

CNG SERIES

Delivery

m³h 3 - 10 - 14 - 18 - 27 - 36

Filling type

P30 (200 BAR) / P36 (250 BAR)

MAX Pressure

BAR 350 / PSI 5000



Quality system certified
to iso 9001

All technical data may be changed

MADE IN ITALY BY NARDI COMPRESSORI

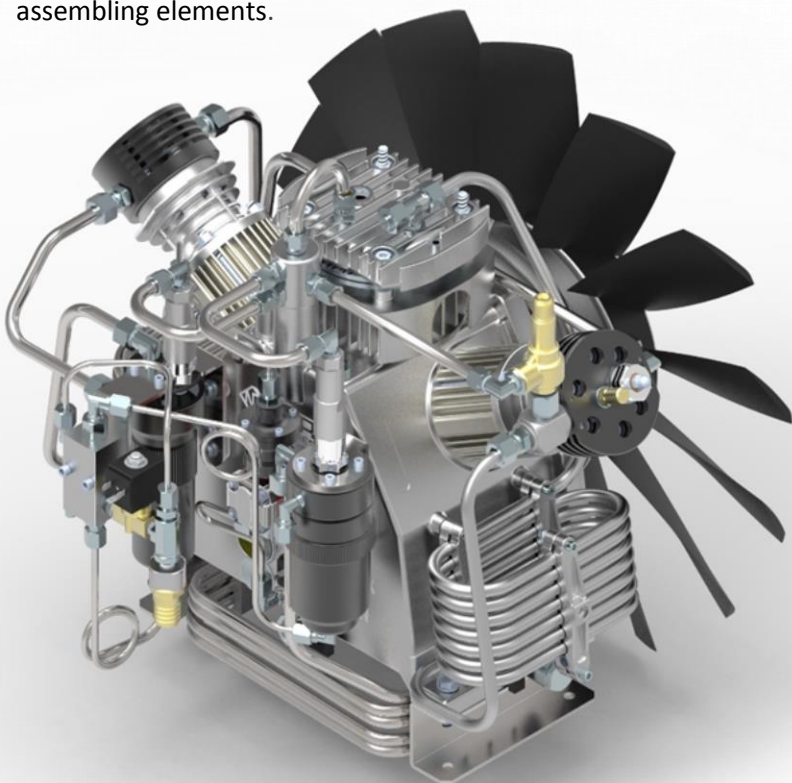
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CNG SERIES

CNG SERIES is a product line that includes several compressors made by NARDI COMPRESSORI, designed for the refueling of vehicles that run on natural gas. CNG-5.0 is an ATEX Certified compressor that sucks natural gas from the domestic natural gas pipeline and compresses it to the required pressure to refuel vehicles directly or to place the compressed gas in high pressure storage cylinders.

QUALITY OF COMPRESSOR BLOCK

The compressor block or pump unit is the heart of the PACIFIC compressors and it is a critical component in which NARDI has put particular attention. It has features that make it unique in the world. Among these, the use of light alloys with high thermal efficiency, such as aluminum alloys that are also used for the construction of the cylinders. The pump unit does not undergo any paint coating to enhance the heat dissipation of its low corrosion assembling elements.



The bearings of the crankshaft have rollers, extremely robust and made in Europe which guarantee a long life of the compressor. An oil pump provides a constant lubrication of the inner workings of the block with oil

cleaned of impurities by a filter and by a magnet which catches any metals present in the lubricating oil.

The compressed air cooling is obtained by inter-stage stainless steel cooling coils.

EFFICIENCY OF THE FRAME

The sound insulated frame or cabinet is constructed with panels that are designed to work in harsh conditions and to withstand harsh environments. In addition to this the sound absorbing internal lining of the panels make the cabinet very quiet. The large wing-shaped fan blades guarantee not only a very low sound pressure but also a highly efficient ventilation.

CONTROL AND ELECTRONICS

For proper operation of the compressor, NARDI has designed a new electronic control panel. This new system, controls all the key points as temperature, oil level, current consumption, inlet pressure, outlet pressure and manages all the valves and solenoid valves. In addition to this, the electronic control panel handles the service schedule and monitors the status of the failures, guaranteeing safety. For direct refueling of vehicles, it monitors the external temperature and regulates the delivery pressure so as to balance the pressure of the tank of the vehicle due to an increase in temperature.

SIMPLE and ECOLOGIC

Every single aspect of these compressors has been designed to make it EASY TO USE. In fact, with very few moves the operator can refuel a vehicle safely: insert the nozzle into the vehicle's gas tank, click on the start button and the rest is done automatically by the compressor.

Once the maximum pressure is reached or when pressing the stop button the compressor depressurizes the filling hose and nozzle. Then the nozzle can be removed from the vehicle to conclude the refueling operation.

During depressurization, the compressed gas is reabsorbed by the compressor and then placed in an expansion tank which makes it a more ecologic solution as the gas is not vented into the environment and wasted but reutilized the next time the compressor is used.

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- 1 Compressor Block
- 2 3-Phase Electric Motor
- 3 Sound Absorbing Panels
- 4 Electronic Control Panel
- 5 Compressor Pressure Gauge
- 6 Suction Control Valve



- 7 Connection for direct refueling to vehicle
- 8 System to switch from direct refueling to gas storage
- 9 Condensate Drain

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NARDI COMPRESSORI CNG SERIES



Compressor Model	Gas flow		Intake Pressure	Stage	Revolution	Power	Noise	Weight		Dimensions
Modello Compressore	Portata gas		Pres. aspirazione	Stadi	Giri	Motore	Rumore	Peso		Dimensioni
Type	l/min.	m ³ /h	MBar	N°	Rpm	HP - kW	dB	Kg	Lbs	cm (LxWxH)
CNG - 1.0	50	3	10 - 500	3	550	3 - 2,2	62	205	450	75 x 85 x 110
CNG - 2.8	170	10	20 - 500	3	1300	5,5 - 4,0	65	215	475	75 x 85 x 110
CNG - 3.8	233	14	20 - 500	3	1300	7,5 - 5,5	65	230	510	75 x 85 x 110
CNG - 5.0	300	18	50 - 650*	3	1550	10 - 7,5	65	275	610	80 x 110 x 140
CNG - 7.5	450	27	50 - 650	3	1150	15 - 11,0	68	415	915	83 x 150 x 174
CNG - 10.0	600	36	50 - 650	3	1450	20 - 15,0	68	430	958	83 x 150 x 174

* 20 mbar inlet pressure under request

Gas Storage Model	Cylinders	Volume	Max Pressure		Standard	Weight		Dimensions
Modello Stoccaggio	Bombole	Volume	Pressione massima		Norma	Peso		Dimensioni
Type	N°	Litri	BAR	PSI	Type	Kg	Lbs	cm (LxWxH)
CNG-5.0 STOCK 2 CYLINDERS	2	100	300	4350	PED	205	452	72 x 68 x 185
CNG-10.0 STOCK 2 CYLINDERS	2	100	300	4350	PED	215	475	72 x 68 x 185

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SUBJECT TO TECHNICAL MODIFICATIONS

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