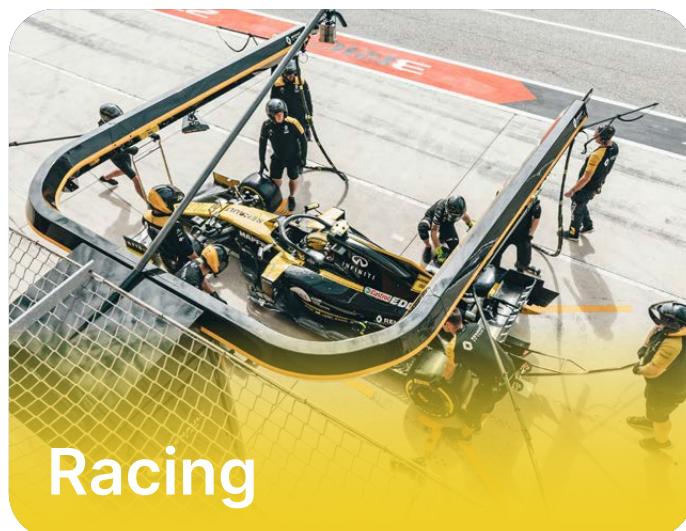


BREATHING AIR COMPRESSORS



High and low pressure compressors
for breathing air and technical gases.

Application



A profoundly Italian company, Coltri began building high-pressure scuba diving compressors in 1963.

The company soon expanded into other fields, including firefighting compressors and industrial gas compressors. Today we are once again looking in a new direction.

Ongoing advances in design and manufacture are at the very core of our identity: more than fifty years of continuous development have enabled us to engineer equipment that now sets the benchmark for the industry worldwide. Our commitment to research and development has enabled us to shift from consuming the latest technology to becoming key players ourselves in advancing technology in the industry. We use all the latest tools, such as robots and digitally controlled machining centers, to manufacture increasingly reliable, efficient and durable products.

Every component in our pump units was designed and engineered in Coltri's workshops and is the result of careful research and extensive testing. We assemble all our compressors in their entirety within our company according to rigorous quality standards. Exceptionally high-precision machinery, such as ZEISS® tools, play a key role in dimensional metrology. This enables us to determine the geometric characteristics of our components and accurately gauge how they will perform when used in more complex units.

Our focus and constant growth, steered by standards of excellence, have earned us internationally recognized certifications of quality that reflect our dedication and commitment.

We like to think of ourselves as facilitators. We build our machines to make it simpler to take on challenges, overcome limits and imagine new possibilities. Whether it's for a hobby, an industrial application or an emergency response service, Coltri Compressors is there to raise the bar higher, to help you reach uncharted territory.



Discover our construction quality.

Scan the QR code to watch the video.

Constant evolution in design and manufacturing has become the core element of our identity.

Research, development, production and assembly take place in the 8,000 square meters of the headquarters thanks to our human value.

From Desenzano del Garda, the Company is a byword for Made In Italy quality, reaching 130 countries around the world every day. Research, development, production and assembly in our 8000 m² plant revolve around the "Coltri human value": over 50 technicians committed to overcoming new challenges in performance, silence, durability, and innovation. To meet these challenges, the company uses the most

advanced instruments, including robots and numerically controlled machine tools, to create products that are ever more reliable, efficient and effective. To ensure our after-sales service is on a par with our product line, customers can avail of our a spare parts warehouse for ordinary and extraordinary maintenance, and courtesy compressors to cover any contingency.



Discover MCH 6 Pumping unit evolution.

Scan QR code.



Visit Coltri Compressors in Virtual Reality.

Scan QR code.



How many cylinders do you want to refill in 1 hour?



Diving

Measurement carried out on empty
11-litre cylinder (S 80) - 0/200 bar at
20° C (tolerance $\pm 5\%$)



Line	l/min	Cylinders quantity			
		5	10	15	20
Portables	100	3			
	140	4			
Efficient / Prime TPS	125	3,5			
	150	4			
	235	6,5			
	315	8,5			
	345	9,5			
Heavy Duty	450		12,5		
	550		15		
	650			20,5	
	750			20,5	



Firefighters

Measurement carried out on empty
7,6-litre cylinder - 0/300 bar at 20° C
(tolerance $\pm 5\%$)



Line	l/min	Cylinders quantity			
		5	10	15	20
Efficient / Prime TPS	315	8			
Heavy Duty	450		12		
	650			17	

ICON LSE

Electric



ICON LSE 100 EM

ICON LSE 100 ET

Charging rate	100 l/min 6 m ³ /h 3.5 cfm	100 l/min 6 m ³ /h 3.5 cfm
Filling time ¹	20 min	20 min
Engine power	2,2 kW 3 Hp Single-phase electric	3 kW 4 Hp Three-phase electric
Dimensions ² (W x D x H)	61 × 37 × 39 cm 24 × 14.5 × 15.3 in	61 × 35 × 39 cm 24 × 13.8 × 15.3 in
Weight ² (dry weight)	38 kg 83.8 lb	38 kg 83.8 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

A great little portable

The **ICON LSE** series are the world's most widely used portable compressors. Due to their small size and light weight, the models are perfect for a wide range of needs: high-pressure breathing air for diving, recreation, fire fighting and paintball facilities. **ICON LSE** is available with electric motor is are equipped with the MCH 6 pumping unit. Standard equipment includes a hose fill port with operating pressures from 232 to 330 bar. The user experience is highly customizable with the various options available such as pressure maintenance valve, automatic condensate drain and autostop.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Hour meter
Only for single-phase
electric motor



Frame color
Black RAL 9005

Optional



Autostop



Automatic condensate drain
with timer



C-Monitor



Pressure maintaining valve

ICON LSE STAINLESS STEEL

Electric



ICON LSE INOX 100 EM

ICON LSE INOX 100 ET

Charging rate	100 l/min 6 m ³ /h 3.5 cfm	100 l/min 6 m ³ /h 3.5 cfm
Filling time ¹	20 min	20 min
Engine power	2,2 kW 3 Hp Single-phase electric	3 kW 4 Hp Three-phase electric
Dimensions ² (W x D x H)	61 x 37 x 39 cm 24 x 14.5 x 15.3 in	61 x 35 x 39 cm 24 x 13.8 x 15.3 in
Weight ² (dry weight)	38 kg 83.8 lb	38 kg 83.8 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

A great little portable

The **ICON LSE** Stainless steel series are the world's most widely used portable compressors. Due to their small size and light weight, the models are perfect for a wide range of needs: high-pressure breathing air for diving, recreation, fire fighting and paintball facilities. **ICON LSE** is available with electric motor is are equipped with the MCH 6 pumping unit. Standard equipment includes a hose fill port with operating pressures from 232 to 330 bar. The user experience is highly customizable with the various options available such as pressure maintenance valve, automatic condensate drain and autostop.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Hour meter
Only for single-phase
electric motor



Stainless steel frame

Optional



Autostop



Automatic condensate drain
with timer



C-Monitor



Pressure maintaining valve

ICON PETROL

Petrol



ICON 100 SH
Petrol HONDA GP 200

Charging rate	100 l/min 6 m ³ /h 3.5 cfm
Filling time ¹	20 min
Engine power	4,3 kW 5.8 Hp Petrol HONDA GP 200
Dimensions ² (W x D x H)	79 x 35 x 40 cm 31.1 x 13.8 x 15.7 in
Weight ² (dry weight)	37 kg 81.6 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Dedicated to the most extreme journeys

Part of the **ICON PETROL** series are the most widely used portable compressors in the world. By virtue of their small size and low weight, the models are perfect for widely varying needs: high-pressure breathing air for diving, recreation, fire services, and paintball facilities. **ICON PETROL** is available with HONDA GP 200 gasoline motor and is equipped with the MCH 6 pumping unit. Standard equipment includes a hose fill connection with operating pressures from 232 to 330 bar. The user experience is highly customizable with the various options available such as pressure maintenance valve, automatic condensate drain and autostop.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

ICON 100 SH Petrol HONDA GP 200	
Fuel tank capacity	3,1 liters
Fuel consumption at continuous power	1,7 l/h - 3600 rpm

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Frame color
Black RAL 9005

Optional



Autostop



Automatic condensate drain
with timer
Only with battery



C-Monitor



Remote suction hose kit



Pressure maintaining valve

ICON PETROL STAINLESS STEEL

Petrol



ICON INOX 100 SH

Petrol HONDA GP 200

Charging rate

100 l/min
6 m³/h
3.5 cfm

Filling time¹

20 min

Engine power

4,3 kW
5.8 Hp
Petrol HONDA GP 200

Dimensions² (W x D x H)

79 x 35 x 40 cm
31.1 x 13.8 x 15.7 in

Weight² (dry weight)

37 kg
81.6 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Dedicated to the most extreme journeys

ICON INOX 100 SH Petrol HONDA GP 200

Fuel tank capacity

3,1 liters

Fuel consumption at continuous power

1,7 l/h - 3600 rpm

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Stainless steel frame

Optional



Autostop



Automatic condensate drain
with timer
Only with battery



C-Monitor



Remote suction hose kit



Pressure maintaining valve

MINI COMPACT

Electric



MINI COMPACT 100 EM

MINI COMPACT 100 ET

Charging rate	100 l/min 6 m ³ /h 3.5 cfm	100 l/min 6 m ³ /h 3.5 cfm
Filling time ¹	20 min	20 min
Engine power	2,2 kW 3 Hp Single-phase electric	3 kW 4 Hp Three-phase electric
Dimensions ² (W x D x H)	62,4 × 38 × 43 cm 24.5 × 15 × 16.9 in	
Weight ² (dry weight)	47 kg 103.6 lb	

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Powerful, portable and a great looking frame

The **MINI COMPACT** range of compressors are very popular in the marine industry thanks in part to their reinforced, more enveloping chassis. **MINI COMPACT** is available with electric motor is are equipped with the MCH 6 pumping unit. The equipment includes a filling connection for flexible hose with working pressure from 232 to 330 bar. Optional extras include a pressure maintenance valve, automatic condensate drain and auto-stop, all of which allow the product to be tailored to the user's needs.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Hour meter
Only for single-phase
electric motor



Frame color
Black RAL 9005

Optional



Autostop



Automatic condensate drain
with timer



C-Monitor



Pressure maintaining valve

MINI COMPACT

Petrol



MINI COMPACT 100 SH

Petrol HONDA GP 200

Charging rate	100 l/min 6 m³/h 3.5 cfm
Filling time¹	20 min
Engine power	3 kW 4 Hp Petrol HONDA GP 200
Dimensions² (W x D x H)	80 x 37 x 44 cm 31.5 x 14.5 x 17.3 in
Weight² (dry weight)	53 kg 116.8 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Maximize performance

MINI COMPACT 100 SH Petrol HONDA GP 200

Fuel tank capacity

3,1 liters

Fuel consumption at continuous power

1,7 l/h - 3600 rpm

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DIN 232 bar



Filling connection
DIN 300 bar



Filling connection
INT/YOKE 232 bar



Filling hose of 1.2 m length



Frame color
Black RAL 9005

Optional



Autostop



Automatic condensate drain
with timer
Only with battery



C-Monitor



Remote suction hose kit



Pressure maintaining valve

PREDATOR

Electric



	PREDATOR 140 EM	PREDATOR 140 ET
Charging rate	140 l/min 8,4 m³/h 5 cfm	140 l/min 8,4 m³/h 5 cfm
Filling time¹	15 min	15 min
Engine power	3 kW 4 Hp Single-phase electric	3 kW 4 Hp Three-phase electric
Dimensions² (W x D x H)	81 × 44 × 58 cm 31.9 × 17.3 × 22.8 in	
Weight² (dry weight)	79 kg 174.2 lb	

1 Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)
2 Standard model. Weight and dimensions may vary depending on accessories.

Compact power, relentless performance

The new **PREDATOR** by Coltri Compressors expands the Portable Line, delivering top-tier performance in a compact design. With an air flow rate of 140 l/min and a 3 kW single-phase motor, it ensures efficiency and reliability anywhere. Equipped with automatic condensate drain and auto-stop, it features the new MCH 7 three-stage pumping unit and the Maxifilter purification system for consistently clean air. Ergonomic handles make transportation easy, while the optional C-Monitor allows real-time monitoring of the final filter and oil change. Powerful, compact, and smart, PREDATOR is ready for any challenge.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



2 filling connections DRV DIN 232 bar



2 filling connections DRV DIN 300 bar



2 filling connections DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



MAXIFILTER filtration system



Automatic condensate drain with timer



Carrying handles



Frame color Black RAL 9005

Optional

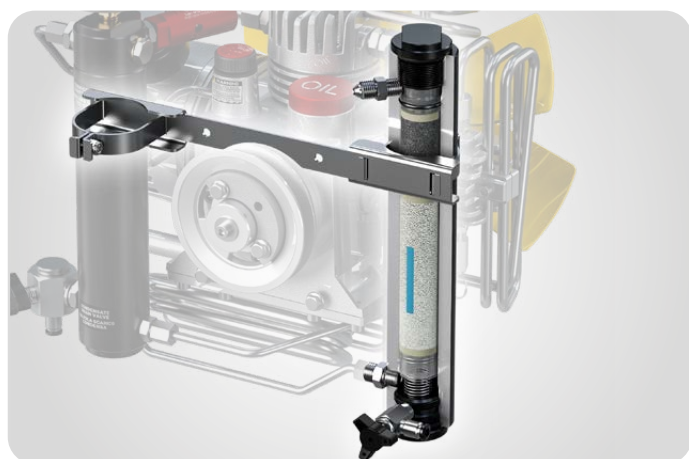


C-Monitor

Purification system

Purification system ECO-FILTER

ECO-FILTER disposable cartridge



Separator system

Final separator for removal of oil/water condensate.
Final safety valve, mounted on the separator housing



Purification system ECO-FILTER

Purification system

ECO-FILTER

Operating pressure (Standard)

232 bar / 330 bar

Operating pressure max. (PS)

360 bar

Processable air capacity
(air inlet temperature in the filter 20° C at 300 bar)¹

210 m³

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%.

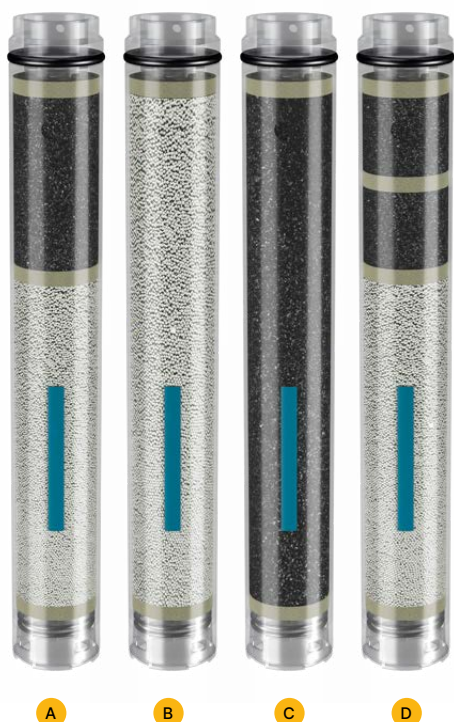
Separator system

Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H ₂ O	25 mg/m ³	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO ₂	500 ppm(v)	≤ 500
Oil	0,5 mg/m ³	≤ 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.

ECO-FILTER cartridges



- A** With molecular sieve and activated carbon
Standard on electric motor compressors.
- B** With molecular sieve
- C** With activated carbon
- D** With molecular sieve, activated carbon and CO-catalyst
Standard on petrol motor compressors.

Lubricants

Synthetic Coltri Oil ST 755 1 liter

A fully synthetic oil specifically developed for long lasting lubrication of process gas compressors and especially for breathing air. It provides outstanding performance in all types of compressors.



Special Motor Oil for 1 liter petrol and diesel engines



Optional

Automatic condensate drain with timer

Available only for compressors with electric motor.

The automatic condensate drain removes water from the intermediate separator and the final separator automatically during operation (every 7 minutes).

Composed of:

- 1 x timer
- 1 x solenoid valve



Autostop

Compressor automatically switches off when it reaches the final pressure.

Composed of:

- 1 x Pressure switch
- 230 bar - COD. SC000521/232 (safety valve 250 bar)
- 300 bar - COD. SC000521/300 (safety valve 330 bar)



Double pressure regulator 232/300 bar - 3360/4800psi

Available only on Mini Compact compressors



C-Monitor

Final filter monitoring system, oil change and technical interface.

The interface consists of an LCD display, a button  and two indicators (, ). 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  indicates normal operation. Press the button  to scroll through the different functions of the menu. When pressed, the function is displayed and after two 2 seconds the corresponding data is displayed.



EOLO 330

Electric - Petrol



	EOLO 330 EM	EOLO 330 ET	EOLO 330 SH Petrol HONDA GP 200
Charging rate	330 l/min 19.8 m³/h 11.6 cfm	330 l/min 19.8 m³/h 11.6 cfm	330 l/min 19.8 m³/h 11.6 cfm
Tank capacity	4,5 liters	4,5 liters	4,5 liters
Engine power	2,2 kW 3 Hp Single-phase electric	3 kW 4 Hp Three-phase electric	3,6 kW 4.8 Hp Petrol HONDA GP 200
Dimensions¹ (W x D x H)		90 × 45 × 57 cm 35.4 × 17.7 × 22.4 in	
Weight¹ (dry weight)		55 kg 121 lb	54 kg 119 lb

¹ Standard model. Weight and dimensions may vary depending on accessories.

The **EOLO 330** series is composed of low pressure Coltri breathing air compressors, suitable for professional use and driven by a three-cylinder pumping unit that guarantees excellent performance. Equipped with a filter with interchangeable cartridge, it is ideal for underwater work or with ventilated helmets. The available motorizations are electric, single-phase or three-phase, and Honda internal combustion engines. The watchword is maneuverability, thanks to the built-in tank and the presence of wheels.

EOLO 330 SH
Petrol HONDA GP 200

Fuel tank capacity

3,1 liters

Fuel consumption at continuous power

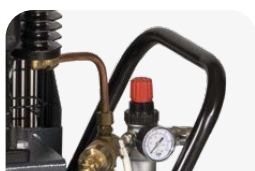
1,7 l/h - 3600 rpm

Working pressure 8 bar / 116 psi

Standard equipments



Breathing air filter



Adjustable pressure switch

Optional



Remote suction hose kit



2nd stage regulator



Food grade floating pipe



Double output T-coupling

MINI SILENT

Electric



	MINI SILENT 100 EM	MINI SILENT 100 ET	MINI SILENT 125 EM	MINI SILENT 125 ET	MINI SILENT 150 EM	MINI SILENT 150 ET
Charging rate	100 l/min 6 m ³ /h 3.5 cfm		125 l/min 7.5 m ³ /h 4.4 cfm		150 l/min 9 m ³ /h 5.3 cfm	
Filling time ¹	20 min		16 min		13.5 min	
Engine power	2,2 kW 3 Hp Single-phase el.	3 kW 4 Hp Three-phase el	3 kW 4 Hp Single-phase el.	3 kW 4 Hp Three-phase el	4 kW 5.5 Hp Single-phase el.	4 kW 5.5 Hp Three-phase el
Dimensions ² (W x D x H)	71,5 × 67 × 110 cm 28.1 × 26.4 × 43.3 in		71,5 × 67 × 110 cm 28.1 × 26.4 × 43.3 in		71,5 × 67 × 110 cm 28.1 × 26.4 × 43.3 in	
Weight ² (dry weight)	84,5 kg 186.3 lb	105 kg 231.5 lb	84,5 kg 186.3 lb	120 kg 264.6 lb	84,5 kg 186.3 lb	120 kg 264.6 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Small, quiet and powerful

Coltri's breathing air compressors of the **MINI SILENT** series, equipped with 100 and 125 l/min pumping units, are characterized by extreme silence, obtained without sacrificing performance. The large space offered by the frame allows the use of a filtering system with Maxifilter. These compressors are available with single-phase or three-phase electric motor and integrated control panel with hour meter, they have automatic condensate drain and autostop as standard. The equipment includes a filling connection for flexible hose with working pressure from 232 to 330 bar.

Working pressure from 232 to 330 bar / from 3360 to 4800 psi

Standard equipments



Filling connection
DRV DIN 232 bar



Filling connection
DRV DIN 300 bar



Filling connection
DRV INT/YOKE 232 bar



Filling hose of 1.2 m length



Hour meter



Pressure maintaining valve



Autostop



MAXIFILTER
filtration system



Auto-drain Condensate
System with condensate
collection tank



Frame color
RAL 7035 +
RAL 6018

Optional



C-Monitor

SMART

Electric



	SMART 125 EM ¹	SMART 210 EM ¹	SMART 235 ET	SMART 315 ET
Charging rate	125 l/min 7.5 m³/h 4.4 cfm	210 l/min 12.6 m³/h 7.4 cfm	235 l/min 14.1 m³/h 8.3 cfm	315 l/min 18.9 m³/h 11.1 cfm
Filling time ²	16 min	10 min	8.30 min	6.20 min
Engine power	3 kW 4 Hp Single-phase el.	4 kW 5.5 Hp Single-phase el.	4 kW 5.5 Hp Three-phase el.	5.5 kW 7.5 Hp Three-phase el.
Dimensions ³ (W x D x H)	100 × 46 × 70 cm 39.4 × 18.1 × 27.6 in			
Weight ³ (dry weight)	93 kg 205 lb	100 kg 220.5 lb	95 kg 209.4 lb	100 kg 231.5 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

The evolution of the species

SMART breathing air compressors represent the evolution of the **STANDARD**, one of the best known and biggest selling models in the world. They are equipped with two connections for high pressure hoses, a single or three phase electric motor, indestructible pumping units and a compact frame with handles for easier transport. Available options: external refilling panels, electrical display with automatic condensate drainage, and autostop pressure gauge.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections DRV DIN 232 bar



2 filling connections DRV DIN 300 bar



2 filling connections DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



MAXIFILTER filtration system



Oil sight glass with autostop



Carrying handles



Frame color Black RAL 9005

Optional



C-Monitor



Remote control panel

MARK III SILENT

Electric



	MARK III SILENT 210 EM ¹	MARK III SILENT 235 ET	MARK III SILENT 270 EM ¹	MARK III SILENT 315 ET
Charging rate	210 l/min 12.6 m ³ /h 7.4 cfm	235 l/min 14.1 m ³ /h 8.3 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Filling time ²	10 min	8.30 min	7.20 min	6.20 min
Engine power	4 kW 5.5 Hp Single-phase electric	4 kW 5.5 Hp Three-phase electric	5,5 kW 7.5 Hp Single-phase electric	5,5 kW 7.5 Hp Three-phase electric
Dimensions ³ (W x D x H)	103 × 73 × 91 cm 40.5 × 28.7 × 35.8 in			
Weight ³ (dry weight)	162 kg 357 lb		168 kg 370 lb	

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

Control is everything

The **MARK III SILENT** model is designed with control systems to effectively monitor all operations: interstage pressure, oil level, internal cabin temperature and rotation direction detector. With two connections for high pressure flexible hoses, it is equipped with electric motors and powerful pumping units, automatic condensate drain and electrical panel for managing the automatic compressor shutdown. Available options include the remote charging panel.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections
DRV DIN 232 bar



2 filling connections
DRV DIN 300 bar



2 filling connections
DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



MAXIFILTER
filtration system



Cabin temperature with
automatic switch-off



Phase controller that
prohibits reverse rotation



Pressure switch with
automatic switch-off



Oil level



Auto-drain Condensate
System with condensate
collection tank



Frame color
Black RAL 9005

Optional



C-Monitor



Presec, filter
control system



SAM sensors
CO+CO₂+H₂O.
Available in
version with VOC



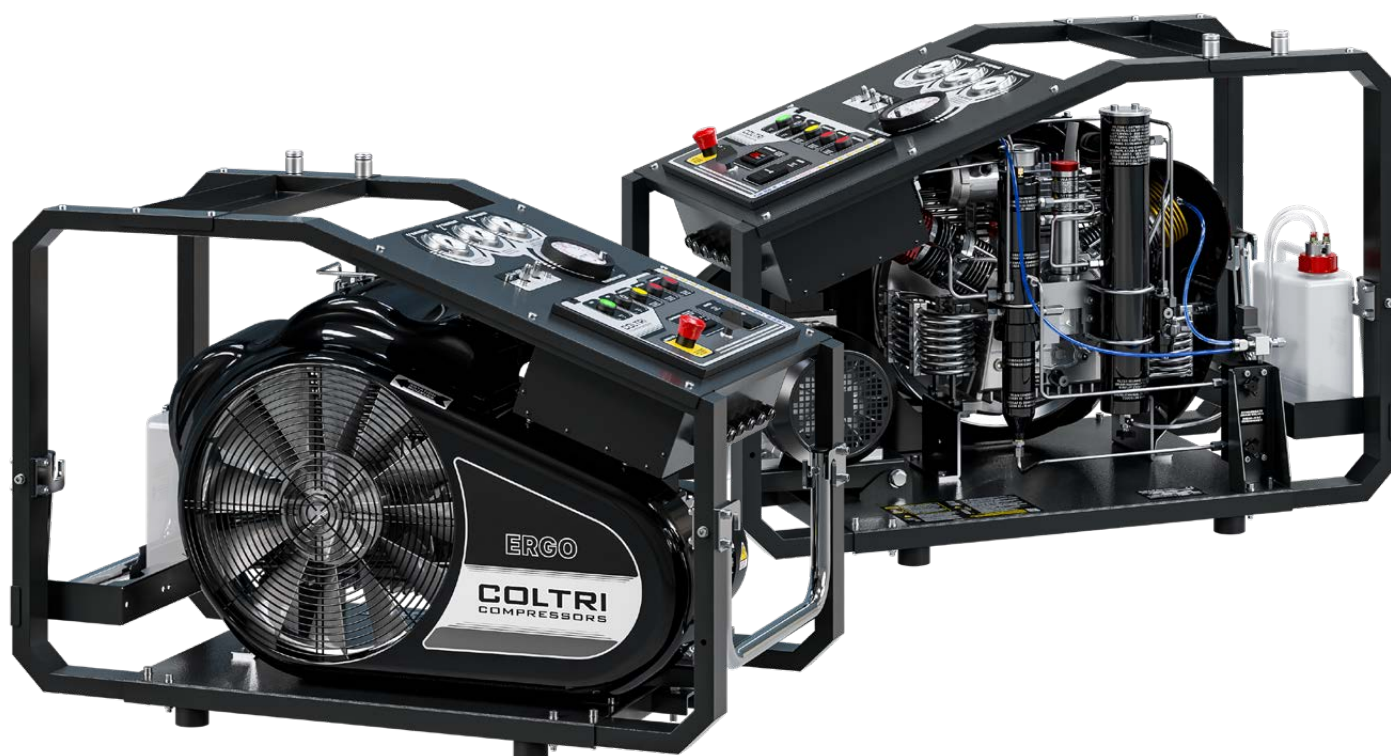
Tornado
refrigerator
Available in 350
bar or 420 bar



CO SafeGuard

ERGO

Electric



	ERGO 210 EM ¹	ERGO 235 ET	ERGO 270 EM ¹	ERGO 315 ET
Charging rate	210 l/min 12.6 m ³ /h 7.4 cfm	235 l/min 14.1 m ³ /h 8.3 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Filling time ²	10 min	8.30 min	7.20 min	6.20 min
Engine power	4 kW 5.5 Hp Single-phase electric	4 kW 5.5 Hp Three-phase electric	5,5 kW 7.5 Hp Single-phase electric	5,5 kW 7.5 Hp Three-phase electric
Dimensions ³ (W x D x H)	112 × 63 × 77 cm 44.1 × 24.8 × 30.3 in			
Weight ³ (dry weight)	159 kg 350 lb		147 kg 324 lb	152 kg 335 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

Maximum efficiency in motion

Practical and lightweight, **ERGO** combines robustness and great operational efficiency. Equipped with two different pumping units, it can be powered by electric motors or Honda petrol/Kohler diesel engines. It is equipped with a monitoring panel complete with interstage pressure gauges, autostop with adjustable pressure switch, automatic condensate drain and rotation direction control. There are two connections for high pressure hoses (from 232 to 330 bar) and a Maxifilter filter system. The remote charging panel is available as an option.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections
DRV DIN 232 bar



2 filling connections
DRV DIN 300 bar



2 filling connections
DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



MAXIFILTER filtration system



Cabin temperature with
automatic switch-off



Phase controller that
prohibits reverse rotation



Pressure switch with
automatic switch-off



Oil sight glass with autostop



Auto-drain Condensate
System with condensate
collection tank



Frame color
Black RAL 9005

Optional



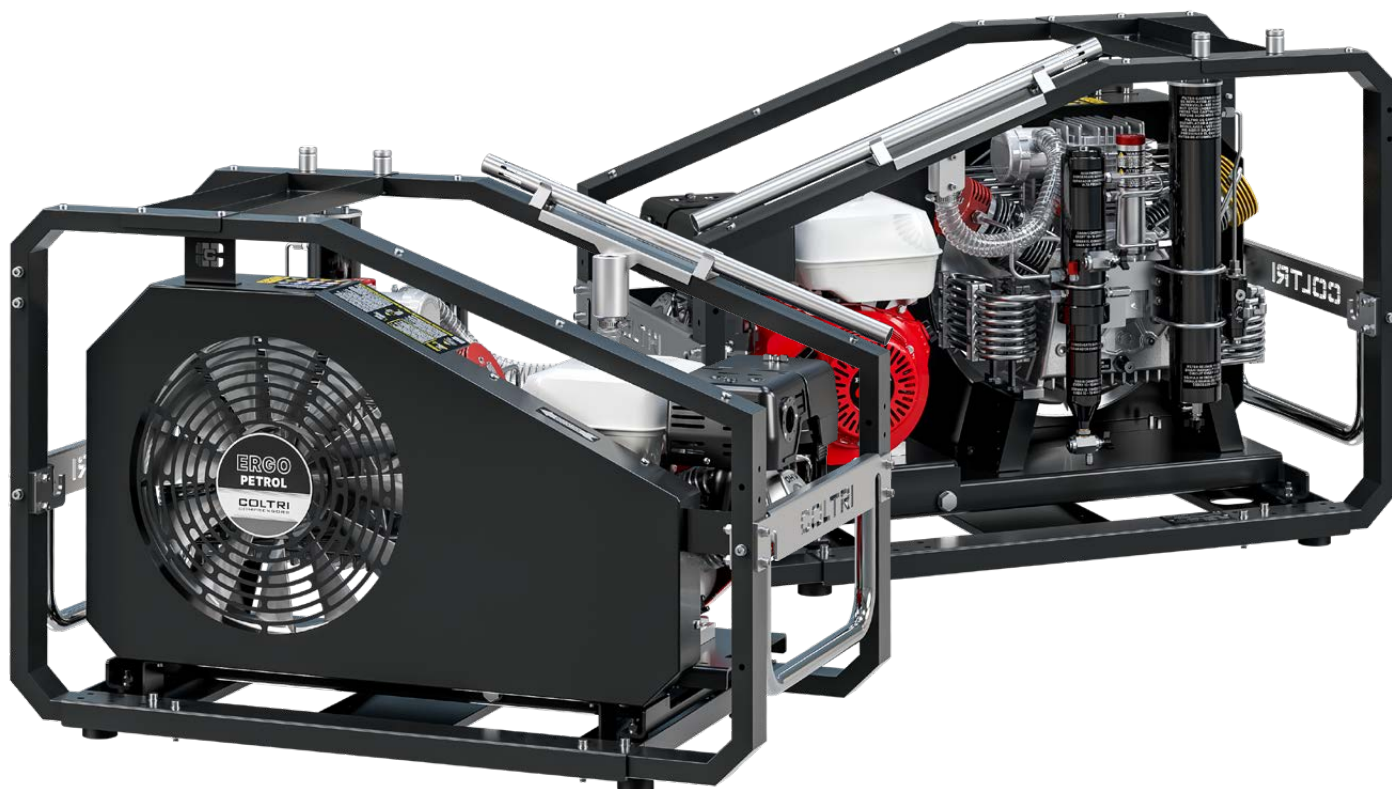
C-Monitor



Wheel kit

ERGO

Petrol



ERGO 270 SH

Petrol HONDA GX 270

ERGO 270 SH FA

Petrol HONDA GX 270 Elt. Str.

Charging rate	270 l/min 16.2 m ³ /h 9.5 cfm	270 l/min 16.2 m ³ /h 9.5 cfm
Filling time ¹	7.20 min	7.20 min
Engine power	6,6 kW 9 Hp Petrol HONDA GX 270	6,6 kW 9 Hp Petrol HONDA GX 270 Elt. Str.
Dimensions ² (W x D x H)	122 × 63 × 77 cm 48 × 24.8 × 30.3 in	
Weight ² (dry weight)	121 kg 267 lb	

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

ERGO 270 SH
Petrol HONDA GX 270

ERGO 270 SH FA
Petrol HONDA GX 270 Elt. Str.

Fuel tank capacity

5,3 liters

Fuel consumption at continuous power

2,4 l/h - 3600 rpm

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections
DRV DIN 232 bar
with pressure gauge



2 filling connections
DRV DIN 300 bar
with pressure gauge



2 filling connections
DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



MAXIFILTER
filtration system



Oil sight glass with autopstop



Auto-drain Condensate
System with condensate
collection tank. Only for FA
model



Electric starter
Only for FA model



Fixed pressure switch with
automatic shutdown.
Only for FA model



Frame color
Black RAL 9005

Optional



C-Monitor



Digital hour meter



Wheel kit

ERGO

Diesel



ERGO 280 DY

Diesel YANMAR

ERGO 280 DY FA

Diesel YANMAR Elt. Str.

Charging rate	280 l/min 16.8 m ³ /h 9.9 cfm	280 l/min 16.8 m ³ /h 9.9 cfm
Filling time ¹	7.20 min	7.20 min
Engine power	6,8 kW 9.2 Hp Diesel YANMAR	6,8 kW 9.2 Hp Diesel YANMAR Elt. Str.
Dimensions ² (W x D x H)	122 × 63 × 77 cm 48 × 24.8 × 30.3 in	
Weight ² (dry weight)	121 kg 267 lb	

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

ERGO 280 DY
Diesel YANMAR

ERGO 280 DY FA
Diesel YANMAR Elt. Str.

Fuel tank capacity

5,4 liters

Fuel consumption at continuous power

2,4 l/h - 3600 rpm

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections
DRV DIN 232 bar
with pressure gauge



2 filling connections
DRV DIN 300 bar
with pressure gauge



2 filling connections DRV
INT/YOKE 232 bar



2 filling hoses of 1.2 m length



MAXIFILTER filtration system



Auto-drain Condensate
System with condensate
collection tank.
Only for FA model



Electric starter.
Only for FA model



Fixed pressure switch with
automatic shutdown.
Only for FA model



Frame color
Black RAL 9005

Optional



C-Monitor



Digital hour meter



Wheel kit

SUPER SILENT

Electric



SUPER SILENT 235 ET



SUPER SILENT 315 ET

Charging rate	235 l/min 14.1 m ³ /h 8.3 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Filling time ¹	8.30 min	6.20 min
Engine power	4 kW 5.5 Hp Three-phase electric	5,5 kW 7.5 Hp Three-phase electric
Dimensions ² (W x D x H)	90 × 91 × 132 cm 35.4 × 35.8 × 52 in	
Weight ² (dry weight)	192 kg 423 lb	202 kg 445 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

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.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections DRV DIN 232 bar



2 filling connections DRV DIN 300 bar



2 filling connections DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



MAXIFILTER filtration system



Cabin temperature with automatic switch-off



Phase controller that prohibits reverse rotation



Pressure switch with automatic switch-off



Auto-drain Condensate System with condensate collection tank



Frame color
Black RAL 9005

Optional



C-Monitor



SAM sensors
CO + CO₂ + H₂O.
Available in version with VOC



CO SafeGuard

MAXIFILTER PURIFICATION SYSTEM



- A**
- 1 Activated carbon
 - 2 Molecular sieve
- (Standard equipment)
-
- B**
- 1 Activated carbon
 - 2 CO-catalyst
 - 3 Molecular sieve
- (Suggested for applications with diesel/gasoline engines)

MAXIFILTER

Operating pressure (Standard)	232 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	890 m³

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%.

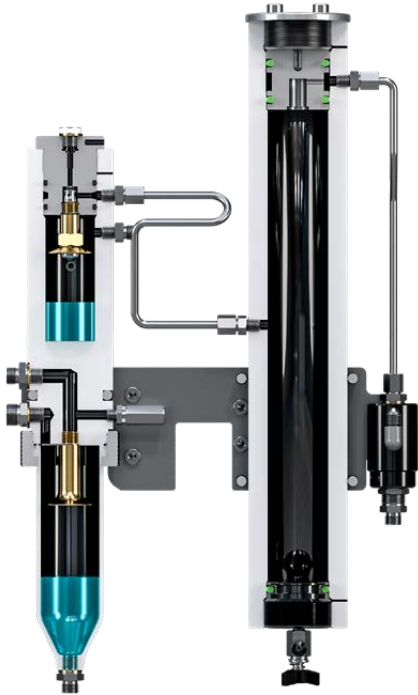
MAXIFILTER condensate separation system

Used on Efficient line models.

- Interstage separator after the 2nd stage, forged and anodized aluminum.
- High-pressure final separator for removal of oil/water condensate.
- Final safety valve, PED certified, mounted on the separator housing.
- Pressure maintaining valve/check valve.

Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H ₂ O	25 mg/m ³	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO ₂	500 ppm(v)	≤ 500
Oil	0,5 mg/m ³	≤ 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.



MAXIFILTER cartridge



- A** With molecular sieve and activated carbon
- B** With molecular sieve
- C** With activated carbon
- D** With molecular sieve, activated carbon and CO-catalyst

Maxifilter cartridge caps and discs kit



Maxifilter cartridge felts



Standard equipments

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 individual stages and also of the final separator during compressor operation (standard drain interval every 8 minutes for a period of 6 seconds).
- Timer for automatic condensate drain device.
- Built-in vacuum startup (automatic draining each time the unit is turned off).
- Condensate collection tank 5 liters, with silencer; capacity about 3 liters, for environmentally friendly disposal of condensate.
- Interstage pressure gauges display the operating pressure for individual compression stages. This pressure information makes it possible to check the tightness of the valves (inlet and outlet) of each stage and to quickly identify potential sources of failure.
- The interstage pressure gauges are mounted in the compressor frame.



Electromechanical pressure switch (Efficient line)

The instrument allows pressure to be displayed in bar/psi. **To be installed with the existing Hyperfilter filter system on the compressor.**

Through the adjustment knob, it allows the maximum automatic shutdown pressure to be set.



Optional

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.



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

MARK III SILENT TPS

Electric



	MARK III SILENT TPS 210 EM ¹	MARK III SILENT TPS 235 ET	MARK III SILENT TPS 270 EM ¹	MARK III SILENT TPS 315 ET	MARK III SILENT TPS 345 ET
Charging rate	210 l/min 12.6 m ³ /h 7.4 cfm	235 l/min 14.1 m ³ /h 8.3 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	315 l/min 18.9 m ³ /h 11.1 cfm	345 l/min 20.7 m ³ /h 12.2 cfm
Filling time ²	10 min	8.30 min	7.20 min	6.20 min	5.40 min
Engine power	4 kW 5.5 Hp Single-phase electric	4 kW 5.5 Hp Three-phase electric	5,5 kW 7.5 Hp Single-phase electric	5,5 kW 7.5 Hp Three-phase electric	7,5 kW 10 Hp Three-phase electric
Dimensions ³ (W x D x H)	112 × 73 × 91 cm 44.1 × 28.7 × 35.8 in				
Weight ³ (dry weight)	181 kg 399 lb		191 kg 421 lb		

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

No compromise

The **MARK III SILENT TPS** range is ideal for intensive use in hot, poorly ventilated environments or in tropical countries. Designed with an improved cooling system and a filtering system with two Hyperfilters, these compressors are powered by an electric motor and equipped with four different pumping units, all in TPS (Tropical Plus Superdry) version. They are available with function monitoring systems and electrical panel for automatic compressor shutdown.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments

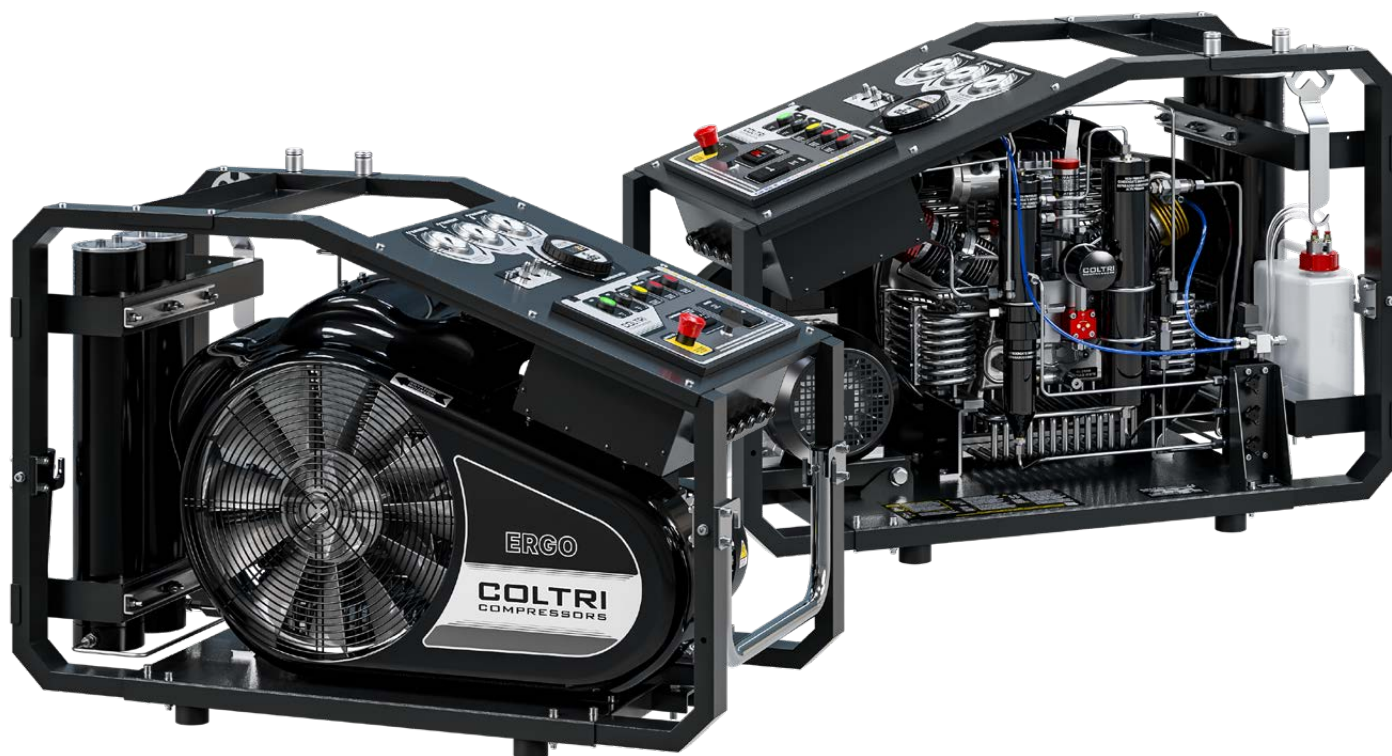
 2 filling connections DRV DIN 232 bar	 2 filling connections DRV DIN 300 bar	 2 filling connections DRV INT/YOKE 232 bar	 2 filling hoses of 1.2 m length	 Pressure maintaining valve
 Interstage control gauges	 Double filtering system Hyperfilter certified PED	 Automatic condensate drain	 Phase controller that prohibits reverse rotation	 Electronic pressure switch with automatic switch-off
 Oil level	 Oil pump with filter and pressure gauge	 Auto-drain Condensate System with condensate collection tank	 Frame color Black RAL 9005	

Optional

 C-Monitor	 Presec, filter control system	 SAM sensors CO+CO₂+H₂O. Available in version with VOC	 Tornado refrigerator Available in 350 bar or 420 bar	 CO SafeGuard
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ERGO TPS

Electric



	ERGO TPS 235 ET	ERGO TPS 270 EM ¹	ERGO TPS 315 ET
Charging rate	235 l/min 14.1 m ³ /h 8.3 cfm	270 l/min 16.2 m ³ /h 9.5 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Filling time ²	8.30 min	7.20 min	6.20 min
Engine power	4 kW 5.5 Hp Three-phase electric	5,5 kW 7.5 Hp Single-phase electric	5,5 kW 7.5 Hp Three-phase electric
Dimensions ³ (W x D x H)		112 × 63 × 77 cm 44.1 × 24.8 × 30.3 in	
Weight ³ (dry weight)	174 kg 384 lb		184 kg 406 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

Less is more

ERGO TPS is the best solution for those who want a compact breathing air compressor without compromising on high performance. Equipped with four different TPS (Tropical Plus Superdry) pumping units, ERGO TPS is powered by electric motors or engines (Honda for the petrol version, Kohler for the diesel compressors). It has a panel with a monitoring system complete with pressure gauges, autostop with adjustable electronic pressure switch, automatic condensate drain and rotation direction control. It also has two connections for high pressure hoses and an improved filtering system with two Hyperfilters. The remote charging panel is available as an option.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections DRV DIN 232 bar



2 filling connections DRV DIN 300 bar



2 filling connections DRV INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



Double filtering system Hyperfilter certified PED



Cabin temperature with automatic switch-off



Automatic condensate drain



Phase controller that prohibits reverse rotation



Electronic pressure switch with automatic switch-off



Oil sight glass with autostop



Oil pump with filter and pressure gauge



Auto-drain Condensate System with condensate collection tank



Frame color Black RAL 9005 + Carrying handles

Optional



C-Monitor



Presec, filter control system



Wheel kit

SUPER SILENT TPS

Electric



SUPER SILENT TPS 235 ET



SUPER SILENT TPS 315 ET

Charging rate	235 l/min 14.1 m ³ /h 8.3 cfm	315 l/min 18.9 m ³ /h 11.1 cfm
Filling time ¹	8.30 min	6.20 min
Engine power	4 kW 5.5 Hp Three-phase electric	5.5 kW 7.5 Hp Three-phase electric
Dimensions ² (W x D x H)	90 × 93 × 132 cm 35.4 × 36.6 × 52 in	
Weight ² (dry weight)	212 kg 467 lb	222 kg 489 lb

¹ Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

² Standard model. Weight and dimensions may vary depending on accessories.

Listen to its absolute silence

The **SUPER SILENT TPS** model is specifically designed to minimise noise. It features an enhanced cooling and sound insulation system and an efficient filtering system with two Hyperfilters. Powered by an electric motor, it has four different pumping units, all in the TPS (Tropical Plus Superdry) version, and an intuitive control panel. For longer filter life, we recommend the Tornado high pressure dryer.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



2 filling connections DRV DIN
232 bar



2 filling connections DRV DIN
300 bar



2 filling connections DRV
INT/YOKE 232 bar



2 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



Double filtering system
Hyperfilter certified PED



Cabin temperature with
automatic switch-off



Automatic condensate drain



Phase controller that
prohibits reverse rotation



Electronic pressure switch
with automatic switch-off



Oil pump with filter and
pressure gauge



Auto-drain Condensate
System with condensate
collection tank



Frame color
Black RAL 9005

Optional



C-Monitor



SAM sensors
CO + CO₂ + H₂O
Available in version
with VOC



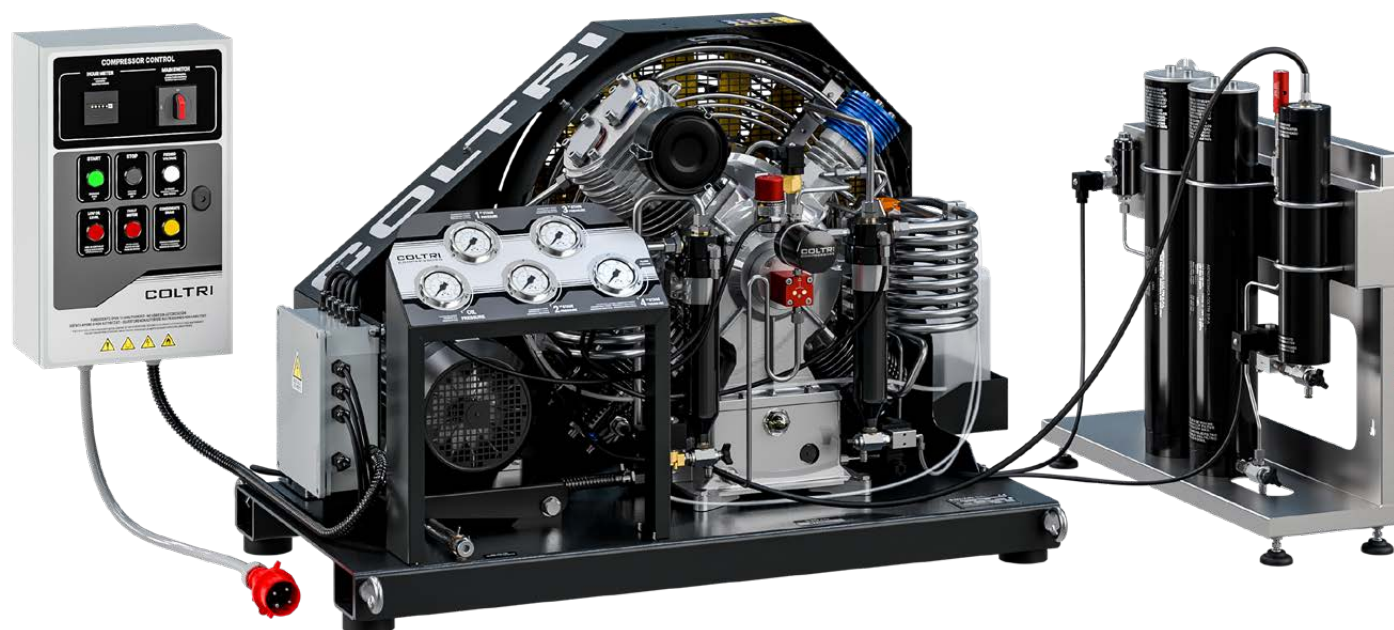
Tornado refrigerator
Available in 350 bar or
420 bar



CO SafeGuard

FORCE FOUR

Electric



	FORCE FOUR 400 EM ¹	FORCE FOUR 450 ET	FORCE FOUR 650 ET
Charging rate	400 l/min 24 m ³ /h 14.1 cfm	450 l/min 27 m ³ /h 15.9 cfm	650 l/min 39 m ³ /h 23 cfm
Filling time ²	5 min	4.30 min	3 min
Engine power	7,5 kW 10 Hp Single-phase electric 230 V, 60 Hz	7,5 kW 10 Hp Three-phase electric	11 kW 15 Hp Three-phase electric
Dimensions ³ (W x D x H)		115 × 60 × 79,6 cm 45,3 × 23.6 × 31.3 in	
Weight ³ (dry weight)		250 kg 551 lb	260 kg 573 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

It goes out of its way to give you the best

The **FORCE FOUR** model meets professional needs that require large charging capacities in hot, poorly ventilated environments or tropical countries. It is equipped with an intuitive control panel and electric motor. The pumping unit, a choice of 4 most powerful, is exposed to ensure a better cooling cycle. It is equipped with the Hyperfilter purification system mounted on a stand-alone system, with automatic condensate drainage. For longer filter life, the Tornado high-pressure dryer is recommended. Available as options: the Presec system for filter saturation control, Megafilter oversized filter cartridges, and 2 or 4 outlet remote refill panel.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



4 filling connections DRV
DIN 232 bar



4 filling connections DRV
DIN 300 bar



4 filling connections DRV
INT/YOKE 232 bar



4 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



Double filtering system
Hyperfilter certified PED



Purification system on "stand-
alone" structure



Automatic condensate drain



Oil sight glass with autostop



Oil pump



Frame color
Black RAL 9005

Optional



Presec, filter control
system



MEGAFILTER purification
system



Tornado refrigerator
Available in 350 bar
or 420 bar.
Only "stand-alone".



Single pressure remote
charging panel



Single pressure remote
charging panel with lever
tap

OPEN

Electric

OPEN 400 EM¹

OPEN 450 ET

OPEN 550 ET

OPEN 650 ET

OPEN 750 ET

Charging rate	400 l/min 24 m ³ /h 14.1 cfm	450 l/min 27 m ³ /h 15.9 cfm	550 l/min 33 m ³ /h 19.4 cfm	650 l/min 39 m ³ /h 23 cfm	750 l/min 45 m ³ /h 26.5 cfm
Filling time ²	5 min	4.30 min	4 min	3 min	2.40 min
Engine power	7,5 kW 10 Hp Single-phase electric 230 V, 60 Hz	7,5 kW 10 Hp Three-phase electric	9 kW 12.5 Hp Three-phase electric	11 kW 15 Hp Three-phase electric	15 kW 20 Hp Three-phase electric
Dimensions ³ (W x D x H)	90,5 × 105,2 × 153 cm 35.6 × 41.4 × 60.2 in		90,5 × 105,2 × 153 cm 35.6 × 41.4 × 60.2 in		
Weight ³ (dry weight)	356 kg 784 lb	356 kg 784 lb	361 kg 796 lb	365 kg 804 lb	373 kg 943 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

Top performance, even when charging

The **OPEN** model meets professional needs that require large charging capacities in hot, poorly ventilated environments or tropical countries. It has 4 front filling connections for high pressure hoses, an intuitive control panel and an electric motor. The pumping group, chosen from the 4 most powerful, is exposed in the rear housing to ensure a better cooling cycle. 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.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



4 filling connections DRV
DIN 232 bar



4 filling connections DRV
DIN 300 bar



4 filling connections DRV
INT/YOKE 232 bar



4 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



Double filtering system
Hyperfilter certified PED



Cabin temperature with
automatic switch-off



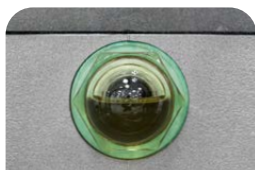
Automatic condensate drain



Phase controller that
prohibits reverse rotation



Electronic pressure switch
with automatic switch-off



Oil sight glass with autostop



Oil pump



Auto-drain Condensate
System with condensate
collection tank



Frame color
Black RAL 9005

Optional



Presec, filter
control system



SAM sensors
CO+CO₂+H₂O.
Available in
version with VOC



Tornado
refrigerator
Available in 350
bar or 420 bar



Touch screen



CO SafeGuard

SILENT

Electric



	SILENT 400 EM ¹	SILENT 450 ET	SILENT 550 ET	SILENT 650 ET	SILENT 750 ET
Charging rate	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
Filling time ²	5 min	4.30 min	4 min	3 min	2.40 min
Engine power	7,5 kW 10 Hp Single-phase electric 230 V, 60 Hz	7,5 kW 10 Hp Three-phase electric	9 kW 12.5 Hp Three-phase electric	11 kW 15 Hp Three-phase electric	15 kW 20 Hp Three-phase electric
Dimensions ³ (W x D x H)	93,5 × 130 × 173,5 cm 36.8 × 51.3 × 68.3 in	93,5 × 130 × 173,5 cm 36.8 × 51.3 × 68.3 in			
Weight ³ (dry weight)	446 kg 983 lb	446 kg 983 lb	451 kg 994 lb	455 kg 1.003 lb	463 kg 1.020 lb

¹ Data referred to the maximum pressure of 232 bar

² Filling time 10 l empty cylinder - 0/200 bar (tolerance ±5%)

³ Standard model. Weight and dimensions may vary depending on accessories.

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.

Working pressure from 232 to 420 bar / from 3360 to 6100 psi

Standard equipments



4 filling connections DRV
DIN 232 bar



4 filling connections DRV
DIN 300 bar



4 filling connections DRV
INT/YOKE 232 bar



4 filling hoses of 1.2 m length



Pressure maintaining valve



Interstage control gauges



Double filtering system
Hyperfilter certified PED



Cabin temperature with
automatic switch-off



Automatic condensate drain



Phase controller that
prohibits reverse rotation



Electronic pressure switch
with automatic switch-off



Oil sight glass with autostop



Oil pump



Auto-drain Condensate
System with condensate
collection tank



Frame color
Black RAL 9005

Optional



Presec, filter
control system



SAM sensors
CO+CO₂+H₂O.
Available in
version with VOC



Tornado
refrigerator
Available in 350
bar or 420 bar



Touch screen



CO SafeGuard

HYPERFILTER PURIFICATION SYSTEM



- A**
 - 1 Activated carbon
 - 2 Molecular sieve

(Standard equipment)
- B**
 - 1 Molecular sieve

(Standard equipment)
- C**
 - 1 Activated carbon
 - 2 CO-catalyst
 - 3 Molecular sieve

(Suggested for applications with diesel/gasoline engines)

HYPERFILTER X 2

Operating pressure (Standard)	232 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%.

HYPERFILTER condensate separation system

Used on Prime line (TPS) and Heavy Duty line models.

- Interstage separator after the 2nd stage, forged and anodized aluminum.
- High-pressure final separator for removal of oil/water condensate.
- Final safety valve, PED certified, mounted on the separator housing.
- Pressure maintaining valve/check valve.

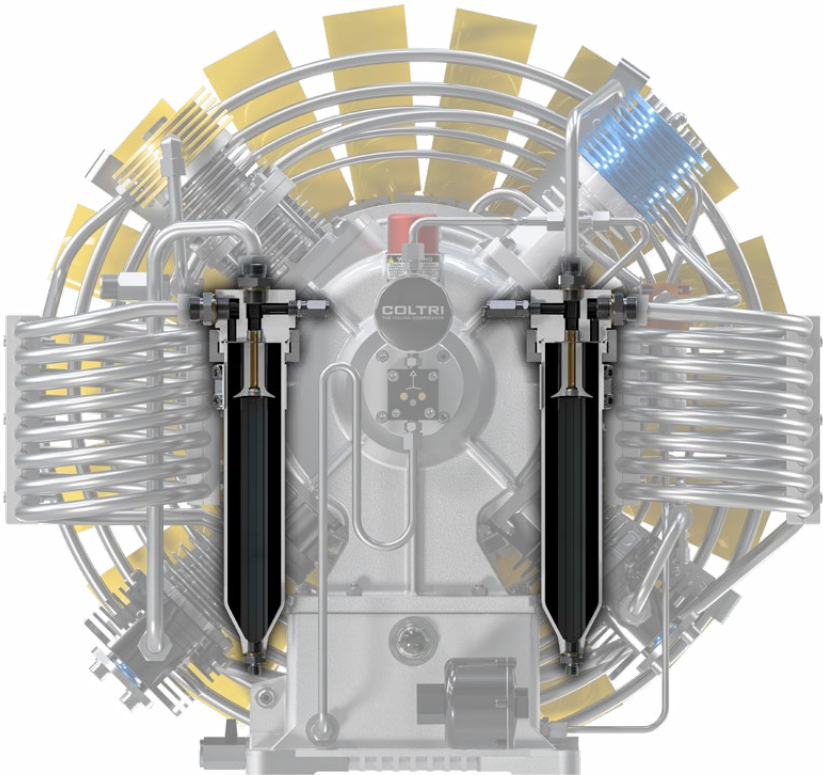
Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H ₂ O	25 mg/m ³	≤ 10 mg/m
CO	5 ppm(v)	≤ 4
CO ₂	500 ppm(v)	≤ 500
Oil	0,5 mg/m ³	≤ 0,5 mg/m

* 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.



Prime line (TPS)



Heavy Duty line

HYPERFILTER cartridges

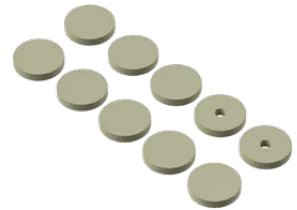


- A** With molecular sieve and activated carbon
- B** With molecular sieve
- C** With activated carbon
- D** With molecular sieve, activated carbon and CO-catalyst
- E** Hyperfilter Presec cartridge

Hyperfilter cartridge caps and discs kit



Hyperfilter cartridge felts



Lubricants

Synthetic Coltri Oil ST 755

A fully synthetic oil specifically developed for long lasting lubrication of process gas compressors and especially for breathing air. It provides outstanding performance in all types of compressors.



Activated carbon

Activated carbon is a material containing mainly **amorphous carbon**. Due to its high specific area, activated carbon is able to hold many molecules of other substances within it, being able to accommodate these molecules on its large internal surface area.



Molecular sieve

Molecular sieves are materials that can separate molecules based on size. This capability is based on the presence in the material of tiny pores of exact and uniform size, ranging in diameter **from 3 to 10 Å** depending on the material.



CO Catalyst

The trade name for a series of mixtures consisting primarily of copper and manganese oxides, used as catalysts for the conversion of carbon monoxide to carbon dioxide when exposed to oxygen in air at room temperature.



Standard equipments

Digital pressure switch (Prime line (TPS) / Heavy Duty)

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 Hour Meter for hours of operation and nr. cycles of separator intervention, ensuring a general improvement of the operation of the recharge station over time and the longevity of its filters. Standard equipment for Prime and HD lines.



According to EN 10204 Type 2.1

N.	Caratteristiche / Characteristics	Valori richiesti / requested values	Tolleranze / Tolerances	Strumento di controllo / Test equipment	Esito verifiche / Test Result
1	Setpoint alarm	300 bar	err.max 1,5% vfs	Elect. load 16V/10mA max	OK
2	Setpoint hysteresis	10 bar	err.max 1,5% vfs	Elect. load 16V/10mA max	OK
3	Range	0 – 400 bar	err.max 1,5% vfs	Pressure gauge cl. 0,25% vfs	OK
4	Process connection	G1/4"	Tab ISO228	Ring ISO228	OK

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 8 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. 5 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.



Heavy Duty line



Prime line (TPS)

Optional

Tornado refrigerator - Dryer

Used on Heavy Duty and Super Silent TPS line.
Cooler, 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.



Presec. Filter control system

Includes:

Filter cap with sensor + control unit + cartridge.

To be installed with the Hyperfilter filter system on compressor.

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.

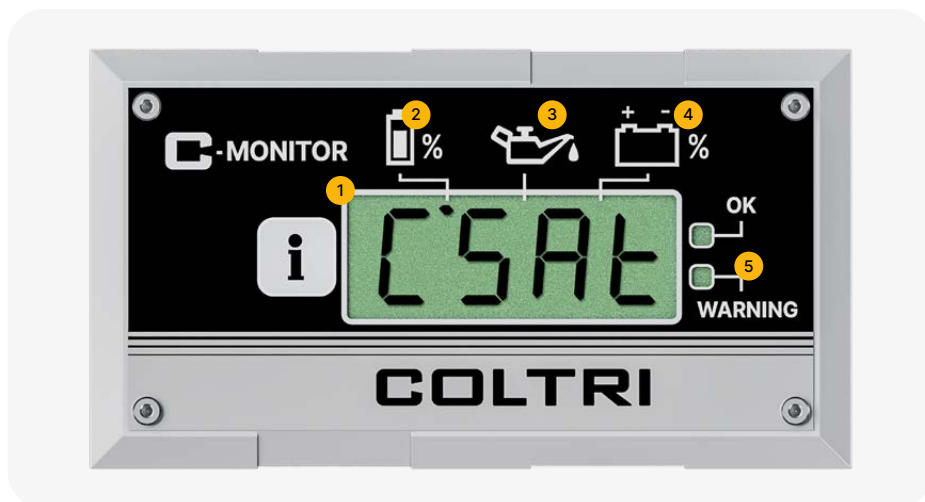
While the yellow light is pulsing (b), the steady green light (a) will still be on because the filter cartridge will not be fully saturated. If no LED lights up, it means that the PRESEC lacks power or that the electrical system is faulty.



C-Monitor

Final filter monitoring system, oil change and technical interface.

The interface consists of an LCD display, a button  and two indicators (, ). 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  indicates normal operation. Press the button  to scroll through the different functions of the menu. When pressed, the function is displayed and after two 2 seconds the corresponding data is displayed.



- 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.



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

Multi-Gas Analysis System (SAM)

Choosing the SAM Multigas Analysis System cannot also install the Presec system.

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.

Available sensors:

- Oxygen O₂
- Carbon dioxide CO₂
- Carbon Monoxide CO
- Humidity H₂O
- Gas Temperature
- VOC (Volatile Organic Compound)
- Helium in Air



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

Storage system

The new air and nitrogen storage stations are available in standard models of **1 or 2×50-liters cylinders**.

Technical data

Cylinder volume	50 liters
Max working pressure	420 bar
Compatible gases	Breathing air EN 12021 and Nitrogen

Storage system are modular: they can be connected in series to meet the need for higher storage volumes as well.

Storage system
1×50 liters



Storage system
2×50 liters



2 modules of 2 × 50 liters



4 modules of 2 × 50 liters

Remote filling panels

Coltri filling panels are designed to recharge cylinders (225-300 bar) via HP compressors or air banks. Compatible gases include Nitrogen, Helium, and Nitrox (max 40% O₂). Built with premium, pre-tested materials to withstand high stress, the panels require proper maintenance per the manual to ensure longevity. The manufacturer is not liable for damages or injuries resulting from improper use.

Priority panel (only on double-pressure filling panels)

The priority panel is an ideal solution for simple and effective storage management. It automatically manages the flow of air in the filling station between the compressor, storage, and cylinders. The user can simply connect empty cylinders to the filling panel and open their valves.

**Remote filling panel
single pressure**



**Remote filling panel
double pressure with
priority panel**



**Remote filling panel
single pressure with
lever taps**



**Remote filling panel
double pressure with
lever taps with priority
panel**



**Remote filling panel
single pressure with
lever valve for SCBA
300 bar stainless steel**



C-NITROX

Electric



C-NITROX 400



C-NITROX 700

C-NITROX 400

C-NITROX 700

Max oxygen percentage	40% O ₂	36% O ₂
L/min.	315 l/min	450 l/min
Dimensions (W x D x H)	98,5 × 72 × 129 cm 38.8 × 28.3 × 50.8 in	117 × 78 × 129 cm 46 × 30.7 × 50.7 in
Weight (dry weight)	199 kg 439 lb	296 kg 652.5 lb

The **NITROX** line includes three industrial screw compressors designed for the production of Nitrox mixtures with a working pressure between 10 and 12 bar. The 400 and 700 models, both equipped with an OXYSEP 7-15-40 membrane, reach up to 40% oxygen: the former with a 7.5 kW motor and 315 l/min HP compressor, the latter with a 15 kW motor combined with 450 or 650 l/min HP compressors. The oxygen percentage is adjusted via a front-facing valve, while an integrated analyzer allows constant monitoring of the output mixture.

Standard equipments



Electric panel



Automatic condensate drain



Analyzers

ARMOR



ARMOR 2



ARMOR 4

Filling connection	DIN 300 bar	DIN 300 bar
Contained cylinder	220 mm Max diameter	Any Scuba or SCBA cylinder
Dimensions	60 × 73 × 104 cm 23.6 × 28.7 × 40.9 in	70 × 65 × 80 × 116 cm 27.6 × 25.6 × 31.5 × 45.7 in

ARMOR 2

Coltri explosion-proof booths allow you to use the charging stations in total safety thanks to the taps and integrated hoses.



ARMOR 4

The version for multiple refills with hinged door is equipped not only with the standard equipment, but also with filling valves and pressure management.



Standard equipments



Filling hose with
DIN 300 bar

Optional



Filling connection
DVR DIN 232 bar



Filling connection
DVR DIN 300 bar

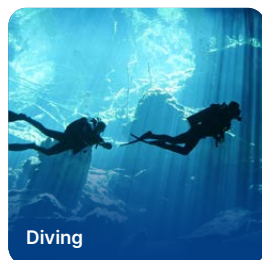


Filling connection
DIN/INT 232 bar

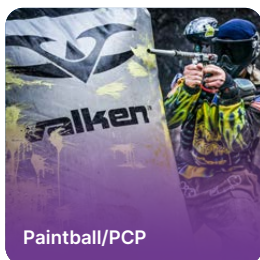


Filling connection
DRV INT/YOKE 232
bar

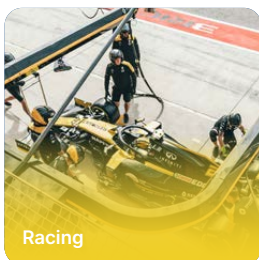
Products application fields



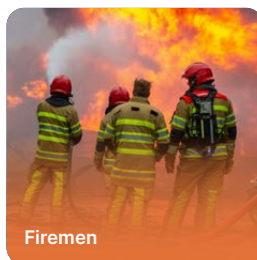
Diving



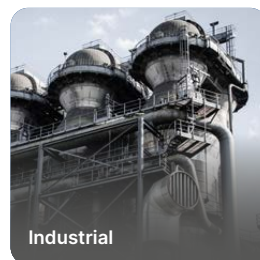
Paintball/PCP



Racing



Firemen



Industrial

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