

## EFFICIENT LINE

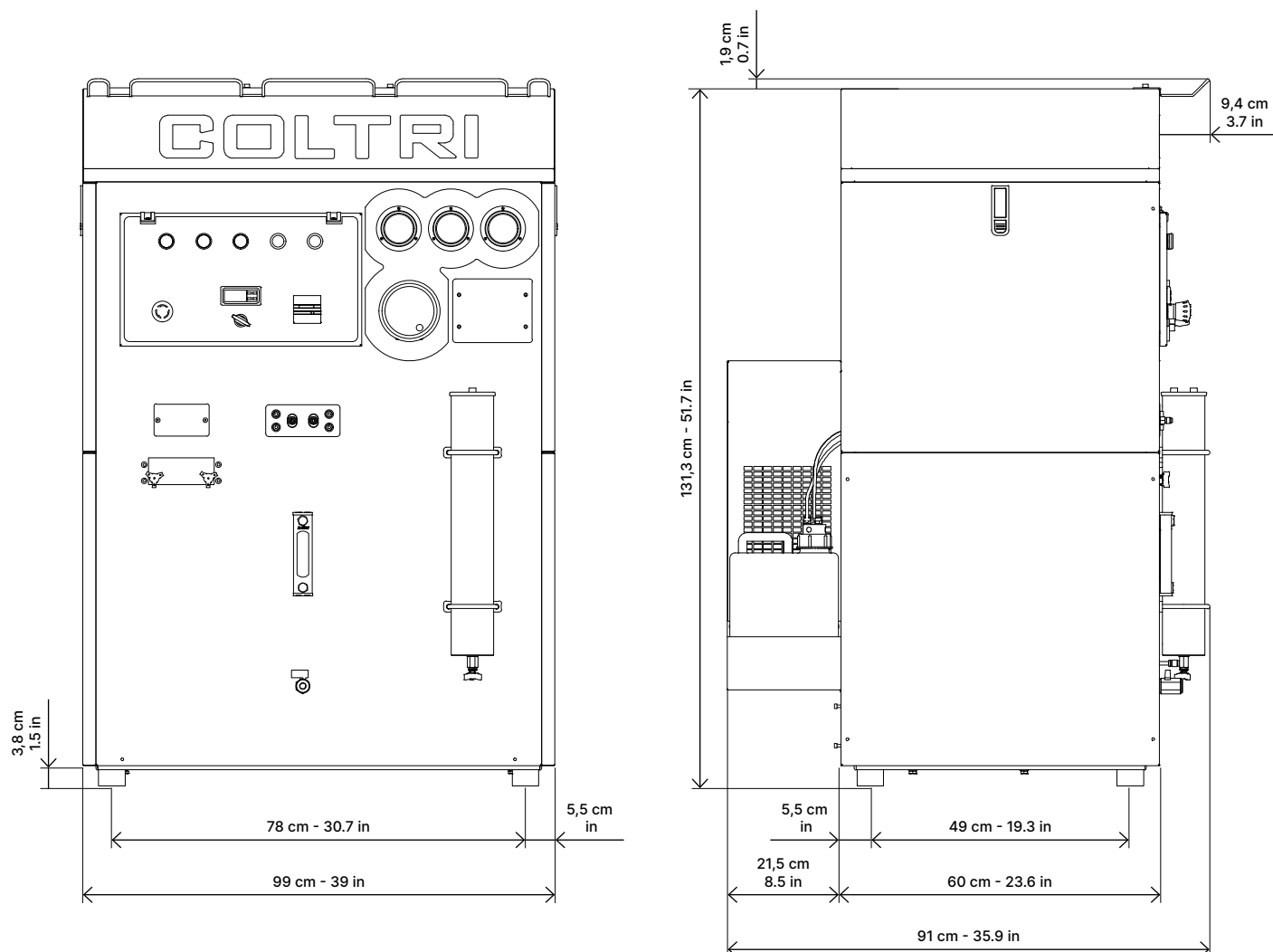
# SUPER SILENT



Contact

# Super, without the noise

The **SUPER SILENT** model stands out for its outstanding noise reduction. Easy to use, it features a high monitoring capability through control systems that track compressor operations. Standard equipment includes: two connections for high pressure hoses, interstage pressure gauge, oil level and internal cabin temperature control, rotation detector, electric motor, automatic condensate drain and autostop. Choose the best pumping group for your needs.



## 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                  | 420 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 Black RAL 9005 -<br>Powder coating painting - Scratch proof |

## Compressor

|                                                                                                                                        | 235 ET                                 | 315 ET                             |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
| <b>Charging rate</b><br>Measured during 10 liters cylinder filling from 0-200 bar<br>tolerance +/- 5% at + 20 ° C ambient temperature. | 235 l/min<br>14.1 m³/h<br>8.3 cfm      | 315 l/min<br>18.9 m³/h<br>11.1 cfm |
| <b>Purification System</b>                                                                                                             | Maxifilter                             |                                    |
| <b>Cooling air flow</b>                                                                                                                | 1,440 m³/h                             | 2.180 m³/h                         |
| <b>Weight<sup>1</sup></b>                                                                                                              | 162 kg - 357 lb                        | 168 kg - 370 lb                    |
| <b>Dimensions (W x D x H)<sup>1</sup></b>                                                                                              | 90 × 91 × 132 cm - 35.4 × 35.8 × 52 in |                                    |
| <b>Noise</b>                                                                                                                           | LpA 63,3 dB                            |                                    |

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

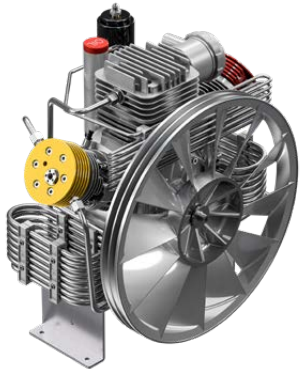
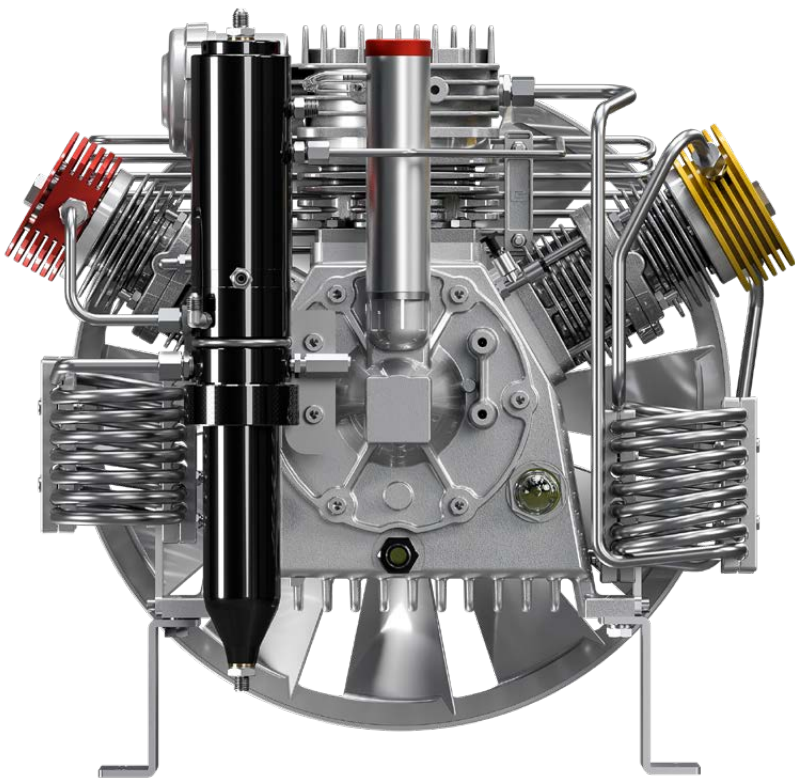
## Electric motor

|                                                                                           | 235 ET               | 315 ET          |
|-------------------------------------------------------------------------------------------|----------------------|-----------------|
| <b>Type</b>                                                                               | Three-phase electric |                 |
| <b>Power</b>                                                                              | 4 kW - 5.5 Hp        | 5,5 kW - 7.5 Hp |
| <b>Operating voltage/frequency</b><br>Different voltage / frequency available on request. | 400 V, 50 Hz         | 440 V, 60 Hz    |
| <b>Rated current</b>                                                                      | 9,7 A                | 12,6 A          |
| <b>Speed (RPM)</b>                                                                        | 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 16

|                                                                                                                                 | 235 ET                                       | 315 ET                             |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|
| Charging rate<br>Measured during 10 liters cylinder filling from 0-200 bar<br>tolerance +/- 5% at + 20 ° C ambient temperature. | 235 l/min<br>14.1 m³/h<br>8.3 cfm            | 315 l/min<br>18.9 m³/h<br>11.1 cfm |
| Speed (RPM)                                                                                                                     | 1.270                                        | 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 |                                    |

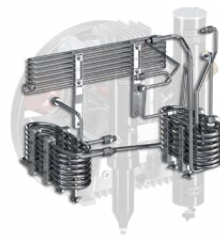




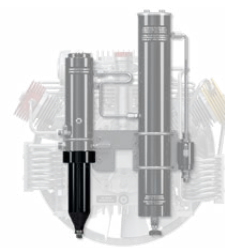
Splash lubrication with conrod pin immersed in oil



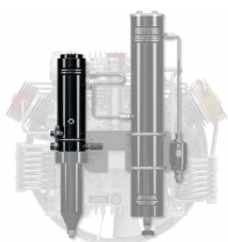
Suction filter: 10 µm



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



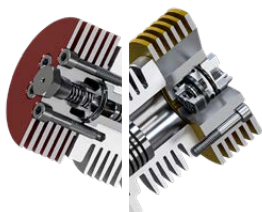
Die-cast aluminium cylinders with barrel coating in nicasil



Forged aluminum connecting rods



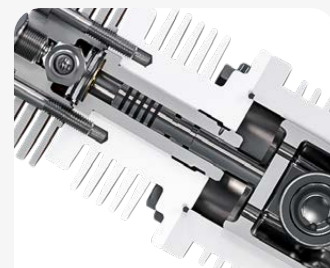
Forged steel crankshaft



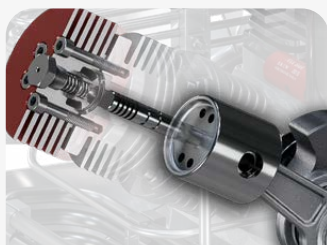
Stainless steel second and third stage valves



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<br>(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%.

## 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<br>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

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

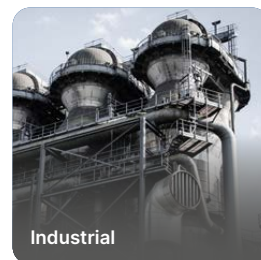
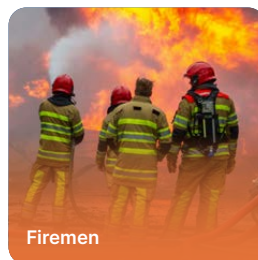
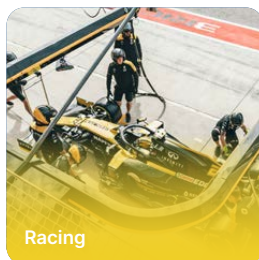
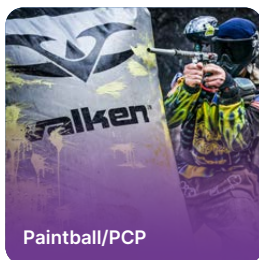
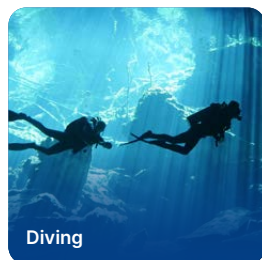


## Multi-Gas Analysis System (SAM)



## CO SafeGuard

# Application fields



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