x H)<sup>1</sup></b>	71,5 × 67 × 110 - 28.1 × 26.4 × 43.3 in	
<b>Noise</b>		LpA 70,3 dB

<sup>1</sup> Standard model. Dimensions and weight may vary depending on accessories.

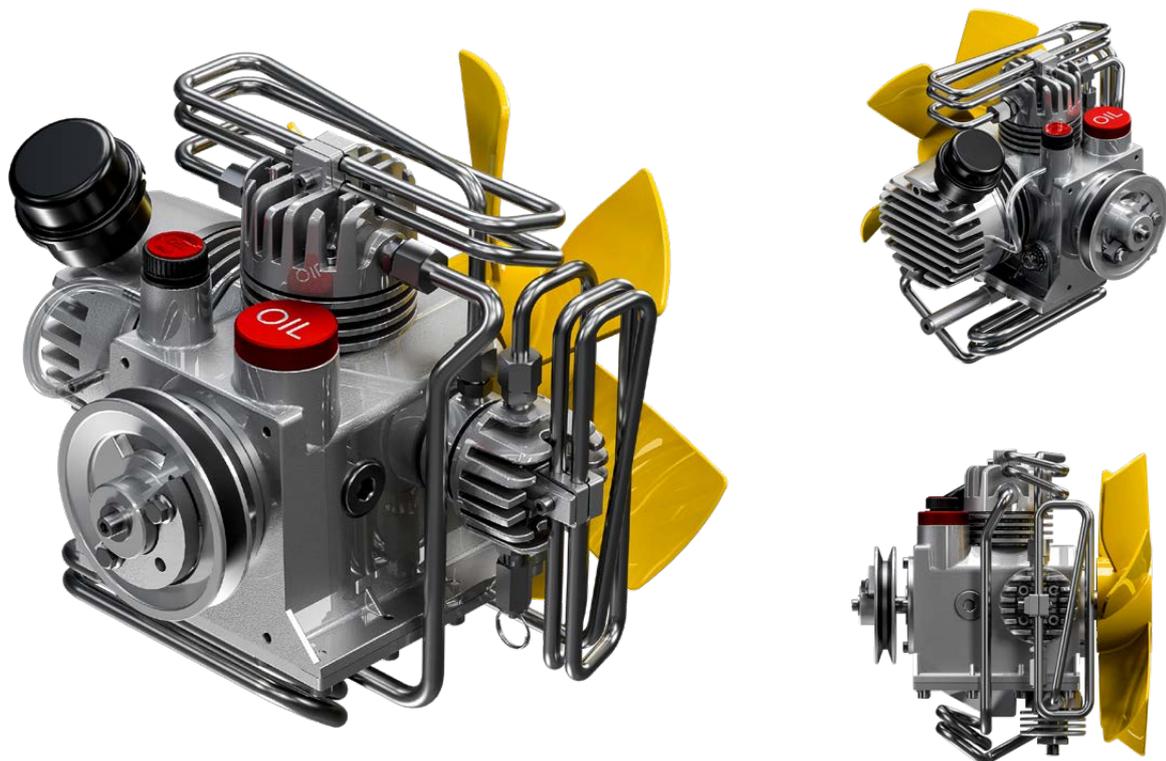
## Electric motor

	100 EM	100 ET	
<b>Type</b>	Single-phase electric	Three-phase electric	
<b>Power</b>	2,2 kW - 3 Hp	3 kW - 4 Hp	
<b>Operating voltage/frequency</b> Different voltage / frequency available on request.	220 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz
<b>Rated current</b>	25,2 A	7,7 A	
<b>Speed (RPM)</b>	3.450	2.840	3.410
<b>Protection class</b>	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 6

	100 EM	100 ET
<b>Charging rate</b> Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.		100 l/min 6 m³/h 3.5 cfm
<b>Speed (RPM)</b>	2.250	2.800
<b>Number of stages</b>		4
<b>Number of cylinders</b>		4
<b>Cylinder bore 1st stage</b>		78 mm
<b>Cylinder bore 2nd stage</b>		38 mm
<b>Cylinder bore 3rd stage</b>		19 mm
<b>Cylinder bore 4th stage</b>		9,7 mm
<b>Stroke</b>		13,5 mm
<b>Direction of rotation (from flywheel side)</b>		Clockwise (right)
<b>Drive type</b>		V-belt A type
<b>Intermediate pressure 1st stage</b>		~ 4,5 bar
<b>Intermediate pressure 2nd stage</b>		~ 16 bar
<b>Intermediate pressure 3rd stage</b>		~ 75 bar
<b>Oil sump capacity</b>		600 cc/ml
<b>Max intake pressure</b>	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



Forged aluminum connecting rods



Aluminium crankcase machined on horizontal CNC machine to ensure maximum precision



Forged steel crankshaft with hardened rings



Safety valve on the third stage



Final safety valve PED certified



CE certification

# Standard equipment

## Purification system Maxifilter

MAXIFILTER cartridge repackable or disposable



- 1 Moisture saturation indicator stripe
- 2 Molecular sieve
- 3 Activated carbon
- 4 Felt disc



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) <sup>1</sup>	890 m <sup>3</sup>

<sup>1</sup> 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%.



Autostop



Automatic condensate drain



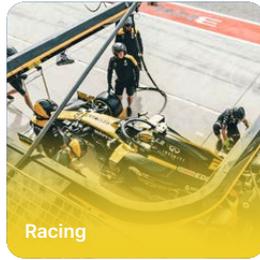
Soundproof frame



Filling connection

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

# Application fields



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