

CNG LINE

CNG BOOSTER VII



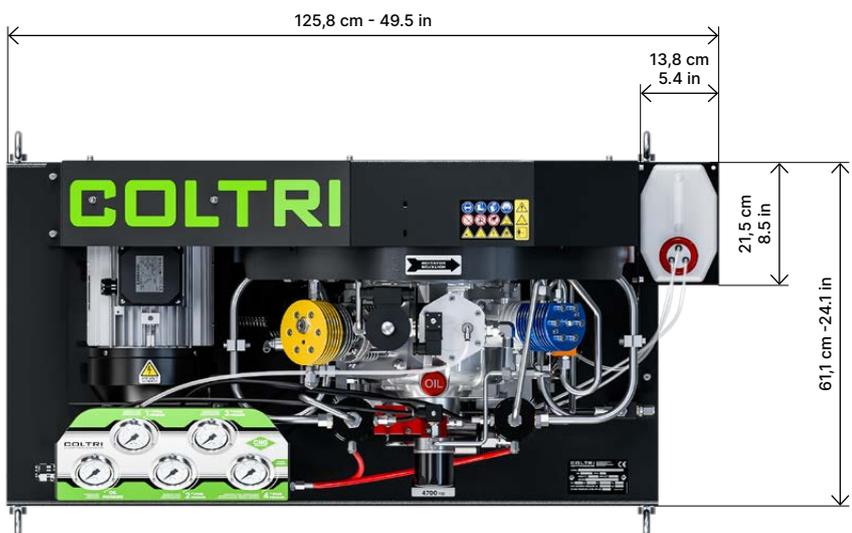
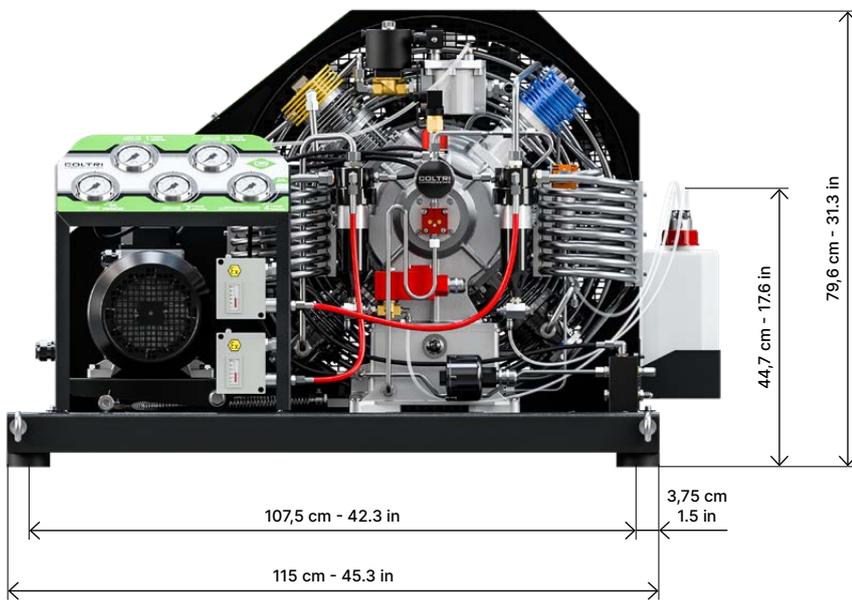
Coltri OEM/Distributor



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Highest efficiency, lowest emissions

The innovative CNG BOOSTER VII series boosters can compress up to 250 bar of previously treated and filtered natural gas and biomethane. They are designed and developed for professional use due to their 4 compression stages and low RPM. CNG Boosters VII have a flow rate that can range from 330 to 750 l/min, providing a high-performance power range. The remote control panel, supplied with a 5-meter cable, provides all indications to operate in maximum safety. Included is the innovative Hyperfilter filter system with 2 molecular sieve cartridges.



Technical data

Type of gas	Natural gas - Methane
Intake pressure	2 bar - 5 bar
Working pressure	200 bar / 250 bar
Max working pressure	200 bar / 250 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

	9 KW	11 KW
Flow rate	Min. 330 - Max. 600 l/min Min. 19 - Max. 36 m³/h Min. 10.6 - Max. 21.2 cfm	Min. 350 - Max. 750 l/min Min. 21 - Max. 45 m³/h Min. 12.4 - Max. 26.5 cfm
Purification System	Hyperfilter with molecular sieve	
Cooling air flow	2.400 m³/h	
Weight ¹	225 kg - 496 lb	
Dimensions (W x D x H) ¹	115 × 60 × 79,6 cm - 45.3 × 23.6 × 31.3 in	

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

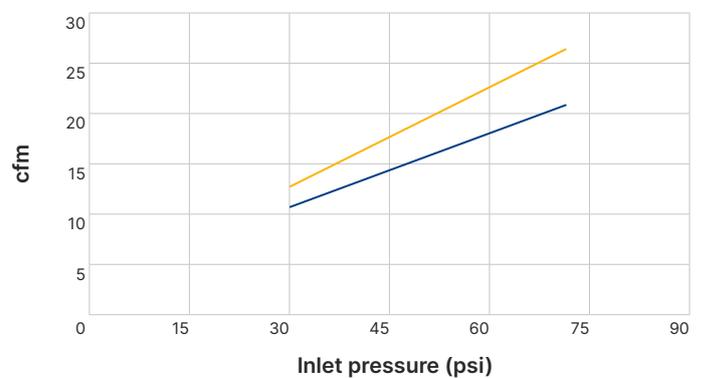
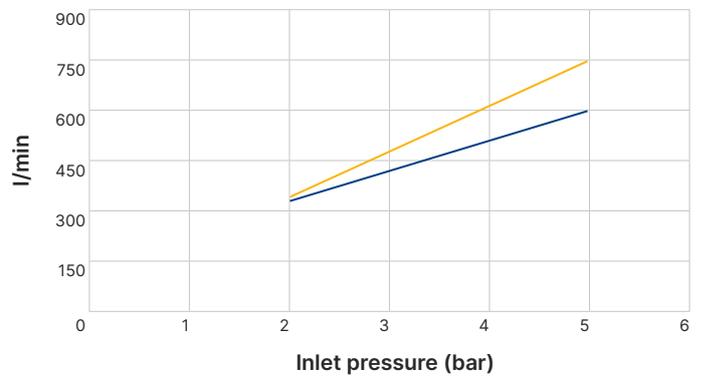
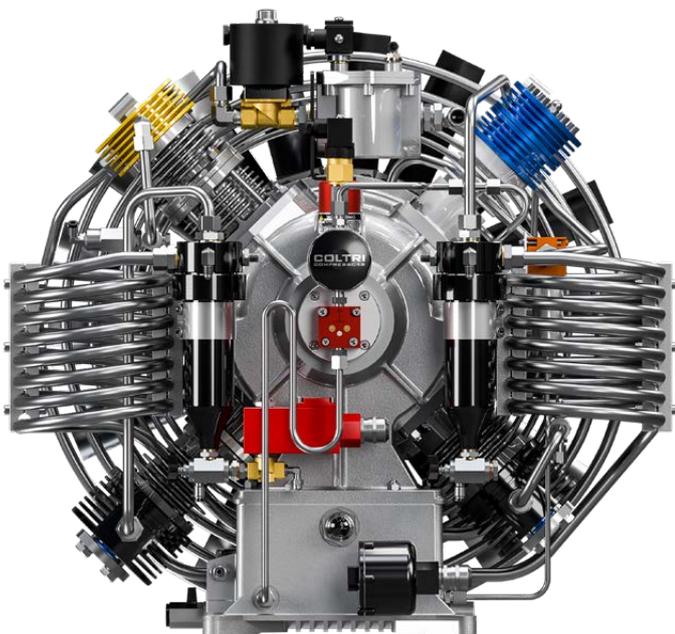
Electric motor

	9 KW		11 KW	
Type	Three-phase electric			
Power	9 kW - 12 Hp		11 kW - 14 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
Rated current	18,8 A		23 A	
Speed (RPM)	2.880	3.450	2.910	3.500
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 24

	9 KW	11 KW
Flow rate	Min. 330 - Max. 600 l/min Min. 19 - Max. 36 m ³ /h Min. 10.6 - Max. 21.2 cfm	Min. 350 - Max. 750 l/min Min. 21 - Max. 45 m ³ /h Min. 12.4 - Max. 26.5 cfm
Speed (RPM)	1.100	1250
Number of stages	3	
Number of cylinders	3	
Cylinder bore 2nd stage	60 mm	
Cylinder bore 3rd stage	32 mm	
Cylinder bore 4th stage	15 mm	
Stroke	50 mm	
Direction of rotation (from flywheel side)	Counter clockwise (left)	
Drive type	V-belt A type	
Intermediate pressure 1st stage	~ 3,2 bar	
Intermediate pressure 2nd stage	~ 16 bar	
Amount of oil	1,8 liters	



9 KW

l/min Min. 330 - Max. 600
cfm Min. 10.6 - Max. 21.2

11 KW

l/min Min. 350 - Max. 750
cfm Min. 12.4 - Max. 26.5



Forced lubrication with low pressure gear pump



Inlet filter



Pipes, fitting and nuts in stainless steel AISI 316



Intermediate condensate separator after the second stage



High pressure final condensate separator double effect



Pressure switches valves after each stage of compression



Special cast iron cylinders with low roughness lapping



Forged aluminum connecting rods



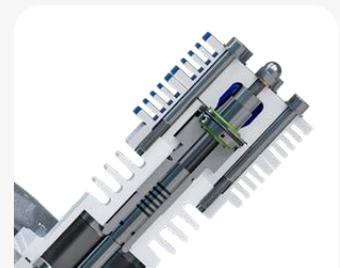
Forged steel crankshaft



High-flow second and third stage valves



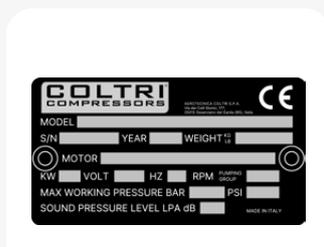
Roller bearings for intensive work



Fourth stage in tempered steel with 6 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 Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge

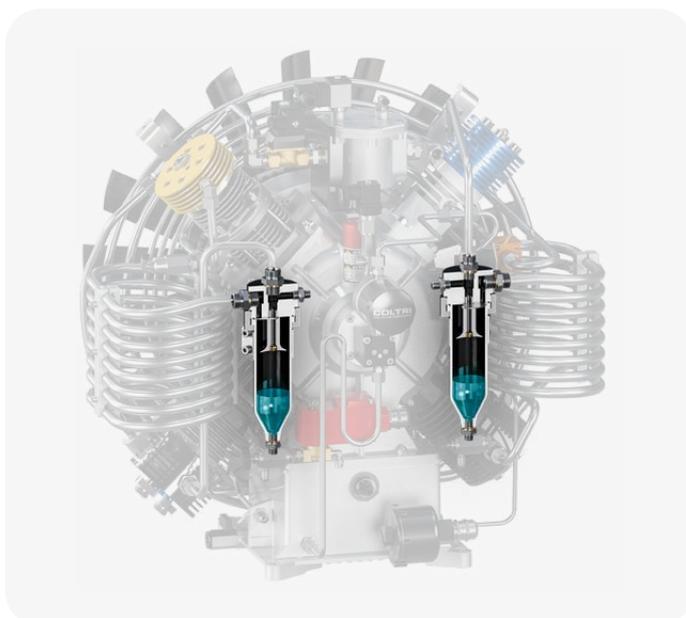


Purification system	Hyperfilter x 2
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar) ¹	3.050 m ³

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%.

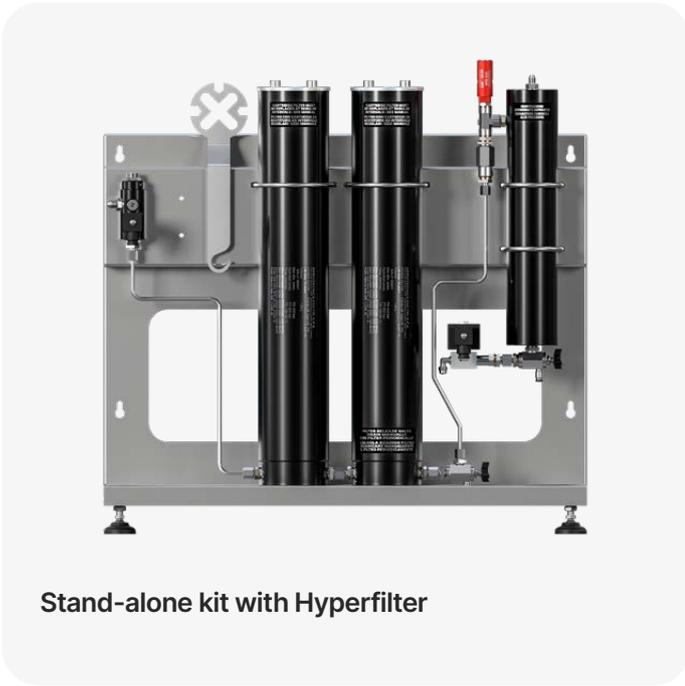
Condensate separation system

- Interstage separator after 2nd stage, 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

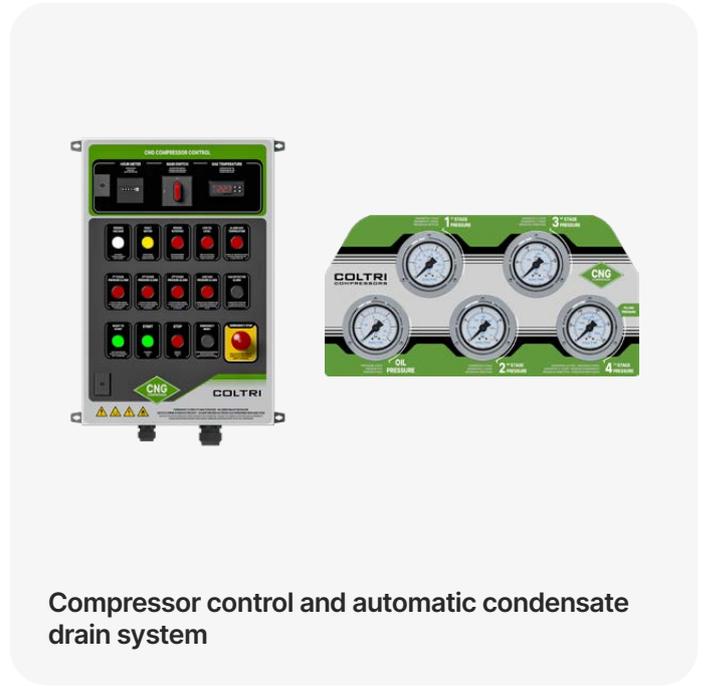


Contamination	Maximum content as per DIN EN 12021:2014	Gas quality*
Oil	0,5 mg/m	≤ 0,5 mg/m

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



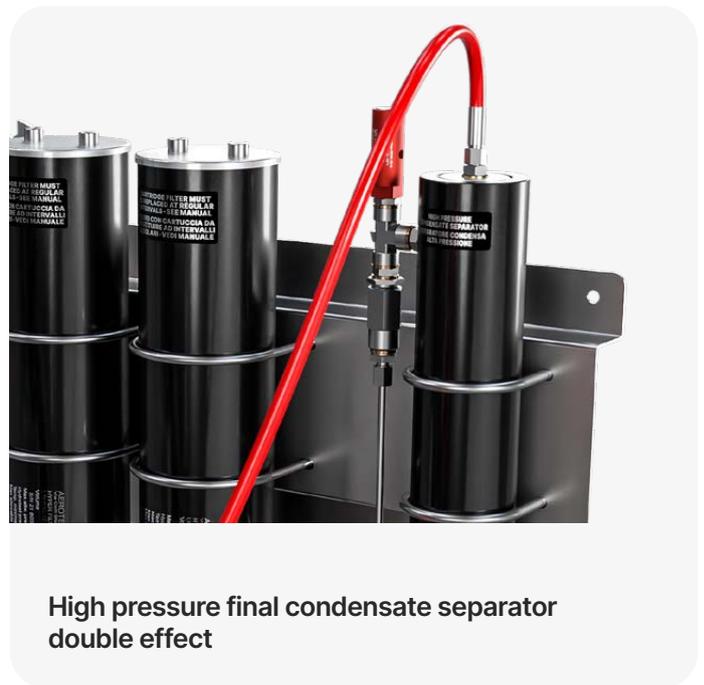
Stand-alone kit with Hyperfilter



Compressor control and automatic condensate drain system

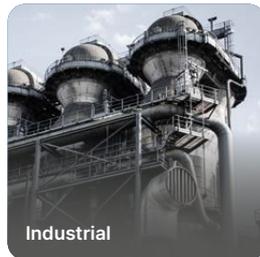
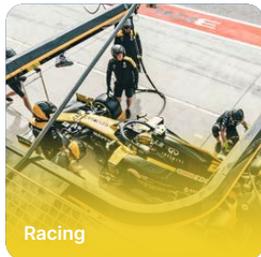


Automatic condensate drain



High pressure final condensate separator double effect

Application fields



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COMPRESSORS