



Enriching Lives

KIRLOSKAR

CNG Packages & Solutions



Corporate Office: Hadapsar, Pune.

Factory/Works: Saswad, Pune.

KIRLOSKAR Group

Kirloskar Group is one of the leading engineering conglomerates in India. It has more than hundred years of proven expertise in specialist areas of Gas Solutions, Cooling Solutions, Power Solutions, Water Solutions, Air Solutions & Environmental Protection with a Portfolio of world class industrial products and turnkey solutions. Kirloskar holds the repute in the industry for its good business values and excellent customer satisfaction.



IMS Certified Company

ISO 9001
ISO 14001
BS OHSAS 18001

KIRLOSKAR PNEUMATIC CO. LTD. (KPCL)

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Our Business Units

● Process Gas Division

- Gas Compression System (Upstream, Midstream, Downstream Sector)
- CNG Solutions for NGV Applications (Distribution Sector)

● Air-conditioning & Refrigeration Division

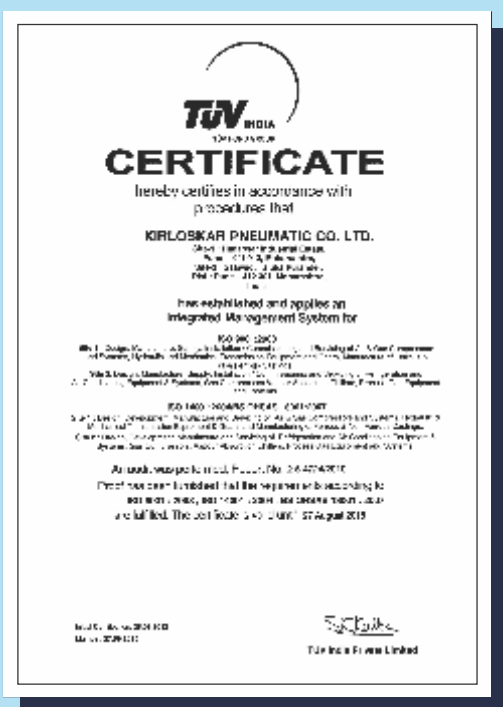
- Refrigeration System (Refineries, Petrochemicals, Chemicals, Fertilisers...)
- Marine HVACR
- Vapour Absorption System
- Compressors and Packages for Industrial Refrigeration

● ACD - Air Compressor Division

● TRM - Transmission Division

Awards

- 'Employer Branding' Award
- CII 'Best Kaizen' Award
- CII Exim Bank Award for 'Strong Commitment Towards Excellence'
- CII 'Excellence in Energy Management' Award





Training:

- Special session for the operation and maintenance staff (on site & Class room) which covers the entire gamut from basic design philosophy up to the operation / maintenance / troubleshooting

After Market Support:

The range of available services includes:

- 24 x 7 Operation and Maintenance involving parts, overhaul and repairs
- Spare Parts
- Technical support
- Service Network across the country

Capabilities

System Design:

- Competent and trained team of dedicated engineers providing comprehensive in-house systems solutions
- Innovative and pioneering R&D
- Capability of detailed engineering and conformance with standards like API, IS, BS, ASME, OSHA, NACE, TEMA, OISD etc.
- Use of latest software like HTRI for heat exchanger design, CAESAR-II for pipe stress analysis and software for torsion, vibration, pulsation analysis, PDS/PDMS and UNISIM Process Simulation Software..

Experience with Reputed International Consultants/Inspection Agencies:

- PDIL, Mecon, Woodgroup Kenny, Tractabel, Engineers India Ltd. (EIL), Technip, Bechtel, UHDE, Aker Kvaerner, Lurgi, Technimont, Linde, ICB, Chemtex, Jacobs H&G, Toyo, Llyods Registrar, BV, DNV...

Procurement:

- Team of professionals to procure system components with adherence to delivery schedules
- Dedicated sub-vendors for assured quality

Manufacturing:

- Dedicated infrastructure to support all the manufacturing processes
- In-house foundry
- Sophisticated testing labs
- CNC machining centre
- Stress relieving furnances
- Testing facilities

Quality Assurance:

- Dedicated team of QC engineers certified for various NDT examinations and stringent quality control as per pre-defined QAP for each project.
- Elaborate Quality Dossier for each project.

Packaging:

- Capability to assemble at factory as well as at site
- Supplied over 1000 packages in India and abroad
- Completely factory wired ready to install Gas Compression Package & CNG Packages.

Erection:

- Ingenious and committed personnel specialised in Avenues like mechanical, electrical and instrumentation striving towards completion of the projects within stipulated time

Commissioning:

- Specialised, trained, dedicated commissioning engineers

CNG PACKAGE

- **Compressor** - Balanced Opposed, Reciprocating Type
- **Construction** - Compact, Modular
- **Suction Pressure** - 0.5 to 65 bar
- **Discharge Pressure** - 250 bar
- **Low Power Consumption**

Compressor

Reciprocating

- ISO 13631 (API 11 P) Compliant

Heat Exchangers

Air Cooled

Compact box header construction with carbon steel tubes & Aluminium fins.

Water Cooled

Shell & Tube type exchanger designed & manufactured as per TEMA / Client requirement

Process Gas Piping

Designed, fabricated & tested as per ASME B 31.3

High pressure tubing

Blow-down vessel & pulsation suppression devices:

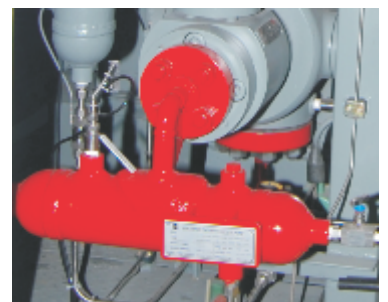
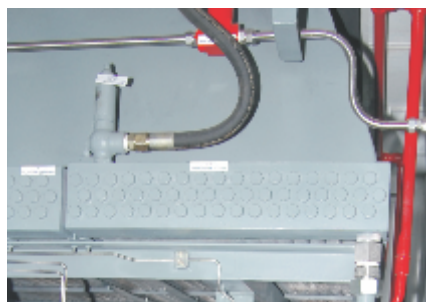
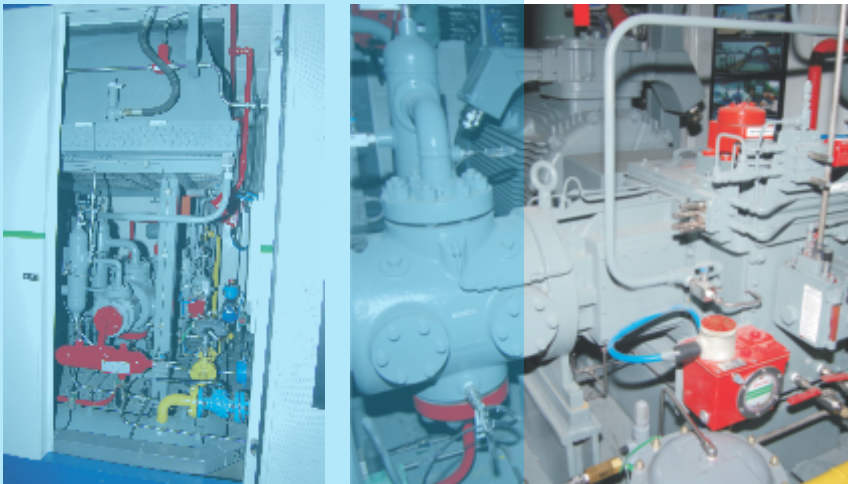
Designed as per ASME section VIII, div. 1 latest edition

Safety Devices

- High temperature trip at each stage discharge
- High pressure trip at each stage discharge
- No flow Switch for Low Oil Flow to cylinders
- Frame Low lube Oil pressure trip
- Trip for excess Vibration (Optional)
- Gas detector (LEL detectors) (Optional)
- Flame detector (UV) (Optional)
- CO₂ flooding system (Optional)



▲ Motor Driven Compressor Pkg.



- **Prime Mover** - Motor/Engine Driven
- **Enclosure** - Open Type / Acoustic
- **Variable Suction Pressure** - 14 to 200 bar
- **Flow** - 300 to 3500 SCM/H
- **Controls** - PLC Based Control Panel
for Auto Operation



Engine Driven Compressor Pkg. ▲

Driver

Electric Motor

- Flame Proof / Increased safety / Non sparking
- Squirrel Cage Induction Type, IP 55
- Statutory authority approvals

Indian : CMRI / CCOE

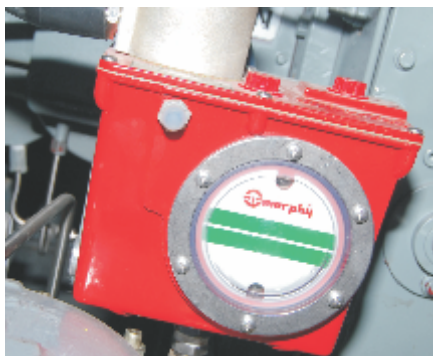
International: BASEEFA / ATEX CE

Gas Engine: As per ISO 3046 / BS 5514.

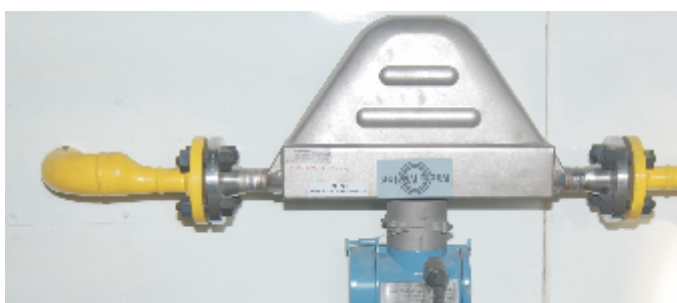
Safety relief valves at blow down & each stage discharge

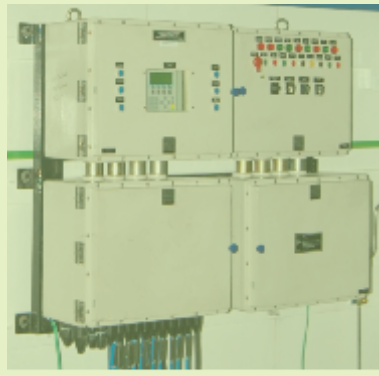
Duplex gas suction & single/twin discharge filters (Optional)

Flow meters at suction & discharge (Optional)



SS Enclosure ▲





Control Panel

Basic features:

- Flame proof (As per IS2148)
- Frame Mounted
- Display : Alpha numeric / graphical
- Compact size
- Degree of protection (IP 55)
- Remote Monitoring System

Optional features:

- PLC based Control Panel
(Our PLC is as per IEC 80 Standards)
- MMI with touch screen and color display upto 10"
- SCADA
- Redundancy of power module, CPU, I/O's & Communication Module



Priority Panel

3 lines, 5 lines & 9 lines priority panel can be provided in two configurations

- Electronic type
- Mechanical type

Testing

- Dedicated Test Set Up for CNG Compressor Packages for full load test
- No Load Mechanical Run Test for Motor driven & Gas Engine driven Compressor packages.
- Full Load test of Motor driven & Gas Engine driven Compressor packages as per client requirement.



◀ **Dispensers for car(Twin Hose) & Bus (Single Hose)-Optional**



◀ **High Pressure cylinder storage cascades**

Some of our Indian Significant Installations

MNGL, Pune
(Various type - 750, 1200 SCMH - Motor Driven, Gas Engine Driven)



IGL Millennium Park, New Delhi
(6 Packages - one of the largest fleet of NGV Passenger buses in the world)



BGL, Hyderabad
(1900 SCMH)

IGL, Delhi
(2400 SCMH)



Adani, Chandola
(Various type - 750, 1200 SCMH
Motor Driven, Gas Engine Driven)

NIPCO PLC, NIGERIA
(3500 SCMH- Gas Engine Driven)



International Presence

● Compressor Installations 30,000+ Compressors, 40 Countries

▲ Offices/ Dealers/ Representative



Refrigeration | Air | Gas > Compressors Packages & Systems

Plants : Hadapsar, Saswad, Nashik
Offices (India) : Hadapsar, Mumbai, Ahmedabad, Delhi, Lucknow, Chennai, Hyderabad, Bangalore, Kolkata
Dealer's (India) : Pune, Mumbai, Ahmedabad, Baroda, Vapi, Delhi, Agra, Lucknow, Chandigarh, Jaipur, Chennai, Secunderabad, Kochi, Bangalore, Kolkata
Offices / Representatives (Overseas) : Dubai, Saudi-Arabia, Oman, Egypt, Iraq, Thailand, Malaysia, Vietnam, Philippines, Indonesia, Mynmar, Australia, Turkey, Netherlands, Shrilanka, Nepal, Bangladesh, South Africa, Nigeria, Abu-Dhabi, Kuwait, Italy, Russia

Contact : International Marketing : acrpgmktg@kpcl.net
Refrigeration Systems : acrref@kpcl.net
Gas Compression Systems / CNG Pkgs. : pgs@kpcl.net



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www.kirloskarkpcl.com



ISO 9001
ISO 14001
BS OHSAS 18001



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