

BOOSTER LINE

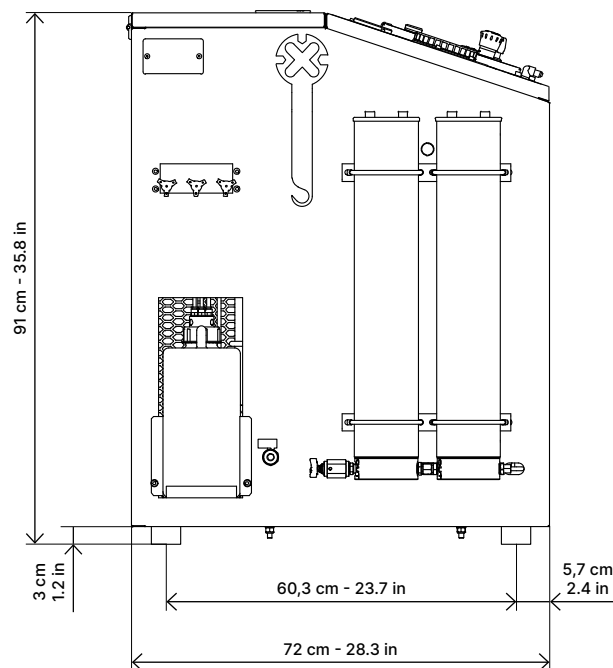
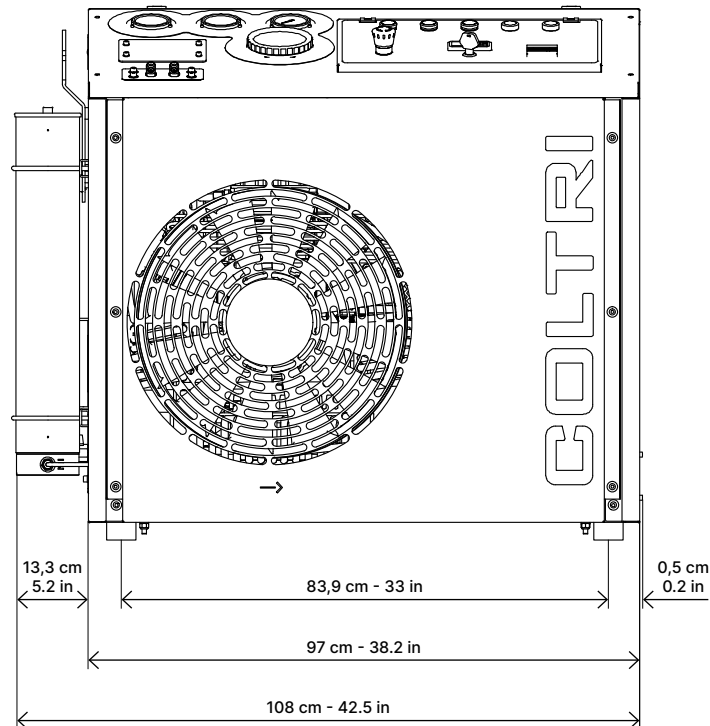
**ACE III**

**ACE III ZERO LOSS**



Contact

# Simplicity at the services of your company



## Technical data

Type of gas	Air - Nitrogen
Intake pressure	Min. 2 bar Max. 8 bar
Working pressure	232 bar / 300 bar
Max working pressure	420 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	15°
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

	4 KW	5,5 KW	7,5 KW
Flow rate	Min. 28,5 - Max. 235 l/min Min. 1.7 - Max. 14,1 m³/h Min. 1 - Max. 8,3 cfm	Min. 41 - Max. 350 l/min Min. 2.5 - Max. 21 m³/h Min. 1.4 - Max. 12.4 cfm	Min. 77 - Max. 430 l/min Min. 4.6 - Max. 25.8 m³/h Min. 2.7 - Max. 15.2 cfm
Purification System	2 Hyperfilter with activated carbon		
Cooling air flow	1.480 m³/h	1.960 m³/h	2.180m³/h
Weight <sup>1</sup>	163 kg - 359 lb		200 kg - 441 lb
Dimensions (W x D x H) <sup>1</sup>	108 × 72 × 91 cm - 42.5 × 28.3 × 35.8 in		

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

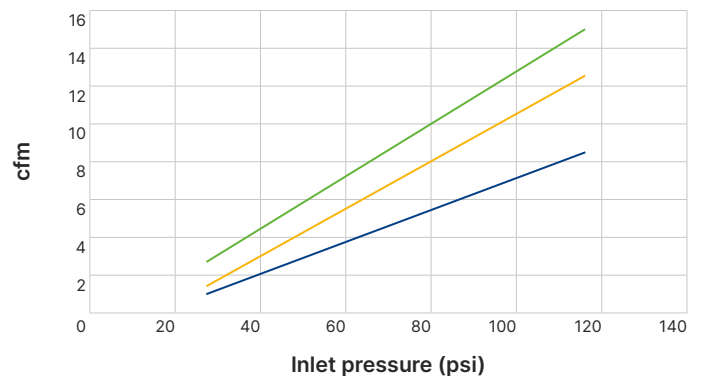
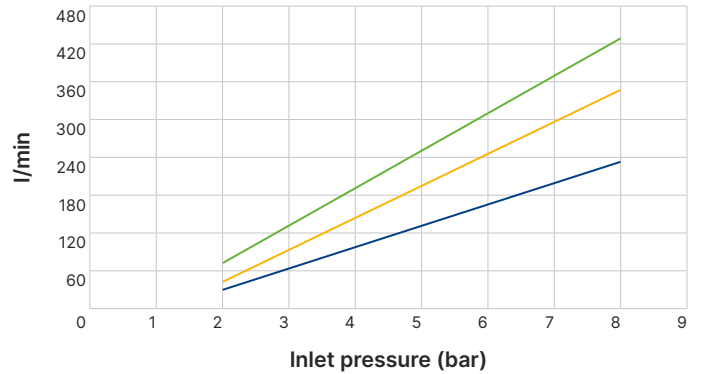
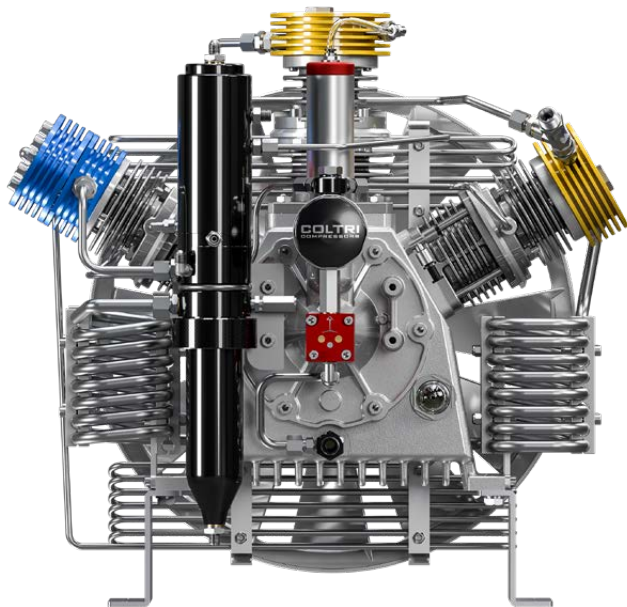
## Electric motor

	4 KW		5,5 KW		7,5 KW	
Type	Three-phase electric					
Power	4 kW - 5.5 Hp		5,5 kW - 7.5 Hp		7,5 kW - 10 Hp	
Operating voltage/frequency <small>Different voltage / frequency available on request.</small>	400 V, 50 Hz	440 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz
Rated current	9,7 A		12,6 A		15 A	
Speed (RPM)	2.840	3.410	2.850	3.420	2.870	3.440
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 23

	4 KW	5,5 KW	7,5 KW
Intake pressure	Min. 2 bar Max. 8 bar		
Flow rate	Min. 28,5 - Max. 235 l/min Min. 1.7 - Max. 14,1 m <sup>3</sup> /h Min. 1 - Max. 8,3 cfm	Min. 41 - Max. 350 l/min Min. 2.5 - Max. 21 m <sup>3</sup> /h Min. 1.4 - Max. 12.4 cfm	Min. 77 - Max. 430 l/min Min. 4.6 - Max. 25.8 m <sup>3</sup> /h Min. 2.7 - Max. 15.2 cfm
Speed (RPM)	1.200	1.600	1.660
Number of stages	2 + 1 service (Zero Loss)		
Number of cylinders	2 + 1 service (Zero Loss)		
Cylinder bore 2nd stage	38 mm		
Cylinder bore 3rd stage	15 mm		
Stroke	50 mm		
Direction of rotation from flywheel side	Counter clockwise (left)		
Drive type	V-belt A type		
Oil sump capacity	1,8 liters		



**ACE III 4 KW**

l/min: Min. 28,5 - Max. 235  
cfm: Min. 1 - Max. 8,3

**ACE III 5.5 KW**

l/min: Min. 41 - Max. 350  
cfm: Min. 1,4 - Max. 12,4

**ACE III 7.5 KW**

l/min: Min. 77 - Max. 430  
cfm: Min. 2,7 - Max. 15,2



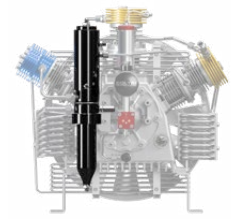
**Forced lubrication with low pressure gear pump**



**Safety valves after each stage of compression**



**Pipes, fitting and nuts in stainless steel AISI 316**



**Condensate separator after the medium pressure stage and final high pressure stage**



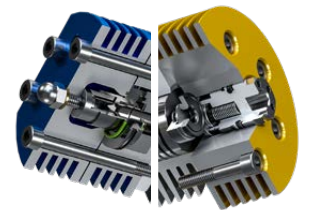
**Die-cast aluminium cylinders with barrel coating in nicasil**



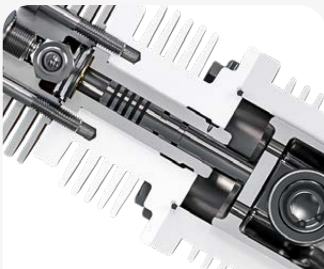
**Forged aluminum connecting rods**



**Forged steel crankshaft**



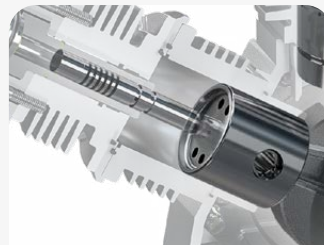
**Stainless steel second and third stage valves**



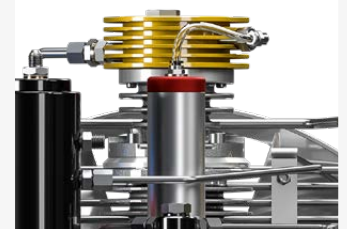
**Third stage in tempered steel with 5 piston rings in special cast iron**



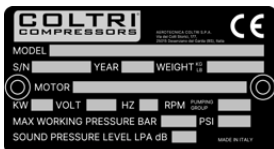
**Roller Bearings for intensive work load**



**Second and third stage with pushing pistons to eliminate lateral forces on the pistons**



**First stage for gas recovery (only for Zero Loss version)**



**CE certification**

# Standard equipment

## Purification system Hyperfilter for nitrogen

DOUBLE HYPERFILTER regenerable or disposable cartridge



Purification system	Hyperfilter x 2
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Filtered gas volume (nitrogen) When using a filter cartridge of the type shown in the figure.	52.500 m <sup>3</sup>

## Condensate separation system

- Interstage separator after 2nd stage, forged and anodized aluminum
- Double final separator for removal of oil/water condensate
- Final safety valve, mounted on the separator housing
- Pressure maintenance valve / non-return valve



Contamination	Maximum content as per DIN EN 12021:2014	Gas quality*
Oil	0,5 mg/m	≤ 0,5 mg/m

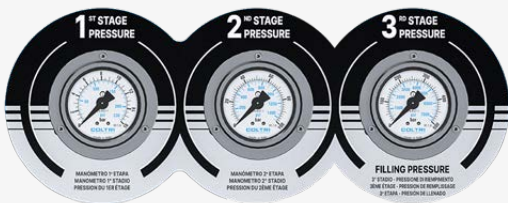
\* Measured at our facility using ASCO HORA 160 ANALYZER.  
• Reported values exceed ISO 8573-1 standards.



Compressor control and automatic condensate drain system



Electronic pressure switch



Interstage pressure gauges

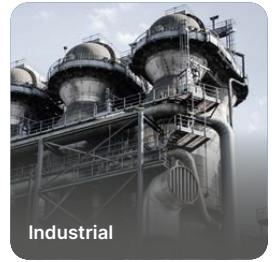
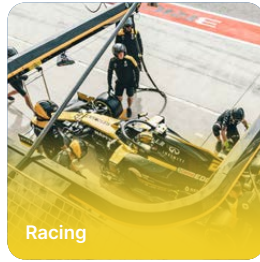


Soundproof frame



Filling hose

# Application fields



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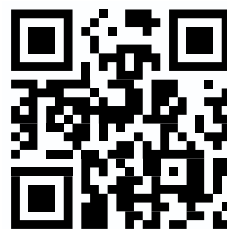
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