Technical Data Sheet

COLTRI COMPRESSORS

PRIME LINE

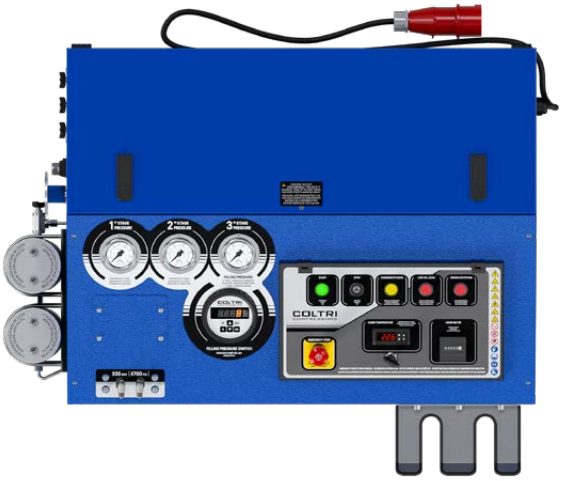
MARK III SILENT TPS

ELECTRIC

Contact

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.



Technical data

Type of gas	Breathing air EN 12021 - Nitrox 40% max O_2 - Helium - Nitrogen
Intake pressure	Atmospheric max 300 bar
Nominal pressure	250 bar / 330 bar / 360 bar
Working pressure	232 bar / 300 bar / 330 bar
Max working pressure	232 bar / 420 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	15°
Design	Open
Operating voltage, standard	400 V, 50 Hz
Other operating voltage	230 V, 50 Hz / 440 V, 60 Hz / 230 V, 60 Hz
Oil	Synthetic Coltri Oil ST 755
Oil change interval	1 year / 1.000 h
Frame	Steel - Colour blue RAL 9002 - Powder coating painting - Scratch proof

Compressor

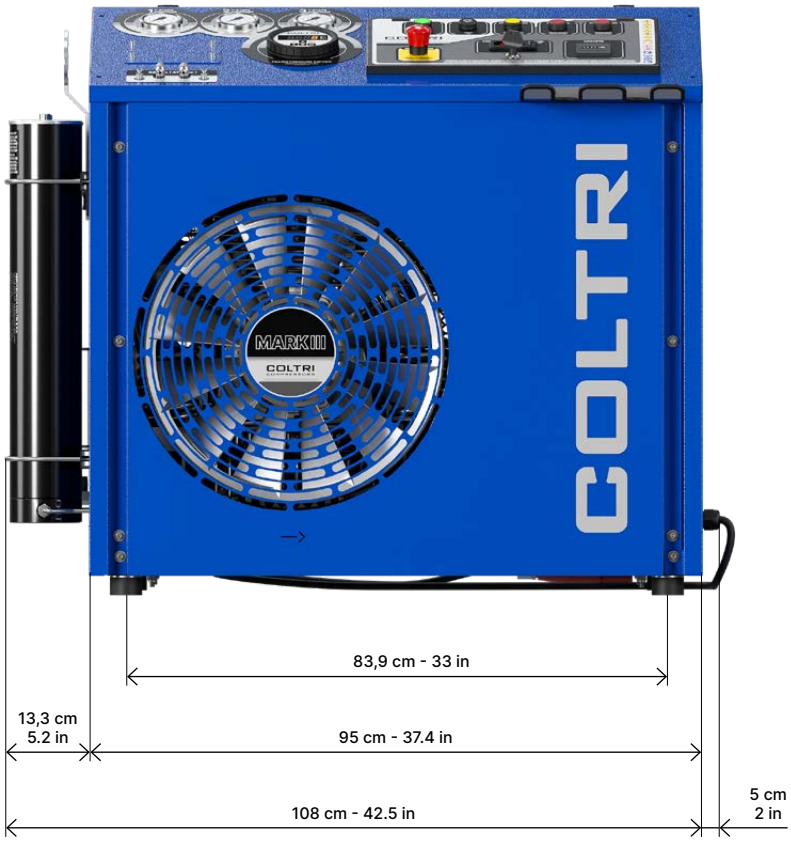
	210 EM	235 ET	315 ET	345 ET	380 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	235 l/min 12.6 m³/h 7.4 cfm	235 l/min 14.1 m³/h 8.3 cfm	315 l/min 18.9 m³/h 11.1 cfm	345 l/min 20.7 m³/h 12.2 cfm	380 l/min 22.8 m³/h 13.4 cfm
Purification System	Hyperfilter x 2				
Cooling air flow	1.240 m³/h	1.960 m³/h	2.400 m³/h	1.960 m³/h	2.180 m³/h
Weight[1]	181 kg - 299 lb		191 kg - 421 lb		
Dimensions (W x D x H)[1]	112 × 73 × 91 cm - 44.1 × 28.7 × 35.8 in				
Noise	LpA 72 dB				

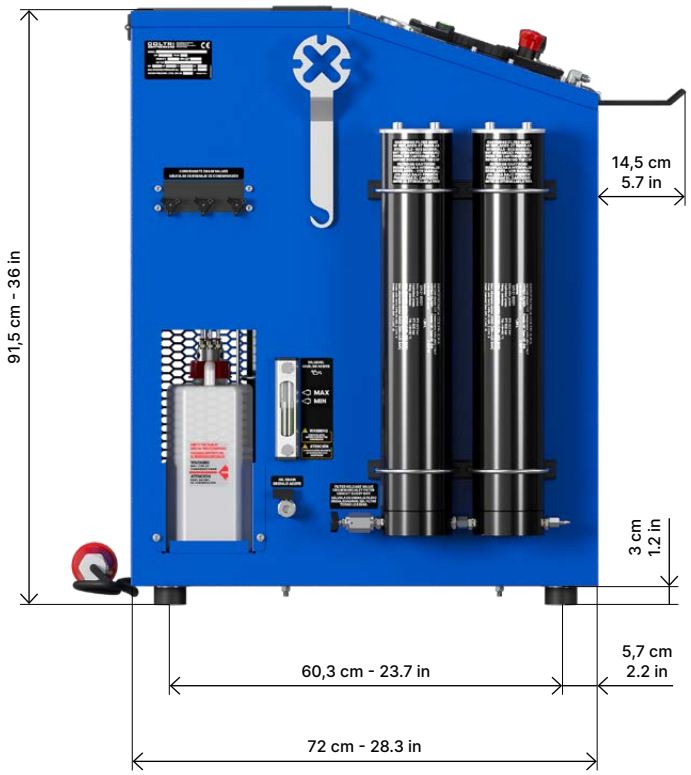
1 Standard model. Dimensions and weight may vary depending on accessories.

Electric motor

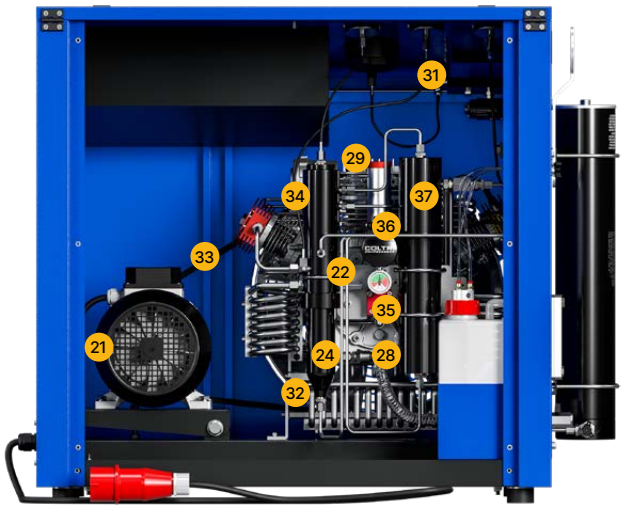
	210 EM	235 ET	315 ET	345 ET	380 ET
Power	4 kW - 5.5 Hp	4 kW - 5.5 Hp	5,5 kW - 7.5 Hp	7,5 kW - 10 Hp	7,5 kW - 10 Hp
Type	Single-phase el.	Three-phase el.			
Operating voltage/frequency Different voltage / frequency available on request.	220 V, 50 Hz	400 V, 50 Hz			
Rated current	25,2 A	16,8 A	12,6 A	16,8 A	
Speed (RPM)	2.850	2.840	2.850		
Protection class	IP55				

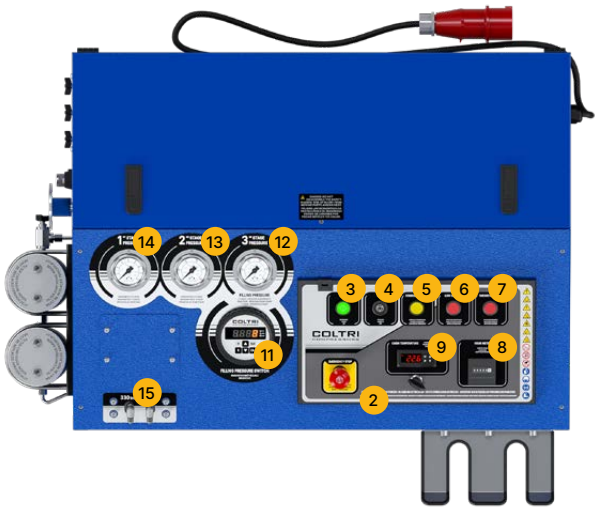
Dimensions

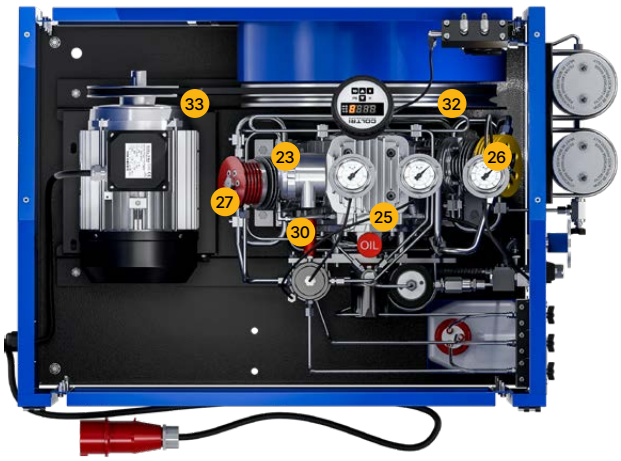

COLTRI
MARKIII
COLTRI
83,9 cm - 33 in
13,3 cm
5.2 in
95 cm - 37.4 in
108 cm - 42.5 in
5 cm
2 in


14,5 cm
5.7 in
91,5 cm - 36 in
3 cm
1.2 in
5,7 cm
2.2 in
60,3 cm - 23.7 in
72 cm - 28.3 in

Components

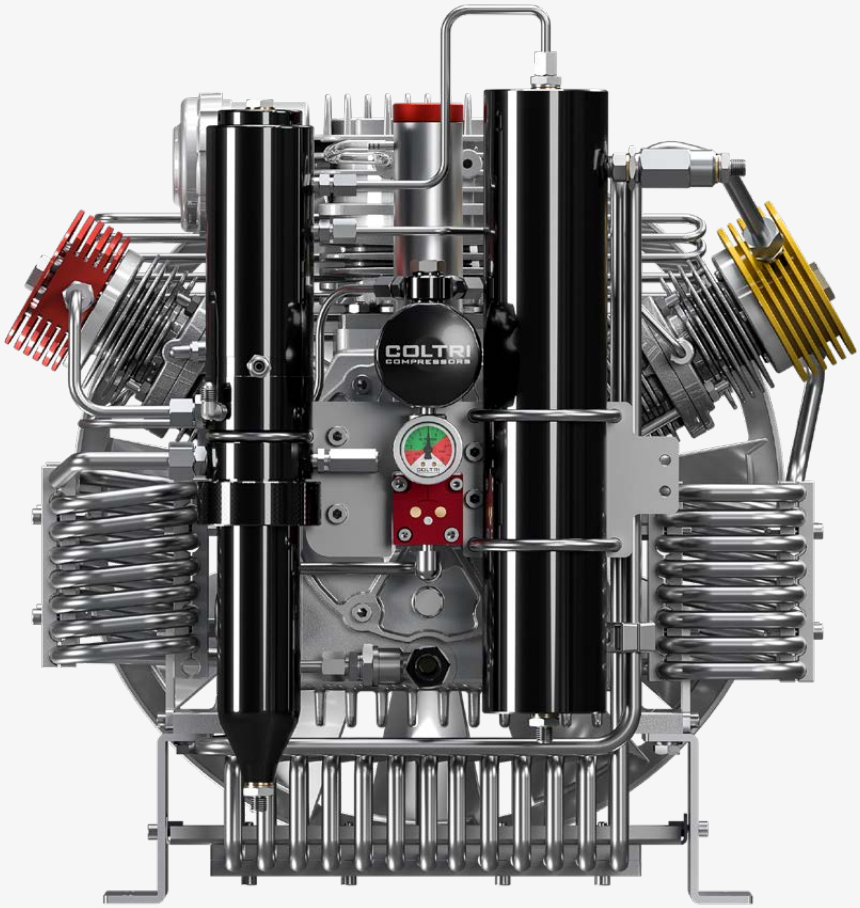






1. Frame
2. Control panel
3. ON pushbutton
4. Stop pushbutton
5. Condensate discharge pushbutton
6. Oil level warning light
7. Direction of rotation indicator light
8. Hour counter
9. Cabinet interior / cooling air temperature
10. Emergency pushbutton
11. Automatic shut off pressure switch
12. 3rd stage pressure gauge
13. 2nd stage pressure gauge
14. 1st stage pressure gauge
15. Refill hoses connection
16. Condensate discharge valves
17. Oil level
18. Oil discharge valves
19. Purification system
20. Condensate collection can
21. Electric motor
22. Pumping unit
23. Intake air filter
24. LP condensate separator
25. 1st stage
26. 2nd stage
27. 3rd stage
28. Monoblock crankcase
29. Oil filler plug
30. Safety valve
31. Pressure maintenance valve
32. Cooling fan
33. Belt
34. HP condensate separator
35. Oil pump
36. Oil filter
37. HP High Efficiency condensate separator

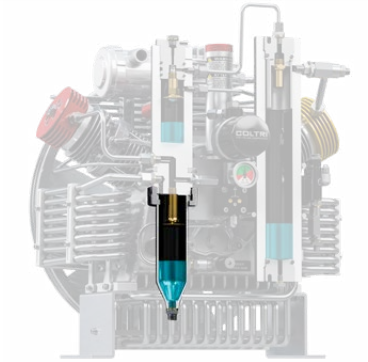
Pumping unit MCH 16 TPS



Forced lubrification with low pressure gear pump

Suction filter:
10 µ micron

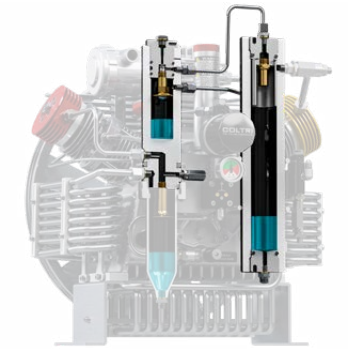
Pipes, fitting and nuts in stainless steel AISI 316



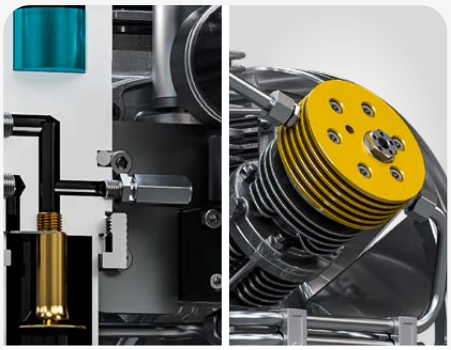
Intermediate condensate separator after the second stage

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

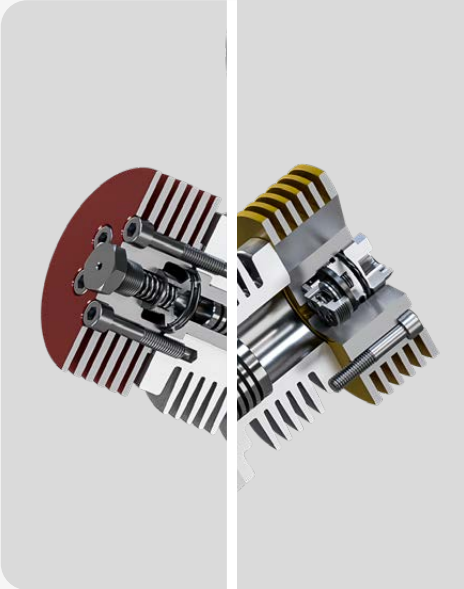


Safety valves after each stage of compression

Die-cast aluminium cylinders with barrel coating in nicasil

Forged aluminum connecting rods

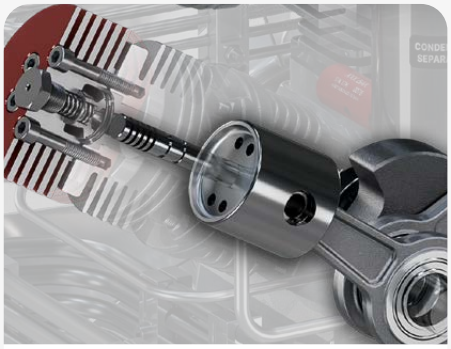
Forged steel crankshaft



Stainless steel second and third stage valves

Roller Bearings for intensive work

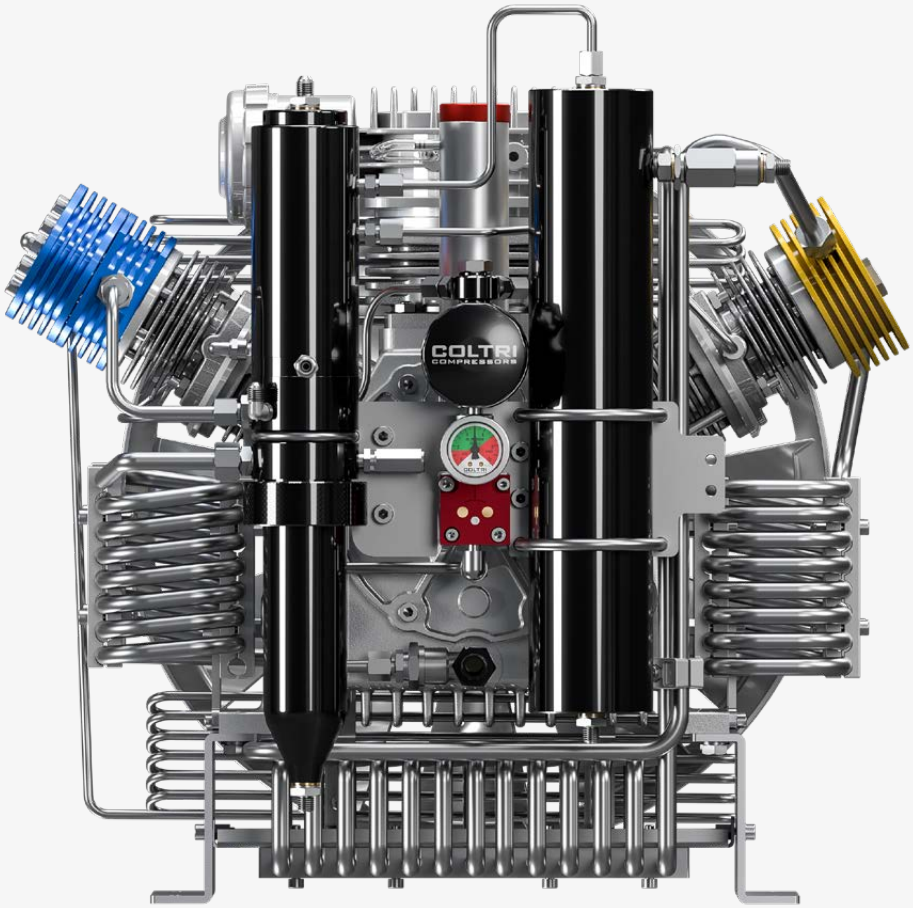
Third stage in tempered steel with 5 piston rings in special cast iron



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

CE certification

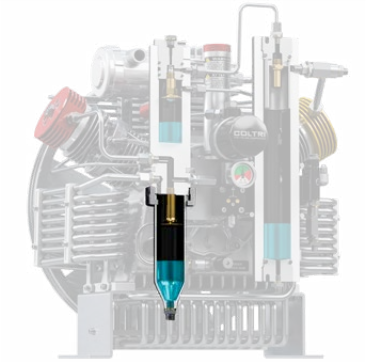
Pumping unit MCH 21 TPS



Forced lubrification with low pressure gear pump

Suction filter:
10 µ micron

Pipes, fitting and nuts in stainless steel AISI 316



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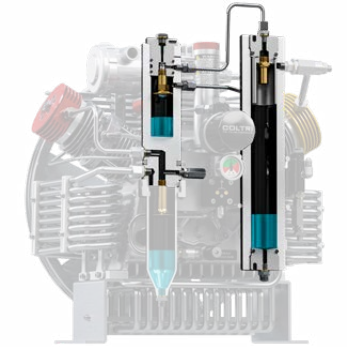
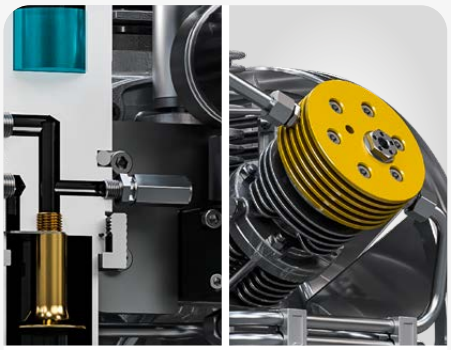
Discover more on Coltri Oil ST 755



High pressure final condensate separator double effect

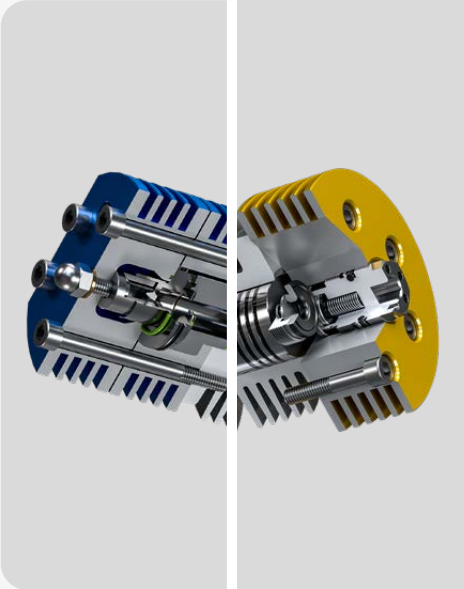


Safety valves after each stage of compression

Die-cast aluminium cylinders with barrel coating in nicasil

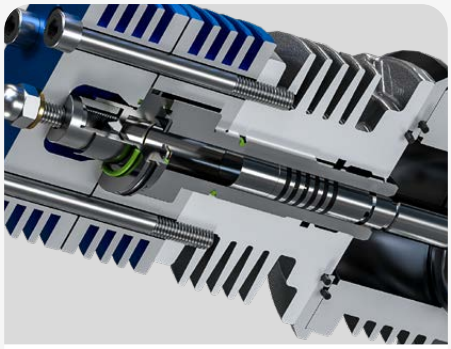
Forged aluminum connecting rods

Forged steel crankshaft



Stainless steel second and third stage valves

Roller Bearings for intensive work



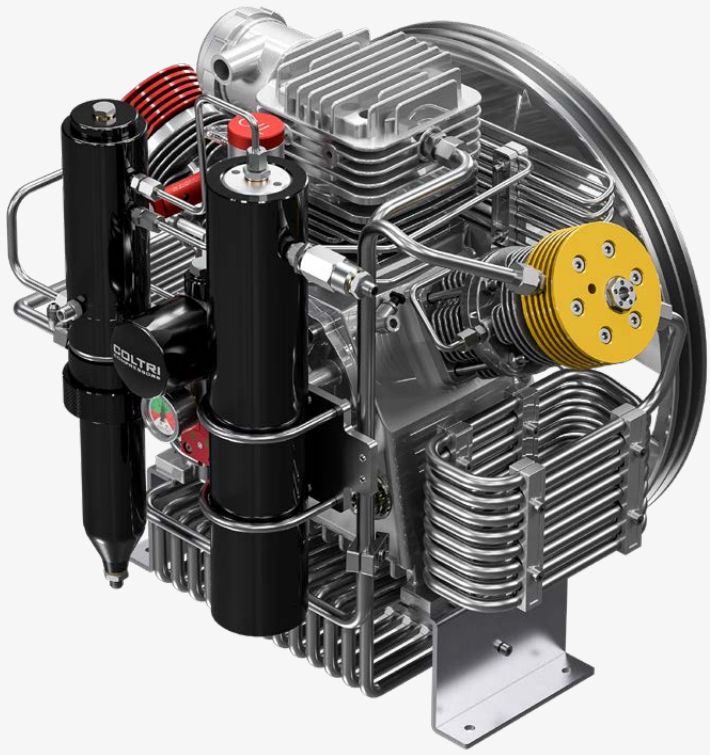
Third stage in tempered steel with 5 piston rings in special cast iron

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

CE certification

Technical data pumping unit MCH 16/21 TPS

	210 EM	235 ET	315 ET	345 ET	380 ET
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	235 l/min 12.6 m^3/h 7.4 cfm	235 l/min 14.1 m^3/h 8.3 cfm	315 l/min 18.9 m^3/h 11.1 cfm	345 l/min 20.7 m^3/h 12.2 cfm	380 l/min 22.8 m^3/h 13.4 cfm
Speed (RPM)	1.040	1.270	1.600	1.240	1.400
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)	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_a – 300 millibar				



Standard equipment

Purification system Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge

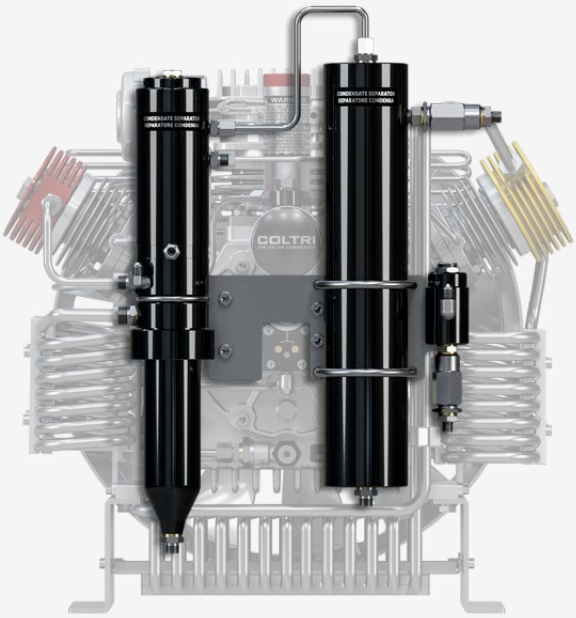
1. Hyperfilter body
2. Upper cap
3. O-Ring
4. Cartridge spring
5. Hyperfilter cartridge
6. Fitting
7. Lower cap
8. Stainless hook
9. Upper cap
10. Felt disc
11. Network Disc

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%.

Separator 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 (PN)	250 bar	330 bar
Technical Specifications	Filling valve with integrated ventilation, with connection for G 5/8" cylinders to EN 144-2 and 477 PN232	Filling valve with integrated 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

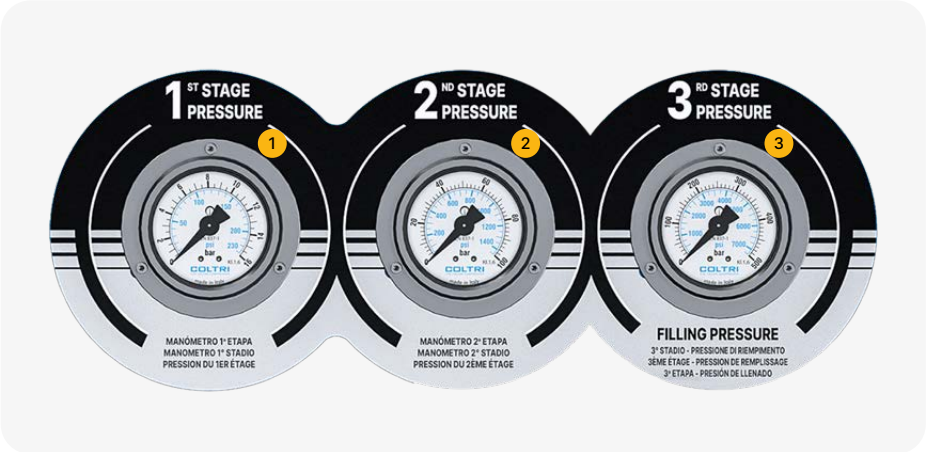
Electronic pressure switch

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.



2 1st stage pressure gauge

3 2nd stage pressure gauge

4 3rd stage pressure gauge

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

Plugs available according to electric motor

230 V single-phase electric motor

6h/200 - 250V~

50÷60 Hz

32 A

2P+⏚

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/380 - 415V~

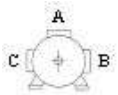
50÷60 Hz

32 A

3P+⏚

Data sheet single-phase electric motor 4 kW

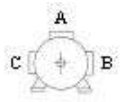
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **4**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		125413			
2	**Modello /** *Motor type*		MM1 100LC/2			
3	**Descrizione** / *Description*		Single-phase motor with starting capacitor 4kW 2 Poles 220V 50Hz			
4	**Carcassa motore** / *Framesize*		100L			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		4			[kW]
8	**Fattore di servizio** / *Service factor*		1.0			
9	**Tipo di servizio** / *Duty type*		S1			
10	**Tensione** / *Rated voltage*		220			[V]
11	**Frequenza** / *Rated frequency*		50			[Hz]
12	**Corrente nominale** / *Rated current*		25,2			[A]
13	**Velocità nominale** / *Rated speed*		2850			[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,92			
15	**Coppia nominale motore**/ *Rated motor torque*		13,4			[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		3,9			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		1,9			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*		CAVO/ *CABLE*			
23	**Peso /** Weight		18			[kg]
24	**Cuscinetti** /bearings	Drive end	6206			
		Non drive end	6203			

Note/remarks:
Motore con condensatore permanente 80μF e disgiuntore elettromeccanico e condensatore di spunto 160μF.
Motor with 80μF permanent capacitor and centrifugal switch plus 160μF starting capacitor.
Targa con logo Coltri Compressors.

Data sheet three-phase electric motor 4 kW

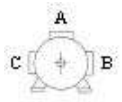
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **4**	**Poli/** Poles **2**
		Data 07/09/2015	Rev. 1

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		124341			
2	**Modello /** *Motor type*		MT1 100LB/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 4kW 2 Poles 230/400V 50Hz			
4	**Carcassa motore** / *Framesize*		100L			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		4	4	4,8	[kW]
8	**Fattore di servizio** / *Service factor*		1.0			
9	**Tipo di servizio** / *Duty type*		S3-75%			
10	**Tensione** / *Rated voltage*		230/400	230/400	440-480 Y	[V]
11	**Frequenza** / *Rated frequency*		50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*		16,8/9,7	16,8/9,7	9,7	[A]
13	**Velocità nominale** / *Rated speed*		2840	3410	3410	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,85	0,85	0,85	
15	**Coppia nominale motore**/ *Rated motor torque*		13,5	11,2	13,4	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		5,5			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*		IP54			
21	**Posizione scatola morsettiera** (motore con piedini) *Terminal box position (motor with feet)* 		A			
22	**Terminali potenza** / *Power leads terminal*		M5			
23	**Peso /** Weight		22			[kg]
24	**Cuscinetti** /bearings	Drive end	6206			
		Non drive end	6206			

Note/remarks:
Targa con logo Coltri Compressors.

Data sheet three-phase electric motor 5,5 kW

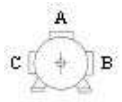
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **5,5**	**Poli/** Poles **2**
		Data 24/06/2015	Rev. 0

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		124421			
2	**Modello /** *Motor type*		MT1 112MB/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 5,5kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*		112M			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		5,5	5,5	6,5	[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	Δ 440-480	[V]
11	**Frequenza** / *Rated frequency*		50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*		12,6/7,3	12,6/7,3	12,6	[A]
13	**Velocità nominale** / *Rated speed*		2850	3420	3420	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,86	0,86	0,86	
15	**Coppia nominale motore**/ *Rated motor torque*		18,4	15,4	18,2	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		7,6			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		3,1			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*		M5			
23	**Peso /** Weight		28			[kg]
24	**Cuscinetti** /bearings	Drive end	6206			
		Non drive end	6206			

Note/remarks:
Targa con logo Soga.

Data sheet three-phase electric motor 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*		150777			
2	**Modello /** *Motor type*		MT1 112MC/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 7,5kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*		112M			
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*		16,8/9,7	16,8/9,7	16,8	[A]
13	**Velocità nominale** / *Rated speed*		2850	3420	3420	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,86	0,86	0,86	
15	**Coppia nominale motore**/ *Rated motor torque*		25,1	21	25,1	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		8,0			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		4,0			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*		M5			
23	**Peso /** Weight		33			[kg]
24	**Cuscinetti** /bearings	Drive end	6206			
		Non drive end	6206			

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 the SAM Multigas Analysis System.

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.

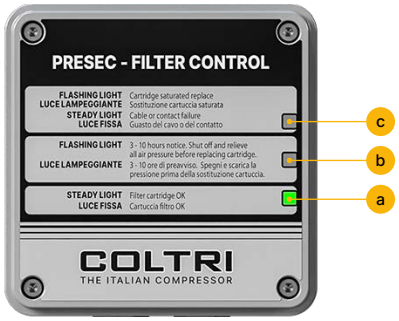
Wiring diagram for connection

PRESEC SENSOR

COD. SC000550

Filter saturation values

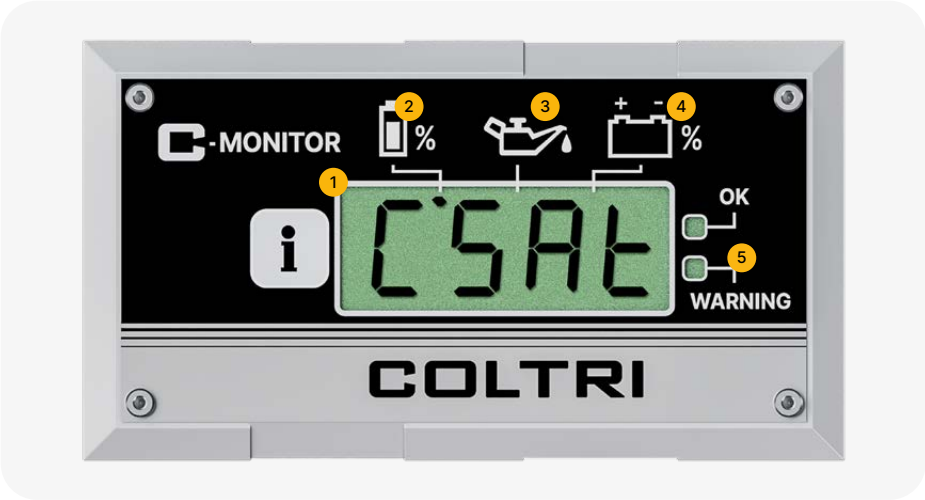
Light	Humidity (mg/m³)
Green	15 - 20
Yellow	20 - 25
Red	> 25



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.



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

COD. SC001200

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)

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 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

Filling collection optional

DRV DIN 232 bar with gauge

COD. DRV232/MANOM

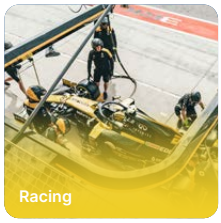
DRV DIN 300 bar with gauge

COD. DRV300/MANOM

Hoses

Width	COD.
1,5 m / 4.9 ft	SC000461-1500-AIR
2,0 m / 6.5 ft	SC000461-2000-AIR
3,0 m / 9.8 ft	SC000461-3000-AIR
4,0 m / 13.1 ft	SC000461-4000-AIR
5,0 m / 16.4 ft	SC000461-5000-AIR
8,0 m / 26.2 ft	SC000461-8000-AIR
10,0 m / 32.8 ft	SC000461-10000-AIR

Application fields



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