

2025

COLTRI®
COMPRESSORS

FIRE DEPARTMENT COMPRESSORS

USA 

High pressure breathing air compressors

Quality is the standard!

Our range of firefighting compressors is designed to ensure a constant supply of safe and reliable breathing air. We are committed to providing versatile solutions for your diverse operational needs. Coltri compressors are available with electric or gasoline power options to adapt to the multiple power sources present in different applications.

At Coltri, we take pride in supporting firefighters by providing high-quality and reliable breathing air compressors, as well as explosion-proof fill enclosures, with modular solutions that allow for customization to meet specific space and application requirements.



Firefighters

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.

MARK III SILENT TPS

Electric



No Compromise

The Mark III Silent TPS (Tropical Plus Superdry) has an intuitive control panel and operates at 72 dB. This machine is ideal for departments in hot and poorly ventilated environments. Designed with an improved cooling and dual filtration system to create Grade E air, this machine cleans 106,000 cubic feet of breathing air. The compressor comes standard with an auto stop for safety and an auto condensate to drain away harmful moisture. Coltri machines don't rely on splash lubrication, they come standard with an oil pump for lubrication. The power supply is 7.5 to 10 hp and either a single or three phase electric motor.

SUPER SILENT TPS

Electric



Absolute Silence

The Super Silent TPS (Tropical Plus Superdry) is a vertical machine and operates at 65 dB. This machine is ideal for demanding use and humid environments. Designed with the same cooling and dual filtration system as the Mark III TPS, this machine also cleans 106,000 cubic feet of breathing air. The compressor comes standard with an intuitive control panel, an auto stop for safety and an auto condensate to drain away harmful moisture. Coltri machines don't rely on splash lubrication, they come standard with an oil pump for lubrication. The power supply is 7.5 to 10 hp and a three phase electric motor.

Technical data

Type of gas	Breathing air EN 12021 - Nitrox 40% max O2 - Helium - Nitrogen
Intake pressure	Atmospheric max 300 bar
Nominal pressure	250 bar / 330 bar / 360 bar
Filling pressure	232 bar / 300 bar / 330 bar
Maximum working pressure	232 bar / 420 bar
Operating voltage, standard	230 V, 60 Hz
Other operating voltage	230 V, 50 Hz / 440 V, 60 Hz / 230 V, 60 Hz
Oil change interval	1 year / 1.000 h

Compressor

	315 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	315 l/min 18.9 m³/h 11.1 cfm
Purification system	Hyperfilter x 2
Cooling air flow, min.	2.180 m³/h
Weight*	222 kg - 489 lb
Dimensions (W x D x H)*	90 × 93 × 132 cm - 35.4 × 36.6 × 52 in

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

Motor

	315 ET
Power	5,5 kW - 7.5 Hp
Type	Three-phase electric
Operating voltage/frequency Different voltage / frequency available on request.	230 V, 60 Hz
Rated current	29,7 A
Speed (RPM)	3.510
Protection class	IP55

HYPERFILTER purification system


Purification system	Hyperfilter x 2
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Maximum operating pressure (PS)	420 bar
Filtered gas volume	3.050 m ³
When using a filter cartridge of the type shown in the figure.	



Standard equipments




Interstage pressure gauges



Double hyperfilter filtration PED




Thermostat




Phase controller



Digital pressure switch



Oil level

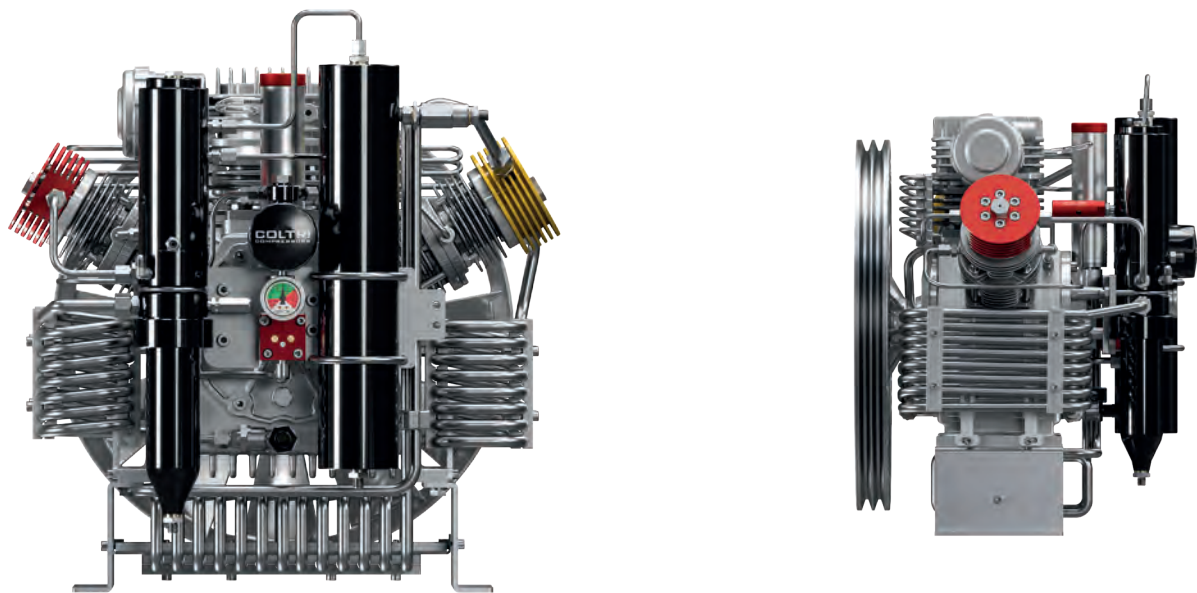


Oil pump

Optional

- Remote filling panel single pressure with lever valve stainless steel
- Remote filling panel double pressure with lever valve stainless steel
- SAM Multigas analyzer
- CO SafeGuard

Pumping unit



Compressor block

	270 EM	315 ET	345 ET
Intake pressure	Atmospheric max 300 bar		
Charging rate	270 l/min	315 l/min	345 l/min
Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	16.2 m³/h	18.9 m³/h	20.7 m³/h
	9.5 cfm	11.1 cfm	14.2 cfm
Speed (RPM)	1.600		1.240
Number of stages	3		
Number of cylinders	3		
Cylinder bore 1st stage	95 mm		
Cylinder bore 2nd stage	38 mm		
Cylinder bore 3rd stage	14 mm		15 mm
Stroke	40 mm		50 mm
Direction of rotation (from flywheel side)	Clockwise (right)		
Drive type	V-belt A type		
Intermediate pressure 1st stage	~ 6 bar		
Intermediate pressure 2nd stage	~ 45 bar		
Amount of oil	1,8 liters		
Max intake pressure	1,3 bar _a – 300 millibar		

OPEN

Electric



Top Performance

Equipped with Coltri's most powerful 4-stage pumping group and dual filtration system, the OPEN HD is designed to meet the needs of professionals requiring large filling capacities in hot and poorly ventilated environments. The pumping group is exposed for better ventilation and still operates at 72 dB. Designed with the same cooling and dual filtration system as the TPS machines, this machine also cleans 106,000 cubic feet of breathing air. The compressor comes standard with an intuitive control panel, an auto stop for safety and an auto condensate to drain away harmful moisture. Coltri machines don't rely on splash lubrication, they come standard with an oil pump for lubrication. The power supply is 10 to 20 hp with either a single or three phase electric motor.

SILENT

Electric



Silent Performance

Also equipped with Coltri's most powerful 4-stage pumping group and dual filtration system, the SILENT HD is fully enclosed and operates below 70 dB. Designed with the same cooling and dual filtration system as the TPS machines, this machine also cleans 106,000 cubic feet of breathing air. The compressor comes standard with an intuitive control panel, an auto stop for safety and an auto condensate to drain away harmful moisture. Coltri machines don't rely on splash lubrication, they come standard with an oil pump for lubrication. The power supply is 10 to 20 hp with either a single or three phase electric motor.

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
Operating voltage	400 V, 50 Hz
Other operating voltage	230 V, 50 Hz / 230 V, 60 Hz / 440 V, 60 Hz
Oil change interval	1 anno / 1.000 h

Compressor

	400 EM	450 ET	550 ET	650 ET	750 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	400 l/min 24 m3/h 14,1 cfm	450 l/min 27 m³/h 15,9 cfm	550 l/min 33 m³/h 19,4 cfm	650 l/min 39 m³/h 23 cfm	750 l/min 45 m³/h 26,5 cfm
Purification System	Hyperfilter x 2				
Cooling air flow	4.050 m³/h		4.820 m³/h		5.590 m³/h
Weight¹	356 kg - 784 lb		361 kg - 796 lb	365 kg - 804 lb	373 kg - 943 lb
Dimensions (W x D x H)¹	90,5 × 102,5 × 153,5 cm - 35.6 × 40.4 × 60.5 in				

¹ Standard model. Dimensions may vary depending on accessories.

Electric motor

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

HYPERFILTER purification system

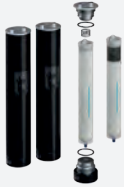
Purification system	Hyperfilter x 2
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Maximum operating pressure (PS)	420 bar
Filtered gas volume	3.050 m ³
When using a filter cartridge of the type shown in the figure.	




Standard equipments




Interstage pressure gauges



Double hyperfilter filtration PED




Thermostat




Phase controller



Digital pressure switch



Oil level

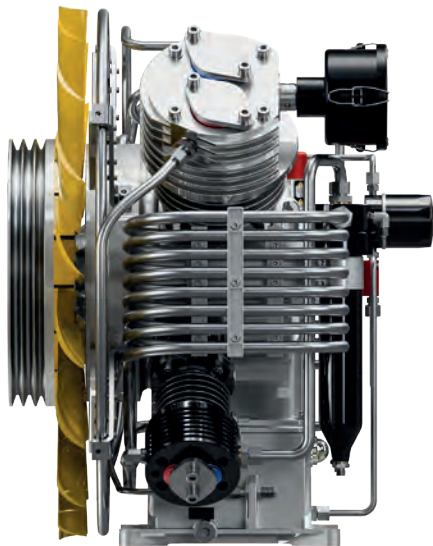
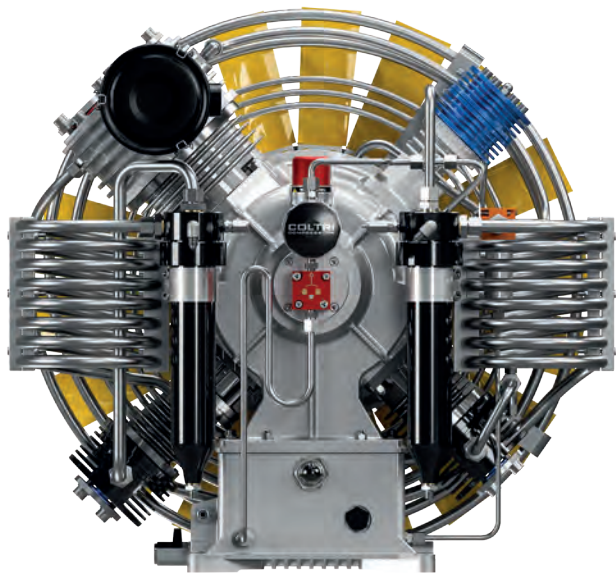


Oil pump

Optional

- SAM Multigas analyzer
- Tornado Refrigerator - Dryer
- Touch screen
- Remote filling panel single pressure with lever valve stainless steel
- Remote filling panel double pressure with lever valve stainless steel
- Filling hose
- CO SafeGuard
- Presec. filter control system

Pumping unit



Compressor block

	400 EM	450 ET	550 ET	650 ET	750 ET
Intake pressure	Atmospheric max 300 bar				
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	400 l/min 24 m3/h 14,1 cfm	450 l/min 27 m³/h 15,9 cfm	550 l/min 33 m³/h 19,4 cfm	650 l/min 39 m³/h 23 cfm	750 l/min 45 m³/h 26,5 cfm
Speed (RPM)	1.050		1.250		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				

CO SAFEGUARD MONITOR



CO Safeguard is a fully digital instrument with a visible and audible alarm if carbon monoxide is present over the pre-set limits. It is based on a state-of-the-art carbon monoxide electrochemical sensor with long term stability and virtually calibration-free. It is possible to replace and calibrate the carbon monoxide sensor without any factory assistance. The instrument is able to read 5 ppm (parts per million), in compliance with the NFPA standards.

SAM (SYSTEM ANALYSIS MULTIGAS)



System Analysis Multigas (SAM) is a measurement instrument connected to a large number of sensors.

The instrument is able to read 5 ppm (parts per million), in compliance with the NFPA standards. Its application includes continuous ambient gas monitoring. Standard configuration include:

- Oxygen
- Carbon Dioxide
- Carbon Monoxide
- Humidity

NFPA FILL ENCLOSURE



NFPA Fill Enclosure are distinguished by the number of cylinders they contain, net weight and accessories supplied. All models are equipped with fill hose and fittings for charging, cylinder housing and pressure gauge.

Technical data

	ARMOR SSX2	ARMOR SSX3	ARMOR SSX4
Dimensions (W x D x H)		36,8 × 51,3 × 68,3 in	
Weight (net)		983 lbs	

Bulk or Cascade controls with SCBA Regulator & Fill Valve

"Graphic Technology" Control Panels Group Components Logically by Function and Air Flow Direction.

UL® Certified Two SCBA Containment Design Fill Station, Subjected to Un-Announced Periodic Inspections and Meet NFPA 1901 2016 Edition Rupture Containment Requirements.

Performance-Proven "AirLock" Access Door Design and Balanced Cylinder Fill Enclosure Forward Tilt Rotation Enhances Operator Comfort.



Integrated System is Designed for Against-the-Wall Installation and Accommodates up to Four (4) Air Storage Cylinders at the Rear of Unit.

Unique, Tilt-forward Fill Station Control Panel for Unfettered Maintenance

Scratch Resistant, Powder Coated, Seamless Appliance Cabinet

MARK III SILENT TPS SYSTEM

Breathing Air System

The system includes the compressor, CO monitor, an NFPA two position fill enclosure, control panel and four ISO 6000 PSI cascade bottles.

Compressor

The Mark III Silent TPS cabinet represents excellence in soundproofing at only 72 dB, an easy-to-use control panel and an electrical switchboard UL 508A compliant.

1. On/Off button
2. Emergency shut-off
3. Dual Hyperfiltration

Digital display:

- Operating hours
- Filling pressure
- Oil pressure Alert
- High heat shut-off
- Condensate
- Operating Hours (tamper resistant)



The heart of the machine is Coltri's is the GP 315 TPS, 3-stage compressor, intercoolers, and oil pump with an auto-stop and auto-condensate feature and filling capacities of up to 13.4 cfm at 6000 psi.

Armour SSX2 Fill Containment



- 2-Cylinder Position with Air Lock door
- Isolated Storage Bank or One Circuit
- Fill regulator
- NFPA 1901 Certification
- 4 ISO 6000 PSI cascade bottles

CO SafeGuard Monitor



CO SafeGuard is a fully digital instrument with a visible and audible alarm if carbon monoxide is present over the pre-set limits. It is based on a state-of-the-art carbon monoxide electrochemical sensor with long term stability and virtually calibration-free. It is possible to replace and calibrate the carbon monoxide sensor without any factory assistance. The instrument is able to read 5 ppm (parts per million), in compliance with the NFPA standards.

SUPER SILENT TPS SYSTEM

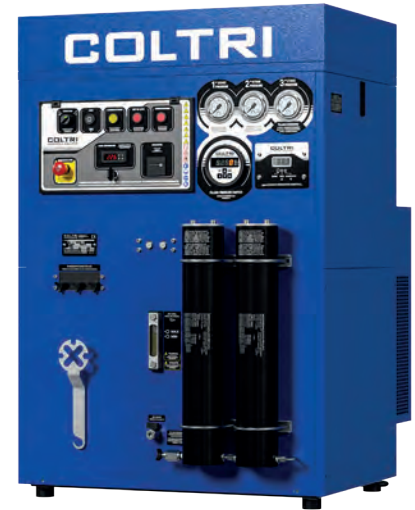
Breathing Air System

The system includes the compressor, CO monitor, an NFPA two position fill enclosure, control panel and four ISO 6000 PSI cascade bottles.

Compressor

The Super Silent TPS cabinet represents excellence in soundproofing at only 65 dB, an easy-to-use control panel, and an electrical switchboard UL 508A compliant.

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. On/Off button 2. Emergency shut-off 3. Dual Hyperfiltration | <p>Digital display:</p> <ul style="list-style-type: none"> • Operating hours • Filling pressure • Oil pressure Alert • High heat shut-off • Condensate • Operating Hours (tamper resistant) |
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OPEN SYSTEM

Breathing Air System

The system includes the compressor, multigas CO monitor, an NFPA two position fill enclosure, control panel and four 6000 PSI cascade bottles.

Compressor

The OPEN HD cabinet represents excellence in soundproofing at only 72 dB and an easy-to-use control panel, an electrical switchboard UL 508A compliant.

1. On/Off button
2. Emergency shut-off
3. Dual Hyperfiltration

Digital display:

- Operating hours
- Filling pressure
- Oil pressure Alert
- High heat shut-off
- Condensate
- Operating Hours (tamper resistant)

The heart of the machine is Coltri's most powerful GP 650, 4-stage compressor, intercoolers, and oil pump with an auto-stop and auto-condensate feature for intensive use and large filling capacities up to of 27 cfm at 6000 psi.



Armour SSX2 Fill Containment



- 2-Cylinder Position with Air Lock door
- Isolated Storage Bank or One Circuit
- Fill regulator
- NFPA 1901 Certification
- 4 ISO 6000 PSI cascade bottles

SAM System Analysis System Monitor



SAM Multigas is based on a state-of-the-art carbon monoxide electrochemical sensor. It is a fully digital measurement instrument with visible and audible alarms if carbon monoxide, carbon dioxide or moisture are present over the pre-set ppm limit and will shut down the machine.

SILENT SYSTEM

Breathing Air System

The system includes the compressor, multigas CO monitor, an NFPA two position fill enclosure, control panel and four 6000 PSI cascade bottles.

Compressor

The SILENTHD cabinet represents excellence in soundproofing operating at below 70 dB and an easy-to-use control panel, an electrical switchboard UL 508A compliant.

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. On/Off button 2. Emergency shut-off 3. Dual Hyperfiltration | <p>Digital display:</p> <ul style="list-style-type: none"> • Operating hours • Filling pressure • Oil pressure Alert • High heat shut-off • Condensate • Operating Hours (tamper resistant) |
|--|---|

The heart of the machine is Coltri's most powerful GP 650, 4-stage compressor, intercoolers, and oil pump with an autostop and auto-condensate feature for intensive use and large filling capacities up to of 27 cfm at 6000 psi.



Armour SSX2 Fill Containment



- 2-Cylinder Position with Air Lock door
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Application fields



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showroom in Virtual
Reality



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COLTRI®
COMPRESSORS