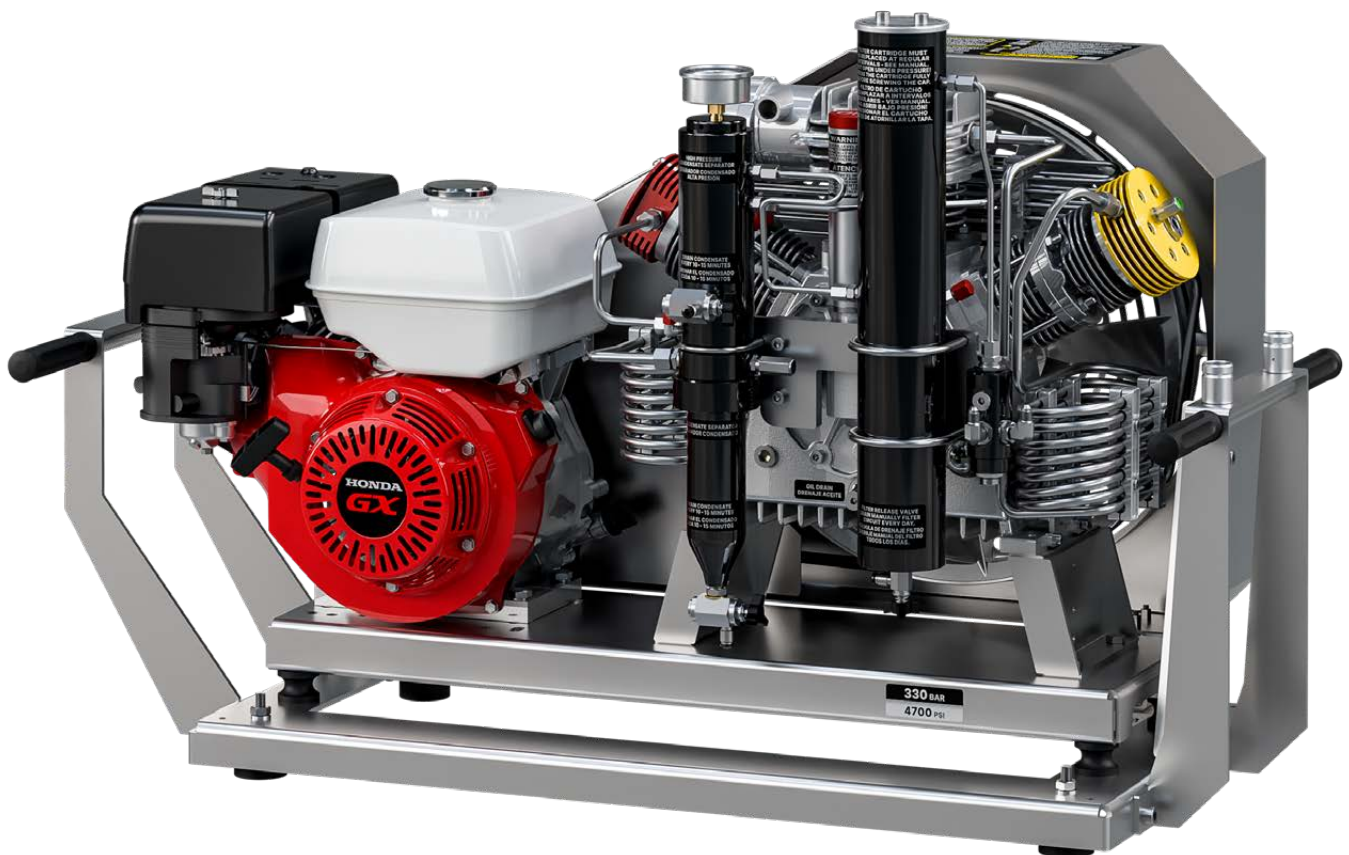# Technical Data Sheet

COLTRI®
COMPRESSORS

EFFICIENT LINE
APAC 270 SH
PETROL

Contact

Unstoppable, like your ambitions.

The stainless steel frame of the **APAC 270 SH** provides exceptional durability and superior corrosion resistance, even in the most demanding environments. It ensures high operational efficiency with a powerful pumping unit powered by a Honda gasoline engine. It features two high-pressure hose connections (from 232 to 330 bar) and a Maxifilter filtration system with a condensate separation system. Optional features include the C-Monitor, digital hour counter, and remote charging panels.
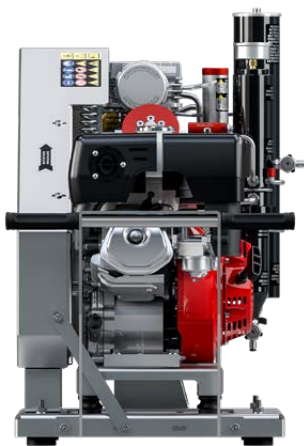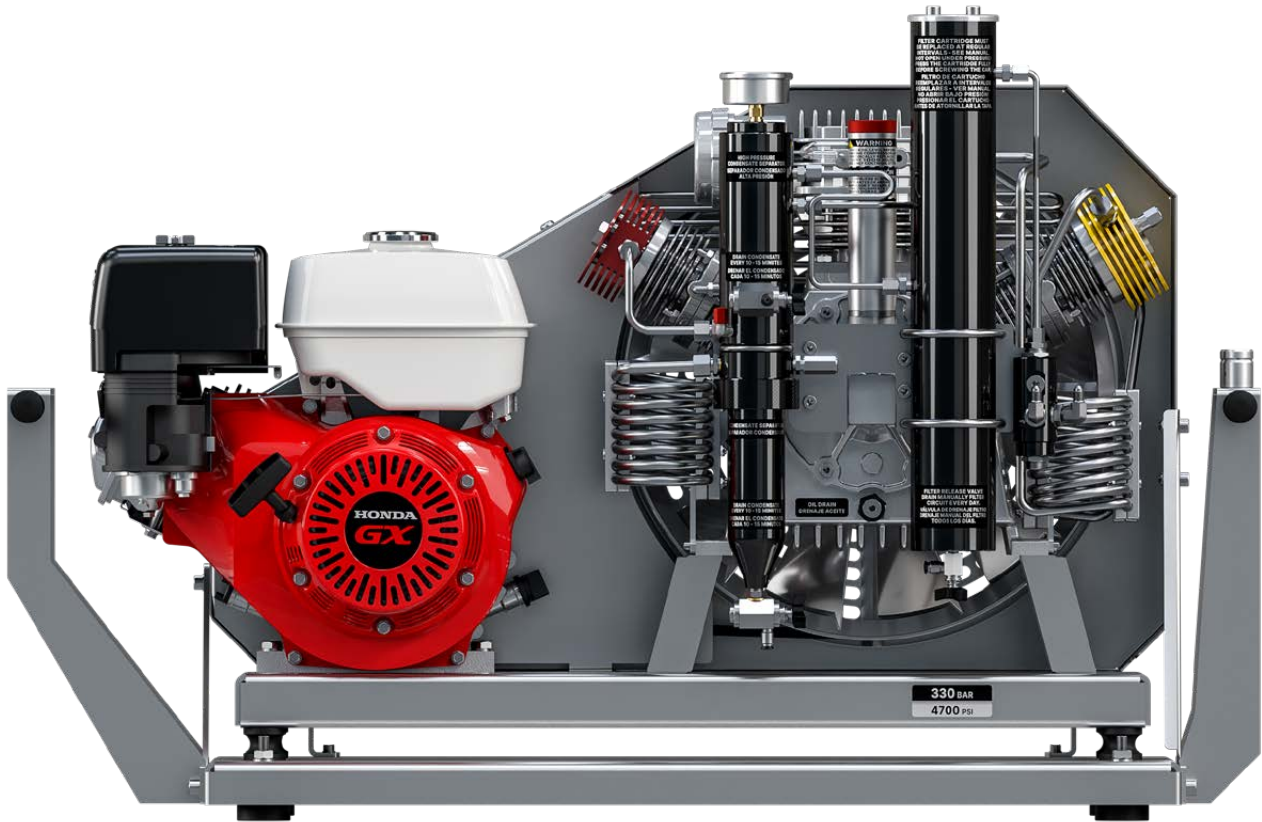
Technical data

Type of gas	Breathing air EN 12021 - Nitrox 40% max O_2 - Helium - Nitrogen
Intake pressure	Atmospheric max 300 mbar
Nominal pressure	250 bar / 330 bar / 360 bar
Working pressure	232 bar / 300 bar / 330 bar
Max working pressure	420 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	6°
Design	Fully protective cage
Oil	Synthetic Coltri Oil ST 755
Oil change interval	1 year / 1.000 h
Frame	Stainless steel - Powder coating painting - Scratch proof

Compressor

	APAC 270 SH
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	270 l/min 16.2 m³/h 9.5 cfm
Purification System	Maxifilter
Cooling air flow	1.440 m³/h
Weight[1]	124 kg - 273 lb
Dimensions (W x D x H)[1]	117 × 46 × 75,1 cm - 46 × 18.1 × 29.6 in
Noise	LpA 85,6 dB

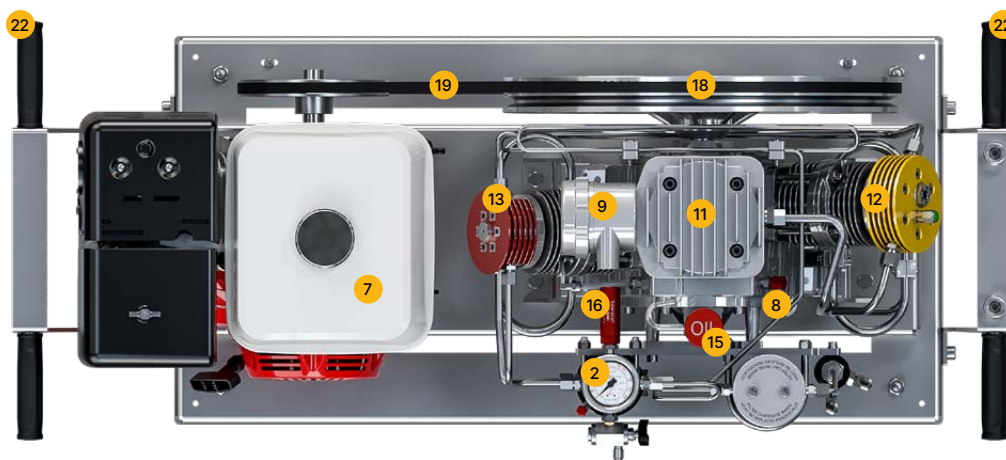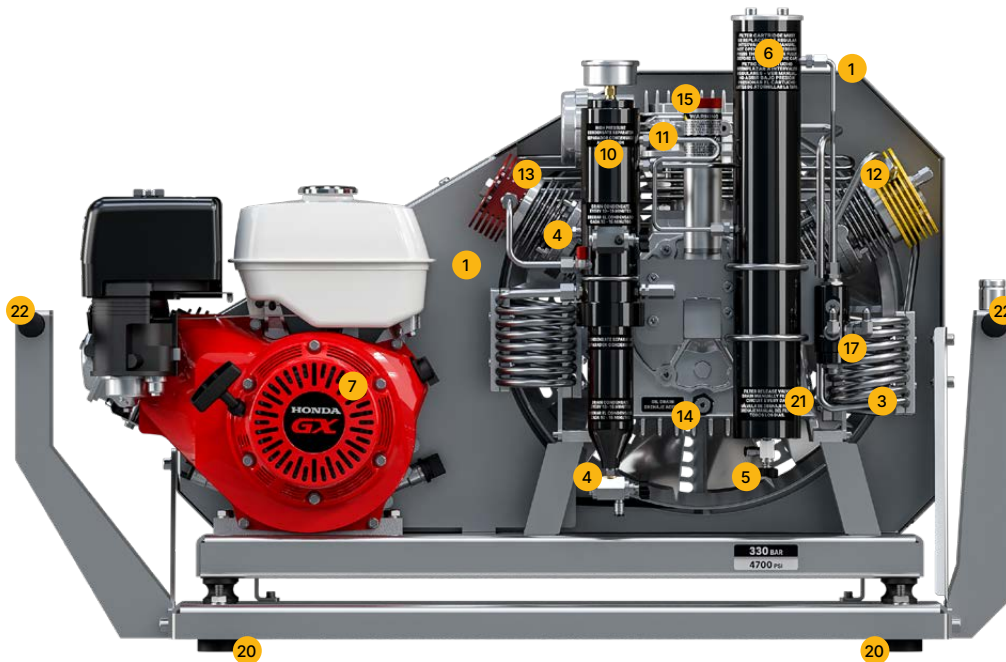1 Standard model. Dimensions and weight may vary depending on accessories.

Motor

	APAC 270 SH
Power	6,3 kW - 8.4 Hp
Type	Petrol HONDA GX 270
Speed (RPM)	3.600

Apac 270 SH

Dimensions

75,1 cm - 29.6 in

80 cm - 31.5 in

117 cm - 46 in

37 cm - 14.6 in

46 cm - 18.1 in

34,5 cm - 13.6 in

34,5 cm - 13.6 in

62,8 cm - 24.7 in

68,3 cm - 26.9 in
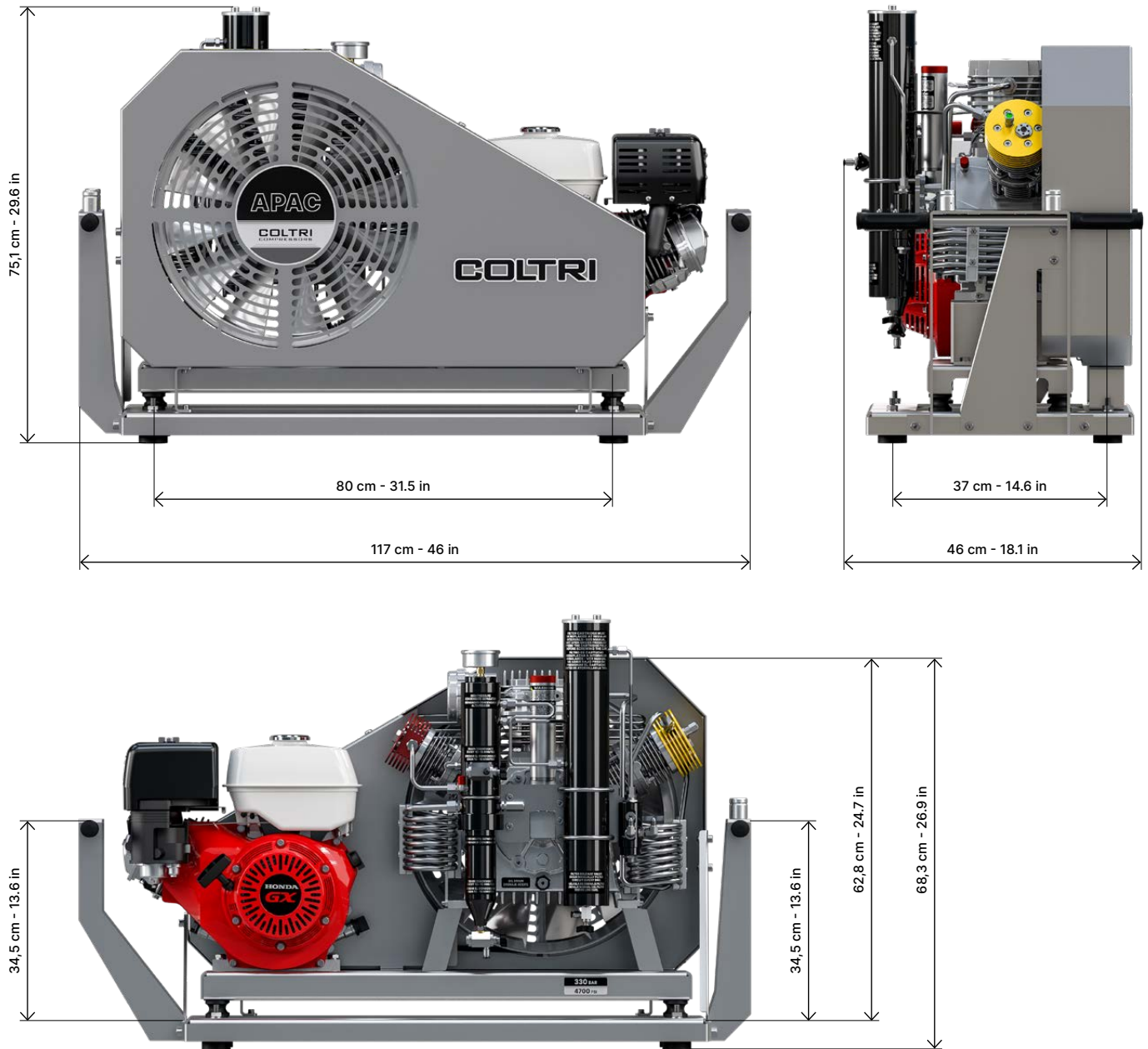
Components

|					
1	Frame	9	Intake air filter	17	Pressure maintenance valve
2	Pressure gauge	10	Condensate separator	18	Cooling fan
3	Refill hoses connection	11	1st stage	19	Belt
4	Condensate discharge valves	12	2nd stage	20	Anti-vibration device
5	Oil discharge valves	13	3rd stage	21	Oil level
6	Purifier filter	14	Monoblock crankcase	22	Carrying handles
7	Internal combustion engine	15	Oil filler plug		
8	Compressor	16	Safety valve		

Pumping unit MCH 16
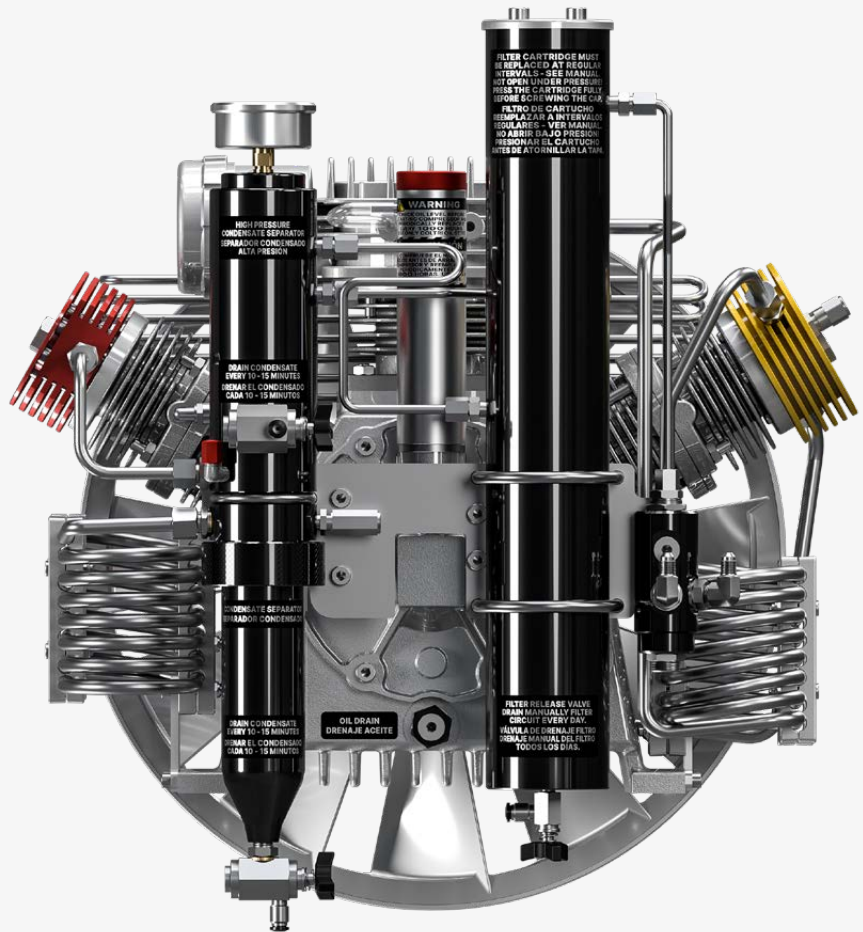
Splash lubrification with conrod pin immersed in oil
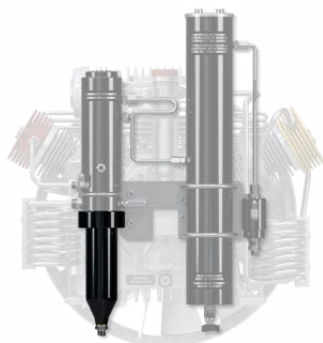
Apac 270 SH

**Suction filter:
10 m**

Pipes, fitting and nuts in stainless steel AISI 316
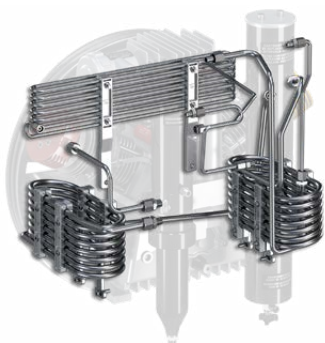
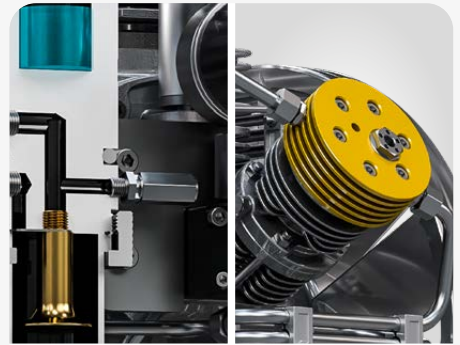**Intermediate condensate separator after the second stage**

Synthetic Oil Coltri ST 755 with special formulation for HP compressors
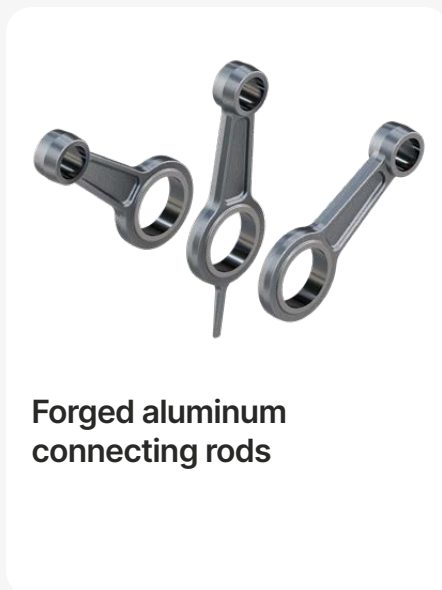

Discover more on
Coltri Oil ST 755

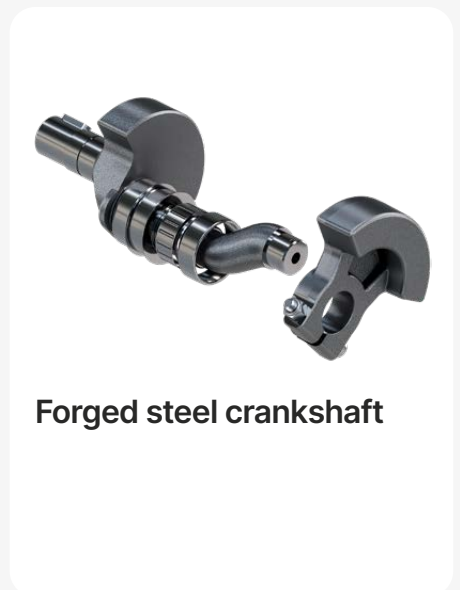**High pressure final condensate separator**

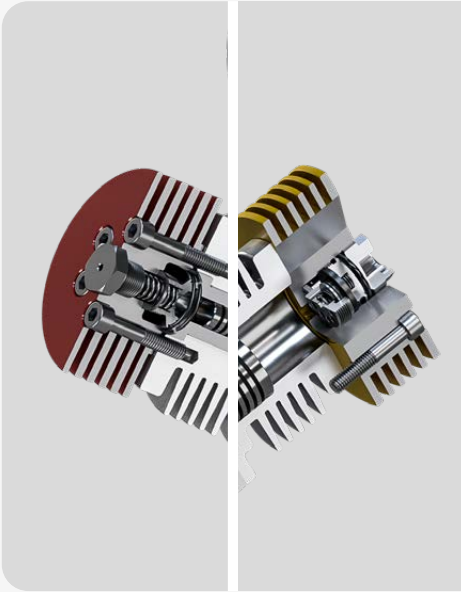**Safety valves after each stage of compression**

Cilindros de aluminio
Die-cast aluminium
fundido a presión con
cylinders with barrel
revestimiento de nicasil
coating in nicasil
en el cilindro

Forged aluminum connecting rods

Forged steel crankshaft
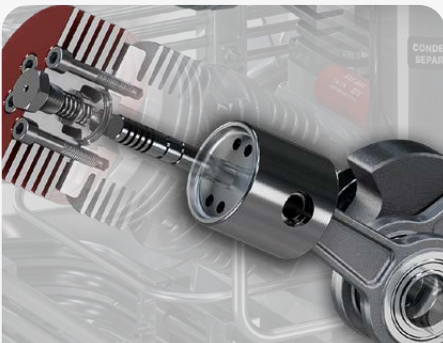
Apac 270 SH

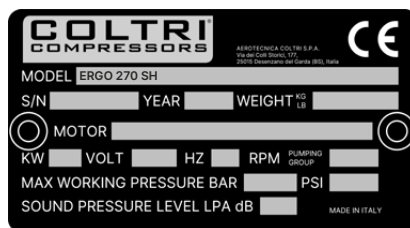## Stainless steel second and third stage valves

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
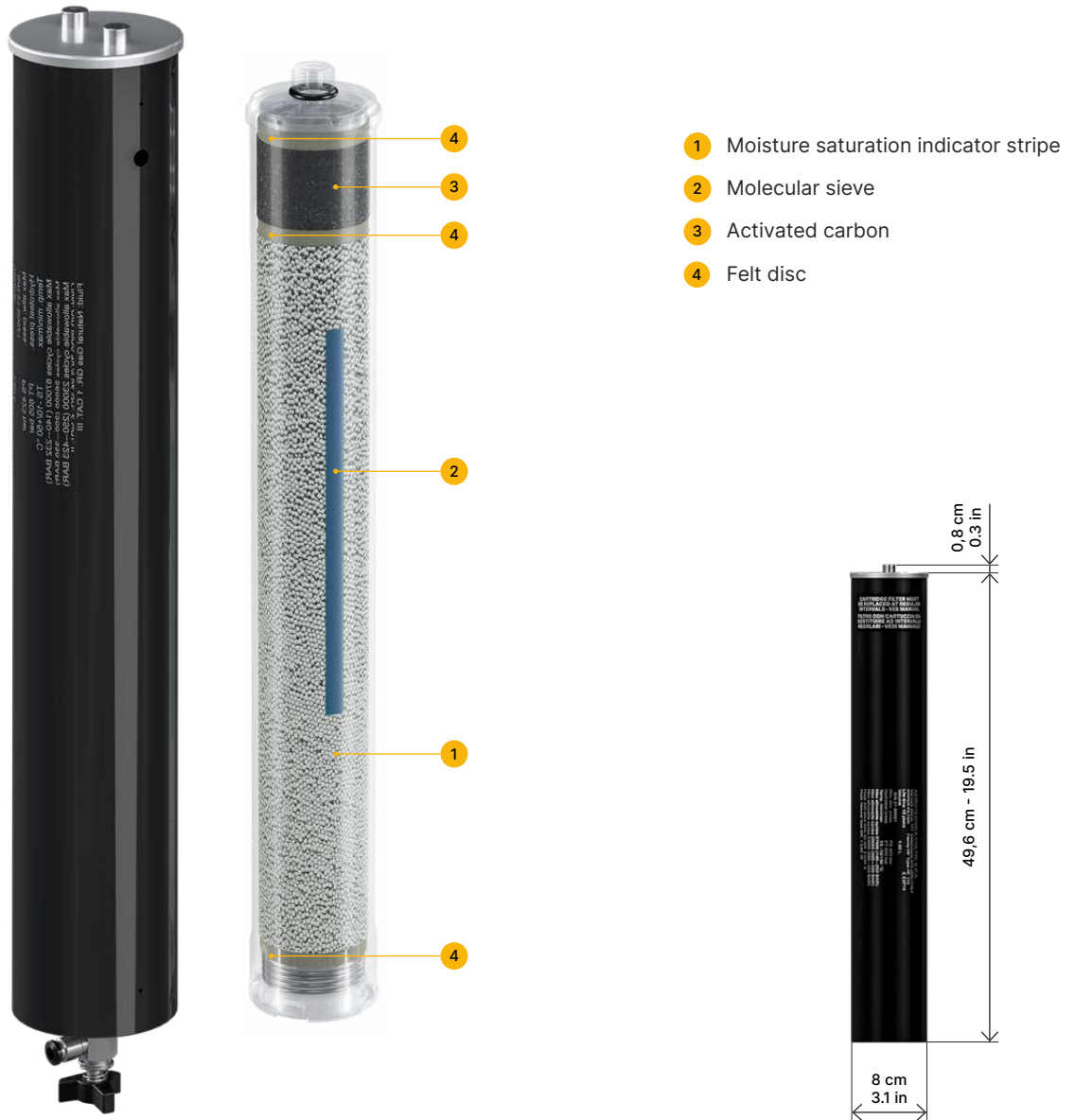
Technical data pumping unit MCH 16

	APAC 270 SH
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	270 l/min 16.2 m³/h 9.5 cfm
Speed (RPM)	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
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
Oil sump capacity	1,8 liters
Max intake pressure	1,3 bar$_a$ – 300 millibar
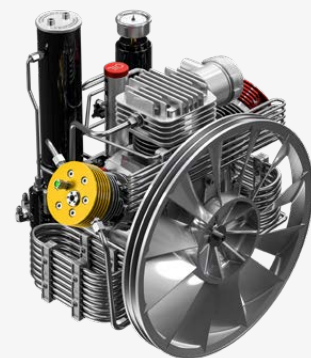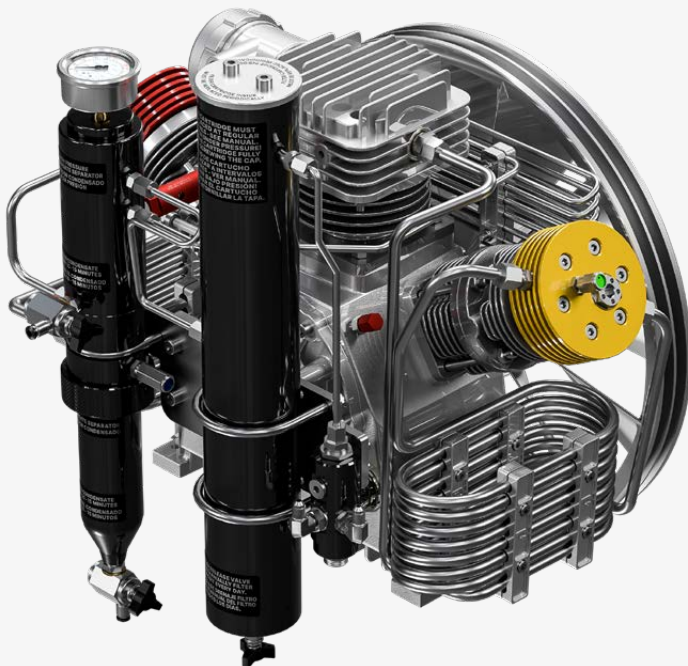
Standard equipment

Purification system Maxifilter

MAXIFILTER polypropylene cartridge repackable or disposable

1. Moisture saturation indicator stripe
2. Molecular sieve
3. Activated carbon
4. Felt disc

0,8 cm
0.3 in

49,6 cm – 19.5 in

8 cm
3.1 in

Purification system	Maxifilter
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]	890 m³

1 When using a cartridge with CO-removal, the processable air capacity is reduced by ca. 20%.

Separator system

- Interstage separator after 2nd stage ,stainless steel AISI 316.
- Final separator for the removal of oil/water condensate.
- Final safety valve, fitted to separator housing.
- Pressure maintaining/non return valve, fitted to filter bracket.
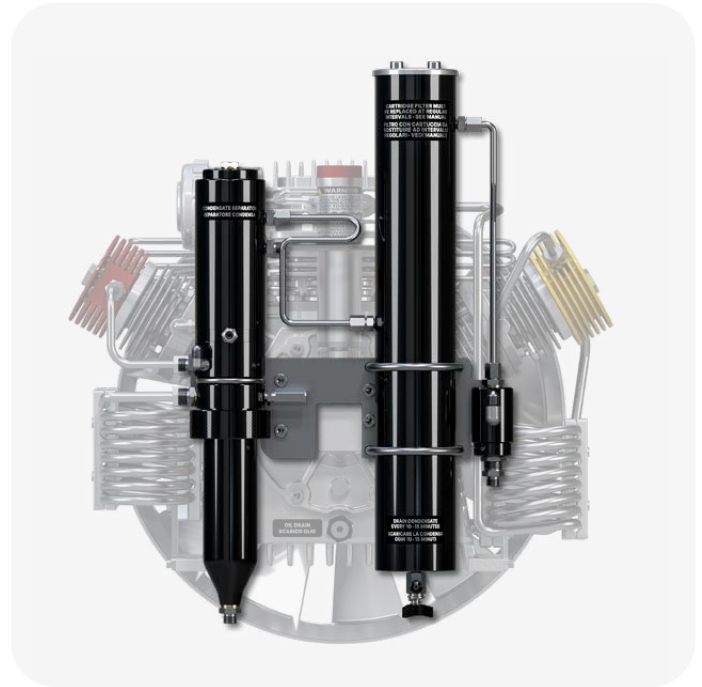
Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H_2O	25 mg/m³	≤ 10 mg/m³
CO	5 ppm(v)	≤ 4
CO_2	500 ppm(v)	≤ 500
Oil	0,5 mg/m³	≤ 0,5 mg/m³

* 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

Carrying handles

Convenient handles for easy transport of the compressor.

Optional

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.
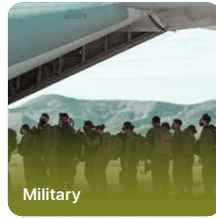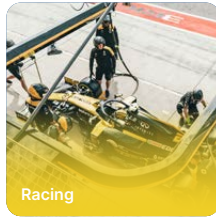

COD. SC001200

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

Digital hour meter

COD. 13-04-0210

Application fields

Diving	Paintball/PCP	Racing	Military	Firemen	Industrial

Aerotecnica Coltri S.p.A.

Via dei Colli Storici, 177
25015 Desenzano del Garda - Brescia - Italy

Tel.   +39 030 9910301
        +39 030 9910297

info@coltri.com

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

ENVIRONMENTAL SYSTEM CERTIFICATION
DNV
ISO 14001

DT-TDS-APAC270SH-25-V1

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