HIGH PRESSURE COMPRESSORS FOR NATURAL GAS REFUELLING OF VEHICLES FOR PRIVATE USE.

catalogue

CNG FILLING STATIONS

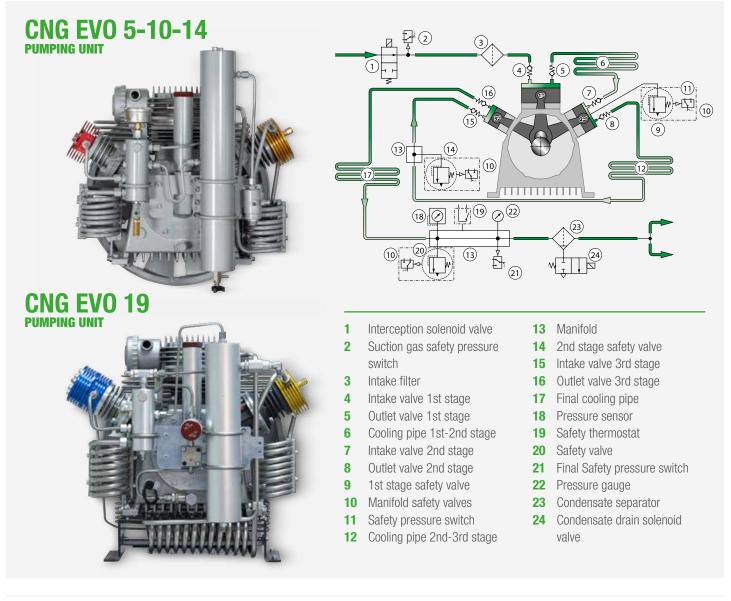




DESCRIPTION

The CNG EVO compressor series has been designed to re-compress natural gas and bio-methane which has already been treated and filtered. These compressors are designed to supply fuel to domestic or small fleets of vehicles powered by natural gas. The electronic control and command unit simplifies their use with an automatic stop function when the tank is full and state-of-the-art safety systems. The models are powered by a three-phase electric motor when equipped with the CNG EVO 10, CNG EVO 14 and CNG EVO 19 pumping units, however if equipped with the CNG EVO 5 pumping unit it can be powered by a single-phase or three-phase motor. Standard equipment includes a 4.5 m high-pressure flexible hose with direct-acting NGV1 connection refuelling nozzle suitable for filling pressures up to 250 bar





TECHNICAL DATA

	CNG EVO 5	CNG EVO 10	CNG EVO 14	CNG EVO 19
DRIVEN BY	SINGLE-THREE-PHASE	THREE-PHASE	THREE-PHASE	THREE-PHASE
	ELECTRIC MOTOR	ELECTRIC MOTOR	ELECTRIC MOTOR	ELECTRIC MOTOR
FILLING TIME	Tank 80 l (11.5 kg - 25.35 lb)	Tank 80 I (11.5 kg - 25.35 lb)	Tank 80 I (11.5 kg - 25.35 lb)	Tank 80 I (11.5 kg - 25.35 lb)
	0/200 bar: 3h	0/200 bar: 1h 15'	0/200 bar: 1h	0/200 bar: 48'
CHARGING RATE	85 l/min - 5 m³/h	170 l/min - 10 m³/h	266 l/min - 15.9 m³/h	330 l/min - 19.8 m³/h
	2.9 CFM FAD	5.9 CFM FAD	9.2 CFM FAD	11.6 CFM FAD
WORKING PRESSURE	200 - 250 bar			
	2900 - 3626 psig			
NET WEIGHT Approx.	160 kg - 353 lb	180 kg - 397 lb	180 kg - 397 lb	190 kg - 419 lb
NOISE Lwa	65 dB	70 dB	70 dB	70 dB
SUCTION PRESSURE MIN/MAX	17÷200 bar - 246÷2900 psig			

STANDARD







Refueling nozzle natural gas with direct action NGV1



Maxifilter Filtration



Filling hose 4.5 m - 177 ft length



Pressure switch Gas suction safety pressure switch in entrance

Autostop

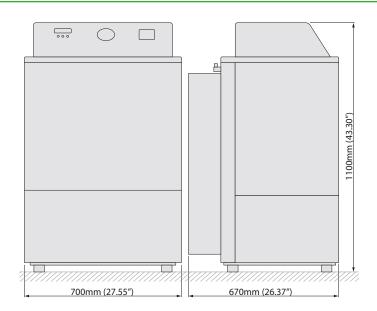
Digital display



Automatic discharge with fireplace (methane expulsion)

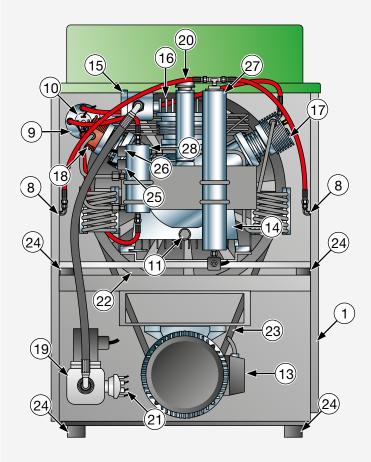
Oil pump (Only CNG EVO 19)

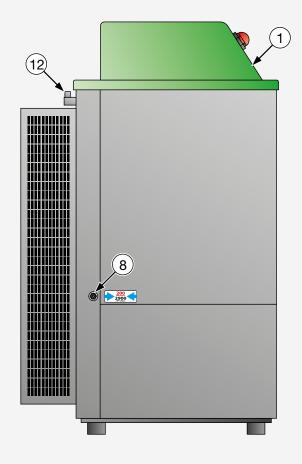
DIMENSIONS



MACHINE PARTS







1 Frame

- 2 Electronic control
- **3** ON pushbutton
- 4 Stop pushbutton
- **5** Reset pushbutton
- **6** Emergency pushbutton
- 7 ON/OFF selector
- 8 Refill hose connection
- 9 Manifold safety valves
- **10** Safety pressure switch
- **11** Oil discharge valves
- **12** Fireplace exhaust gas
- 13 Motor
- 14 Compressor

- **15** Gases filter
- 16 1st stage
- 17 2nd stage
- **18** 3rd stage
- **19** Interception solenoid valve
- **20** Oil filler plug
- 21 Suction gas safety pressure switch
- 22 Antistatic cooling fan
- 23 Antistatic belt
- 24 Anti-vibration device
- 25 Final Safety pressure switch
- 26 Safety thermostat
- 27 Condensate separator
- 28 Pressure sensor

CNG LINE: CNG HD

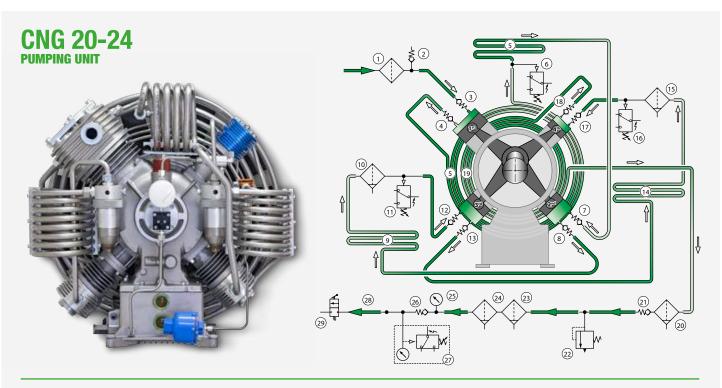


DESCRIPTION

Designed for medium-sized refuelling stations, the CNG HD series of compressors can re-compress up to 250 bar of natural gas and bio-methane, that has previously been treated and filtered. The four stages of compression and low rotation speed make it ideal for professional use. The remote control panel (5 metre cable) provides you with all the information to operate in maximum safety.

A choice of two pumping units is available (CNG 20 and CNG 24), with different flow rates, both powered by three-phase electric motors. Standard equipment includes a 4.5 m high-pressure flexible hose with direct-acting NGV1 connection refuelling nozzle suitable for filling pressures up to 250 bar The safety pressure switch for the natural gas inlet suction valve, autostop and double Hyperfilter system are always standard.





- 1 Intake filter
- 2 Safety outlet valve
- 3 Intake valve 1st stage
- 4 Outlet valve 1st stage
- **5** Cooling pipe 1st-2nd stage
- 6 Pressure switch 1st stage
- 7 Intake valve 2nd stage
- 8 Outlet valve 2nd stage
- **9** Cooling pipe 2nd-3rd stage
- **10** Condensate separator

- **11** Pressure switch 2nd stage
- 12 Intake valve 3rd stage
- 13 Outlet valve 3rd stage
- **14** Cooling pipe 3rd-4th stage
- **15** Condensate separator
- 16 Pressure switch 3rd stage
- **17** Intake valve 4th stage
- **18** Outlet valve 4th stage
- **19** Final cooling pipe
- **20** Condensate separator

- 21 Non return valve
- 22 Safety valve
- 23 Molecular sieve air filter
- 24 Molecular sieve air filter-active carbon
- 25 Pressure gauge
- 26 Pressure maintenance valve
- 27 Recharge Pressure switch
- 28 Recharge flex HP hose
- 29 Refill fitting

TECHNICAL DATA

	CNG 20	CNG 24
DRIVEN BY	THREE-PHASE ELECTRIC MOTOR	THREE-PHASE ELECTRIC MOTOR
FILLING TIME	Tank 80 I (11.5 kg - 25.35 lb) 0/200 bar : 48'	Tank 80 I (11.5 kg - 25.35 lb) 0/200 bar : 40'
CHARGING RATE	330 l/min - 20 m ³ /h - 11.8 CFM FAD	400 l/min - 24 m ³ /h - 14.1 CFM FAD
WORKING PRESSURE	200 - 250 bar - 2900 - 3626 psig	200 - 250 bar - 2900 - 3626 psig
NET WEIGHT Approx.	420 kg - 926 lb	420 kg - 926 lb
NOISE Lwa	70 dB	70 dB
SUCTION PRESSURE MIN/MAX	0.200 mbar - 0.0029 psig	0.200 mbar - 0.0029 psig

STANDARD



Pressure switch

Gas suction safety pressure switch in entrance



Autostop



Refueling nozzle natural gas with direct action NGV1



Hyperfilter Filtration

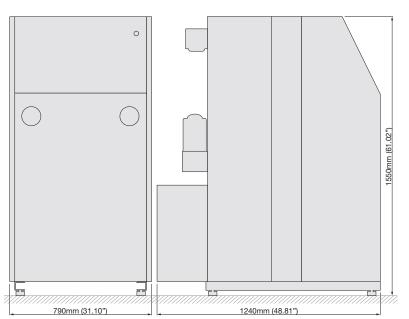


Filling hose 4.5 m - 177 ft length

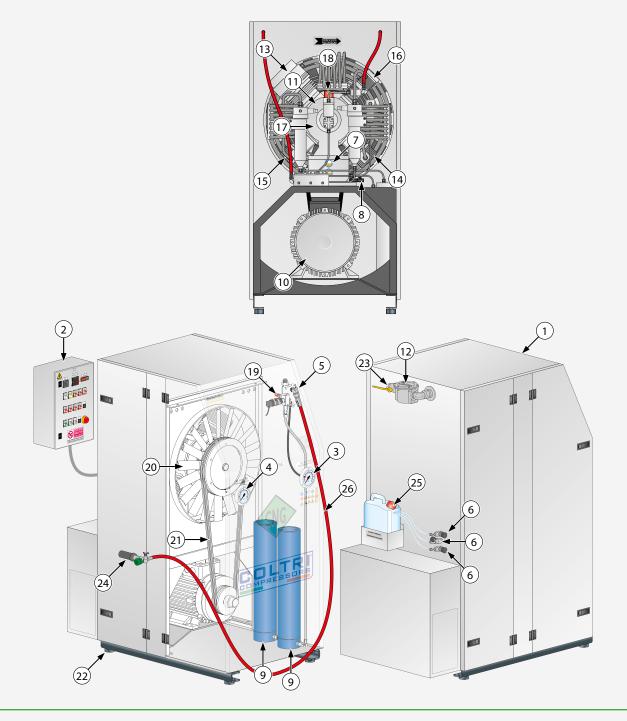


Oil pump





MACHINE PARTS



- 1 Frame
- 2 Control pannel
- **3** Gases pressure gauge
- 4 Oil pressure gauge
- **5** Refill HP hose connection
- 6 Condensate discharge valve
- 7 Oil level
- 8 Oil discharge valves
- 9 Molecular sieve gases filter
- 10 ATEX motor
- **11** Compressor
- **12** Gases filter
- **13** 1st stage

- 14 2nd stage
- 15 3rd stage
- 16 4th stage
- 17 Monobloc
- **18** Oil filler plug
- **19** Safety valve
- **20** Antistatic cooling fan
- 21 Antistatic belt
- 22 Anti-vibration device
- 23 Gas aspiration connector
- 24 Refill fitting
- 25 Condensate collection can
- 26 Refill HP hose

MAXIFILTER



ONLY MOLECULAR SIEVE

CODE

SC000440/PP/CNG/1 FOR CNG 5/10/14/19

CAPS & DISCS KIT FOR MAXIFILTER (CNG EVO 5-10-14-19)



CODE

13-05-0601/R - 6 pieces kit

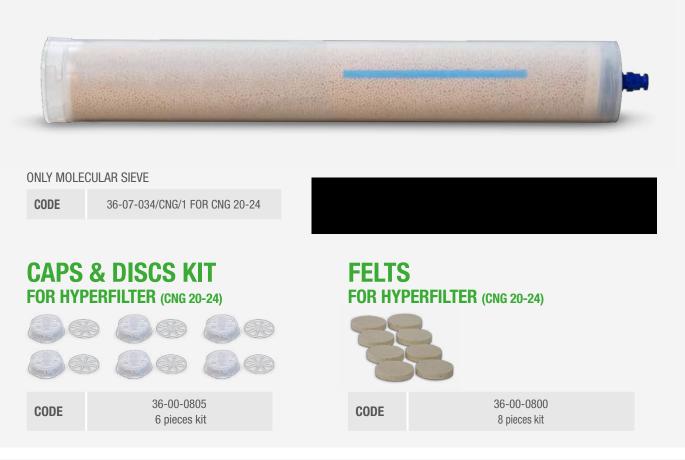
FELTS FOR MAXIFILTER (CNG EVO 5-10-14-19)



CODE

13-00-0800 - 6 pieces kit

HYPERFILTER



CNG HOSE REELER ____



CODE

SC00403 FOR CNG 5/10/14/19

4.5 M - 117 FT HOSE



CODE 24-06-020 FOR

CNG 5/10/14/19

REFUELING NOZZLE ____



NGV1 INTERNATIONAL TK4

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ADATTATORE/TK4

OIL FILTER

CODE

MOLECULAR SIEVE



MOLECULAR SIEVE

COLTRI

36-06-006

FOR CNG 20-24



SYNTHETIC COLTRI OIL 157.



- Fully synthetic oil with high viscosity index
- Excellent performance at high and low temperature

CODE

SC00079511

CODE

SC000380/CNG 1 |

AEROTECNICA COLTRI® S.p.A.

Via dei Colli Storici 177 25015 Desenzano del Garda Brescia - ITALY

Tel: +39.030.9910301 +39.030.9910297 Fax: +39.030.9910283

www.coltri.com info@coltri.com

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