

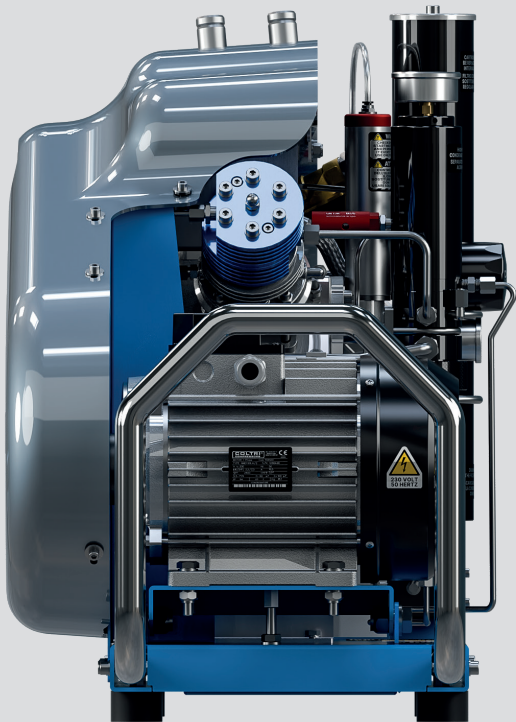
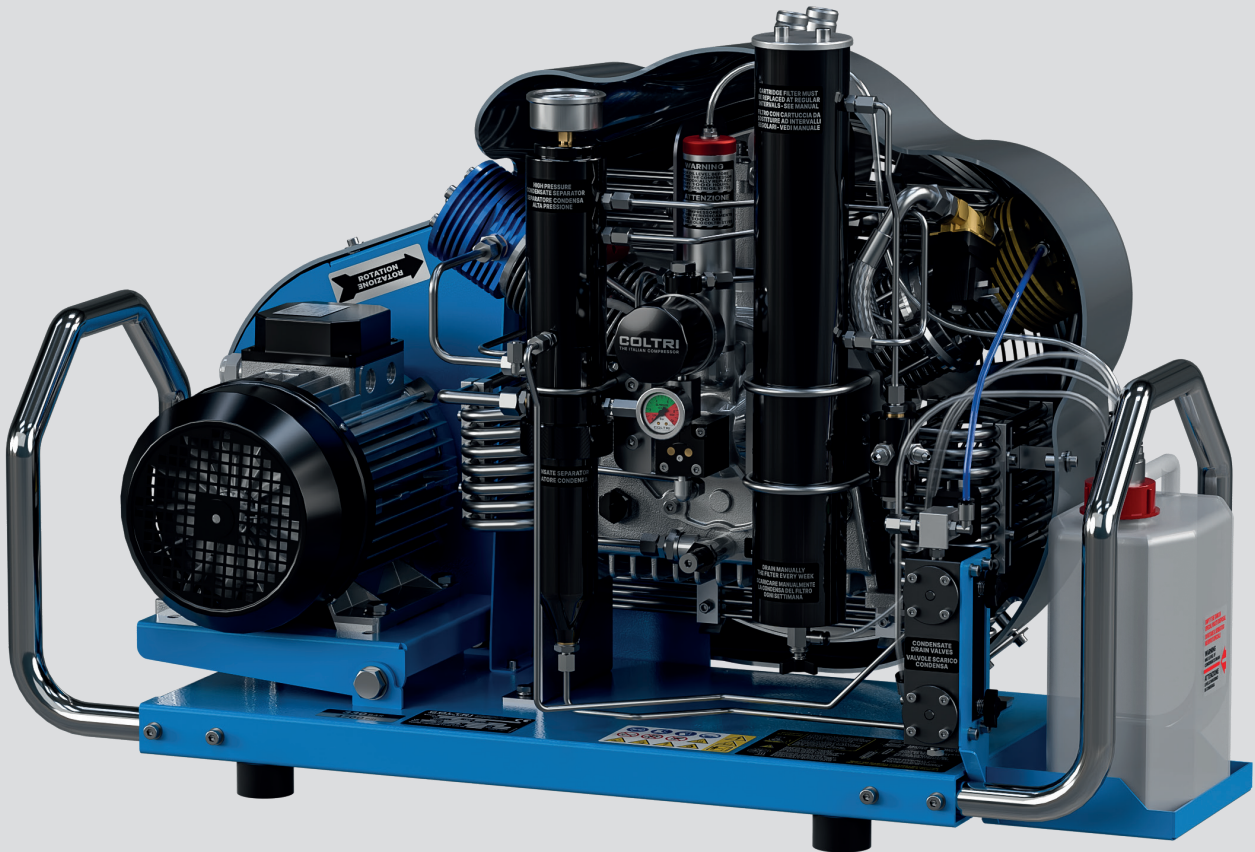
Booster line  
**ASSO I**  
Electric



CONTACT US

CERTIFICATION: CE UNI EN ISO 9001:2015





## Technical data

Type of gas	Breathing air EN 12021 - Helium - Nitrogen - Argon
Intake pressure	Min. 2 bar Max. 8 bar
Nominal pressure	250 bar / 330 bar
Filling pressure	232 bar / 300 bar
Max working pressure	420 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	15°
Design	Soundproof cabinet with sound absorbing
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	Every year / 1.000 h
Frame	Steel 1,5 mm thickness - colour RAL 5015 - Powder coating painting - scratch proof

## Compressor

	ASSO I 4 KW	ASSO I 5.5 KW
Flow rate	From 28,5 l/min to 235 l/min From 1.71 m <sup>3</sup> /h to 14.1 m <sup>3</sup> /h	From 41 l/min to 350 l/min From 2.5 m <sup>3</sup> /h to 21 m <sup>3</sup> /h
Purification System	Maxifilter	
Cooling air flow, min.	1.960 m <sup>3</sup> /h	
Weight	105 kg 231 lb	105 kg 231 lb
<small>Standard model. Weight and dimensions may vary depending on accessories.</small>		
Dimensions (W x D x H)	105 × 46 × 70 cm - 41.3 × 18.1 × 27.6 in	

## Motor

	ASSO I 4 KW	ASSO I 5.5 KW
Power	4 kW, 5.5 Hp	5,5 kW, 7.5 Hp
Type	Three-phase electric	
Operating voltage/frequency	400 V, 50 Hz	
<small>Different voltage / frequency available on request.</small>		
Rated current	9,7 A	12,6 A
Speed (RPM)	2.840 1/min	2.850 1/min
Protection class	IP55 (TEFC)	

## Dimensions

Width 105 cm (41.3")

Depth 46 cm (18.1")

Height 70 cm (27.6")

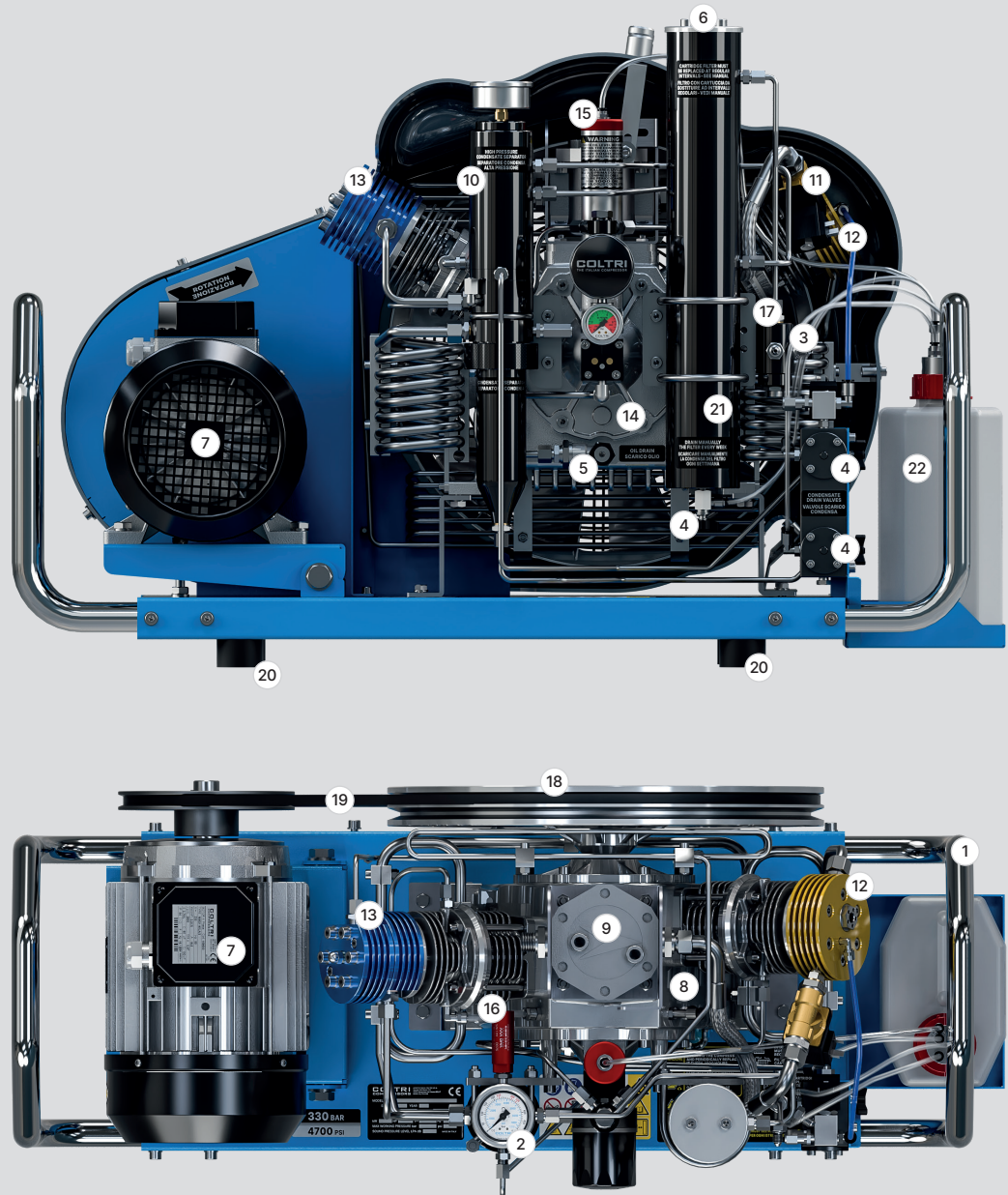
## Dry weight

ASSO I 4 KW

105 kg (231 lb)

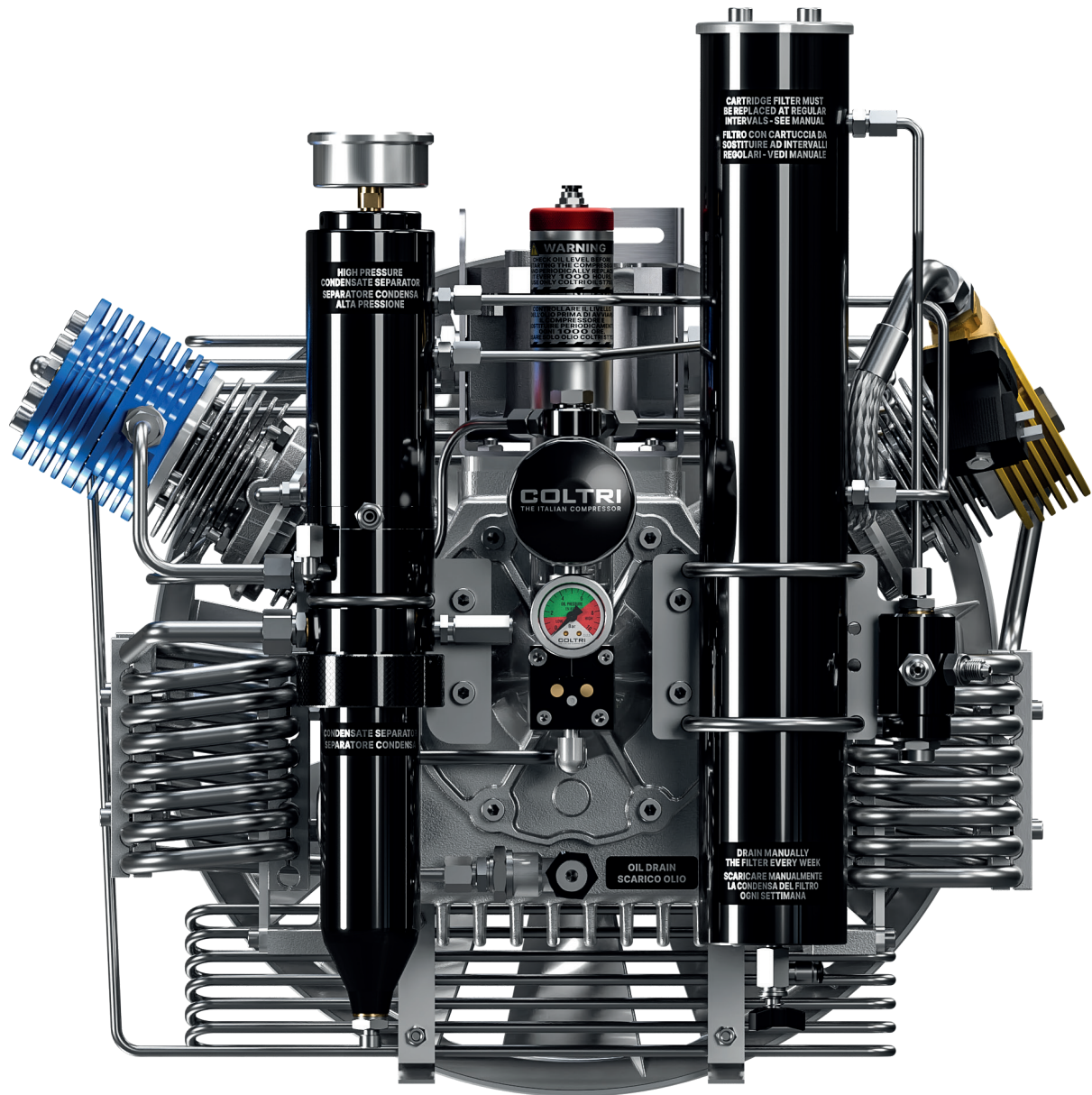
ASSO I 5.5 KW

105 kg (231 lb)



## Machine parts

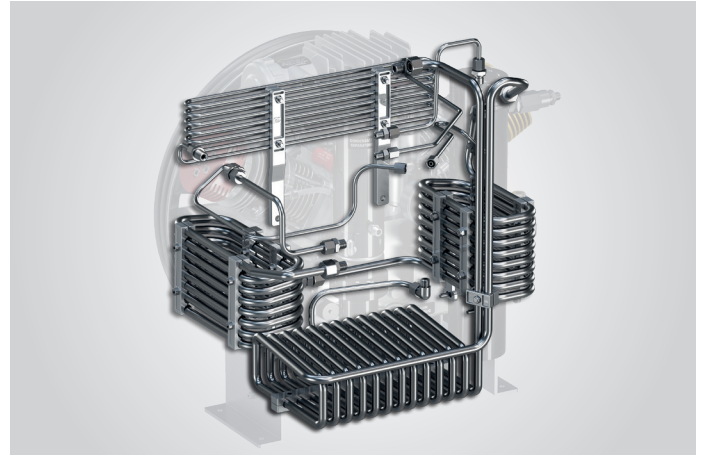
- |                               |                        |                             |
|-------------------------------|------------------------|-----------------------------|
| ① Frame                       | ⑨ Suction filter       | ⑯ Safety valve              |
| ② Pressure gauge              | ⑩ Condensate separator | ⑰ Maintenance valve         |
| ③ Compressed gas outlet       | ⑪ Inlet solenoid valve | ⑱ 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 Monobloc             | ㉒ Condensate collection can |
| ⑦ Electric motor              | ⑮ Oil filler plug      |                             |
| ⑧ Pumping unit                |                        |                             |



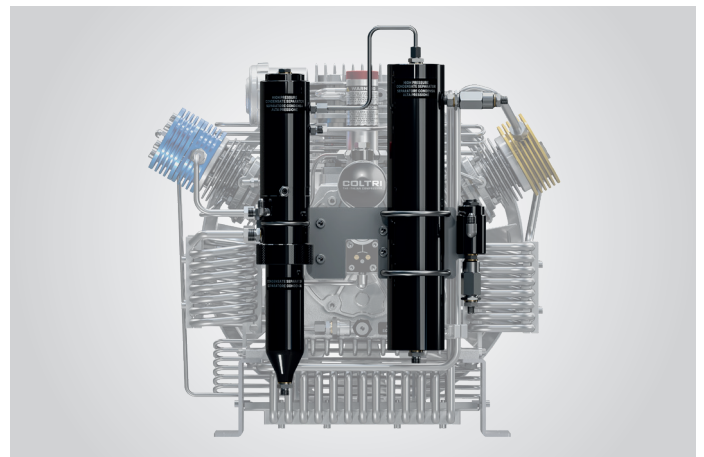
## 1. Forced lubrication with low pressure gear pump



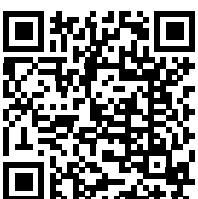
## 2. Pipes, fittings and nuts in stainless steel AISI 316



## 3. Pipes, fittings and nuts in stainless steel AISI 316

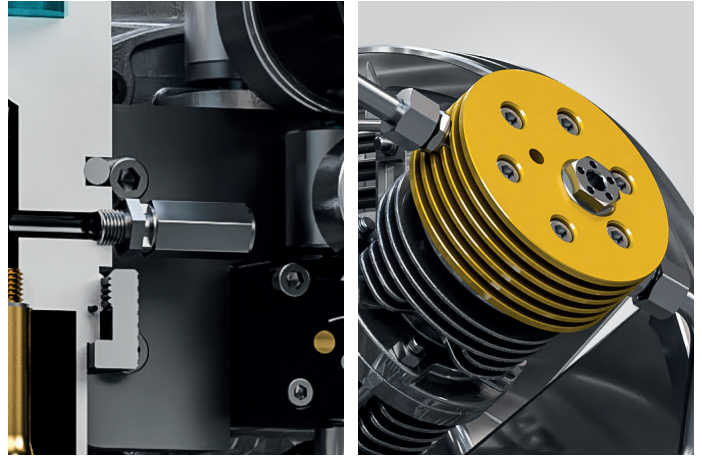


## 4. Synthetic oil with special formulation for HP compressors



Discover more on Coltri Oil ST 755

## 5. Safety valves after each stage of compression



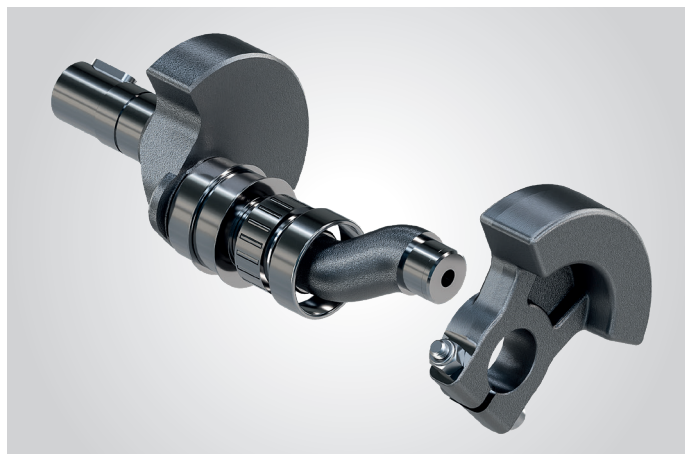
## 6. Die-cast aluminum cylinders with barrel coating in nicasil



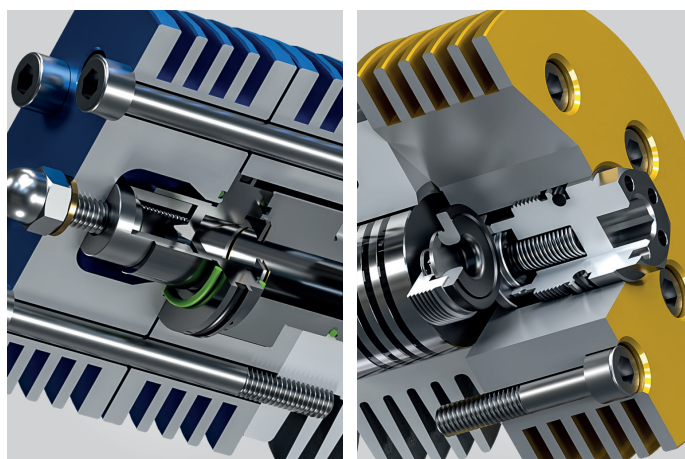
## 7. Forged aluminum connecting rods



## 8. Forged steel crankshaft



## 9. Stainless steel second and third stage valves



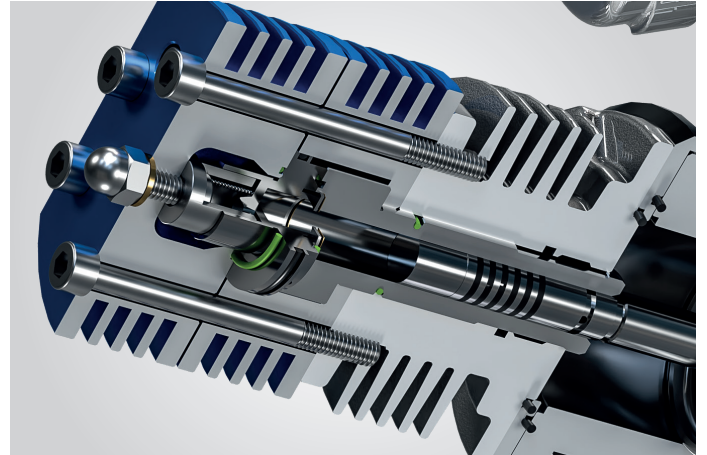
## 10. Roller Bearings for intensive work load



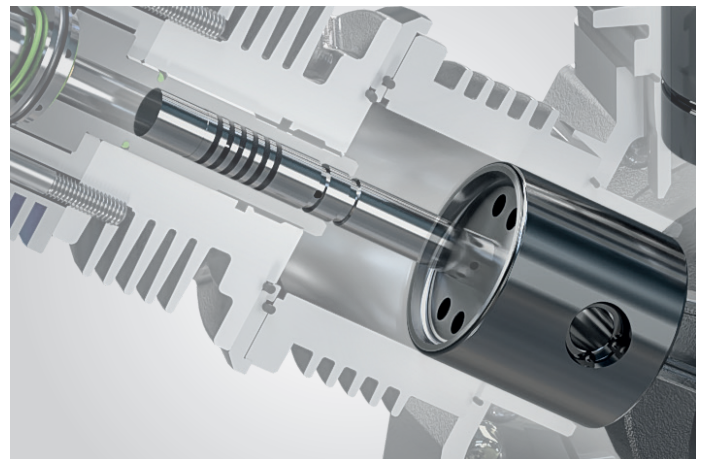


**11.**

Third stage in tempered steel with 5 segments in special cast iron

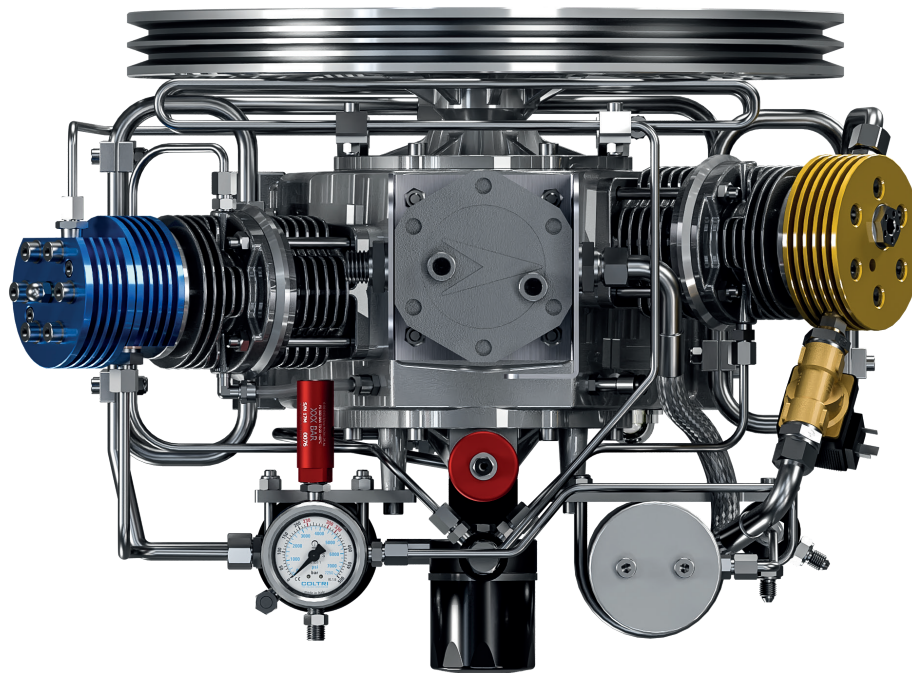
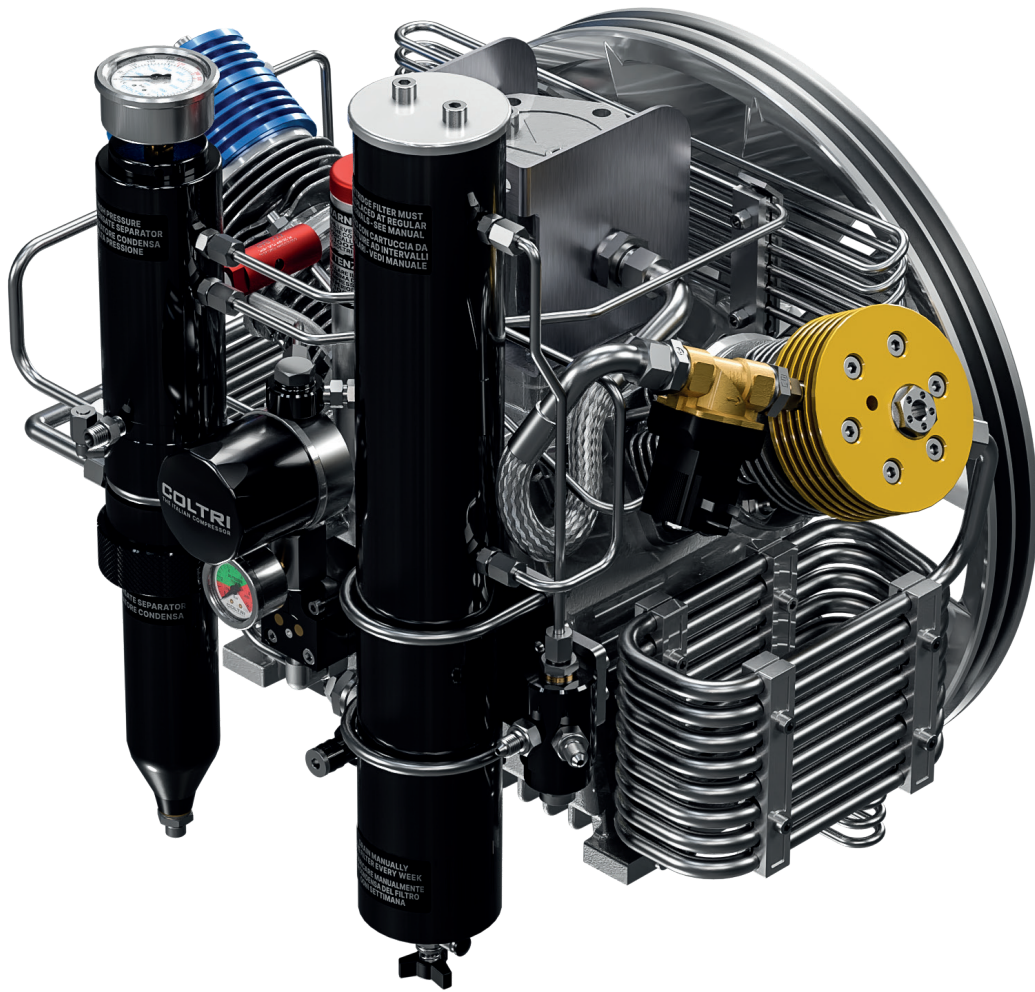
**12.**

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

**13.**

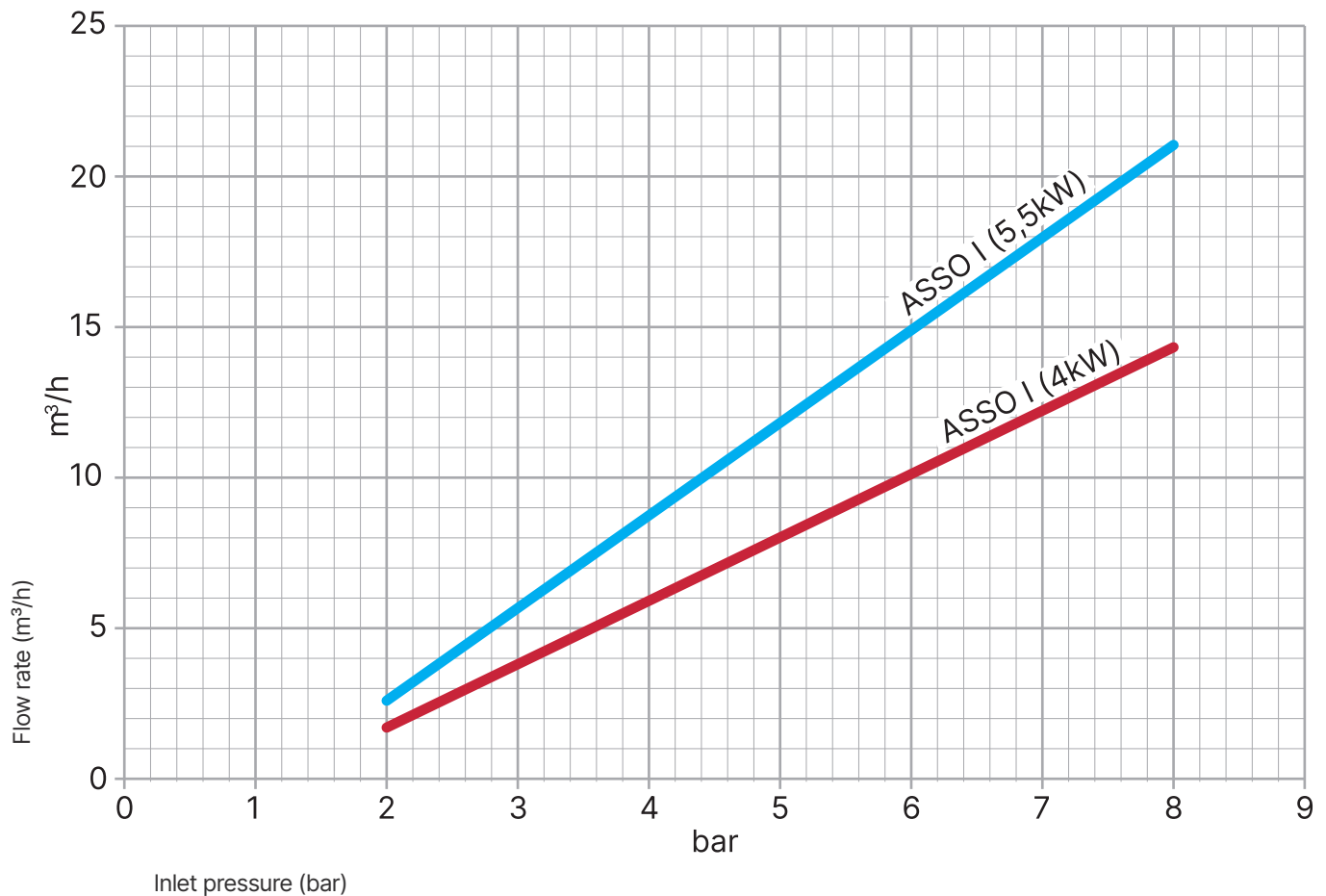
CE certification

<b>COLTRI</b> COMPRESSORS		AEROTECNICA COLTRI S.P.A. Via dei Colli Storti, 177, 25015 Desenzano del Garda (BS), Italia		<b>CE</b>	
MODEL	Asso I				
S/N	YEAR	WEIGHT		KG	
				LB	
 MOTOR					
KW	VOLT	HZ	RPM	PUMPING GROUP	
MAX WORKING PRESSURE			BAR	PSI	
SOUND PRESSURE LEVEL			LPA	dB	
MADE IN ITALY					



# Compressor block

	ASSO I 4 KW	ASSO I 5.5 KW
Intake pressure	2 bar - 8 bar	
Flow rate	Min. 28,5 l/min - Max 235 l/min Min. 1.7 m <sup>3</sup> /h - Max 14.1 m <sup>3</sup> /h	Min. 41 l/min - Max 350 l/min Min. 2.5 m <sup>3</sup> /h - Max 21 m <sup>3</sup> /h
Speed RPM	1.200 1/min	1.400 1/min
Number of stages	2	
Number of cylinders	2	
Cylinder bore 2nd stage	38 mm	
Cylinder bore 3rd stage	15 mm	
Stroke	50 mm	
Direction of rotation (from flywheel side)	Left - counter clockwise	
Drive type	V-belt A type	
Amount of oil	1,8 liters	



# Standard equipment

## Purification system MAXIFILTER

MAXIFILTER polypropylene cartridge repackable or disposable



- ① Activated carbon
- ② Felt disc

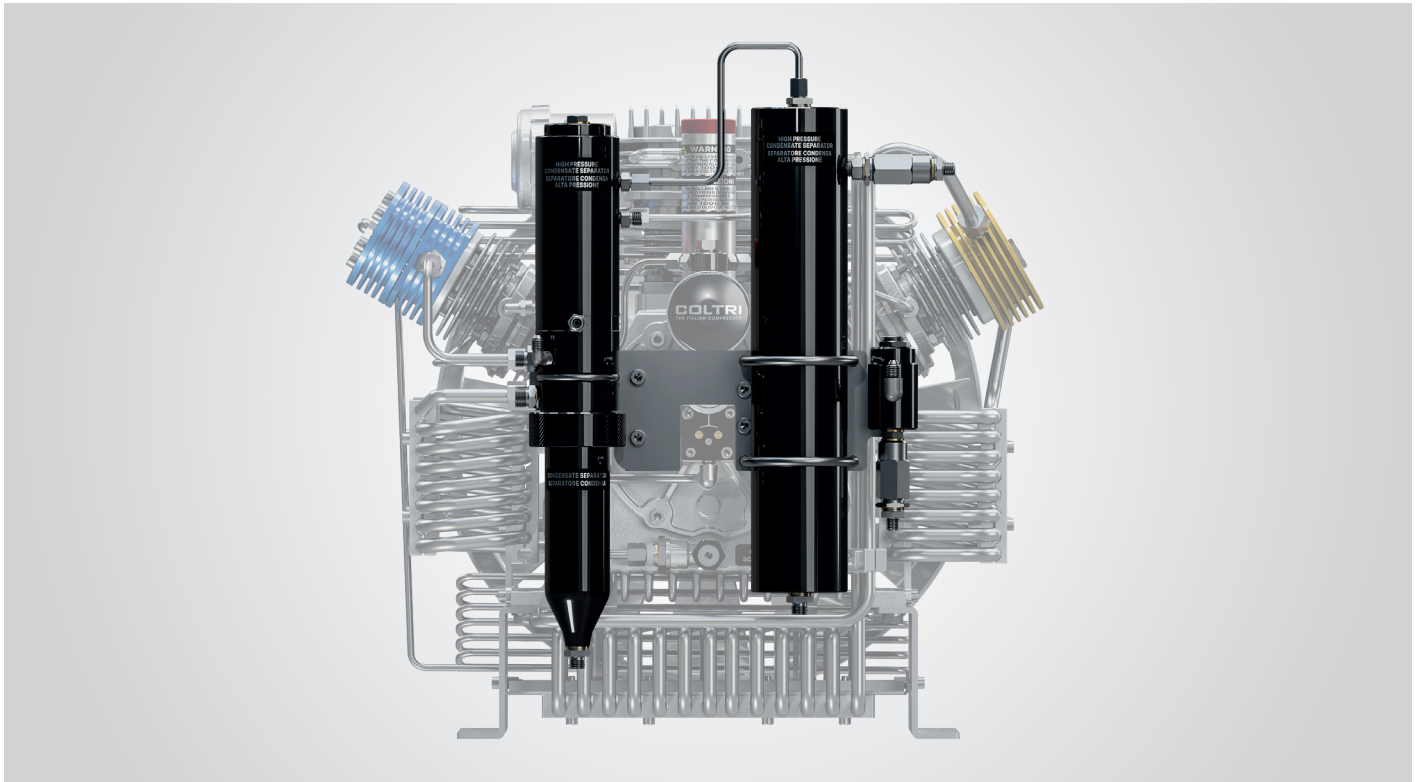
Purification system	Maxifilter
Operating pressure (Standard)	250 bar / 330 bar / 360 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar) <sup>1</sup>	890 m <sup>3</sup>

<sup>1</sup> 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 in forged and anodized aluminum.
- Final separator for removal of oil/water condensate
- Final safety valve, mounted on the separator housing
- Pressure maintenance valve / non-return valve
- Automatic condensate drain



Contamination	Maximum content as per DIN EN 12021:2014	Air quality*
H <sub>2</sub> O	25 mg/m <sup>3</sup>	≤ 10 mg/m <sup>3</sup>
CO	5 ppm(v)	≤ 4
CO <sub>2</sub>	500 ppm(v)	≤ 500
Oil	0,5 mg/m <sup>3</sup>	≤ 0,5 mg/m <sup>3</sup>

\* 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 CO<sub>2</sub> in the intake air must not exceed the maximum level of CO<sub>2</sub> as per EN 12021:2014

3 Reported values exceed ISO 8573-1 standards.

## Filling connections

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
Valve design	Filling valve with integrated ventilation, with cylinder connector G 5/8" according 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 PN232

## Filling hose

1200 mm stainless steel fittings - max working pressure 420 bar





## Carrying handles

Convenient handles for easy transport of the compressor.





# Data sheet three-phase electric motor 4 kW

		<b>SPECIFICA TECNICA MOTORE EL.</b> <i>Electric motor technical data sheet</i>		Potenza/ Power (kW)	Poli/ Poles
				4	2
		Data	Rev.	25/06/2015	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 <sup>-1</sup> ]
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		
<b>Note/remarks:</b> 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 5.5 kW

		<b>SPECIFICA TECNICA MOTORE EL.</b> <i>Electric motor technical data sheet</i>			Potenza/ Power (kW)	Poli/ Poles
					5,5	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 <sup>-1</sup> ]	
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			
<b>Note/remarks:</b> Targa con logo Soga.						

# Optional

## 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

## Electric control box with automatic condensate drain + auto shut-off



# Aerotecnica Coltri S.p.A.

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

Ph. +39 030 9910301  
+39 030 9910297

[info@coltri.com](mailto:info@coltri.com)



[coltri.com](http://coltri.com)

