CNG Fueling Stations

Medium Size Package for NGV Fueling Stations

Havayar company has started its activity since July 1948 in order to manufacture industrial compressors and supplementary air equipments in Iran. It’s reached to remarkable improvement in a short time and achieved the high quality of equipments by the help of internal and external consultant.

Havayar company according to its educational and practical capabilities in manufacturing industrial compressor (Scren) under licence of Atlas source and CNC compressors with the cooperation of Kungsholm company.

Havayar company is in blow:
1- Customer satisfaction.
2- Continuous cost improvement.

Havayar company is succeeded to receive new award, quality certificate from ISO 9001 company in order to apply aforementioned objects.

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What You Need To Know

Compressed Natural Gas (CNG) is a readily available alternative to gasoline in cars by compressing natural gas to less than 1% of its volume at atmospheric pressure. Consisting mainly of methane, CNG is colorless, odorless and tasteless. It’s drawn from domestically available gas with or in conjunction with crude oil production. It is essentially the same as natural gas that is delivered to most homes to use for cooking, heating water and turned on heat. To use in vehicles, the natural gas is compressed to 3000 or 3600 psi and pumped into the vehicle fuel tanks for consumption.

CNG is so clean fuel that if you look into the exhaust pipe of CNG vehicle it is extremely clear with little or no residue, unlike diesel which pump the black smoke into the air.

Our compact, lubricated, non-cored opposed, multi-stage, non-pressurizing compressors use interchangeable components between compressor models wherever possible. Our engineering team of experts have used modular design principles to make the availability of parts and maximize your CNG refueling operation's longevity.

CONCEPT

Compressor unit, Storage, Priority panel, Dispenser, Control cabinet as all units are allocated in a secure enclosure which requires total 44.42m². Compact a complete CNG refueling station requires only to be connected with CNG pipeline and with the power cables.

- Compact design can be installed at small area,
- Easy to installation and friendly control system.
- Low noise and low vibration design.
- Low cost of total package.

INSTALLATION AND CONNECTION

Suction Line 2” Piping
Discharge Line Dispenser Hose (Dual Hoses)
Vent Connection 1” Line
Instrument CNG or Air
Control Unit 220V, Monitoring, Typhoons
Power Unit Separated line
Installation Anchor bolts on the concrete
Working Temp. -30°F to +155°F
 Noise level < 65 dBA @ 1 meter

Main Parts Description

PACKAGED

Size: 3400mm(L) x 1500mm(W) x 3000 mm(H)
Weight: 5000 Kg
1. Oil Heater, Vibration Switch, Priority Switch
2. Pressure Transmitter at Each Stage and Lubricator Line
3. Temperature Transmitter at Each Stage and Lubricator Line
4. Safety Valve at Each Stage and Slow Down Valve

COMPRESSOR

COMPRESSION DESIGN

AP: 0.16 standard heavy-duty type
- Volume output type design
- Low noise and low vibration
- Easy to maintenance
- Heavy duty design

MAIN COMPONENTS

1. CNG Air Compressor with Motor
2. Gas Suction Filter
3. Storage
4. Priority Trip Panel
5. Dispenser – Dual hoses
6. Blow Down Valve
7. Heat Exchanger
8. Control Gauge Panel and Local Switch Box
9. Emergency Stop Button
10. Explosion-proof lighting (Optional)
11. Gas Detector
12. Flame Detector

Other options, according to customer’s request.

TECHNICAL DATA

Driver Motor Driver
Stage/Type 3 – Stages / Horizontal
Suction Pressure 60 – 250psig
Capacity 115 – 325 ml/hr
Discharge Pressure 250 bar
Lubrication Oil Pump
Cooling Air cooled Heat Exchanger
Through Belt Drives, Anti Static

TECHNICAL FEATURES

- 1st Stage
- 2nd Stage
- 3rd Stage
- 4th Stage
- Oil Pump
- Oil Filter