Technical Data Sheet

COLTRI COMPRESSORS

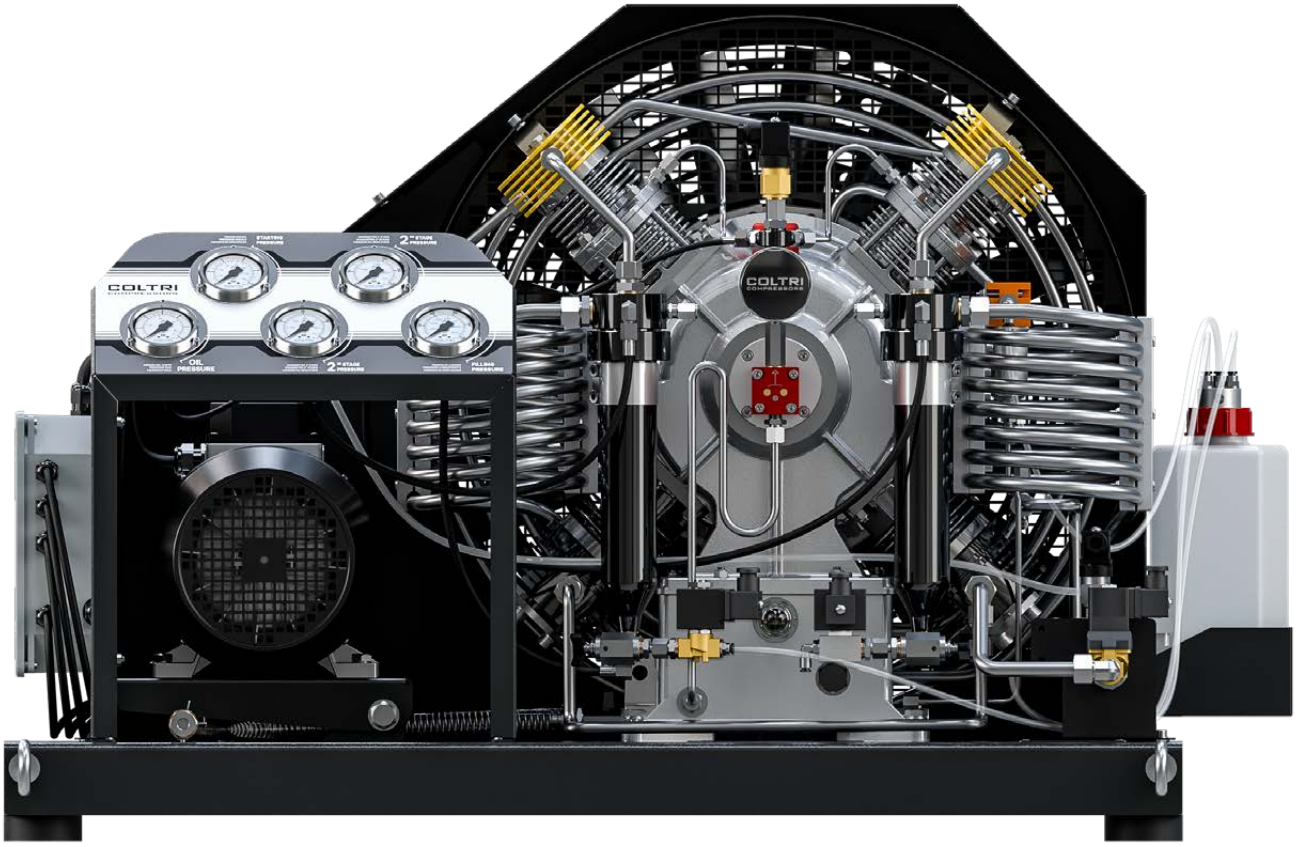
BOOSTER LINE

BOOSTER INDY VII

ELECTRIC

Contact

Medium pressure booster in a concentrate of power.



Technical data

Type of gas	Air - Nitrogen
Intake pressure*	Min. 2 bar Max. 5 bar
Nominal pressure	40 bar
Working pressure	80 bar
Permissible ambient temperature range	-10° C ÷ +40° C
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 Black RAL 9005 - Powder coating painting - Scratch proof

* with a working pressure set at **40 bar / 580 psi** → minimum intake pressure = **4 bar / 58 psi**
with a working pressure set at **30 bar / 435 psi** → minimum intake pressure = **3 bar /43,5 psi**
with a working pressure set at **25 bar / 362 psi** → minimum intake pressure = **2 bar / 29 psi**

Compressor

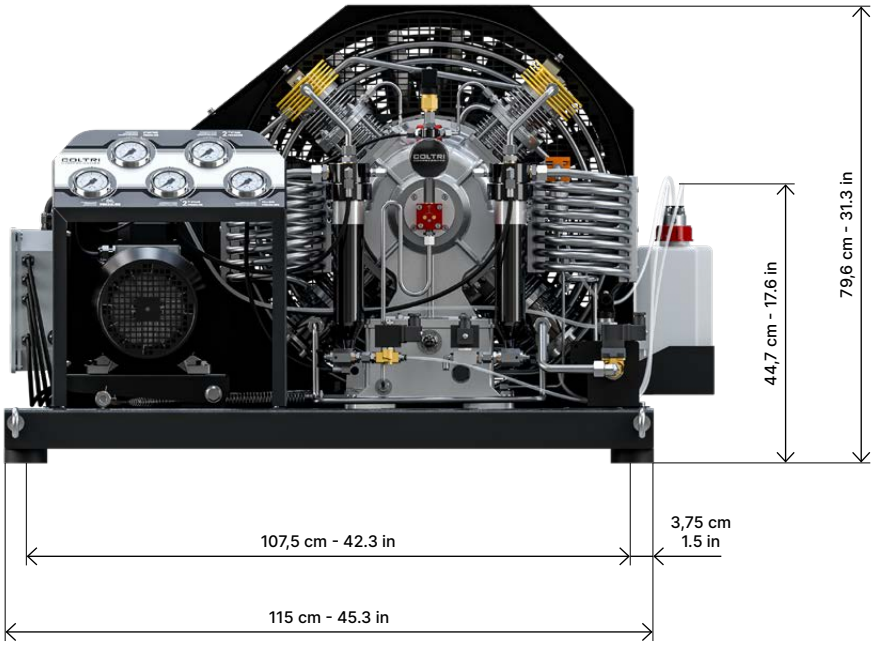
	BOOSTER INDY VII 11 KW	BOOSTER INDY VII 15 KW
Flow rate	Min. 721 - Max. 2.163 l/min Min. 43 - Max. 130 m^3/h Min. 25.5 - Max. 76.4 cfm	Min. 901 - Max. 2.703 l/min Min. 54 - Max. 162 m^3/h Min. 31.9 - Max. 95.5 cfm
Cooling air flow	1.570 m^3/h	1.960 m^3/h
Weight[1]	225 kg - 496 lb	
Dimensions (W x D x H)[1]	115 × 60 × 79,6 cm - 45.3 × 23.6 × 31.3 in	

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

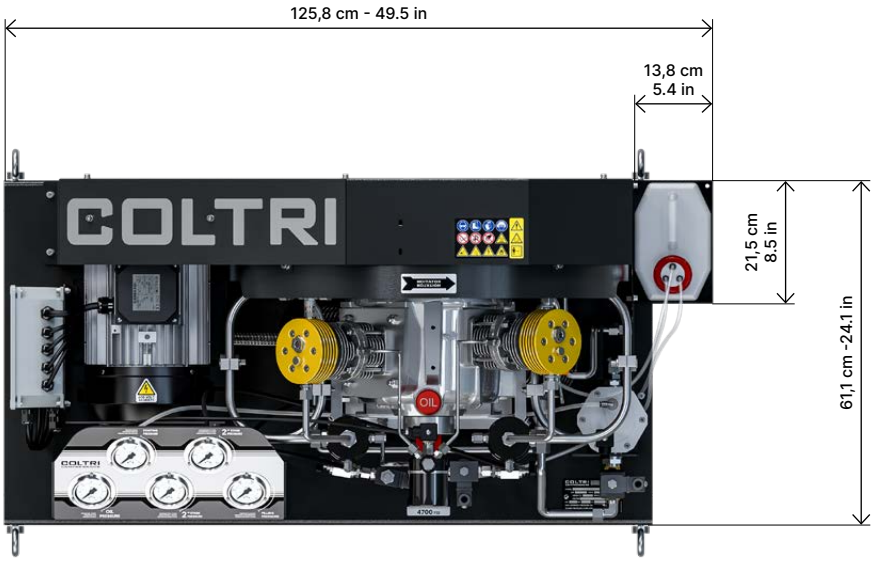
Electric motor

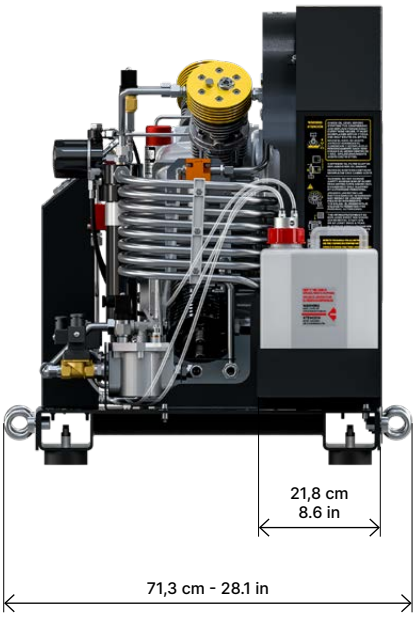
	BOOSTER INDY VII 11 KW	BOOSTER INDY VII 15 KW
Power	11 kW - 14.8 Hp	15 kW - 20 Hp
Type	Three-phase electric	
Operating voltage/frequency Different voltage / frequency available on request.	400 V, 50 Hz	
Rated current	23 A	31 A
Speed (RPM)	2.910	2.920
Protection class	IP55	

Dimensions

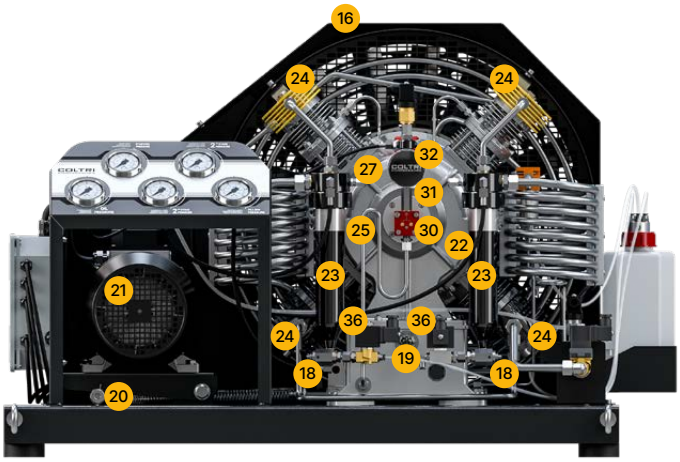

79,6 cm - 31.3 in
44,7 cm - 17.6 in
107,5 cm - 42.3 in
3,75 cm
1.5 in
115 cm - 45.3 in

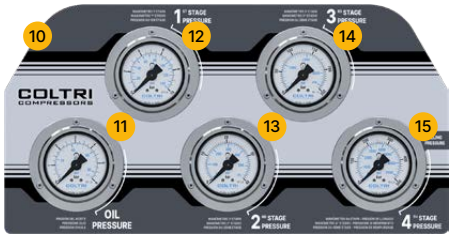
COLTRI
50,2 cm - 19.7 in
60 cm - 26.3 in


125,8 cm - 49.5 in
13,8 cm
5.4 in
COLTRI
21,5 cm
8.5 in
61,1 cm -24.1 in
OIL


21,8 cm
8.6 in
71,3 cm - 28.1 in

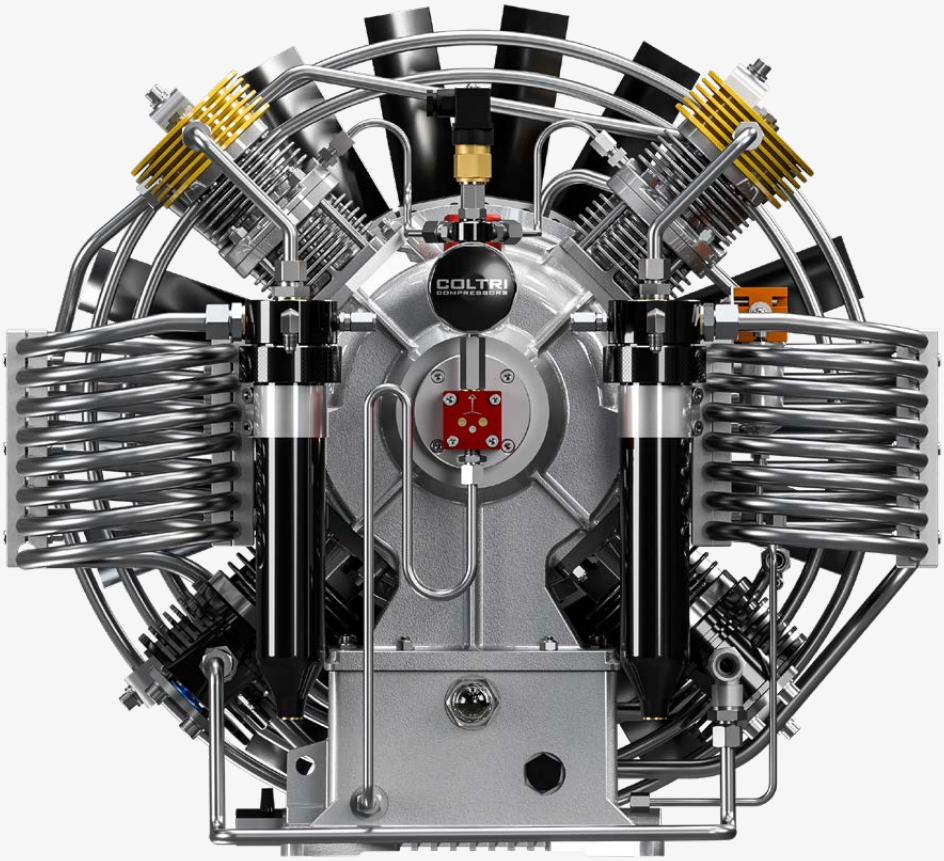
Components

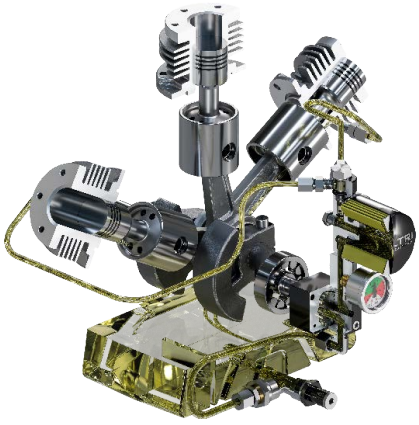




1. Control pannel
2. Main switch
3. ON switch
4. Stop pushbutton
5. Condensate discharge pushbutton
6. Power indicator light
7. Direction of rotation indicator light
8. Oil level warning light
9. Hour meter
10. Control Panel
11. Oil pressure gauge
12. 1st stage pressure gauge
13. 2nd stage pressure gauge
14. 3rd stage pressure gauge
15. 4th stage pressure gauge/ working pressure
16. Frame
17. Compressed gas outlet
18. Condensate discharge valve
19. Oil level
20. Oil discharge valves
21. Motor
22. Compressor
23. Condensate separator
24. Compression stages
25. Monobloc
26. Oil filler plug
27. Safety valve
28. Cooling fan
29. Belt
30. Oil pump
31. Oil pressure gauge
32. Oil filter
33. Pressure switch
34. Suction gas inlet
35. Suction filter
36. Automatic condensate drain valve

Pumping unit MCH 36





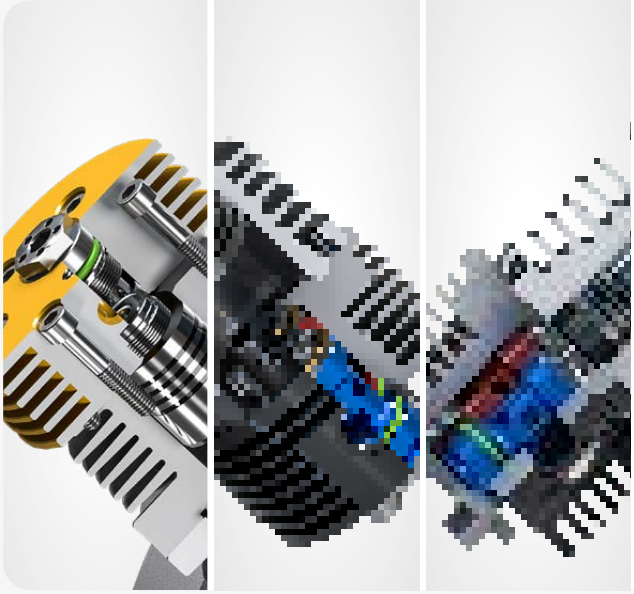
Forced lubrification with low pressure gear pump

Final safety valve

Pipes, fitting and nuts in stainless steel AISI 316

Casted aluminum connecting rods

Die-cast aluminum cylinders with barrel coating in nicasil + cast iron cylinders



Stainless steel stage valves

Forged steel crankshaft

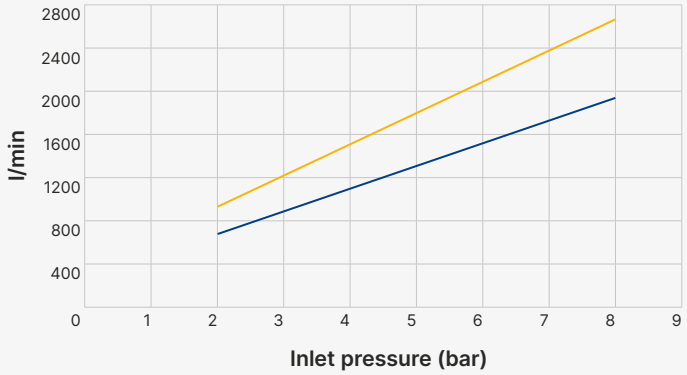
Roller Bearings for intensive work

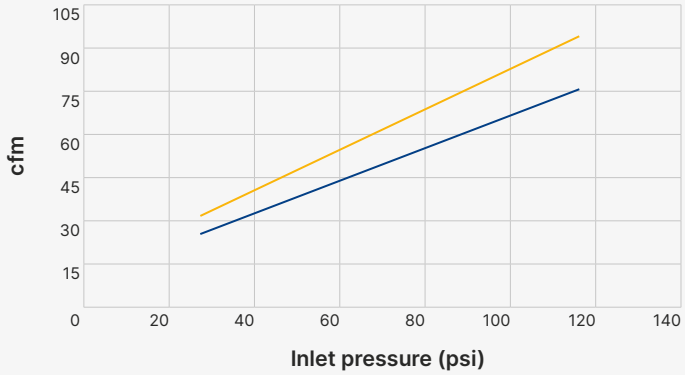
CE certification

Technical data pumping unit MCH 36

	BOOSTER INDY VII 11 KW	BOOSTER INDY VII 15 KW
Intake pressure*	Min. 2 bar Max. 8 bar	
Flow rate	Min. 721 - Max. 2.163 l/min Min. 43 - Max. 130 m³/h Min. 25.5 - Max. 76.4 cfm	Min. 901 - Max. 2.703 l/min Min. 54 - Max. 162 m³/h Min. 31.9 - Max. 95.5 cfm
Speed (RPM)	1.000	1.250
Number of stages	2 + 2	
Number of cylinders	2 + 2	
Cylinder bore 1st stage	60 mm	
Cylinder bore 2nd stage	38 mm	
Stroke	50 mm	
Direction of rotation from flywheel side	Counter clockwise (left)	
Drive type	V-belt A type	
Oil sump capacity	1,8 liters	

* with a working pressure set at **40 bar / 580 psi** → minimum intake pressure = **4 bar / 58 psi**
with a working pressure set at **30 bar / 435 psi** → minimum intake pressure = **3 bar /43,5 psi**
with a working pressure set at **25 bar / 362 psi** → minimum intake pressure = **2 bar / 29 psi**



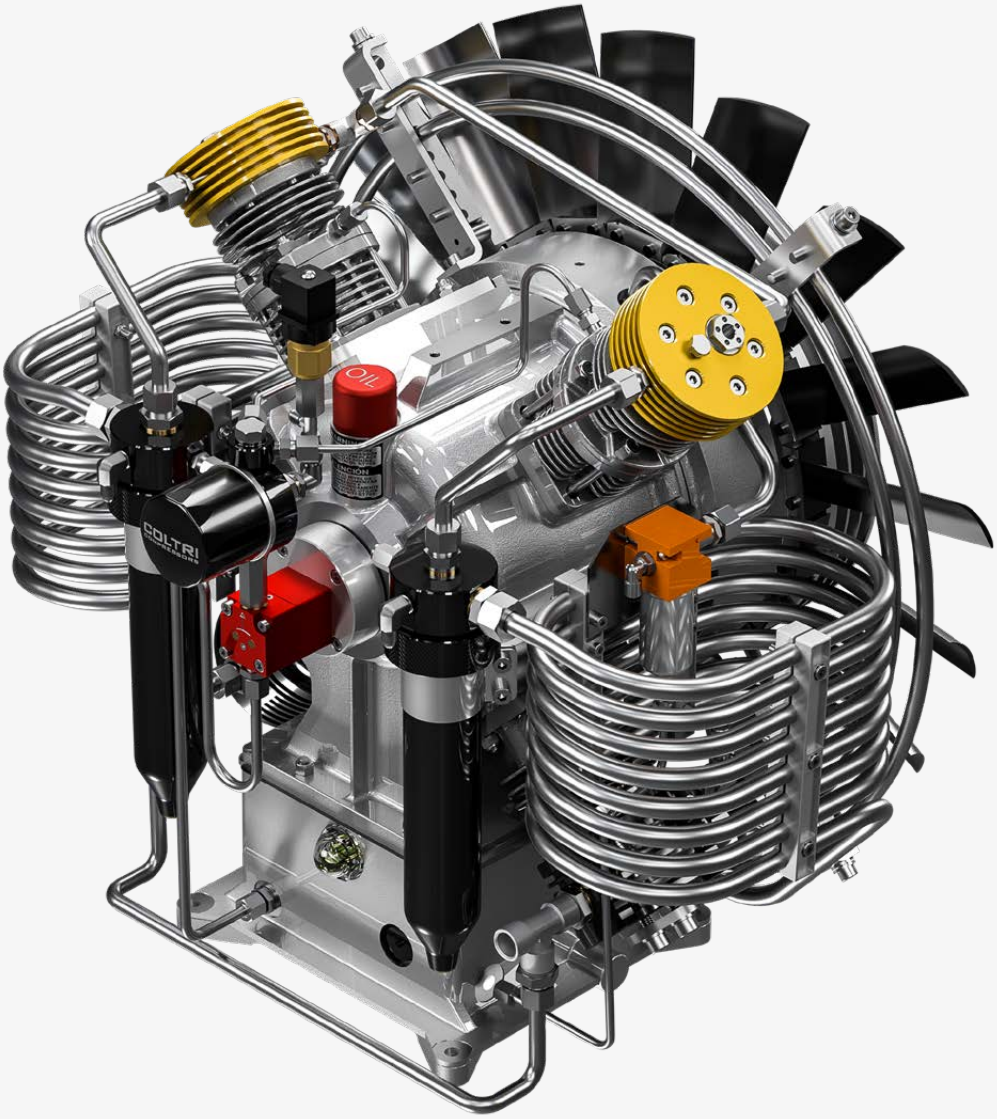


BOOSTER INDY 11 KW

l/min	Min. 721 - Max. 2.163
cfm	Min. 25,5 - Max. 76,4

BOOSTER INDY 15 KW

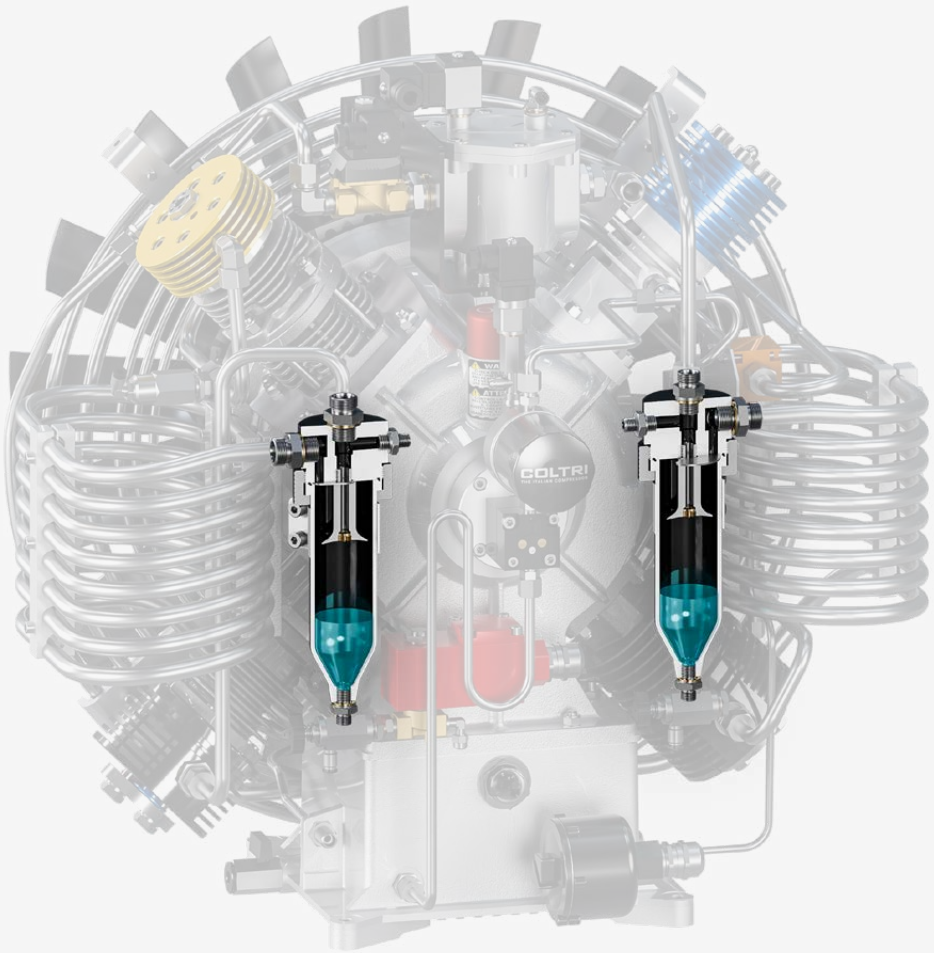
l/min	Min. 901 - Max. 2.703
cfm	Min. 31,9 - Max. 95,5


OIL
COLTRI

Standard equipment

Condensate separation system

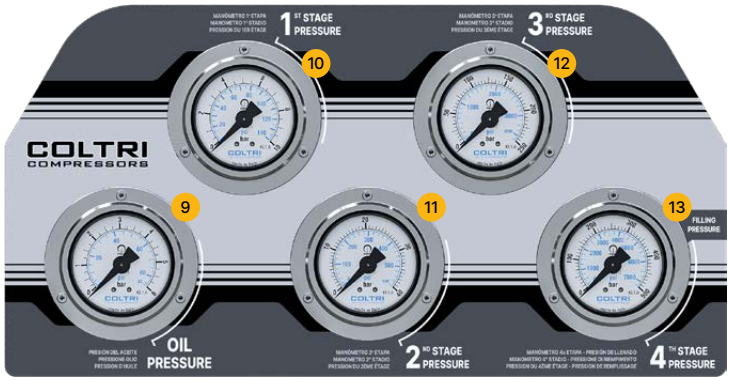
- Final separator for removal of oil/water condensate.
- Final safety valve, mounted on the separator housing.
- Automatic condensate drain.



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

- Motor protection switch.
- Autostop + Autostart.
- Drainage of separator between the individual stages during compressor operation (standard drain interval every 15 minutes for a period of 6 seconds).
- 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. Voltage presence warning light
4. Oil level warning light
5. Fault motor light
6. Condensate drain light
7. Operating hours counter
8. Main switch
9. Oil pressure
10. 1st stage pressure gauge
11. 2nd stage pressure gauge
12. 3rd stage pressure gauge
13. 4th stage pressure gauge

Plugs available according to electric motor

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/200/346 - 240/415V~

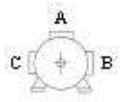
50÷60 Hz

32 A

3P+N+⏚

Data sheet three-phase electric motor 11 kW

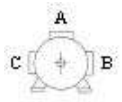
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **11**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		150784			
2	**Modello /** *Motor type*		MT1 132MC/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 11kW 2 Poles 400/690V 50Hz			
4	**Carcassa motore** / *Framesize*		132M			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		11	11	13	[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	440-480Y	[V]
11	**Frequenza** / *Rated frequency*		50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*		39,8/23	36,5/21,1	23	[A]
13	**Velocità nominale** / *Rated speed*		2910	3500	3500	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,87	0,91	0,87	
15	**Coppia nominale motore**/ *Rated motor torque*		36,1	30	35,5	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		6,8			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		2,7			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*		M6			
23	**Peso /** Weight		51			[kg]
24	**Cuscinetti** /bearings	Drive end	6308			
		Non drive end	6308			

Note/remarks:
Targa con logo Coltri Compressors.

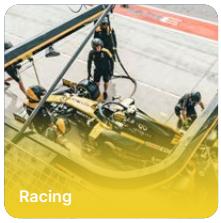
Data sheet three-phase electric motor 15 kW

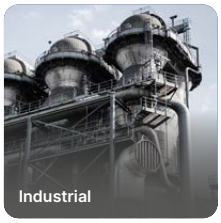
soga®	**SPECIFICA TECNICA MOTORE EL.** *Electric motor technical data sheet*	**Potenza/** *Power* (kW) **15**	**Poli/** Poles **2**
		Data 25/06/2015	Rev. 0

No	Descrizione/*Description*		Dati/Data			*U.d.m.*
1	**Codice Soga** / *ref.code*		150790			
2	**Modello /** *Motor type*		MT1 132MD/2			
3	**Descrizione** / *Description*		Three-phase asynchronous motor 15kW 2 Poles 230/400V 50Hz			
4	**Carcassa motore** / *Framesize*		132M			
5	**Poli** / *Poles*		2			
6	**Forma di costruzione** / *Mounting type*		IM B3			
7	**Potenza nominale** / *Rated output*		15	15	18	[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	440-480Y	[V]
11	**Frequenza** / *Rated frequency*		50	60	60	[Hz]
12	**Corrente nominale** / *Rated current*		53,7/31	53,7/31	31	[A]
13	**Velocità nominale** / *Rated speed*		2920	3500	3500	[min^{-1}]
14	**Fattore di potenza** / *Power factor*		0,86	0,91	0,86	
15	**Coppia nominale motore**/ *Rated motor torque*		49	41	49,1	[Nm]
17	**Corrente avviamento / Corrente nominale** *Starting current / Rated current*		7,2			Isp/In
18	**Coppia avviamento / Coppia nominale** *Starting torque/Rated torque*		2,5			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*		M6			
23	**Peso /** Weight		59			[kg]
24	**Cuscinetti** /bearings	Drive end	6308			
		Non drive end	6308			

Note/remarks:
Targa con logo Coltri Compressors.

Application fields





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DT-TDS-BOOSTERINDYVII-25-V2

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

ENVIRONMENTAL SYSTEM CERTIFICATION DNV ISO 14001

SAFETY SYSTEM CERTIFICATION DNV ISO 45001

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