

**FULLY AIR COOLED
ZERO WATER
CNG HYDRAULIC BOOSTERS and more...**

"We are changing the way on-line compressors and boosters are operated and maintained."



KAL Energy is an Engineering, Manufacturing and Packaging Company focused on offering Gas Compression solutions for CGD, energy, infrastructure and other industries.

KAL combines the world's best Compression technology and package engineering expertise to offer hydraulic boosters, on line CNG compression packages and its spare parts.

The company is professionally managed by domain experts in the field of Air & Gas Compression with decades of experience. It combines more than a century of KAL management, engineering, packaging, instrumentation and O&M expertise.

KAL Energy offers Hydraulic Boosters, CNG Compressor Packages, Accessories, OEM Spare Parts & technical service support for uninterrupted operation.

OUR PRODUCTS AND SERVICES

Fully air-cooled Hydraulic Boosters
On-line CNG Compressor packages
Design and Detailed Engineering Services
OEM Spare Parts for all compressors and Boosters
Operation and Maintenance Services

UNIQUE ADVANTAGES

- 40% Low life cycle cost saving with imported unique cylinder block
- 2X Faster Decanting in just 45 minutes
- IoT Enabled for Remote Monitoring
- Fully air cooled design with direct cooling of gas and hydraulic oil
- No Cooling water circuits reduce rotating equipment and increase reliability
- Low maintenance by eliminating water pump and reducing number of fans and coolers
- Aesthetically designed Acoustic Canopy; silent operation - Noise level below 75 dB A

IoT ENABLED PACKAGES FOR REMOTE MONITORING

Our customers can monitor all operational parameters such as pressure, temperature, oil level remotely on their mobile phone. They can also watch online trends of critical parameters like pressure, temperature, etc. Moreover, they can predict if there are any abnormalities in the operating parameters. It will give alerts when there is a trip or an alarm; when machine exceeds its set parameters. Above all, it will show when maintenance is due; oil change or filter replacement, etc. and give alerts when the PM is due.



HYDRAULIC OPERATION

The Booster is driven hydraulically and the hydraulic pump and controls are chosen from internationally renowned vendors. The hydraulic oil is stored in a tank and is drawn by single piston pump powered by electric motor and alternatively sent, by means of main distributor to the oil chambers of the pumping units. The hydraulic circuit includes all instrumentation for operational safety.

GAS CIRCUIT

The natural gas is taken from the inlet line with pressure values between 30 bar -230 bar. The inlet pressure is controlled by a pressure transmitter in order to operate the compressor within certain operational parameters. All the gas circuits are also installed with safety and operational instrument controls.



DESIGN AND SAFETY STANDARD

The packages are designed to meet international safety standards. All our packages are equipped with fire and gas detection, and CO2 flooding systems to ensure complete safety. The system is built and designed using the international engineering standards of ISO, API and ASME.



CANOPY

The technologically advanced canopy is precisely designed, fabricated using incomparable quality raw material and innovative coating process. It is widely appreciated amongst our customers for its aesthetics, low noise level, robust construction, uniform air distribution, easy maintenance access and industrially approved design.

OPERATION AND MAINTENANCE

KAL Energy offers the best solution for Operation and Maintenance along with the supply of equipment, backed up by 24 x 7 service support. All equipment and instruments are chosen from the world's most renowned manufacturers with a worldwide network for spares and services, to meet any immediate need of local support.

INSTRUMENTATION

The equipment and instruments are chosen from amongst the world's best. The industrial grade PLC panel comes with an explosion proof enclosure. All the packages are equipped with parameter trending, remote connectivity and mobile alerts through remote monitoring SCADA/GSM modules which make operation and maintenance all the more easy and simple.

SPARE PARTS AND SERVICES

KAL Energy is always fully equipped to offer genuine OEM Spare Parts for Air & Gas compressors and technical service support 24 x 7 to meet the client's requirement. Our strength lies in our global technology partnerships with OEMs and people who are committed to producing the packages with international quality and standards. Our reward lies in the satisfaction of our customers. We strive to deliver under the most challenging conditions and ensure that we meet our commitments on time, every time.



RANGE OF HYDRAULIC BOOSTERS

MODEL	RATING*	DISCHARGE PRESSURE	SUCTION PRESSURE	FLOW RATE*
KE- AI- 22	22 kW	250 Bar	30- 230 Bar	250 SCMH
KE- AI- 30	30 kW	250 Bar	30- 230 Bar	300 SCMH
KE- AI- 37	37 kW	250 Bar	30- 230 Bar	350 SCMH

* Designed to meet customer requirement of flow rate and pressure

TURNKEY SOLUTION

Our turnkey offer with compact design not only gives you a one stop solution, but also a minimum CAPEX and OPEX for the operator or any institution. With three decades of experience of our management team in oil and gas, executing dozens of complex brown field EPC Gas compression with recip, centrifugal and screw projects in record time; we offer a complete simplified solution for a fuelling station with scope of CNG compressor, Hydraulic Boosters, dispensers, cascades, pre- engineered sheds and all utility support systems.



