

PRIME LINE

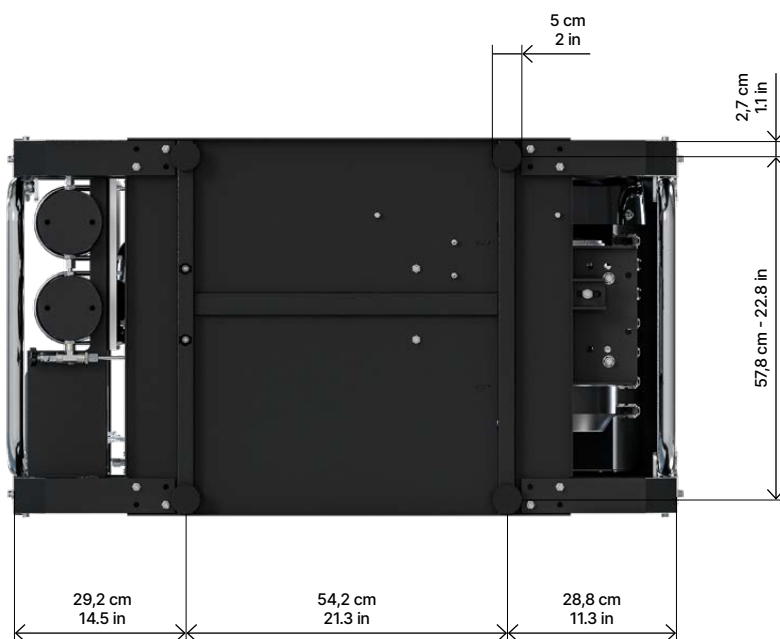
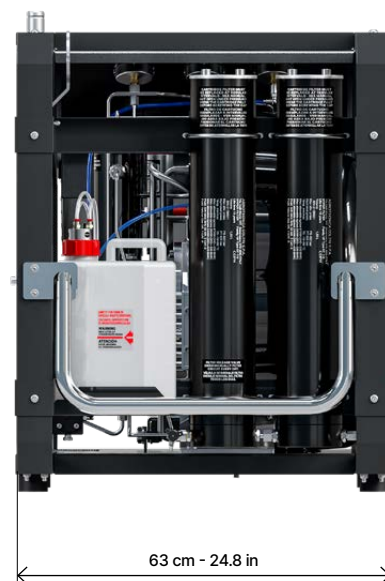
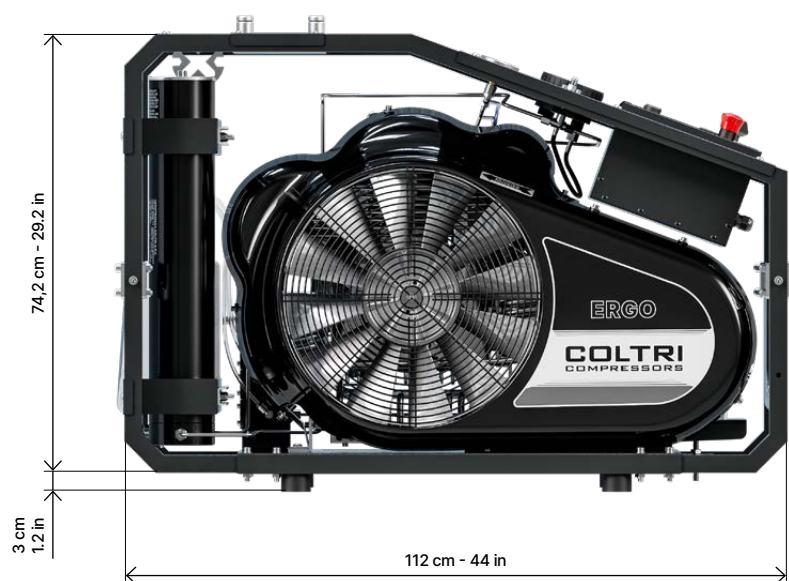
ERGO TPS



Contact

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 different TPS (Tropical Plus Superdry) pumping units, **ERGO TPS** is powered by electric motors. 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.



Technical data

Type of gas	Breathing air EN 12021
Intake pressure	Atmospheric / max 300 millibar
Working pressure	232 bar / 300 bar / 330 bar
Max working pressure	232 bar (Single-phase electric) / 420 bar (Three-phase electric)
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	15°
Oil	Synthetic Coltri Oil ST 755
Oil change interval	1 year / 1.000 h
Frame	Steel - Colour Black RAL 9005 - Powder coating painting - Scratch proof

Compressor

	235 ET	270 EM	315 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	235 l/min 14.1 m³/h 8.3 cfm	270 l/min 12.6 m³/h 7.4 cfm	315 l/min 18.9 m³/h 11.1 cfm
Purification System	Hyperfilter x 2		
Cooling air flow	1.960 m³/h	2.400 m³/h	
Weight¹	174 kg - 384 lb	184 kg - 406 lb	
Dimensions (W x D x H)¹	112 × 63 × 77 cm - 44.1 × 24.8 × 30.3 in		

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

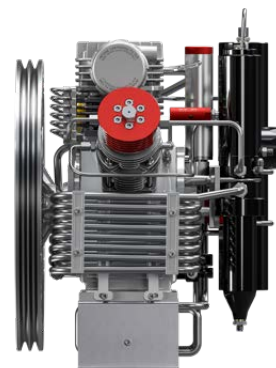
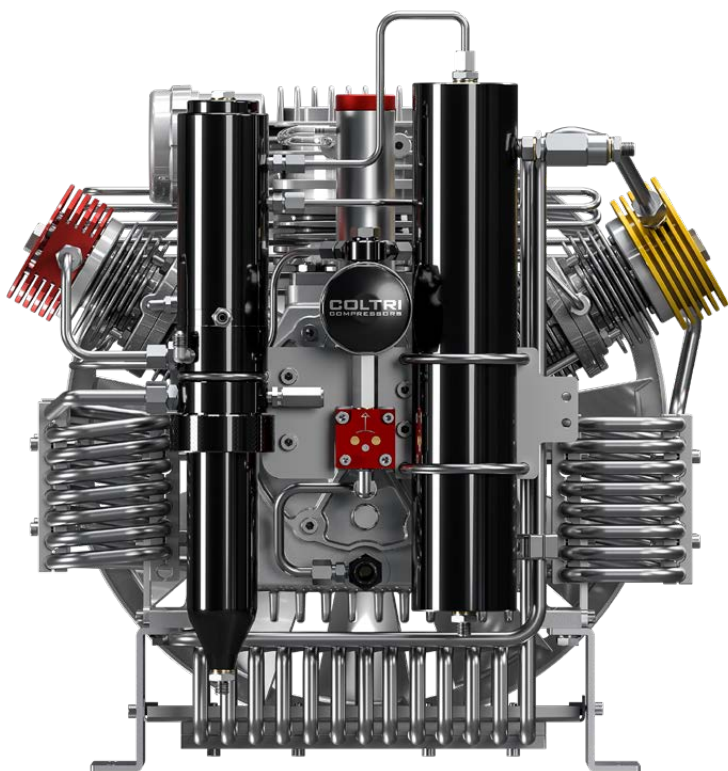
Electric motor

	235 ET	270 EM	315 ET
Power	Three-phase electric	Single-phase electric	Three-phase electric
Type	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp	5,5 kW - 7.5 Hp
Operating voltage/frequency Different voltage / frequency available on request.	400 V, 50 Hz	440 V, 60 Hz	230 V, 60 Hz
Rated current	9,7 A	29,7 A	12,6 A
Speed (RPM)	2.840	3.410	3.510
Protection class	IP55		

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

Technical data pumping unit MCH 16 TPS

	235 ET	270 EM	315 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	235 l/min 14.1 m³/h 8.3 cfm	270 l/min 12.6 m³/h 7.4 cfm	315 l/min 18.9 m³/h 11.1 cfm
Speed (RPM)	1.270	1.400	1.600
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		
Stroke	40 mm		
Direction of rotation (from flywheel side)	Counter clockwise (left)		
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 (absolute) / 300 millibar - 4,35 psi		





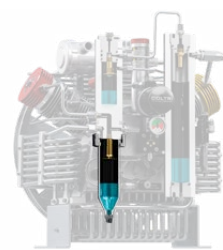
**Forced lubrication
with low pressure gear
pump**



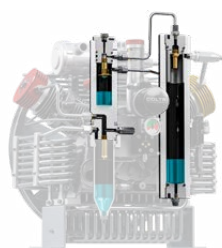
Suction filter: 10 µm



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



**Intermediate
condensate separator
after the second stage**



**High pressure final
condensate separator
double effect**



**Safety valves after
each stage of
compression**



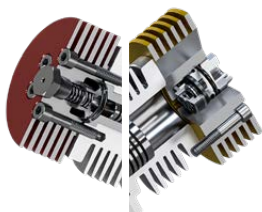
**Die-cast aluminium
cylinders with barrel
coating in nicasil**



**Forged aluminum
connecting rods**



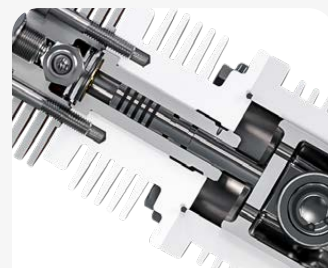
**Forged steel
crankshaft**



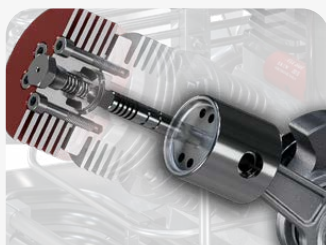
**Stainless steel second
and third stage valves**



**Roller Bearings for
intensive work load**



**Third stage in
tempered steel with 5
piston rings in special
cast iron**



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



CE certification

Standard equipment

Purification system Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge



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

¹ When using a filter cartridge without HOPCALITE CO CATALYST.
If a cartridge with CO removal is used, the process air capacity is reduced by about 20%.

Condensate separation system

- Interstage separator after 2nd stage, forged and anodized aluminum
- Double final separator for removal of oil/water condensate
- Final safety valve, mounted on the separator housing
- Pressure maintenance valve / non-return valve



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

* Measured at our facility using ASCO HORA 160 ANALYZER.

- Only with special filter cartridge with HOPCALITE CO CATALYST. and up to a maximum concentration of 25 ppm CO in intake air. The compressed clean breathing air then contains a maximum of 5 ppm CO.
- The level of CO₂ in the intake air must not exceed the maximum level of CO₂ as per EN 12021:2014.
- Reported values exceed standards:
 - ISO 8573-1 class 3 for particles
 - ISO 8573-1 class 1 for humidity
 - ISO 8573-1 class 1 for oil



Filling connection

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



Electronic pressure switch



Interstage pressure gauges



Compressor control and automatic condensate drain system



Filling hose

Optional

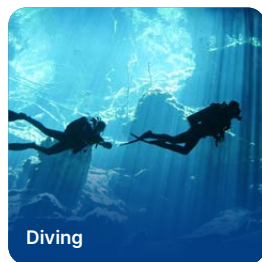


Presec. Filter control system

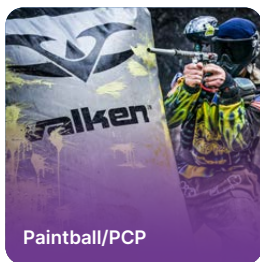


C-Monitor

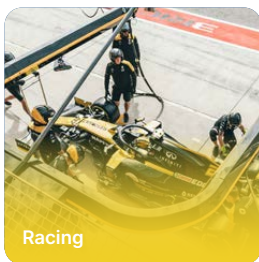
Application fields



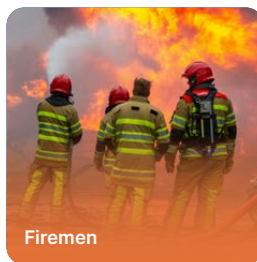
Diving



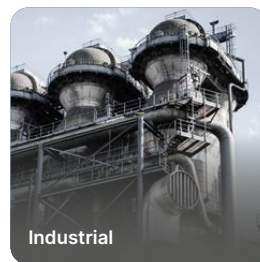
Paintball/PCP



Racing



Firemen



Industrial

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