

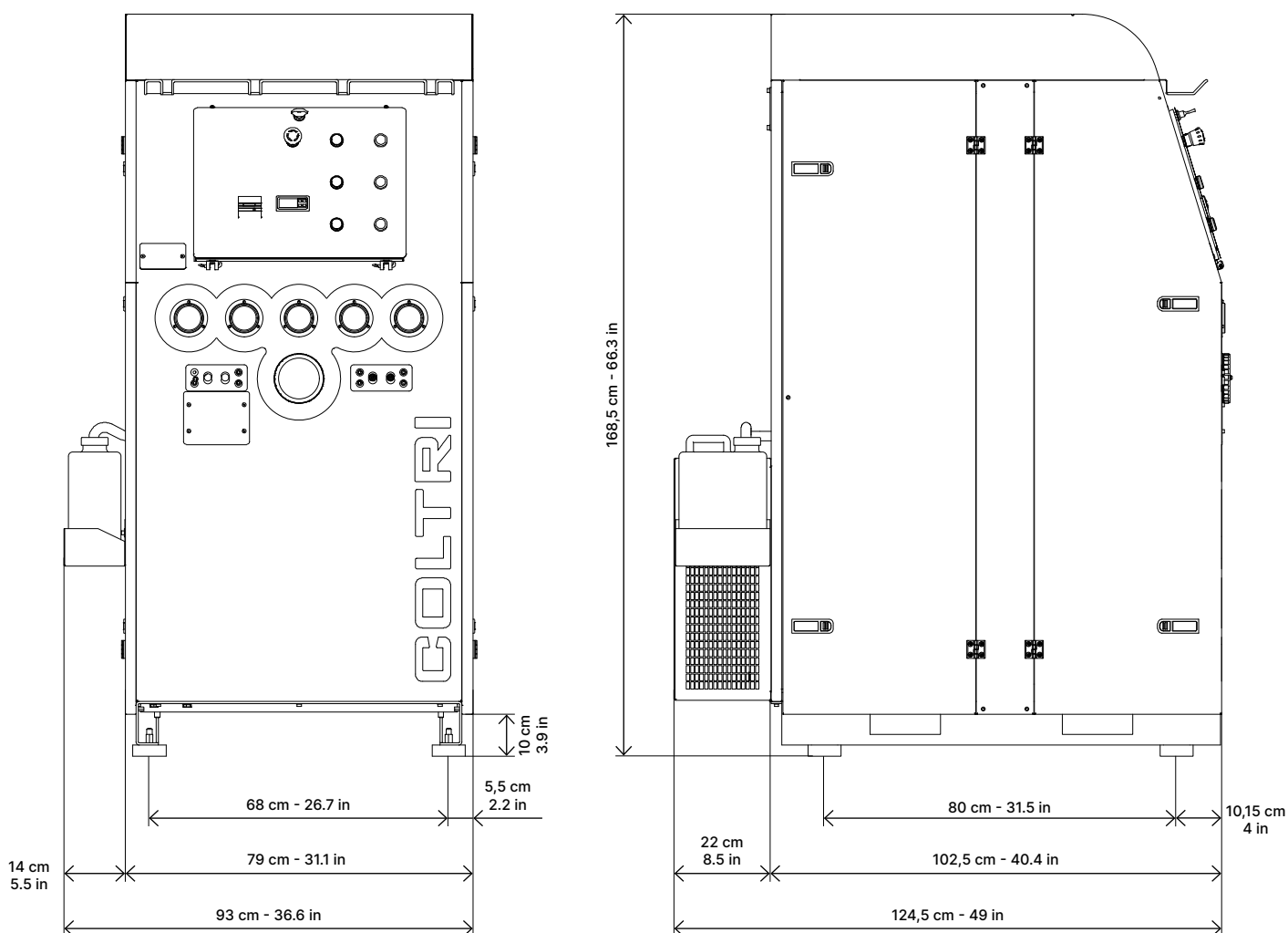
HEAVY DUTY LINE SILENT



Contact

What you don't feel is his greatest performance

The **SILENT** model reaches new heights in terms of soundproofing, falling below the 70 dB operating threshold. Built to meet the demands of intensive use when large refill capacities are required, it has 4 front filling connections with high pressure hoses and an intuitive control panel. It also has an electric motor and powerful pumping units. For longer filter life, we recommend the Tornado high pressure dryer. Available option: Presec system for filter saturation control or the SAM system for multigas analysis and remote charging panel.



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	232 bar (Single-phase electric) / 420 bar (Three-phase electric)
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 anno / 1.000 h
Frame	Steel - Colour Black RAL 9005 - Powder coating painting - Scratch proof

Compressor

	400 EM	450 ET	550 ET	650 ET	750 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	400 l/min 24 m³/h 14,1 cfm	450 l/min 27 m³/h 15,9 cfm	550 l/min 33 m³/h 19,4 cfm	650 l/min 39 m³/h 23 cfm	750 l/min 45 m³/h 26,5 cfm
Purification System	Hyperfilter x 2				
Cooling air flow	4.050 m³/h		4.820 m³/h		5.590 m³/h
Weight¹	446 kg - 983 lb		451 kg - 994 lb	455 kg - 1.003 lb	463 kg - 1.020 lb
Dimensions (W x D x H)¹	93 × 124,5 × 168,5 cm - 36.6 × 49 × 66.3 in				
Noise				LpA 68,6 dB	

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

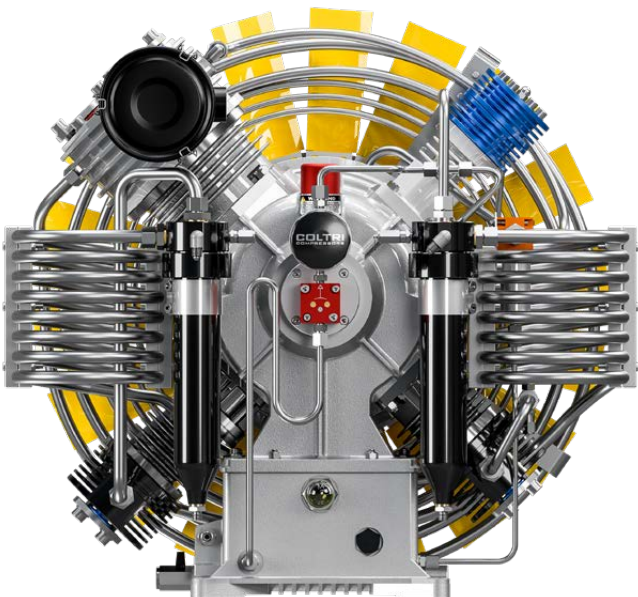
Electric motor

	400 EM	450 ET		550 ET		650 ET		750 ET	
Type	Single-phase electric	Three-phase electric							
Power	7,5 kW - 10 Hp	7,5 kW - 10 Hp		9 kW - 12.5 Hp		11 kW - 15 Hp		15 kW - 20 Hp	
Operating voltage/frequency Different voltage / frequency available on request.	230 V, 60 Hz	400 V, 50 Hz	440 V, 60 Hz	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	41,3 A	15 A		18,8 A		23 A		31 A	
Speed (RPM)	3.525	2.870	3.440	2.880	3.450	2.910	3.500	2.920	3.500
Protection class	IP55								

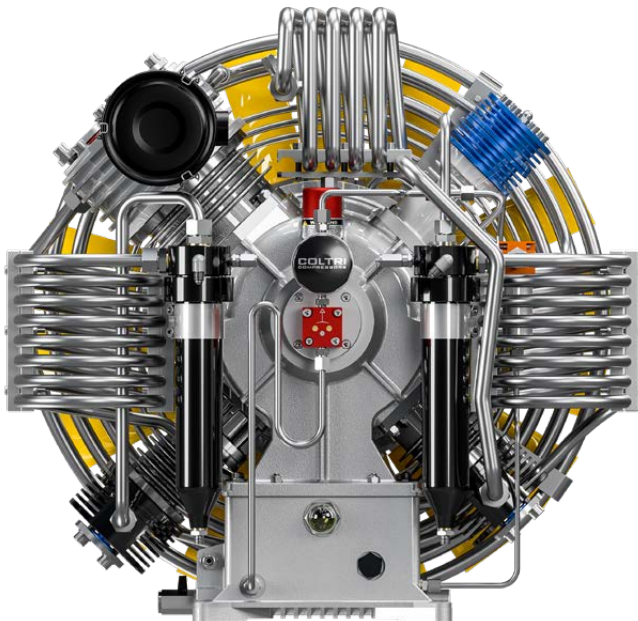
The IP55 protection class, compliant with IEC 60034-5, guarantees protection against dust deposits and water jets from any direction.

Technical data pumping unit MCH 22/36

	400 EM	450 ET	550 ET	650 ET	750 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	400 l/min 24 m3/h 14,1 cfm	450 l/min 27 m³/h 15,9 cfm	550 l/min 33 m³/h 19,4 cfm	650 l/min 39 m³/h 23 cfm	750 l/min 45 m³/h 26,5 cfm
Speed (RPM)	1.050	1.050	1.250		1.420
Number of stages	4				
Number of cylinders	4				
Cylinder bore 1st stage	120 mm			130 mm	
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				
Oil sump capacity	4 liters				
Max intake pressure	1,3 bar (absolute) / 300 millibar - 4,35 psi				



MCH 22



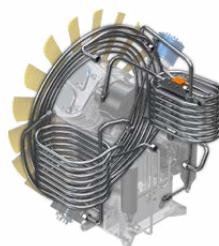
MCH 36



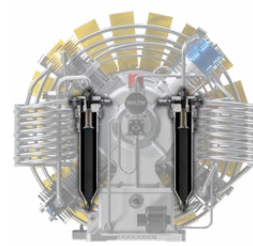
**Forced lubrication
with low pressure gear
pump**



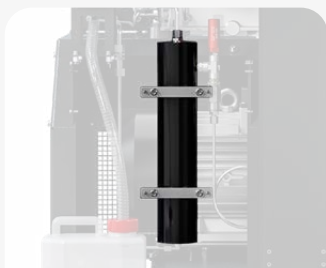
Suction filter: 10 µm



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



**Interstage condensate
separators**



**High pressure final
condensate separator
double effect**



**Low oil pressure
switch**



**Safety valves after
each stage of
compression**



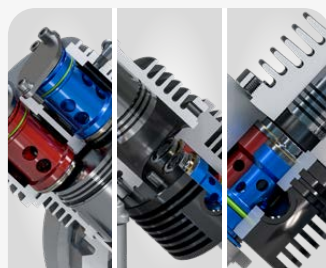
**Special cast iron
cylinders with low
roughness lapping**



**Aluminum connecting
rods**



**Forged steel
crankshaft**



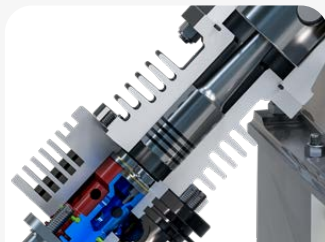
**High-flow first, second
and third stage valves**



**Roller Bearings for
intensive work**



**Fourth stage in
tempered steel with 6
piston rings in special
cast iron**



**Second, third and
fourth stages with
pushing pistons to
eliminate lateral forces
on the pistons**



CE certification

Standard equipment

Purification system Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge

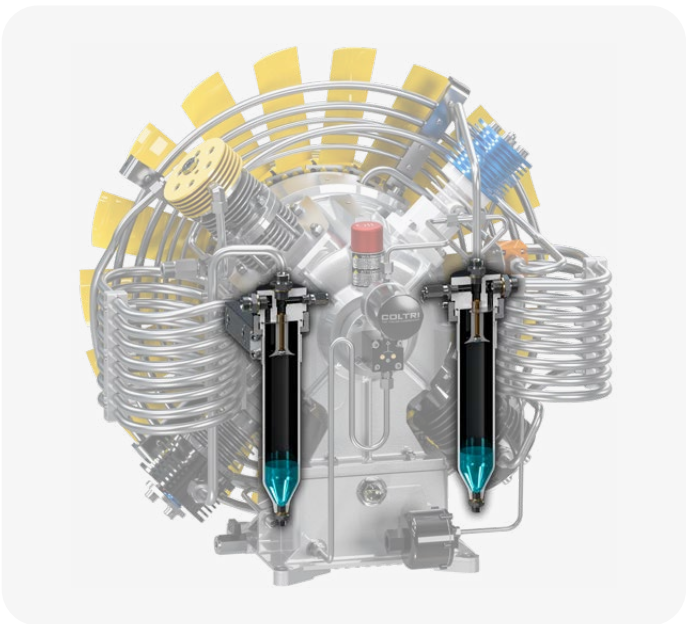


Purification system	Hyperfilter x 2
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar) ¹	3.050 m ³

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	Air quality*
H ₂ O	25 mg/m	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO ₂	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 CO₂ in the intake air must not exceed the maximum level of CO₂ 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



Compressor control and automatic condensate drain system



Electronic pressure switch



Interstage pressure gauges



Soundproof frame



Filling connection

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

Optional



Presec. Filter control system



C-Monitor



CO SafeGuard



Tornado refrigerator - Dryer

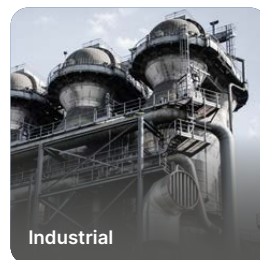
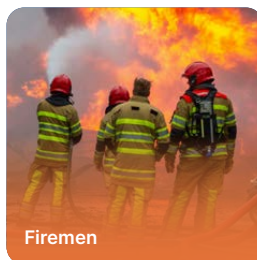
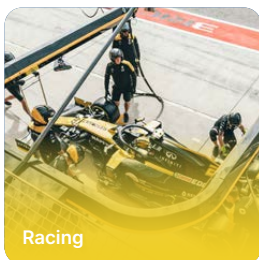
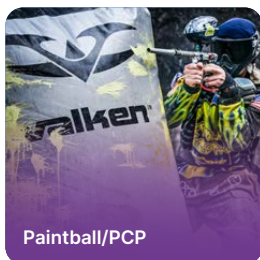
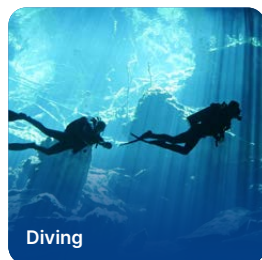


7" Touch Screen Panel



Multi-Gas Analysis System (SAM)

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



Printed on paper from
sustainably managed forests



coltri.com

Visit our
showroom in
Virtual Reality



coltri.com/showroom



COLTRI®
COMPRESSORS