

PORTABLES LINE

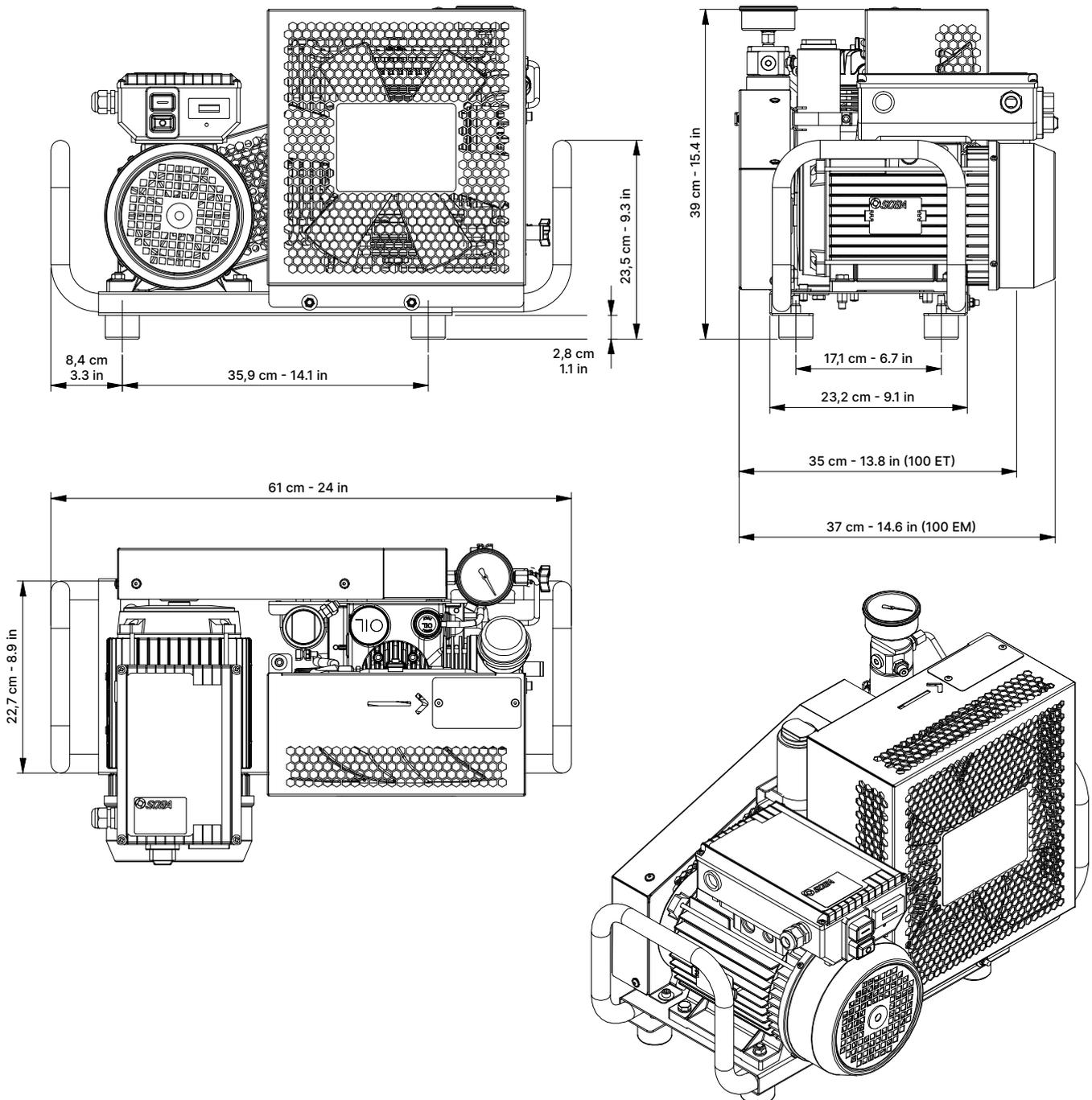
# ICON LSE



Contact

# A great little portable

The **ICON LSE** series are the world's most widely used portable compressors. Due to their small size and light weight, the models are perfect for a wide range of needs: high-pressure breathing air for diving, recreation, fire fighting and paintball facilities. **ICON LSE** is available with electric motor is are equipped with the MCH 6 pumping unit. Standard equipment includes a hose fill port with operating pressures from 232 to 330 bar. The user experience is highly customizable with the various options available such as pressure maintenance valve, automatic condensate drain and autostop.



## Technical data

Type of gas	Breathing air EN 12021
Intake pressure	Atmospheric / max 300 millibar
Working pressure	230 bar / 330 bar
Max working pressure	330 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 2.000 m SLM
Max permissible tilt	6°
Oil	Synthetic Coltri Oil ST 755
Oil change interval	1 year / 50 h
Frame	Steel - Colour Black RAL 9005 - 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>		Eco-filter
<b>Cooling air flow</b>		990 m <sup>3</sup> /h
<b>Weight<sup>1</sup></b>		38 kg - 83.8 lb
<b>Dimensions (W x D x H)<sup>1</sup></b>	61 × 37 × 39 cm 24 × 14.6 × 15.4 in	61 × 35 × 39 cm 24 × 13.8 × 15.4 in

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

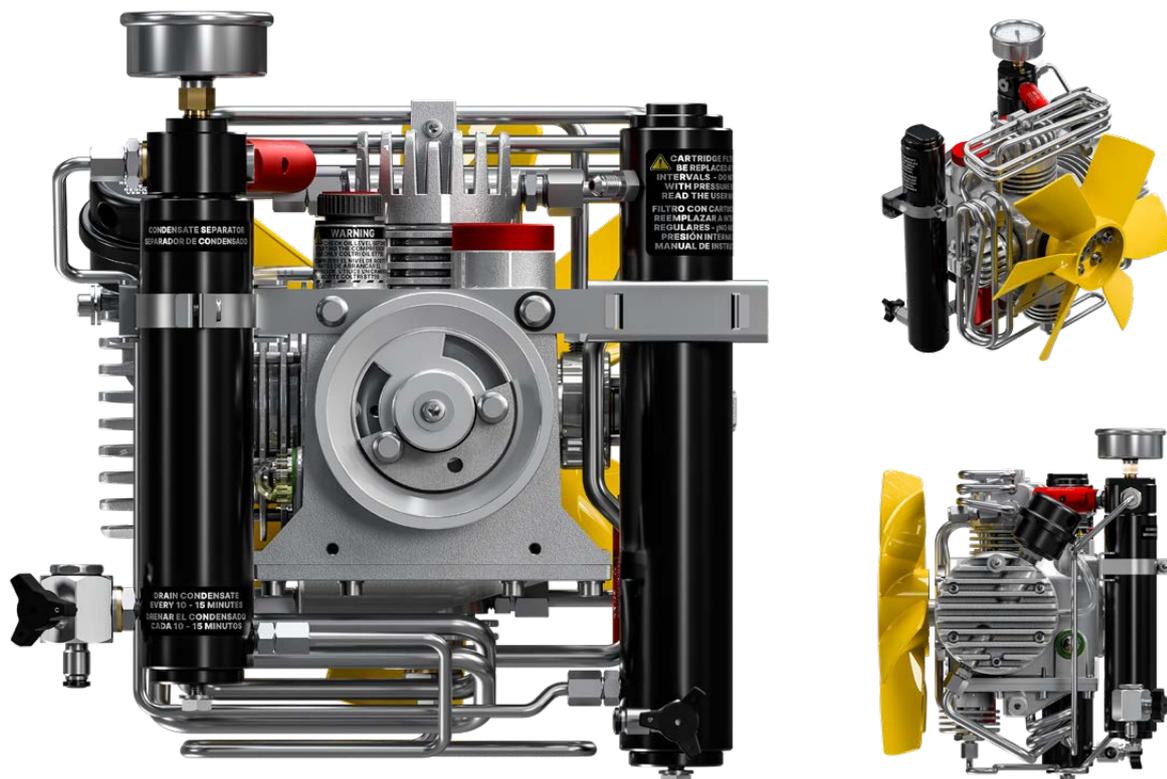
## Electric motor

	100 EM			100 ET	
Type	Single-phase electric			Three-phase electric	
Power	2,2 kW - 3 Hp			3 kW - 4 Hp	
Operating voltage/frequency	110 V, 60 Hz	230 V, 50 Hz	220 V, 60 Hz	230 V, 50 Hz	400 V, 50 Hz
Rated current	34,5 A	16,5 A		13,3 A	7,7 A
Speed (RPM)	3.400	2.800	3.400	2.840	
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 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 m <sup>3</sup> /h 3.5 cfm
<b>Speed (RPM)</b>		2.250
<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>Amount of oil</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



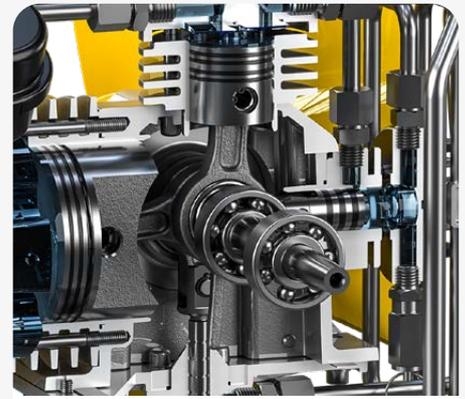
Pipes, fitting and nuts in stainless steel AISI 316



Forged aluminium connection rods



Aluminium crankcase machined on horizontal CNC machine to ensure maximum precision



Forged steel crankshaft with hardened rings



Safety valve on the third stage

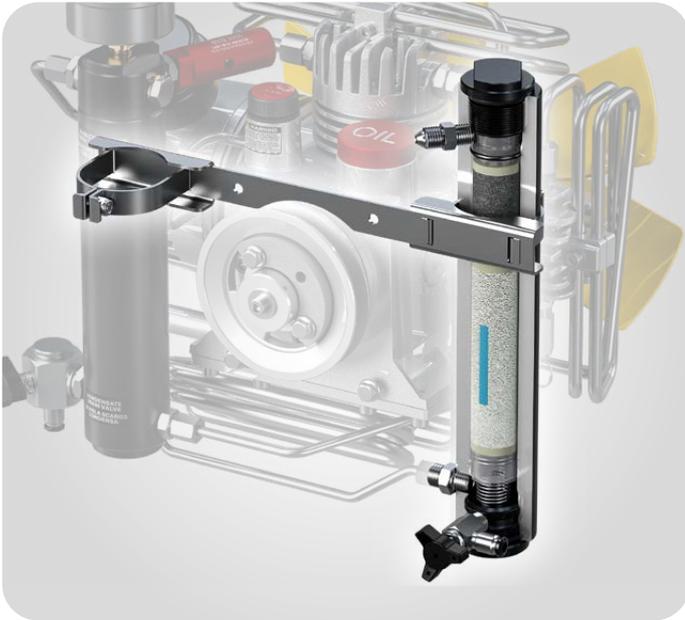


Final safety valve PED certified

# Standard equipment

## Purification system ECO-FILTER

ECO-FILTER disposable cartridge



Purification system	Eco-Filter
Operating pressure (Standard)	232 bar / 330 bar
Operating pressure max (PS)	360 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar) <sup>1</sup>	210 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%.

## Condensate separation system

Final separator for removal of oil/water condensate.  
Final safety valve, mounted on the separator housing.



Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H <sub>2</sub> O	25 mg/m	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO <sub>2</sub>	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 CO<sub>2</sub> in the intake air must not exceed the maximum level of CO<sub>2</sub> 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**

1 Filling connection to choose from: DIN 232 bar, INT and DIN 300 bar.



**Filling hose**

1200 mm with stainless steel fittings

**Optional**



**C-Monitor**



**Automatic condensate drain with timer**



**Autostop**



**Remote suction hose kit**



**Pressure maintaining valve**



**Stainless steel frame**

# 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](mailto:info@coltri.com)



Printed on paper from  
sustainably managed forests



[coltri.com](http://coltri.com)

Visit our  
showroom in  
Virtual Reality



[coltri.com/showroom](http://coltri.com/showroom)



**COLTRI**<sup>®</sup>  
COMPRESSORS