Technical Data Sheet

COLTRI COMPRESSORS

HEAVY DUTY LINE

SILENT

ELECTRIC

AUTHORISED RESELLER

NORTHERN DIVER
COMMERCIAL SUITS & EQUIPMENT

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 - Nitrox 40% max O_2 - Helium - Nitrogen
Intake pressure	Atmospheric max 300 millibar
Nominal pressure	250 bar / 330 bar / 360 bar
Filling 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	15°
Design	Silenced
Operating voltage	400 V, 50 Hz
Other operating voltage	230 V, 50 Hz / 230 V, 60 Hz / 440 V, 60 Hz
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

	SILENT 450 ET	SILENT 550 ET	SILENT 650 ET	SILENT 750 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	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
Weight[1]	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 67 dB			

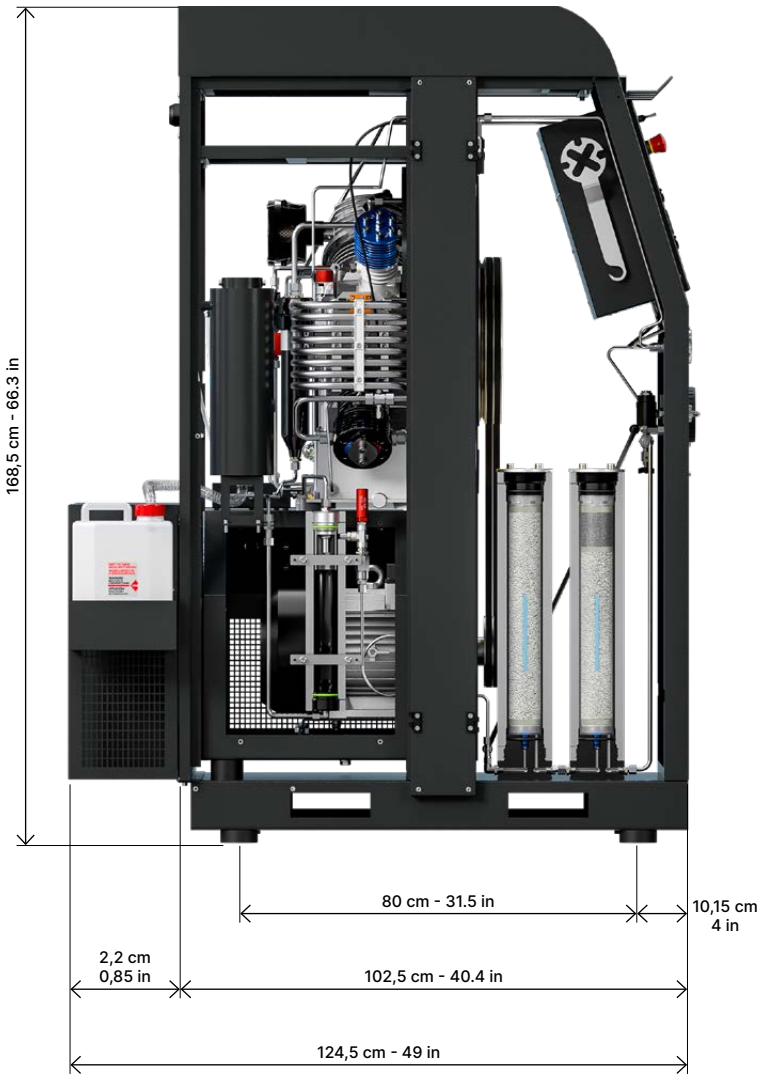
1 Standard model. Dimensions may vary depending on accessories.

Electric motor

	SILENT 450 ET	SILENT 550 ET	SILENT 650 ET	SILENT 750 ET
Power	7,5 kW - 10 hp	9 kW - 12.5 hp	11 kW - 15 hp	15 kW - 20 hp
Type	Three-phase electric			
Operating voltage/frequency Different voltage / frequency available on request.	400 V, 50 Hz			
Rated current	15 A	18,8 A	23 A	31 A
Speed (RPM)	2.870	2.880	2.910	2.920
Protection class	IP55			

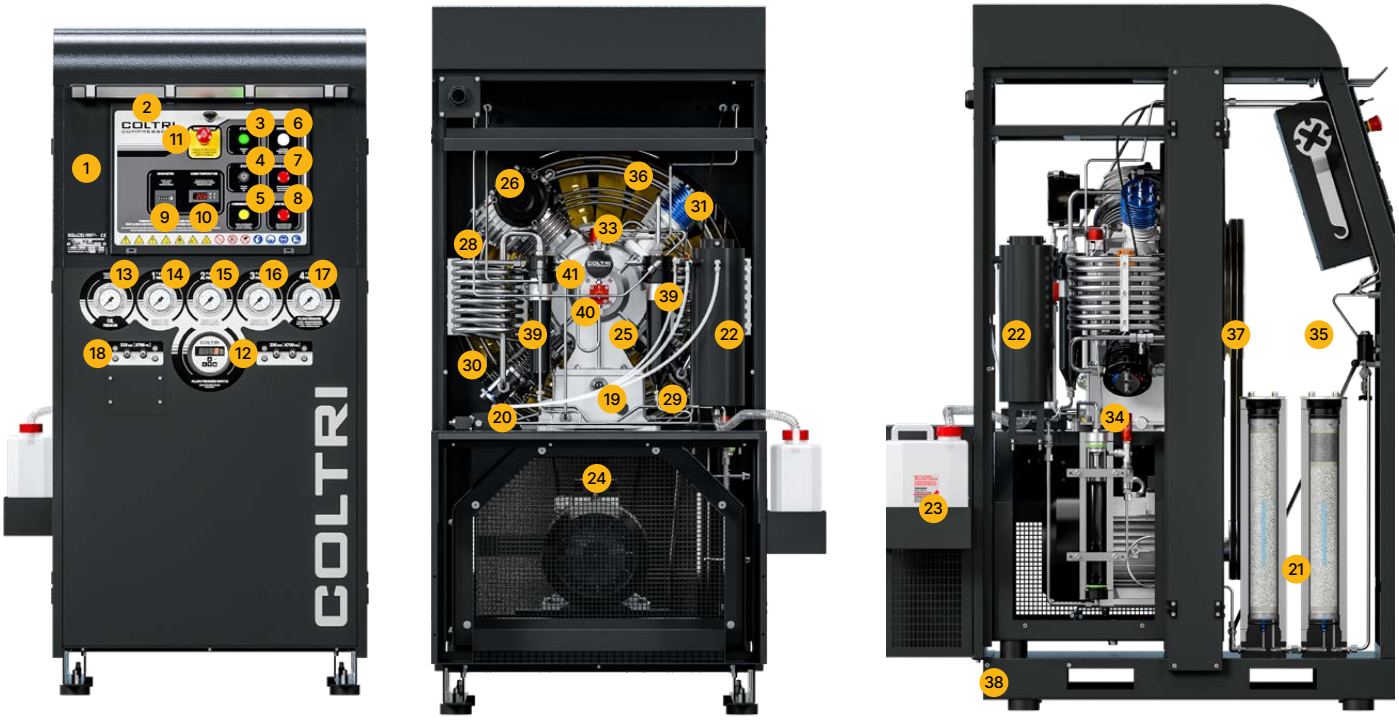
Dimensions


COLTRI
COLTRI
10 cm
3.9 in
5,5 cm
2.2 in
68 cm - 26.7 in
14 cm
5.5 in
79 cm - 31.1 in
93 cm - 36.6 in


168,5 cm - 66.3 in
80 cm - 31.5 in
10,15 cm
4 in
2,2 cm
0,85 in
102,5 cm - 40.4 in
124,5 cm - 49 in

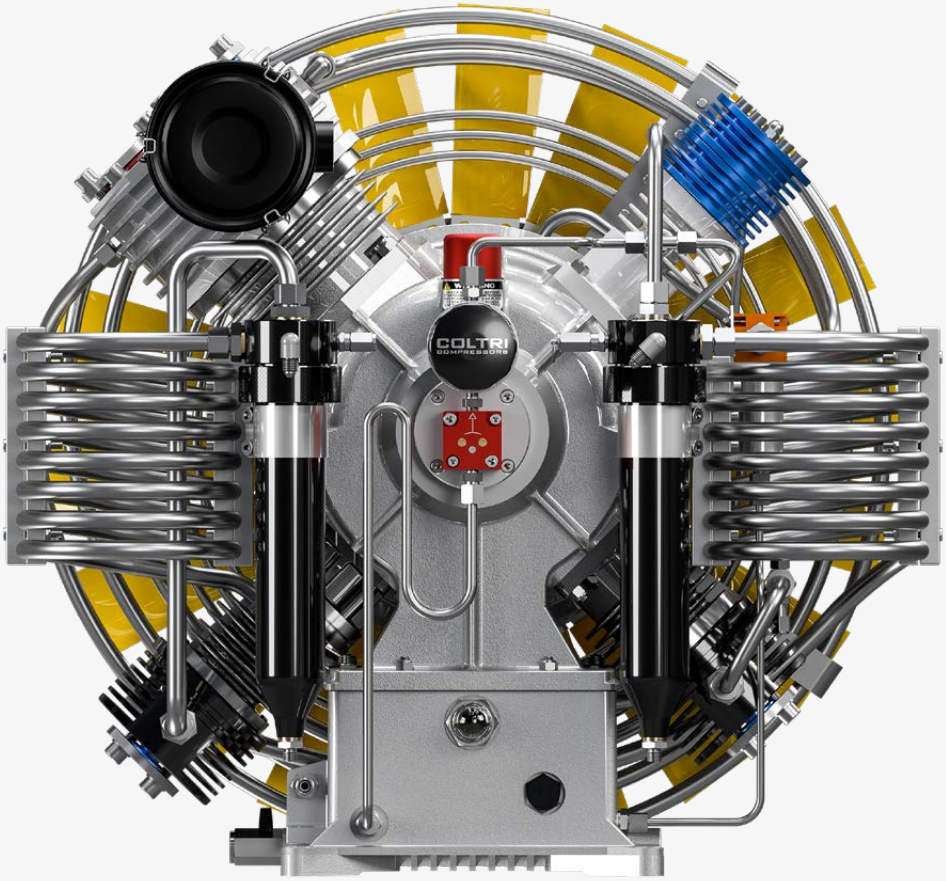

21,8 cm
9.6 in

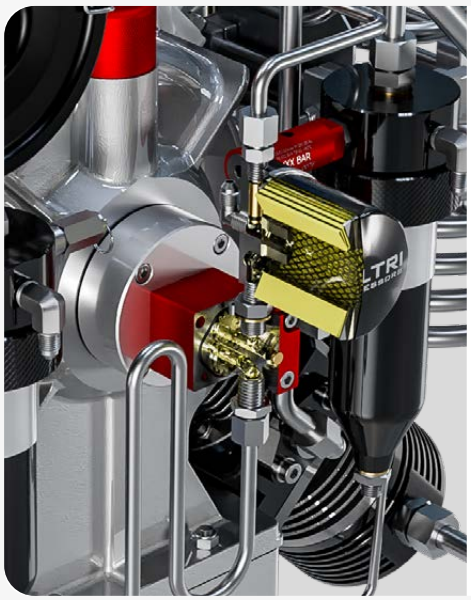
Components



1. Frame
2. Control panel
3. ON pushbutton
4. Stop pushbutton
5. Condensate discharge pushbutton
6. Power indicator light
7. Direction of rotation indicator light
8. Oil level warning light
9. Hour counter
10. Cabinet interior / cooling air temperature
11. Emergency pushbutton
12. Automatic shut off pressure switch
13. Oil pressure gauge
14. 1st stage pressure gauge
15. 2nd stage pressure gauge
16. 3rd stage pressure gauge
17. 4th stage pressure gauge / working pressure
18. Refill hoses connection
19. Oil level
20. Oil discharge valves
21. Purifier filter
22. Condensate collection container
23. Condensate collection tank
24. Motor
25. Compressor
26. Intake air filter
27. Intermediate condensate separator
28. 1st stage
29. 2nd stage
30. 3rd stage
31. 4th stage
32. Monoblock crankcase
33. Oil filler plug
34. Safety valve
35. Pressure maintenance valve
36. Cooling fan
37. Belt
38. Anti-vibration device
39. Condensate separator
40. Oil pump
41. Oil filter

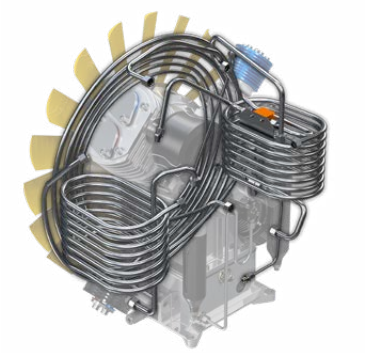
Pumping unit MCH 22



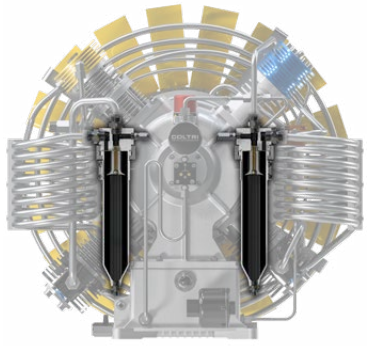


Forced lubrification with low pressure gear pump

Suction filter:
10 µ micron



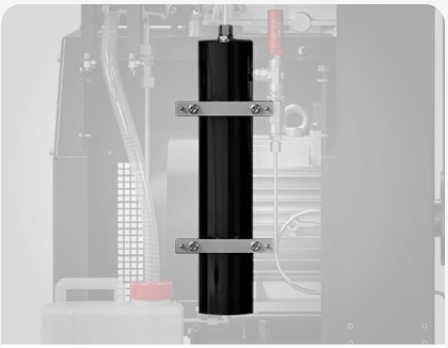
Pipes, fitting and nuts in stainless steel AISI 316



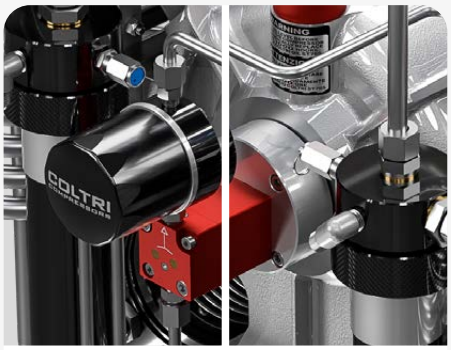
Intermediate condensate separator after the second and third stage

Synthetic Oil Coltri ST 755 with special formulation for HP compressors

Discover more on Coltri Oil ST 755



High pressure final condensate separator double effect

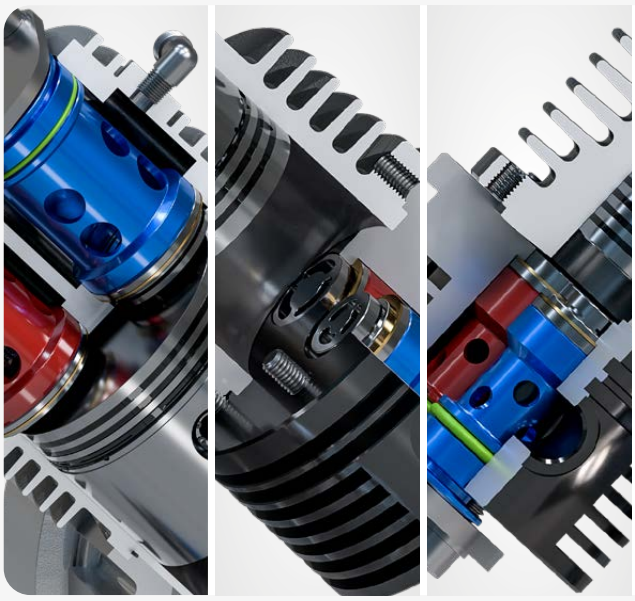


Safety valves after each stage of compression

Special cast iron cylinders with low roughness lapping

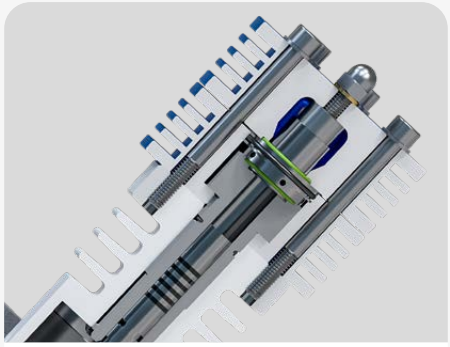
Forged aluminum connecting rods

Forged steel crankshaft

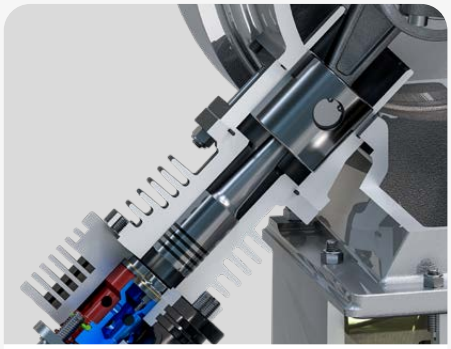


High-flow first, second and third stage valves

Roller Bearings for intensive work



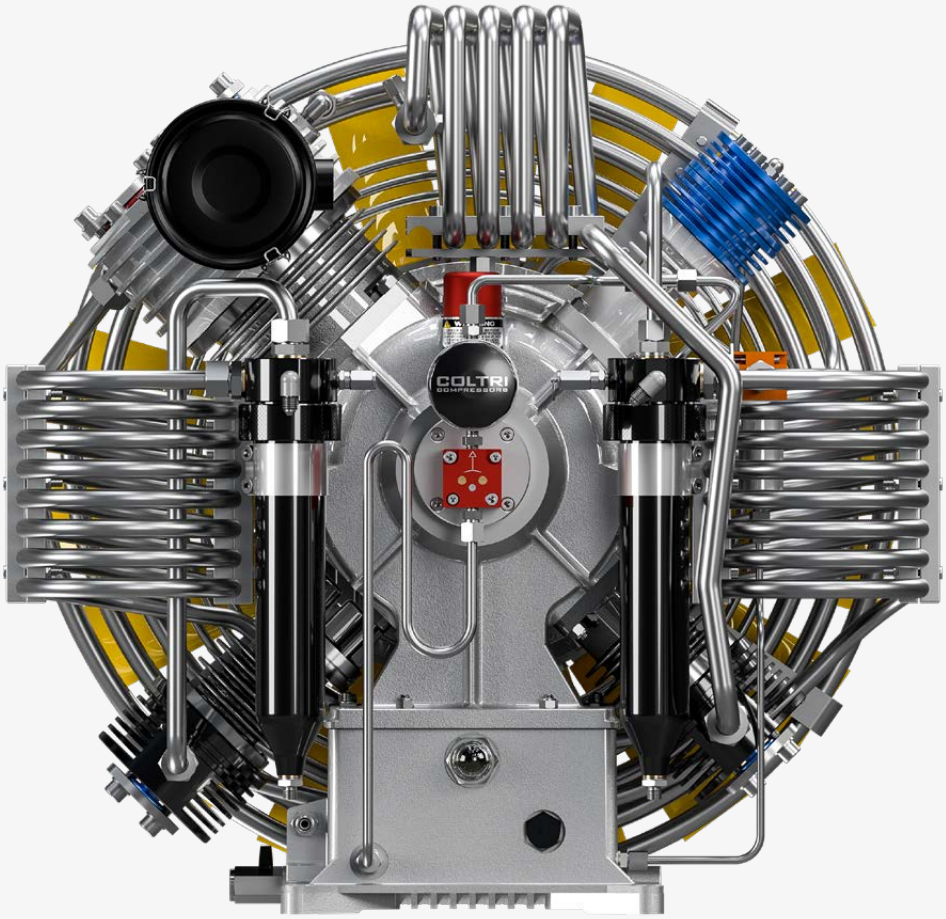
Fourth stage in tempered steel with 6 piston rings in special cast iron

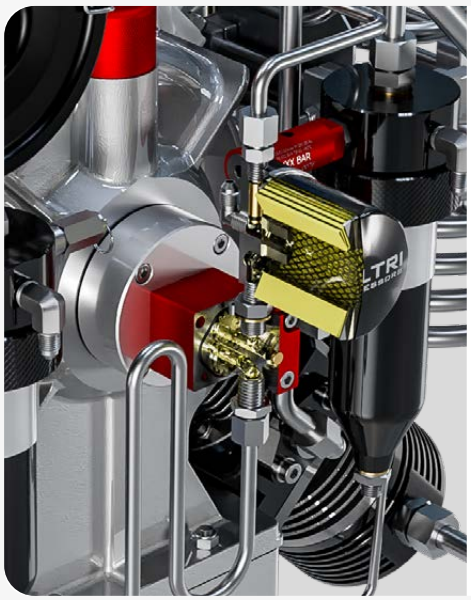


Second and third stage with pushing pistons to eliminate lateral forces on the pistons

CE certification

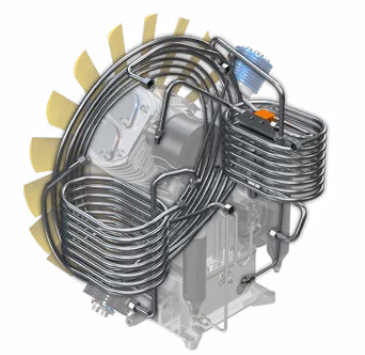
Pumping unit MCH 36



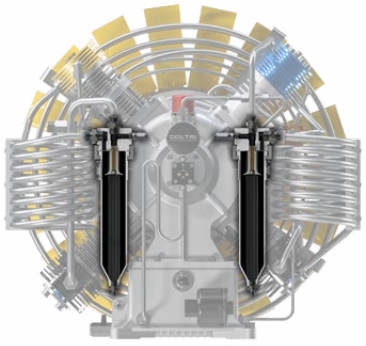


Forced lubrification with low pressure gear pump

Suction filter:
10 µ micron



Pipes, fitting and nuts in stainless steel AISI 316



Intermediate condensate separator after the second and third stage

Synthetic Oil Coltri ST 755 with special formulation for HP compressors

Discover more on Coltri Oil ST 755

Low oil pressure switch

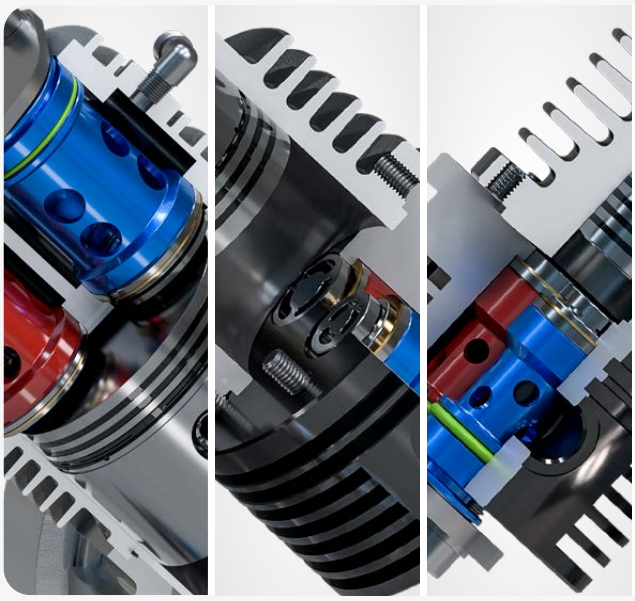
It ensures that the compressor only worksif the oil pressure, downstream of the pump, is higher than 1.5 bar.

Safety valves after each stage of compression

Special cast iron cylinders with low roughness lapping

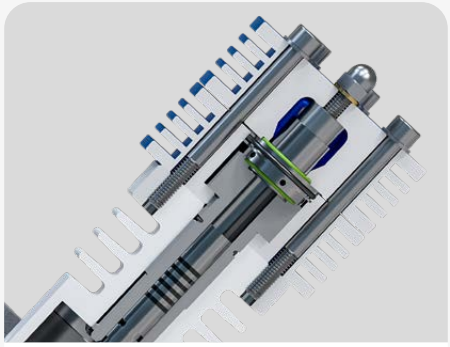
Forged aluminum connecting rods

Forged steel crankshaft

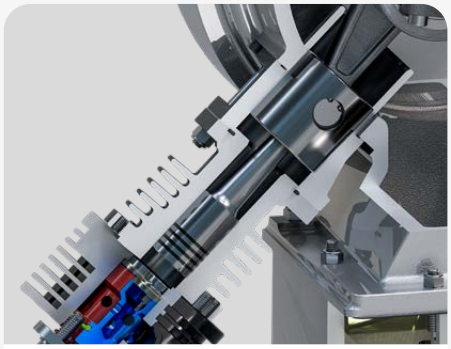


High-flow first, second and third stage valves

Roller Bearings for intensive work



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

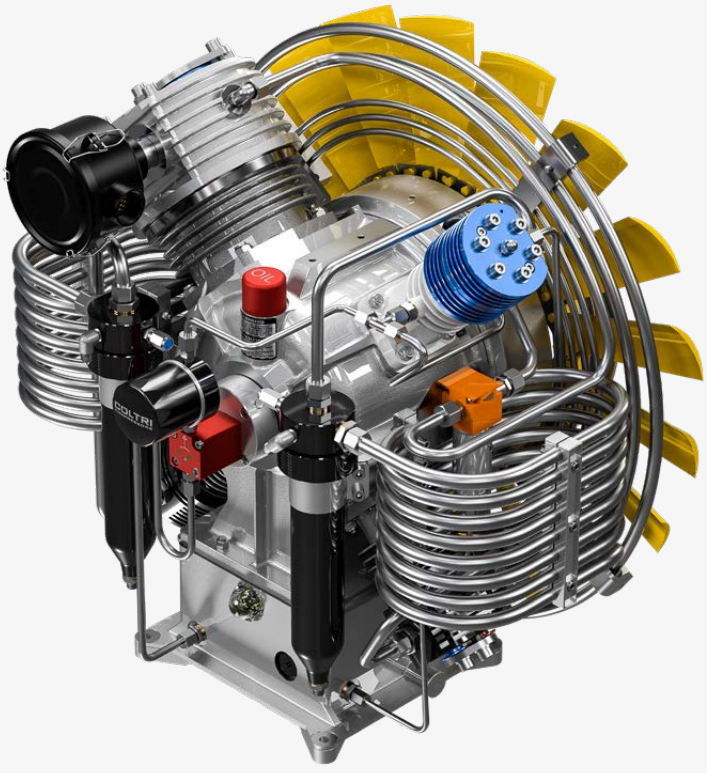


Second and third stage with pushing pistons to eliminate lateral forces on the pistons

CE certification

Technical data pumping unit MCH 22/36

	SILENT 450 ET	SILENT 550 ET	SILENT 650 ET	SILENT 750 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	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	1.250		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_a – 300 millibar			



Standard equipment

Purification system Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge

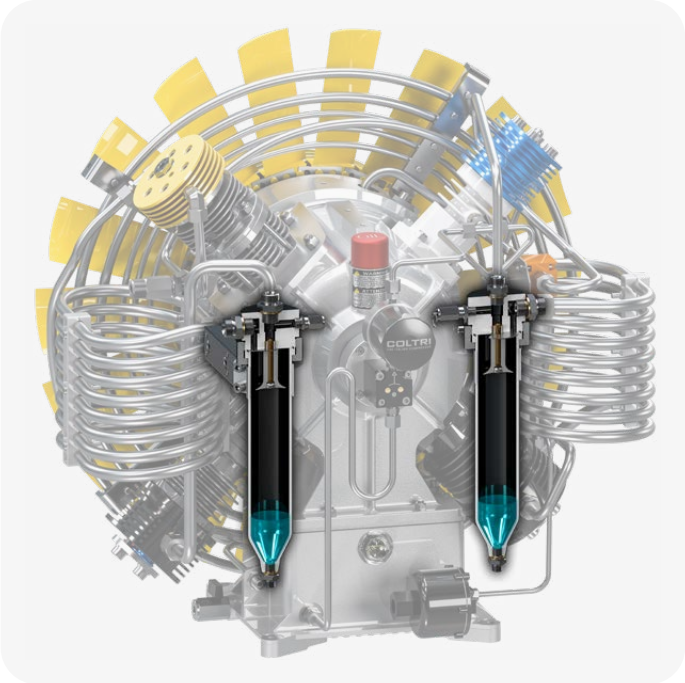
1. Hyperfilter body
2. Upper cap
3. O-Ring
4. Cartridge spring
5. Hyperfilter cartridge
6. Fitting
7. Lower cap
8. Stainless hook
9. Upper cap
10. Felt disc
11. Network Disc

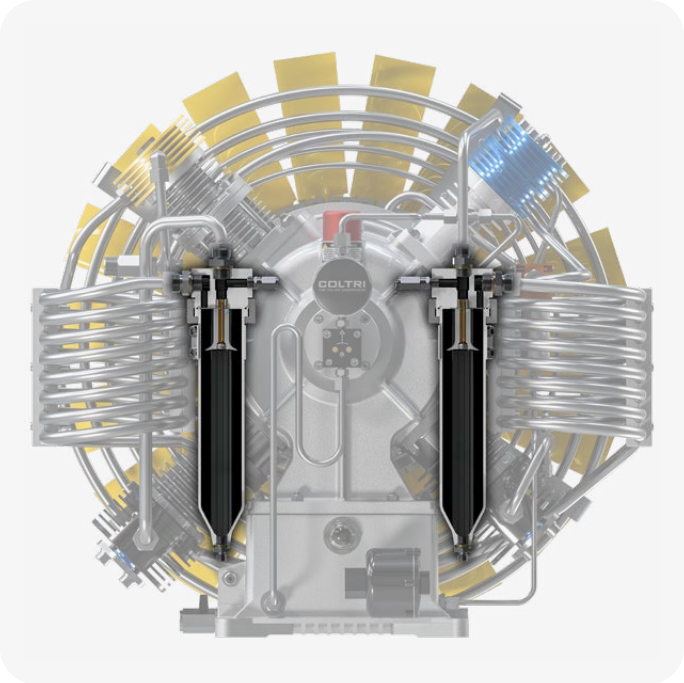
Purification system	**Hyperfilter x 2**
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar)[1]	3.050 m^3

1 When using a filter cartridge without HOPCALITE CO CATALYST.
When using a cartridge with CO-removal, the processable air capacity is reduced by ca. 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_2O	25 mg/m³	≤ 10 mg/m³
CO	5 ppm(v)	≤ 4
CO_2	500 ppm(v)	≤ 500
Oil	0,5 mg/m³	≤ 0,5 mg/m³

* Measured at our facility using ASCO HORA 160 ANALYZER.
1 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.
2 The level of CO2 in the intake air must not exceed the maximum level of CO2 as per EN 12021:2014
3 Reported values exceed ISO 8573-1 standards.

Filling connection

2 Filling connection to choose from: DRV DIN 232 bar and DRV DIN 300 bar.

Filling connection DRV DIN 232 bar

COD. DRV232

Filling connection DRV DIN 300 bar

COD. DRV300

Filling device	DRV DIN 232	DRV DIN 300
Nominal pressure (NP)	250 bar	330 bar
Technical specification	Filling valve with intagrated ventilation, with cylinder connector G 5/8” according to EN 144-2 and 477 PN232	Filling valve with intagrated ventilation, with cylinder connector G 5/8” according to EN 144-2 and 477 PN300

Filling hose

1200 mm stainless steel fittings - max working pressure 420 bar

Compressor control and automatic condensate drain system

- ON/OFF switch with motor protection switch.
- Optional: autostart at 60 bar hysteresis.
- Transformer.
- Pressure switch stops compressor at final pressure.
- Drainage of all separators between the individual stages and also of the final separator during compressor operation (standard drain interval every 15 minutes for a period of 6 seconds).
- Timer for automatic condensate drainage device.
- Integrated vacuum start-up (automatic drain when the unit is switched off).
- Condensate collection tank 5 liters, with silencer; capacity approx. 3 liters, for environmentally friendly disposal of condensate.
- Interstage pressure gauges display the operating pressure for the individual compression stages. This pressure information allows you to check the tightness of the valves (inlet and outlet) of each stage and quickly identify potential sources of failure.

The interstage pressure gauges are mounted in the compressor frame.

1. Power button
2. Stop button
3. Condensate drain button
4. Oil level warning light
5. Wrong direction indicator light
6. Voltage presence indicator light
7. Emergency button
8. Inside temperature cabin/cooled air
9. Operating hour meter

Electronic pressure switch

The instrument allows to visualize the pressure expressed in bar, psi or MPa.

Through the programming buttons it allows to set the intervention pressure of the relay contact (SPDT) and hysteresis. The settings are protected by passwords at 3 levels: manufacturer, customer and end user. The instrument also has the function of hours counter and no. of cycles of separator intervention, ensuring a general improvement of the operation of the recharge station over time and the longevity of its filters.

Interstage pressure gauges

The function of the interstage pressure gauges is to show the operating pressure of the individual compression levels. This information is indispensable because it allows to quickly recognize a possible error by checking the tightness of the respective level valves (inlet and outlet). The interstage pressure gauges are mounted on the control panel of the compressor.

1. Oil pressure gauge
2. 1st stage pressure gauge
3. 2nd stage pressure gauge
4. 3rd stage pressure gauge
5. 4th stage pressure gauge / working pressure

Plugs available according to electric motor

230 V three-phase electric motor

9h/200 - 250V~

50÷60 Hz

32 A

3P+⏚

400 V three-phase electric motor

6h/380 - 415V~

50÷60 Hz

16 A

3P+⏚

400 V three-phase electric motor

6h/200/346 - 240/415V~

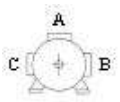
50÷60 Hz

32 A

3P+N+⏚

Scheda tecnica motore elettrico trifase 7,5 kW

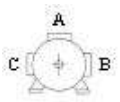
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **7,5**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*	Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*	150778			
2	**Modello /** *Motor type*	MT1 132SB/2			
3	**Descrizione** / *Description*	Three-phase asynchronous motor 7,5kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*	132S			
5	**Poli** / *Poles*	2			
6	**Forma di costruzione** / *Mounting type*	IM B3			
7	**Potenza nominale** / *Rated output*	7,5	7,5	9	[kW]
8	**Fattore di servizio** / *Service factor*	1.0			
9	**Tipo di servizio** / *Duty type*	S3-75%			
10	**Tensione** / *Rated voltage*	400/690	400/690	Δ440-480	[V]
11	**Frequenza** / *Rated frequency*	50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*	15/8,7	15/8,7	15	[A]
13	**Velocità nominale** / *Rated speed*	2870	3440	3440	[min^{-1}]
14	**Fattore di potenza** / *Power factor*	0,87	0,87	0,87	
15	**Coppia nominale motore**/ *Rated motor torque*	25	20,8	25	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*	6,9			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*	2,7			Msp/Mn
19	**Classe d'isolamento** / *Insulation class*	F			
20	**Grado di protezione** / *Enclosure*	IP54			
21	**Posizione scatola morsettiera** (motore con piedini) *Terminal box position (motor with feet)* 	A			
22	**Terminali potenza** / *Power leads terminal*	M6			
23	**Peso /** Weight	42			[kg]
24	**Cuscinetti** /bearings — Drive end	6208			
	Cuscinetti /bearings — Non drive end	6208			

Note/remarks:
Targa con logo Coltri Compressors.

Scheda tecnica motore elettrico trifase 9 kW

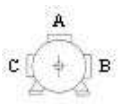
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **9**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		150779			
2	**Modello /** *Motor type*		MT1 132MB/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 9kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*		132M			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		9	9	10,5	[kW]
8	**Fattore di servizio** / *Service factor*		1.0			
9	**Tipo di servizio** / *Duty type*		S3-75%			
10	**Tensione** / *Rated voltage*		400/690	400/690	Δ440-480	[V]
11	**Frequenza** / *Rated frequency*		50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*		18,8/11	18,8/11	18,8	[A]
13	**Velocità nominale** / *Rated speed*		2880	3450	3450	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,87	0,87	0,87	
15	**Coppia nominale motore**/ *Rated motor torque*		29,8	24,9	29,1	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		6,3			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		2,8			Msp/Mn
19	**Classe d'isolamento** / *Insulation class*		F			
20	**Grado di protezione** / *Enclosure*		IP55			
21	**Posizione scatola morsettiera** (motore con piedini) *Terminal box position (motor with feet)* 		A			
22	**Terminali potenza** / *Power leads terminal*		M6			
23	**Peso /** Weight		47			[kg]
24	**Cuscinetti** /bearings	Drive end	6308			
		Non drive end	6308			

Note/remarks:
Targa con logo Coltri Compressors.

Scheda tecnica motore elettrico trifase 11 kW

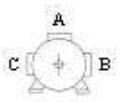
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **11**	**Poli/** Poles **2**
		Data 24/06/2015	Rev. 0

No	Descrizione/*Description*	Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*	124545			
2	**Modello /** *Motor type*	MT1 132MC/2			
3	**Descrizione** / *Description*	Three-phase asynchronous motor 11kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*	132M			
5	**Poli** / *Poles*	2			
6	**Forma di costruzione** / *Mounting type*	IM B3			
7	**Potenza nominale** / *Rated output*	11	11	13	[kW]
8	**Fattore di servizio** / *Service factor*	1.0			
9	**Tipo di servizio** / *Duty type*	S3-75%			
10	**Tensione** / *Rated voltage*	400/690	400/690	Δ 440-480	[V]
11	**Frequenza** / *Rated frequency*	50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*	23/13,3	23/13,3	23	[A]
13	**Velocità nominale** / *Rated speed*	2910	3500	3500	[min^{-1}]
14	**Fattore di potenza** / *Power factor*	0,87	0,91	0,87	
15	**Coppia nominale motore**/ *Rated motor torque*	36	30	35,5	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*	6,8			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*	2,7			Msp/Mn
19	**Classe d'isolamento** / *Insulation class*	F			
20	**Grado di protezione** / *Enclosure*	IP55			
21	**Posizione scatola morsettiera** (motore con piedini) *Terminal box position (motor with feet)* 	A			
22	**Terminali potenza** / *Power leads terminal*	M6			
23	**Peso /** Weight	52			[kg]
24	**Cuscinetti** /bearings — Drive end	6308			
	Cuscinetti /bearings — Non drive end	6308			

Note/remarks:
Targa con logo Coltri Compressors.

Scheda tecnica motore elettrico trifase 15 kW

soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **15**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*	Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*	150791			
2	**Modello /** *Motor type*	MT1 132MD/2			
3	**Descrizione** / *Description*	Three-phase asynchronous motor 15kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*	132M			
5	**Poli** / *Poles*	2			
6	**Forma di costruzione** / *Mounting type*	IM B3			
7	**Potenza nominale** / *Rated output*	15	15	18	[kW]
8	**Fattore di servizio** / *Service factor*	1.0			
9	**Tipo di servizio** / *Duty type*	S3-75%			
10	**Tensione** / *Rated voltage*	400/690	400/690	440-480Y	[V]
11	**Frequenza** / *Rated frequency*	50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*	31/17,9	31/17,9	31	[A]
13	**Velocità nominale** / *Rated speed*	2920	3500	3500	[min^{-1}]
14	**Fattore di potenza** / *Power factor*	0,86	0,91	0,86	
15	**Coppia nominale motore**/ *Rated motor torque*	49	41	49,1	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*	7,2			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*	2,5			Msp/Mn
19	**Classe d'isolamento** / *Insulation class*	F			
20	**Grado di protezione** / *Enclosure*	IP55			
21	**Posizione scatola morsettiera** (motore con piedini) *Terminal box position (motor with feet)* 	A			
22	**Terminali potenza** / *Power leads terminal*	M6			
23	**Peso /** Weight	59			[kg]
24	**Cuscinetti** /bearings — Drive end	6308			
	Cuscinetti /bearings — Non drive end	6308			

Note/remarks:
Targa con logo Coltri Compressors.

Optional

Presec. Filter control system

Includes:
Filter cap with sensor + control unit + cartridge.
To be installed with the Hyperfilter filter system filter system on the compressor.

If you choose the Presec System, you cannot also install the SAM System or the CO SafeGuard.

The Presec system is connected through a probe with the first filter cartridge and detects its saturation status transmitting to the indicator the relevant switching signals according to the status. If the filter cartridge is exhausted, the compressor is switched off and cannot be started until the cartridge is replaced. The presec system displays 4 levels of cartridge saturation through 3 relays connected to 3 leds:

Stable green light (a):
- The system is operational; OK cartridge

Yellow light button (b):
- Pre-alarm; cartridge is running low and must be replaced soon.

Red light button (c):
- Alarm; remove cartridge, replace immediately.

Red light button (c):
- Alarm; filter cartridge is missing or filter system is interrupted; compressor shuts down and cannot be turned back on without inserting a new cartridge or discovering the source of the alarm.

While the yellow light is pulsing (b), the steady green light (a) will still be on because the filter cartridge will not be fully saturated. If no LED lights up, it means that the PRESEC lacks power or that the electrical system is faulty.

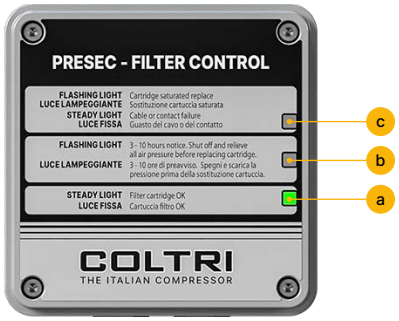
Wiring diagram for connection

PRESEC SENSOR

COD. SC000550

Filter saturation values

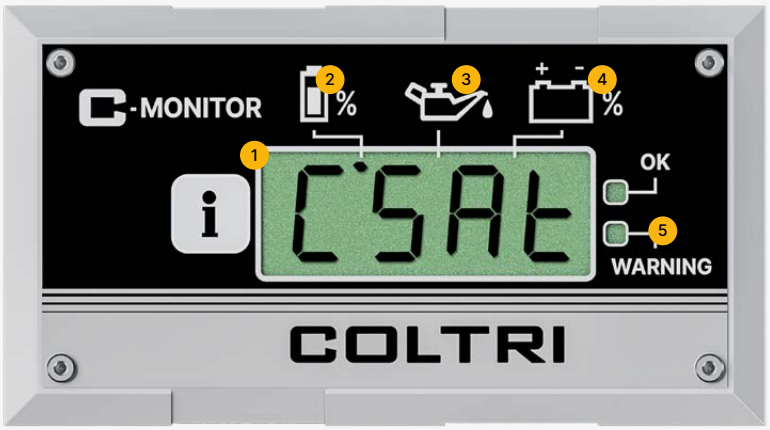
Light	Humidity (mg/m³)
Green	15 - 20
Yellow	20 - 25
Red	> 25



C - Monitor

Final filter monitoring system, oil change and technical interface.

The interface consists of an LCD display, a button and two indicators (O,●). The decimal points next to the digits are indicator lights to indicate alarms or warnings in progress. Each dot is associated with an explanatory icon (, ,). The icon ● indicates an alarm condition while the symbol O indicates normal operation. Press the button to scroll through the different functions of the menu. When pressed, the function is displayed the function and after two 2 seconds the related data.



COD. SC001200

1. Display
2. Cartridge saturation
3. Service indication
4. Battery charge level
5. Operation indicator

CO SafeGuard - Safe personal Carbon monoxide analyzer

CO SAFEGUARD can analyze carbon monoxide content in any mixture of respirable gases, including air. Can be connected on the compressor for continuous monitoring or in any environment (in diffusion mode).
Warns operators in case of hazardous concentration.

CO SAFEGUARD is easy to use and allows the user to personally verify whether the gas mixture or air is free of carbon monoxide. Indispensable for diving centers to check the air in the compressor and for divers when diving.

CO SAFEGUARD is a fully digital measuring instrument with two visual and audible alarms if the carbon monoxide value exceeds the set values. It is based on a state-of-the-art electrochemical sensor with long-term stability. The carbon monoxide sensor can be replaced and calibrated without any assistance from the manufacturer. The instrument can read 5 ppm (parts per million), in accordance with EN 12021.

If you choose the CO SafeGuard, you cannot also install the the SAM System or Presec System

1. Display
2. On/off button
3. Configuration buttons
4. Fixing screws
5. Electronic board

Tornado refrigerator - Dryer

Used on Prime line (Mark III Silent, Super Silent) and Heavy Duty line (Silent, Open).
Dryer for high pressure compressed air.
Up to 3 times longer filter service life.

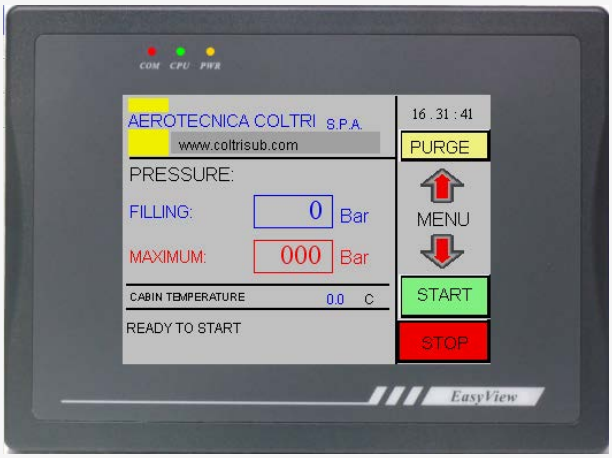
- Higher air quality
- Less corrosion of mechanical parts
- Refilling of cylinders with constant percentage of humidity

The **Tornado** refrigerator is an accessory for our recharge stations dedicated to professional use that operates between the separators and the filtering system. **Available in 350 or 420 bar versions.**

How Tornado works
The incoming warm, moist air passes into the evaporator of this machine, inside which it cools. This allows the moisture to condense. Condensation is then easily removed from the separator, ensuring an overall improvement in the operation of the charging station over time and the longevity of its filters.

7" Touch Screen Panel

If the Touch Screen is used, the electronic pressure switch will be installed.



7" color panel with integrated touch screen offers advanced functions for managing complex systems:
- Real-time display of last stage pressure via color digital pressure gauge.
- Pressure setpoint adjustment from the settings page for greater flexibility and control.
- Cabin temperature display to ensure optimal conditions.
- Alarm display on the main page for quick response to problems.

Maintenance settings:
- Cab temperature adjustment via numeric keypad.
- Virtual key for manual (start/stop) or automatic restart with adjustable pressure hysteresis.
- Time adjustment via virtual keypad for: working hours, oil change, oil filter change, and suction filter change

Multi-Gas Analysis System (SAM)

The Coltri Multi-Gas Analysis System is a measuring instrument capable of monitoring air quality. Its application includes continuous monitoring of environmental gases, hyperbaric chambers, safety, medical, air quality.

If you choose the SAM System, you cannot also install the CO SafeGuard or Presec System

Available sensors:
Oxygen O_2
Carbon dioxide CO_2
Carbon Monoxide CO
Humidity H_2O
Gas Temperature
VOC (Volatile Organic Compound)
Helium in Air

Sensor CO + CO_2 + H_2O
COD. SC000727/A

Sensor CO + CO_2 + H_2O with VOC
COD. SC000727/B

General specifications

Input voltage requirement	10-35 Vdc
Internal Battery	Rechargeable lithium-ion battery. One cell 1400 mAh Li ion 3.7 V
Sensors	Up to 6 sensors
Output	Acoustic alarm
Serial Connection	1 RS232 interface. Transmission speed up to 115000 baud, on request RS485 interface
Measurement resolution	Bipolar 24-bit A/D converter. Drift in automatic temperature compensation.
Conversion rate	10 ms
Sampling time	100 ms (min) for each channel
Signal measurement accuracy	0.1% Full scale +/- ½ LSB
Input device	Rotary knob with central push
Color Display	TFT 320 × 240 dot resolution, LED backlighting
Display light intensity	600 nits (cd/m2)
Memory	Micro SD card writer/reader
Microprocessor	Cortex M4

Buzzee Alarm	There is an audible warning alarm on board.
Serial Interface	Standard RS232 interface for connection to PC. it is possible to read measurements remotely and to program the instrument, software is available on request.
Non-volatile Memory	SAM features non-volatile memory that retains configuration data and settings for 10 years without power.

Remote charging panels with lever

COD. SC000327/N

Single pressure

- 4 Lever taps
- 1 Gauge
- 4 HP hoses 1.20 m - 3.9 ft DIN 232 bar or DIN 300 bar or INT/YOKE
- 1 HP hose 3 m - 9.8 ft from compressor

COD. SC000331/N

Double pressure

- 4 Lever taps
- 2 Gauges
- 1 Pressure regulator
- 2 HP hoses 1.20 m - 3.9 ft DIN 232 bar or INT/YOKE
- 2 HP hoses 1.20 m - 3.9 ft DIN 300 bar
- 1 HP hose 3 m - 9.8 ft from compressor

Filling connection 232 bar for lever tap with safety pin

COD. SC000936

Filling connection 300 bar for lever tap with safety pin

COD. SC000937

Filling connection INT/ YOKE for lever tap with safety pin

COD. SC000935

Remote charging panels

COD. SC000325/N

Single pressure Charging panel

- 4 DRV DIN 232 bar or DRV DIN 300 bar
- 1 Gauge
- 4 HP hoses 1.20 m - 3.9 ft
- 1 HP hose 3 m - 9.8 ft from compressor

COD. SC000329/N

Double pressure Charging panel

- 2 DRV DIN 232 bar
- 2 DRV DIN 300 bar
- 2 Gauges
- 1 Pressure regulator
- 4 HP hoses 1.20 m - 3.9 ft
- 1 HP hose 3 m - 9.8 ft from compressor

Filling connection DRV DIN 232 bar

COD. DRV232

Filling connection DRV DIN 300 bar

COD. DRV300

Soundproof frame

Polyether-based expanded polyurethane impregnated with halogen and CFC-free flame retardant substances. Soundproofing useful in any environment that requires a strong reduction of high frequencies.

		Certifications
Color	Black	
Thermal conductivity	W/mk 0,040 40° C	
Temperature resistance	-70° C - 100° C	
Density	75 / 110 Kg/m3	ISO 1855
Hardness	> 300 N	ISO 2439 (ILD% 40)
Tensile hardness	> 85 Kpa	ISO 1798
Resistance to de-tensioning	> 85 %	ISO 1798
Self-extinguishing	Class 0 / Class 1	BS 476 Part 6 / BS 476 Part 7