Technical Data Sheet

COLTRI COMPRESSORS

PRIME LINE

# ERGO TPS

## ELECTRIC

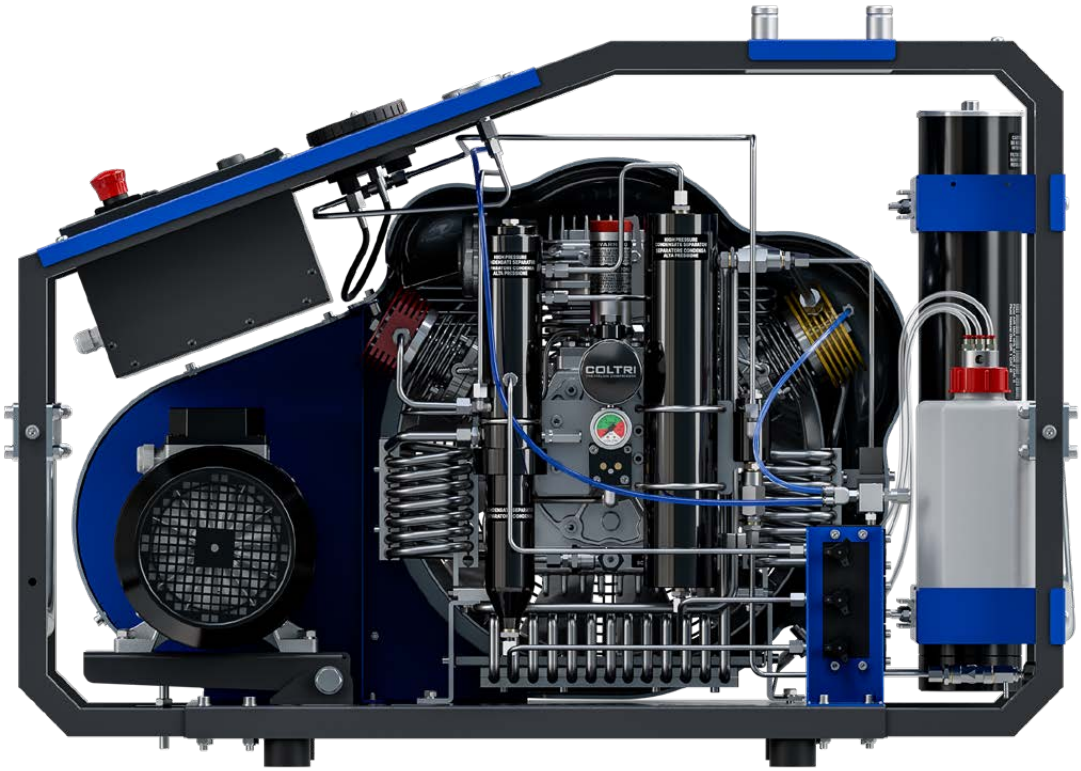

AUTHORISED RESELLER

NORTHERN DIVER

COMMERCIAL SUITS & EQUIPMENT

# 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.




# 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 RAL 5002 -<br>powder coating painting - scratch proof |

# Compressor

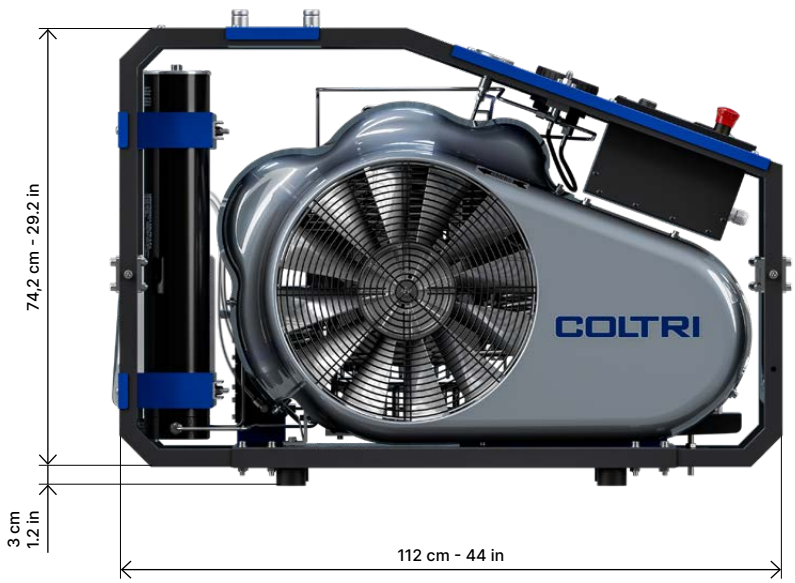
| | 270 EM | 235 ET | 315 ET | 345 ET | 380 ET |
|---|---|---|---|---|---|
| **Charging rate**<br>Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature. | 270 l/min<br>16,2 m³/h<br>9.5 cfm | 235 l/min<br>14,1 m³/h<br>8.3 cfm | 315 l/min<br>18,9 m³/h<br>11. cfm | 345 l/min<br>20,7 m³/h<br>12.2 cfm | 380 l/min<br>22,8 m³/h<br>13.4 cfm |
| **Purification System** | Hyperfilter x 2 | | | | |
| **Cooling air flow** | 2.400 m³/h | 1.960 m³/h | 2.400 m³/h | 1.960 m³/h | 2.180 m³/h |
| **Weight**[1] | 184 kg - 406 lb | 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 | | | | |
| **Noise** | LpA 72 dB | | | | |

1 Modello standard. Le dimensioni possono variare a seconda degli accessori.

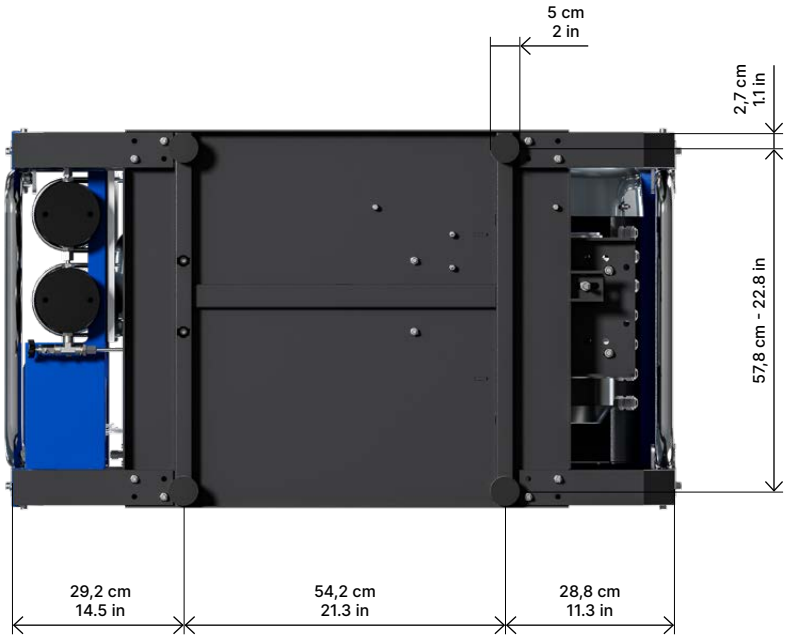
# Electric motor

| | 270 EM | 235 ET | 315 ET | 345 ET | 380 ET |
|---|---|---|---|---|---|
| **Power** | 5,5 kW - 7.5 Hp | 4 kW - 5.5 Hp | 5,5 kW - 7.5 Hp | 7,5 kW - 10 Hp | |
| **Type** | El. monofase | Elettrico trifase | | | |
| **Operating voltage/frequency**<br>Different voltage / frequency available on request. | 230 V, 50 Hz | 400 V, 50 Hz | | | |
| **Rated current** | 28,5 A | 16,8 A | 12,6 A | 16,8 A | |
| **Speed (RPM)** | 2.890 | 2.840 | 2.850 | | |
| **Protection class** | IP55 | | | | |

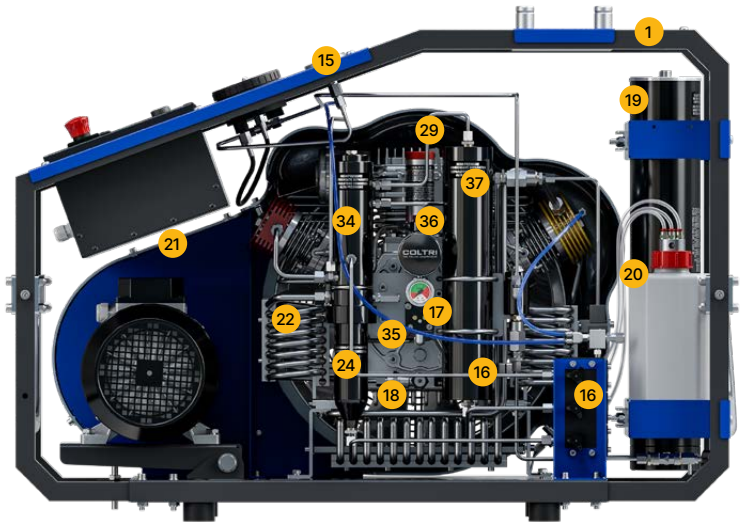
# Dimensions

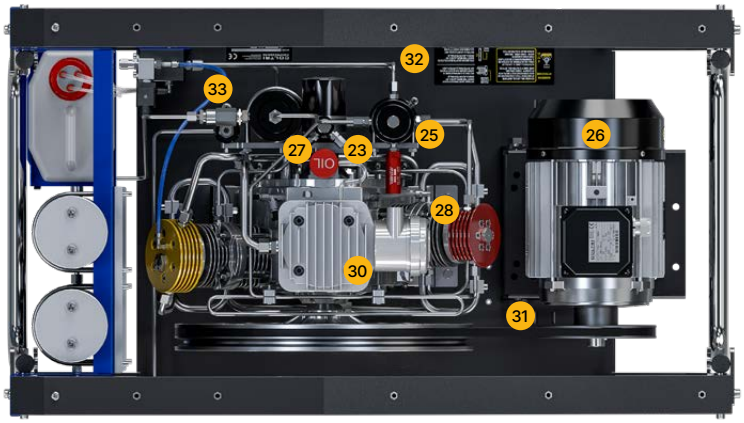

74,2 cm - 29.2 in
3 cm
1.2 in
112 cm - 44 in
COLTRI


63 cm - 24.8 in


5 cm
2 in
2,7 cm
1.1 in
57,8 cm - 22.8 in
29,2 cm
14.5 in
54,2 cm
21.3 in
28,8 cm
11.3 in

# Components

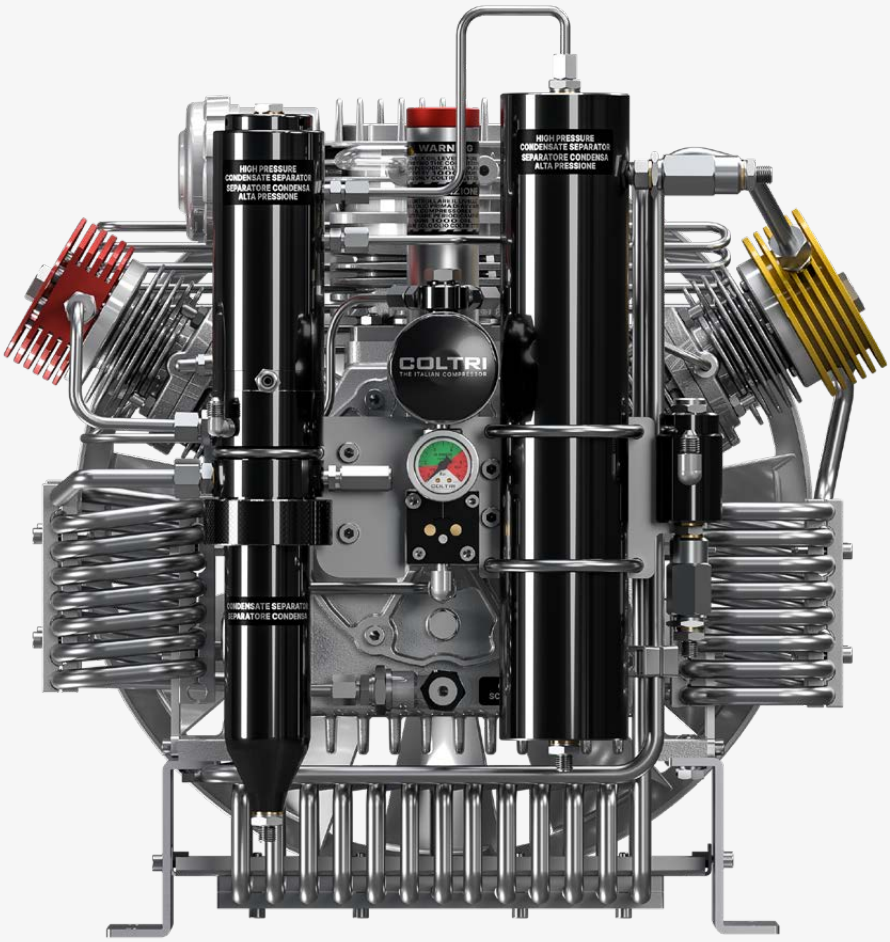




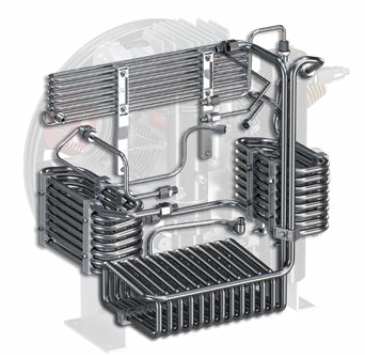
1. Frame
2. Control panel
3. ON pushbutton
4. Stop pushbutton
5. Condensate discharge pushbutton
6. Oil level warning light
7. Direction of rotation indicator light
8. Hour counter
9. Cabinet interior / cooling air temperature
10. Emergency pushbutton
11. Automatic shut off pressure switch
12. 3rd stage 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

# Compressor block GP 315 TPS

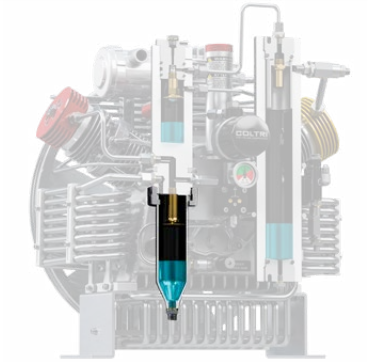



Forced lubrification with low pressure gear pump

Suction filter:
10 µ micron

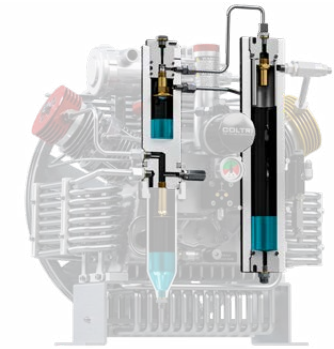


Pipes, fitting and nuts in stainless steel AISI 316

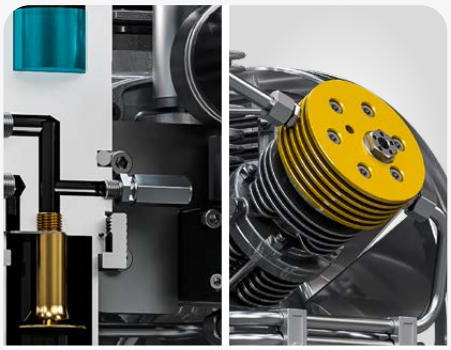


Intermediate condensate separator after the second stage


Synthetic Oil Coltri ST 755 with special formulation for HP compressors



High pressure final condensate separator double effect

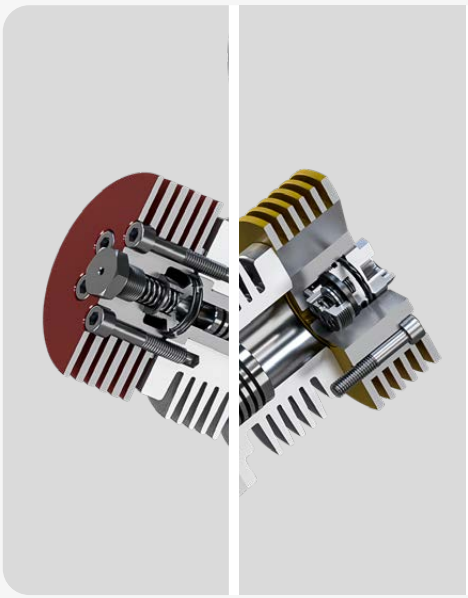


Safety valves after each stage of compression

Die-cast aluminium cylinders with barrel coating in nicasil

Forged aluminum connecting rods

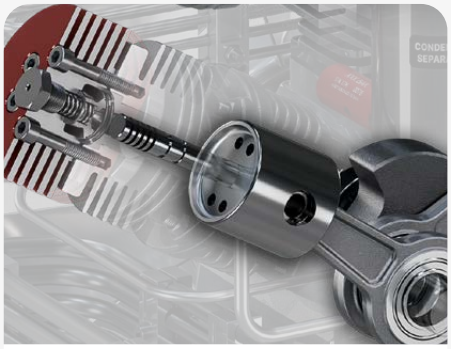
Forged steel crankshaft



Stainless steel second and third stage valves

Roller Bearings for intensive work

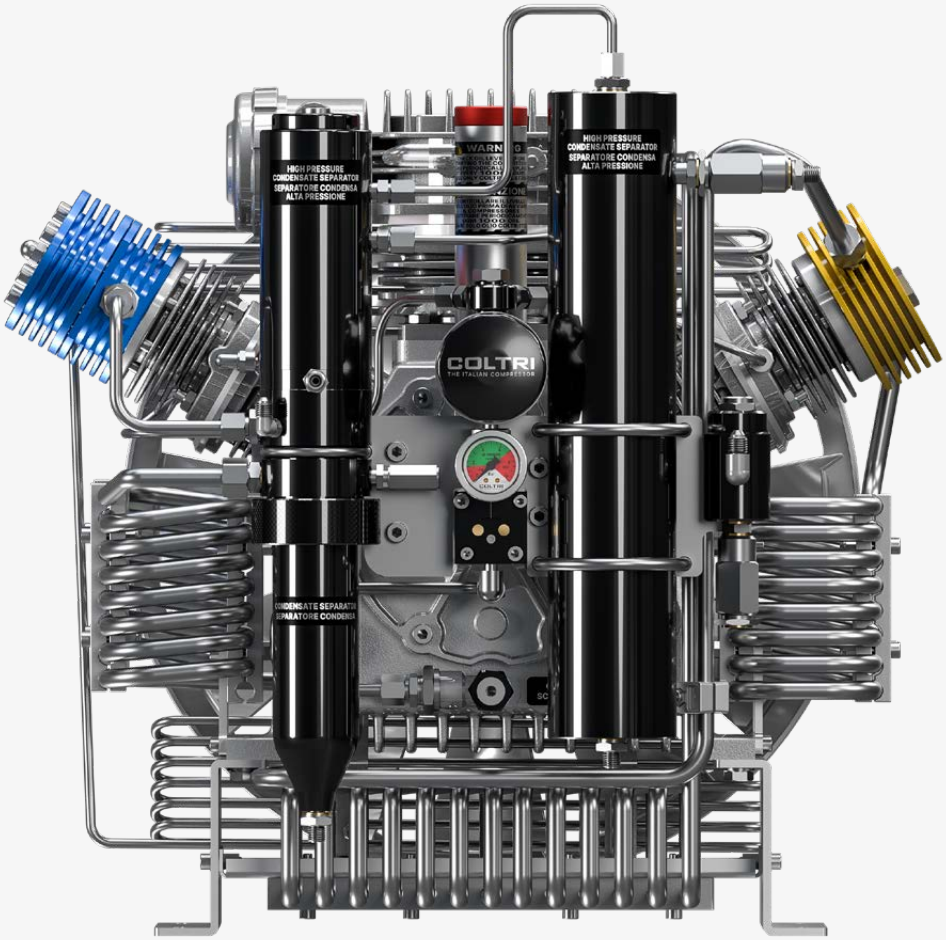
Third stage in tempered steel with 5 piston rings in special cast iron



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


CE certification

# Compressor block GP 380

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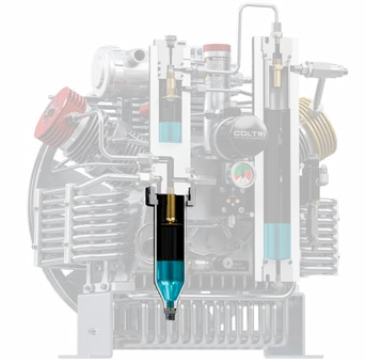

Intermediate condensate separator after the second stage


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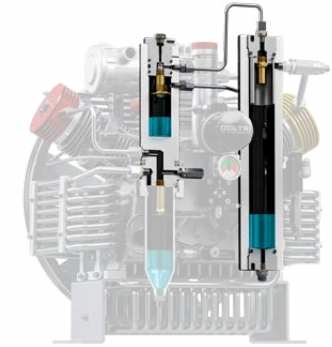
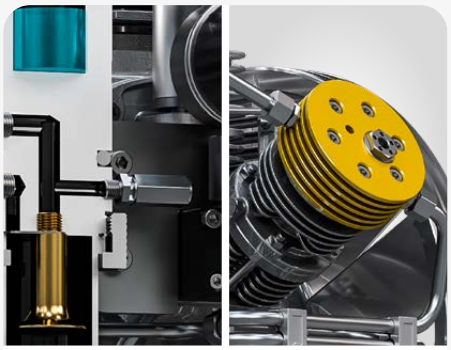


High pressure final condensate separator double effect

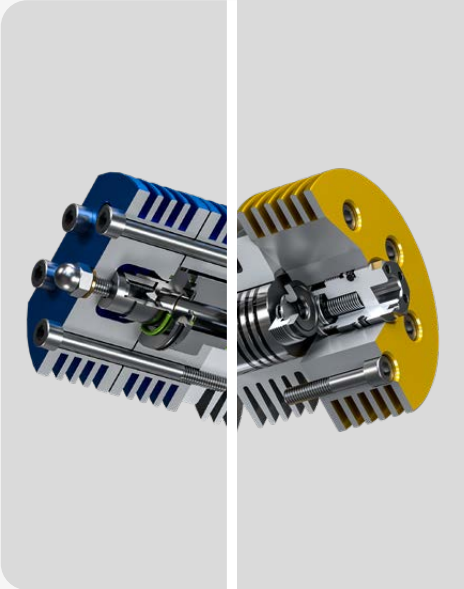


Safety valves after each stage of compression

Die-cast aluminium cylinders with barrel coating in nicasil

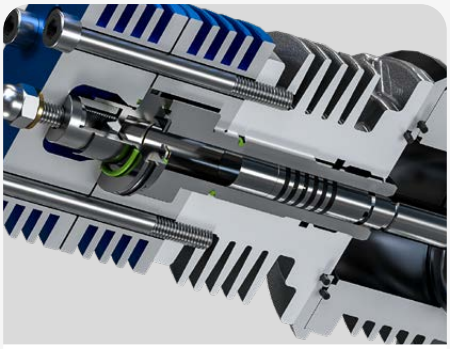
Forged aluminum connecting rods

Forged steel crankshaft



Stainless steel second and third stage valves

Roller Bearings for intensive work



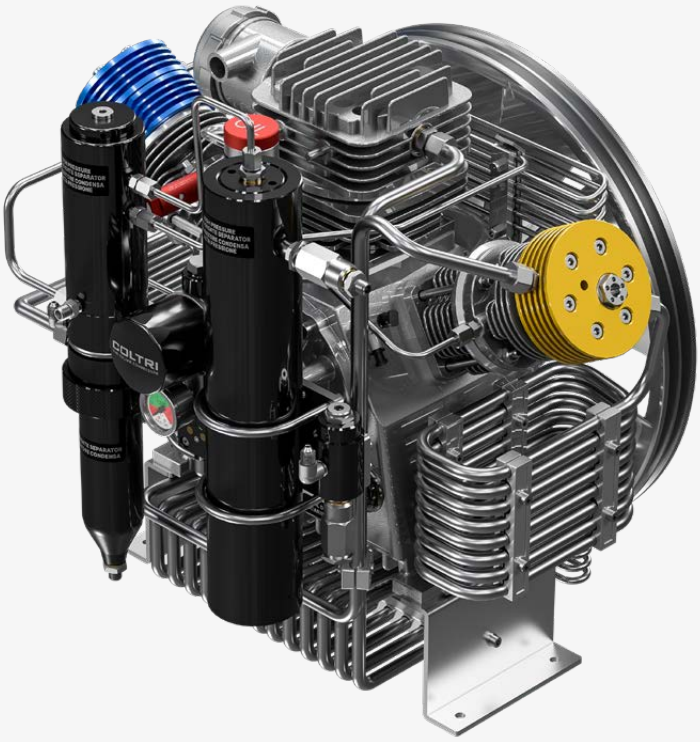
Third stage in tempered steel with 5 piston rings in special cast iron

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


CE certification

# Technical data Compressor block

| | GP 315 TPS | | | GP 380 TPS | |
|---|---|---|---|---|---|
| | 270 EM | 235 ET | 315 ET | 345 ET | 380 ET |
| **Charging rate**<br>Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature. | 270 l/min<br>16,2 m³/h<br>9.5 cfm | 235 l/min<br>14,1 m³/h<br>8.3 cfm | 315 l/min<br>18,9 m³/h<br>11. cfm | 345 l/min<br>20,7 m³/h<br>12.2 cfm | 380 l/min<br>22,8 m³/h<br>13.4 cfm |
| **Speed (RPM)** | 1.240 | 1.050 | 1.250 | | |
| **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 | | | | |
| **Oil sump capacity** | 1,8 liters | | | | |
| **Max intake pressure** | 1,3 $bar_a$ – 300 millibar | | | | |



# Standard equipment

## Purification system Hyperfilter

DOUBLE HYPERFILTER regenerable or disposable cartridge

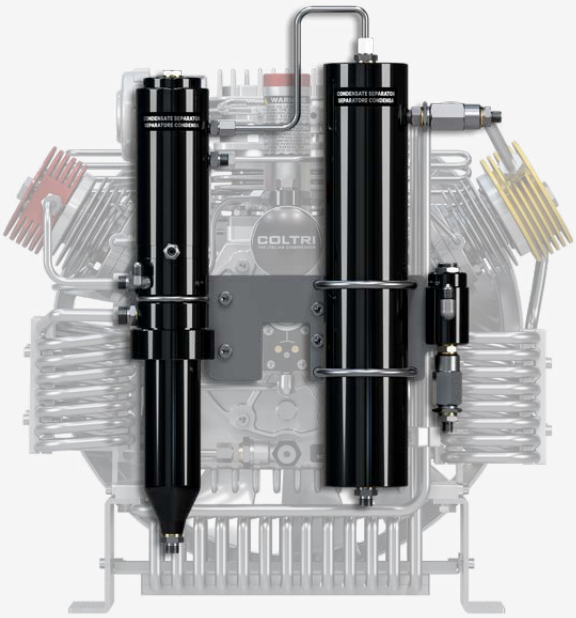

1. Hyperfilter body
2. Upper cap
3. O-Ring
4. Cartridge spring
5. Hyperfilter cartridge
6. Fitting
7. Lower cap
8. Stainless hook
9. Upper cap
10. Felt disc
11. Network Disc


| 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

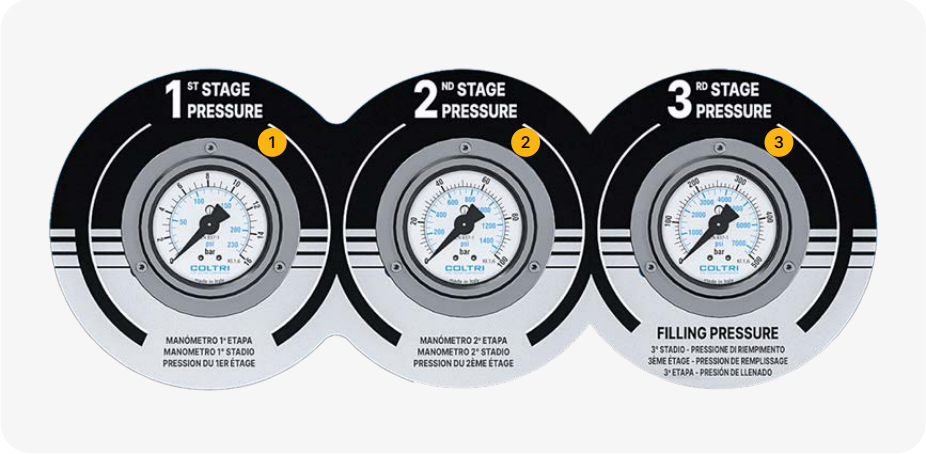
# Electronic pressure switch

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

# 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~

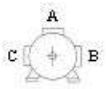
50÷60 Hz

32 A

3P+⏚

# Data sheet single-phase electric motor 5.5 kW

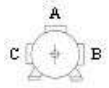
| soga® | **SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet* | **Potenza/** *Power* (kW) **5,5** | **Poli/** Poles **2** |
|---|---|---|---|
| | | Data 16/05/2018 | Rev. 0 |

| No | Descrizione/*Description* | | Dati/Data | | | *U.d.m.* |
|---|---|---|---|---|---|---|
| 1 | **Codice Soga** / *ref.code* | | 167343 | | | |
| 2 | **Modello /** *Motor type* | | MME1 112MA/2 | | | |
| 3 | **Descrizione** / *Description* | | Single-phase motor with starting capacitor<br>5,5kW 2 Poles 230V 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 | | | [kW] |
| 8 | **Fattore di servizio** / *Service factor* | | 1.0 | | | |
| 9 | **Tipo di servizio** / *Duty type* | | S1 | | | |
| 10 | **Tensione** / *Rated voltage* | | 230 | | | [V] |
| 11 | **Frequenza** / *Rated frequency* | | 50 | | | [Hz] |
| 12 | **Corrente nominale** / *Rated current* | | 28,5 | | | [A] |
| 13 | **Velocità nominale** / *Rated speed* | | 2890 | | | [$min^{-1}$] |
| 14 | **Fattore di potenza** / *Power factor* | | 0,98 | | | |
| 15 | **Coppia nominale motore**/ *Rated motor torque* | | 18,2 | | | [Nm] |
| 17 | **Corrente avviamento / Corrente nominale** *Starting current / Rated current* | | 5,6 | | | Isp/In |
| 18 | **Coppia avviamento / Coppia nominale** *Starting torque/Rated torque* | | 1,6 | | | 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 | | 31 | | | [kg] |
| 24 | **Cuscinetti** /bearings | Drive end | 6206 | | | |
| | | Non drive end | 6206 | | | |

**Note/remarks:**
Motore con due condensatori permanenti in parallelo da 50μF e disgiuntore elettronico con condensatore di spunto da 150μF.
*Motor with two 50μF permanent capacitors connected in parallel and electronic switch with 150μF starting capacitor.*
Targa con logo Coltri Compressors.

# Data sheet three-phase electric motor 4 kW

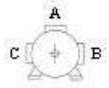
| soga® | **SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet* | **Potenza/** *Power* (kW) **4** | **Poli/** Poles **2** |
|---|---|---|---|
| | | Data 07/09/2015 | Rev. 1 |

| 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.

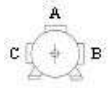
# Data sheet three-phase electric motor 5,5 kW

| soga® | **SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet* | | | **Potenza/** *Power* (kW) **5,5** Data 24/06/2015 | **Poli/** Poles **2** 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** Data 25/06/2015 | **Poli/** Poles **2** 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 | | | |
| | **Cuscinetti** /bearings — Non drive end | 6206 | | | |

**Note/remarks:**
Targa con logo Coltri Compressors.

# Optional

## Presec. Sistema di controllo del filtro

**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.

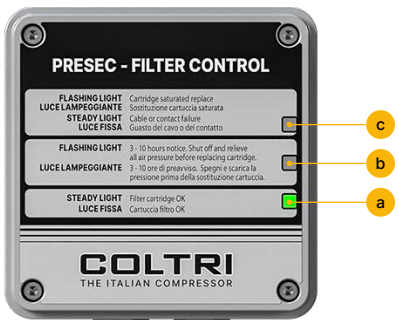
While the yellow light is pulsing (b), the steady green light (a) will still be on because the filter cartridge will not be fully saturated. If no LED lights up, it means that the PRESEC lacks power or that the electrical system is faulty.


**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 (○,●). 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 the function and after two 2 seconds the related data.


COD. SC001200

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

# 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 |