



CNG COMPRESSORS PRODUCT LINE

WE WORK
TO MAKE
ENERGY
**A TAILOR MADE
SOLUTION**

A SIME COMPANY

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GI&E has developed its own standardized line of CNG Modules based on the use of its own Reciprocating Vertical Compressors that have fully loaded cylinders specifically designed for CNG refueling (up to 250 bar).

The innovative design allows an important reduction in vibration improving reliability and reducing Noise Levels even in heavy running conditions (>1000 RPM).

CNG Modules are designed to offer the best solution in terms of Reliability and Performances, allowing both Energy Efficiency (= **low operating costs**) and Easy Plant Erection (= **low cost of building and maintenance**).



At GI&E, we have developed different standardized solutions based on flow requirement:

- **CS line**
- **CM line**
- **CL line**



CS LINE

GI&E COMPRESSOR TYPE	1 BVTN • n° cylinder : 1 • n° stages : 1-2
SUCTION PRESSURE	20 – 100 bar
MAX OUTPUT PRESSURE	250 – 310 bar
DIMENSIONS	H 3300 / L 2600 / W 2100 [mm]
WEIGHT	4.500 kg



CM LINE

GI&E COMPRESSOR TYPE	2BVTN • n° cylinder : 3-4 • n° stages : 2-3-4
SUCTION PRESSURE	0,5 – 70 bar
MAX OUTPUT PRESSURE	250 – 310 bar
DIMENSIONS	H 3700 / L 4000 / W 2200 [mm]
WEIGHT	14.000 kg



CL LINE

GI&E COMPRESSOR TYPE	3BVTN and 4BVTN • n° Cylinder : 3-4 • n° Stages : 3-4
SUCTION PRESSURE	1,5 – 36 bar
MAX OUTPUT PRESSURE	250 – 310 bar
DIMENSIONS	H 3800 / L 6200 / W 2400 [mm]
WEIGHT	18.000 kg



MAIN FEATURES

Forced compressor lubrication: pump driven by electric motor, with the prelubrication function

Cylinder cooling: water-glycol solution, external exchanger cooling loop

Drive motor: electric Exd-e type, inverter or soft start are optionals

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Transmission: direct or with gear box

Gas cooling: direct with radiator or closed circuit liquid and external radiator

Control panel: PLC with touch screen interface



Local Gauge Panel for an immediate operating parameters monitoring.



The **Oil Unit** is controlled by PLC and it is equipped with heater and pre-lube pump. The temperature of the cooling water is controlled by thermostat.

Both oil and water systems allow the best operation considering environmental conditions and compressor speed.



Cylinders Rack with a capacity of 1200 liters or larger. 1 to 3 levels of pressure managed by the priority panel.



Our compression unit can be supplied also **without enclosure**.

The gas can also be cooled with heat exchangers **gas-water**.

Remote Control Panel with touch screen interface.

Local Control panel “explosion proof” as option.



The enclosure is designed for **low noise levels** for installation also in high-densely populated areas

All models can be shipped by **container**.

In our standard version the gas cooling media is air. A limited number standardized **Air Cooler** configurations is used for all the compressor types.

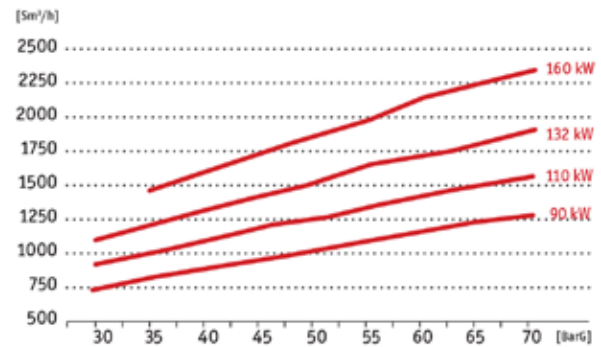
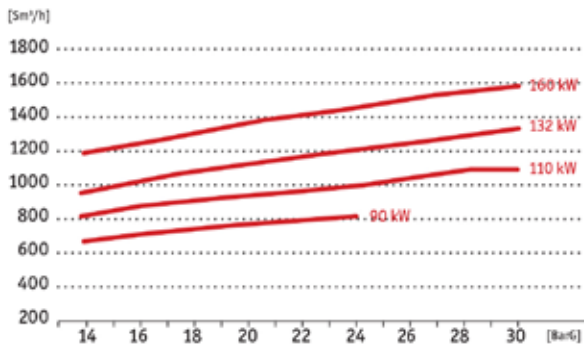
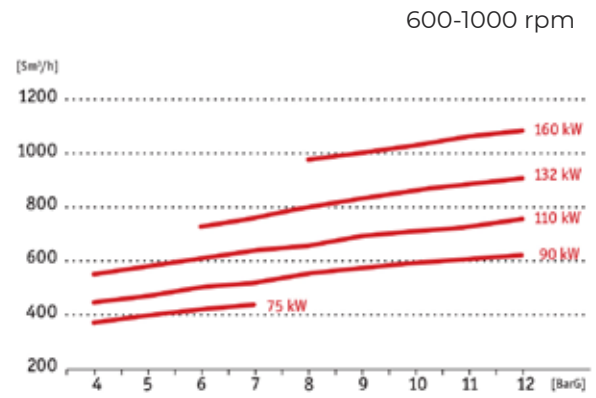
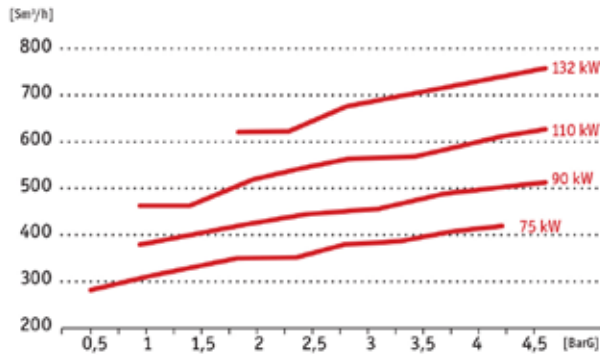
The air-cooler is mounted using separated section bundles and components can be individually replaced.



Blowdown Tank for no-load starting of the compressor.



PERFORMANCES (2BVTN)



TESTING

All units are tested for natural gas in our Test bench.

A Test Report containing performances and parameters of the unit is always provided. Customer can always be present at tests.



AFTER SALES

Gi&E Product Service Organization can support the Customer worldwide through the entire lifecycle of the product providing:

- Field Service Installation and Commissioning support
- On call troubleshooting
- Original Spare Parts Supply
- Site Maintenance and Repair
"On Call " or by Contractual Service Agreement (CSA),
- Conversions, Modifications and Upgrades.

We are at Customer disposal for any of the above services.



TYPICAL INSTALLATIONS



Pressure reduction and truck refueling station
Mexico



Self Service Station
Spain



Daughter Station
China



Fuel Station
Italy

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