

CNG line

CNG Booster HD

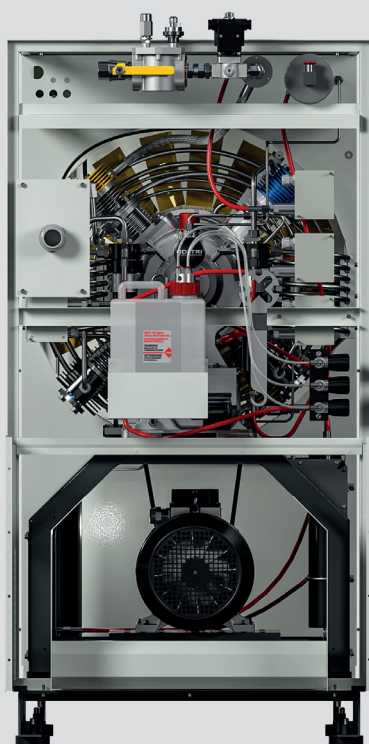
Electric



CONTACT US

CERTIFICATION: CE UNI EN ISO 9001:2015





Technical data

Type of gas	Natural gas - methane
Intake pressure	From 2 to 5 bar
Nominal pressure	250 bar
Filling pressure	200 bar or 250 bar
Max working pressure	200 bar or 250 bar
Permissible ambient temperature range	-10° C ÷ +40° C
Permissible altitude	0 ÷ 1.500 m SLM
Max permissible tilt	15°
Design	Silenced
Operating voltage, standard	400 V; 50 Hz
Other operating voltage	230 V, 50 Hz / 230 V, 60 Hz / 400 V, 50 Hz / 400 V, 60 Hz / 690 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 7035 - RAL 7016 Powder coating painting - scratch proof
Noise	LpA 67 dB

Compressor

CNG Booster HD RC 9 KW CNG Booster HD RC 11 KW CNG Booster HD RC 15 KW

Charging rate	From 330 l/min to 600 l/min	From 350 l/min to 750 l/min	From 400 l/min to 800 l/min
Purification System	Hyperfilter		
Cooling air flow, min.	3.000 m³/h		
Weight	451 kg 994 lb	455 kg 1003 lb	463 kg 1020 lb
Standard model. Weight and dimensions may vary depending on accessories.			
Dimensions (W x D x H)	79 x 130 x 155 cm - 31 x 51.3 x 61 in		

Engine

CNG Booster HD RC 9 KW CNG Booster HD RC 11 KW CNG Booster HD RC 15 KW

Type	Three-phase el.		
Power	9 kW – 12 Hp	11 kW – 14 Hp	15 kW – 20 Hp
Operating voltage/frequency	400 V, 50 Hz		
Different voltage / frequency available on request.			
Rated current	13,2 A		
Speed (RPM)	2.800 1/min		
Protection class	IP55 (TEFC)		

Dimensions

Width 79 cm (31")

Depth 130 cm (51.3")

Height 155 cm (61")

Dry weight

CNG Booster HD RC 9 KW

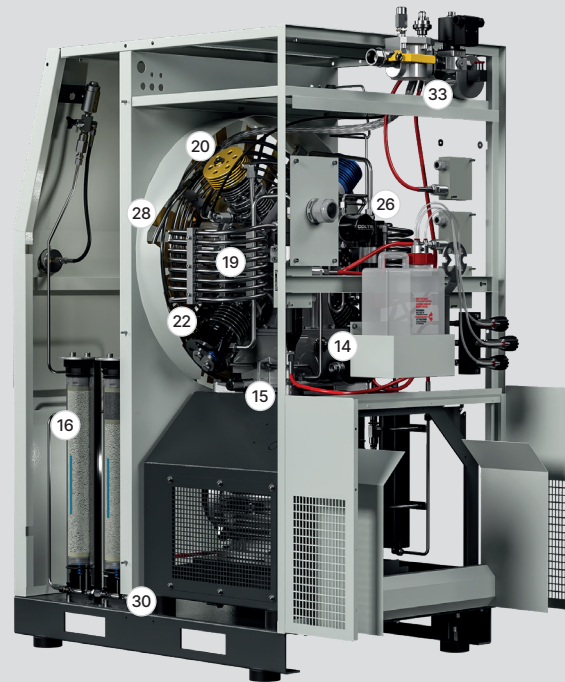
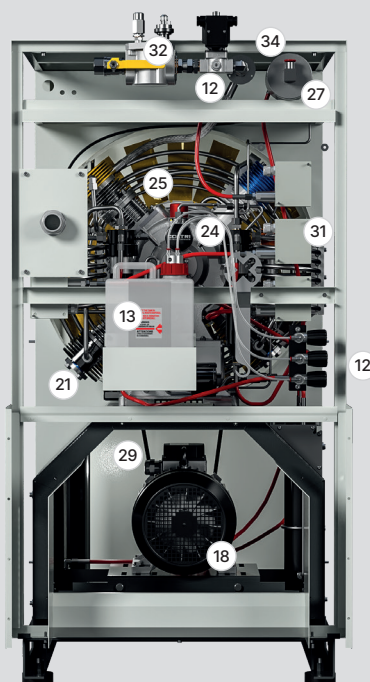
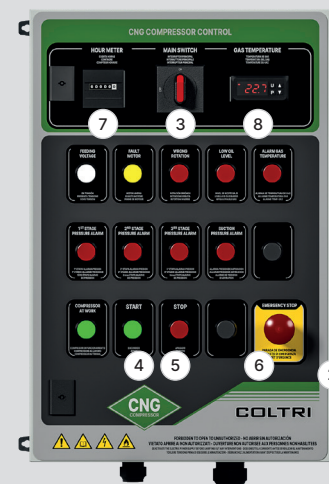
451 kg (994 lb)

CNG Booster HD RC 11 KW

455 kg (100,3 lb)

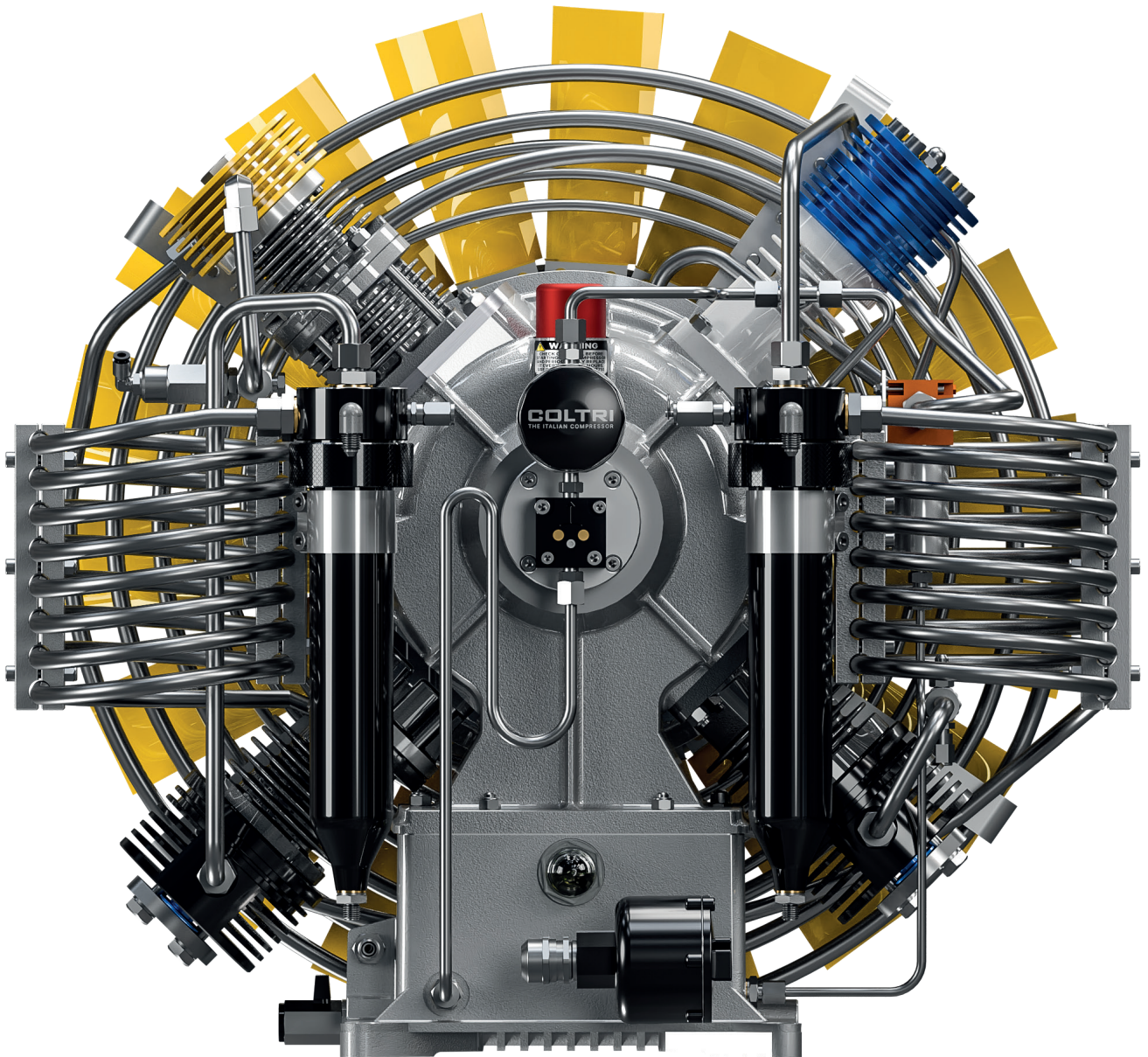
CNG Booster HD RC 15 KW

463 kg (102 lb)



Machine parts

- | | | |
|--|---------------------------------------|-----------------------------|
| 1 Frame | 13 Condensate collection can | 25 Oil filler plug |
| 2 Control pannel | 14 Oil level | 26 Oil filter |
| 3 Selector switch ON/OFF | 15 Oil discharge valves | 27 Safety valves |
| 4 ON pushbutton | 16 Molecular sieve gases filter | 28 Antistatic cooling fan |
| 5 Stop pushbutton | 17 ATEX motor | 29 Antistatic belt |
| 6 Emergency pushbutton | 18 Compressor | 30 Anti-vibration device |
| 7 Hour counter | 19 Gas suction filter | 31 Pressure switches |
| 8 Thermostat | 20 1 st stage gas recovery | 32 Gas aspiration connector |
| 9 Gases pressure gauge | 21 2 nd stage | 33 Manifold safety valves |
| 10 Oil pressure gauge | 22 3 rd stage | 34 Fireplace exhaust gas |
| 11 High pressure gas outlet connection | 23 4 th stage | |
| 12 Condensate discharge valve | 24 Monobloc | |



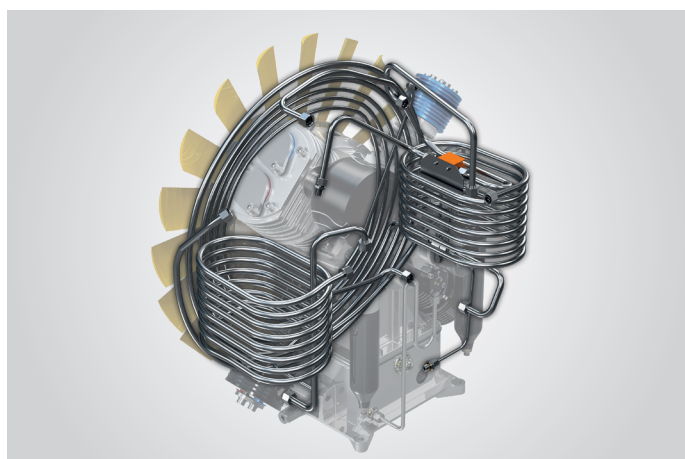
1. Forced lubrication with low pressure gear pump



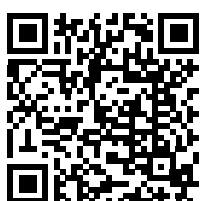
2. Inlet filter



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

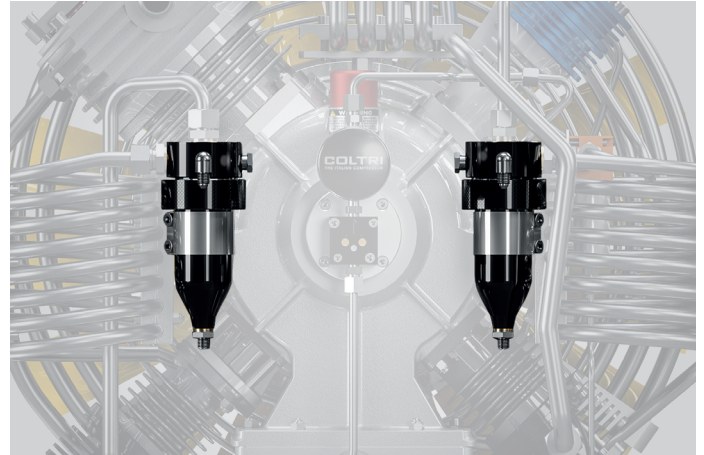


4. Synthetic oil with special formulation for CNG compressor

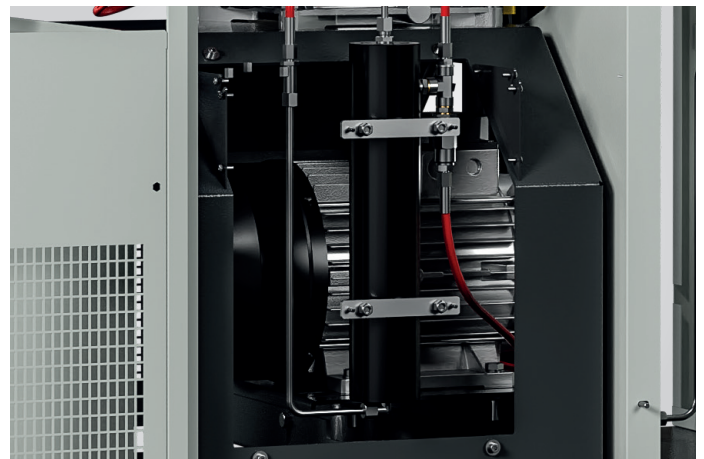


Discover more on Coltri Oil ST 755

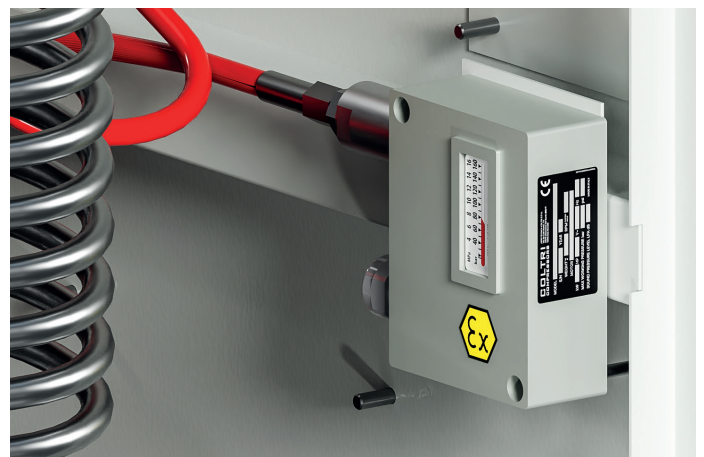
5. Intermediate condensate separator after the second stage



6. High pressure final condensate separators double effect



7. Pressure switches valves after each stage of compression



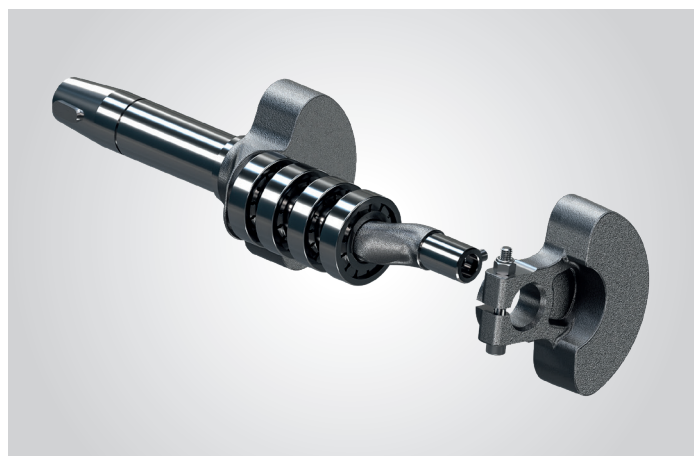
8.
Special cast iron cylinders
with low roughness
lapping



9.
Forged aluminum
connecting rods



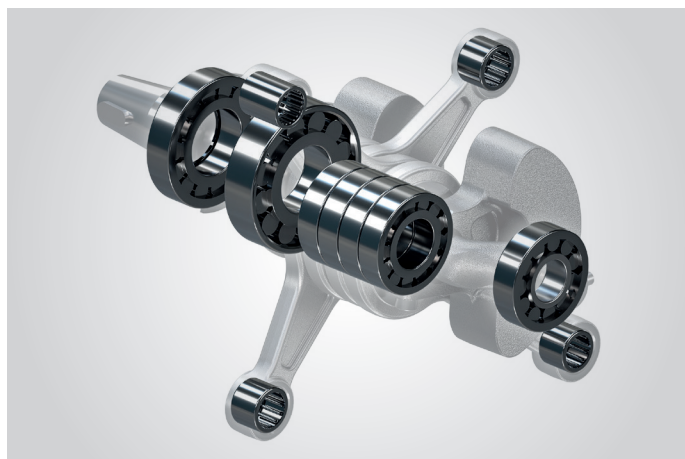
10.
Crankshaft
forged steel



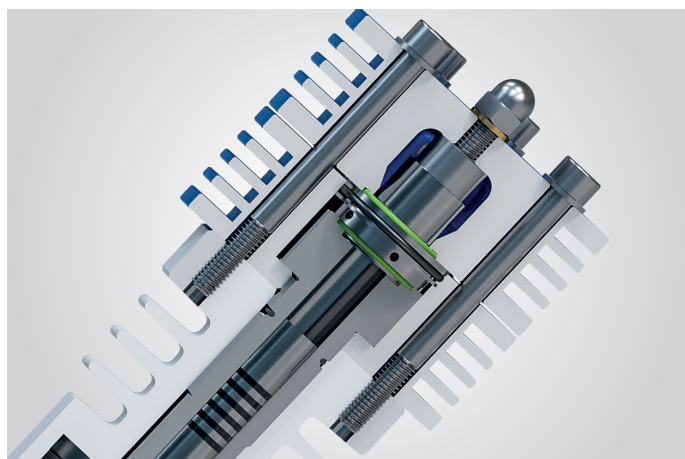
11. High-flow second and third stage valves



12. Roller Bearings for intensive work



13. Fourth stage in tempered steel with 6 segments in special cast iron



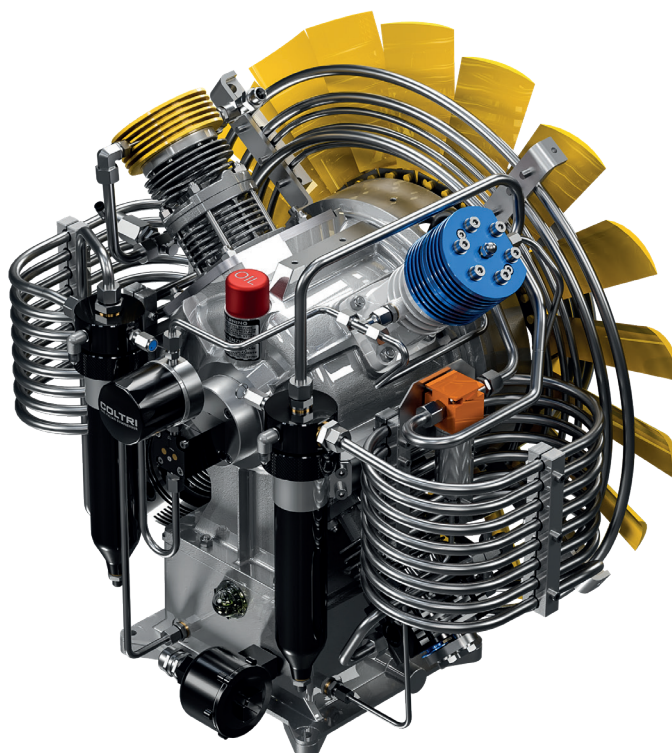
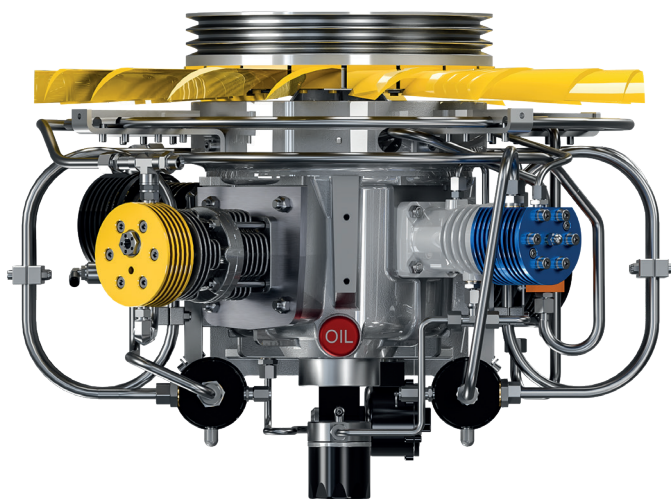
14.

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

**15.**

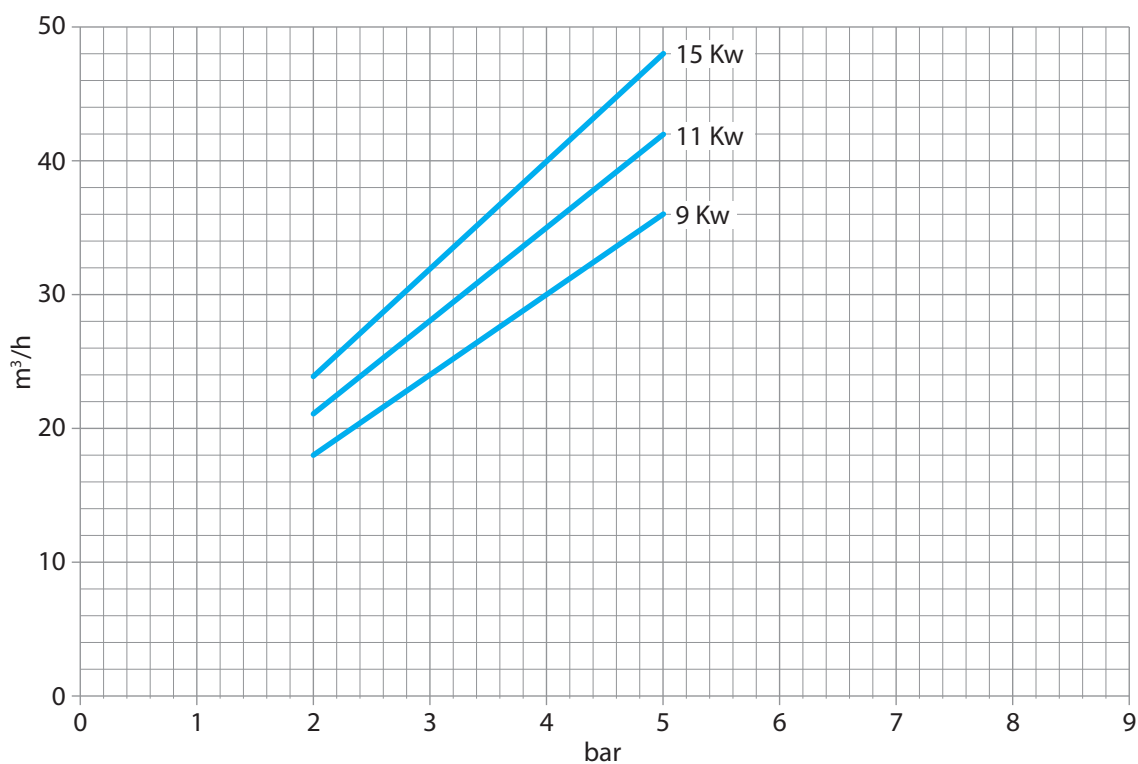
Label
CE certification

COLTRI [®]		COMPRESSORS		AEROTECNICA COLTRI S.p.A. Via dei Colli Storici, 177, 25015 Desenzano del Garda (BS), Italia		CE	
MODEL		CNG HD					
S/N		YEAR		WEIGHT		KG LB	
MOTOR		THREE-PHASE					
KW		VOLT		HZ		RPM PUMPING GROUP	
MAX WORKING PRESSURE		BAR		PSI			
SOUND PRESSURE LEVEL		LPA dB				MADE IN ITALY	



Compressor block

	Booster 16 ET	Booster 20 ET	Booster 34 ET
	CNG Booster HD RC 9 KW	CNG Booster HD RC 11 KW	CNG Booster HD RC 15 KW
Charging rate Measured during 10 liters cylinder filling from 0-200 bar tolerance +/- 5% at + 20 ° C ambient temperature.	From 330 to 600 l/min	From 350 to 750 l/min	From 400 to 800 l/min
Speed RPM	1.100 1/min	1.250 1/min	1.420 1/min
Intake pressure	From 2 bar to 5 bar		
Number of stages	3		
Number of cylinder	3		
Cylinder bore 2nd stage	60 mm		
Cylinder bore 3rd stage	32 mm		
Cylinder bore 4th stage	15 mm		
Stroke	50 mm		
Direction of rotation (from flywheel side)	Left - counter clockwise		
Drive type	V-belt A type		
Intermediate pressure 1st stage	~ 3,2 bar		
Intermediate pressure 2nd stage	~ 16 bar		
Amount of oil	4 liters		



Standard equipment

Inlet filter



Natural gas refueling gun with direct action NGV1



4.5 m filling hose



Purification system HYPERFILTER

DOUBLE HYPERFILTER regenerable or disposable cartridge



COD. 36-07-034/PP/CNG/1

Purification system	Hyperfilter x 2
Operating pressure (Standard)	200 bar / 250 bar
Operating pressure max. (PS)	420 bar
Processable air capacity (air inlet temperature in the filter 20° C at 300 bar)	3.050 m³

Data sheet three-phase electric motor 9 kW

Data sheet three-phase electric motor 11 kW

		SPECIFICA TECNICA MOTORE EL. Electric motor technical data sheet			Potenza/ Power (kW) 9	Poli/ Poles 2
		Data 25/06/2015			Rev. 0	
No	Descrizione/Description	Dati/Data			U.d.m.	
1	Codice Soga / ref.code	150779				
2	Modello / Motor type	MT1 132MB/2				
3	Descrizione / Description	Three-phase asynchronous motor 9kW 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	9	9	10,5	[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	Δ440-480	[V]	
11	Frequenza / Rated frequency	50	60	60	[Hz]	
12	Corrente nominale / Rated current	18,8/11	18,8/11	18,8	[A]	
13	Velocità nominale / Rated speed	2880	3450	3450	[min ⁻¹]	
14	Fattore di potenza / Power factor	0,87	0,87	0,87		
15	Coppia nominale motore/ Rated motor torque	29,8	24,9	29,1	[Nm]	
17	Corrente avviamento / Corrente nominale Starting current / Rated current	6,3			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 Posizione scatola morsettiera (motore con piedini)	IP55				
21	Terminal box position (motor with feet)	 A				
22	Terminali potenza / Power leads terminal	M6				
23	Peso / Weight	47			[kg]	
24	Cuscinetti /bearings	Drive end	6308			
		Non drive end	6308			
Note/remarks: Targa con logo Coltri Compressors.						

 soga [®]		SPECIFICA TECNICA MOTORE EL. <i>Electric motor technical data sheet</i>			Potenza/ Power (kW) 11 Data 25/06/2015	Poli/ Poles 2 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 Posizione scatola morsetteina (motore con piedini)	IP55				
21	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

		SPECIFICA TECNICA MOTORE EL. <i>Electric motor technical data sheet</i>			Potenza/ Power (kW) 15 Data 25/06/2015	Poli/ Poles 2 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 Posizione scatola morsettiere (motore con piedini)	IP55				
21	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.						

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