

Renewable Energy, Packaged Boiler and Plumbing Solutions

E N E R G Y



FJ ENERGY
SOLUTIONS

A member of Faisal Jassim Group



FJ Energy Solutions is a member of FJ Group, a renowned entity in the GCC for quality MEP products, equipment and services for the building service industry.

FJ energy Solutions, a partner in empowering your future Journey, is established with the conviction of providing efficient and sustainable steam and hot water solutions for domestic, commercial, industrial applications, sourcing renewable, conventional and innovative energies from solar, gas, oil& electricity. Expertise in Photovoltaic solutions has enriched our wide range of product portfolio.

We are partnered with globally renowned brands, the pioneers in providing DHW for various applications as well as for PV solutions.

Our team is lead by qualified and experienced engineers capable of providing expertise solutions in selection and sizing of equipment based on project specifications as well as bespoke designs for unique requirements. The team is supported by highly trained and experienced technicians for efficient after sales services.

Turnkey Solutions:



Design Support

Expertise in design of hot water solution and equipment selection based on the application. Also, we provide bespoke solutions as per the requirement.



Installation, Testing & Commissioning

Technical support during execution and dedicated team of experienced technicians for installation, testing and commissioning.



One Source Solution

A complete turn key solution from one supplier for the supply of steam and hot water equipment and plumbing products.



AMC's & Aftermarket services

Our service technicians are well trained and are capable of trouble shooting maintenance issues efficiently in a minimum period of time. We also undertake annual maintenance contract for our solutions.

PV Solutions (Photovoltaic System)

Turnkey Solutions:

We provide turnkey solutions which includes design , supply ,site management , Installation, testing and commissioning of on-grid photovoltaic systems. The solar panels are in compliance to IEC61215 & 61730, Quality management system to ISO9001:2015, Environment management system to IS014001:2015 , Occupational health & management systems OHSAS18001:2001 and IEC TS 62941:2016 for Terrestrial photovoltaic modules. Inverters are high yield 2 –MPPTs with max. efficiency 98.4%



Solar Water Heating Solutions



- More than 40 years of experience, continuously upgraded technology, creativity, flexibility, and technical know-how have granted RADIANT an innovative strength in manufacturing.
- Thermosyphonic and forced systems to cater to all type of solar heating applications for villas, residential and commercial buildings.
- Domestic and Commercial Calorifiers.
- Comply with Estidama (sustainability) requirements conceived by Abu Dhabi Urban Planning Council and to the criteria and specifications framed for Green Buildings by Dubai Municipality.
- International approvals and certifications such as KEY MARK/TUV/EN12975.

Heat Pumps

Glen
Dimplex
Deutschland



Dimplex

Dimplex North America Limited is the world leader in electric heating, offering a wide range of residential, commercial and industrial products. The company's commitment to innovation has fostered outstanding product development and design excellence.

Dimplex heat pumps are being implemented in buildings in increasing numbers for heating and domestic hot water preparation. This is because the future belongs to environmentally -friendly heating systems. Heat pumps have extremely low operating costs because they draw the majority of the required energy from the environment and are not dependent on oil or gas for operation.

Water-to-water and air to water heat pumps extract the required heat from the tempered ground water, chiller or ambient air. A highly effective heat pump heating system can be achieved by Dimplex heat pumps.



Packaged Boiler Solutions



The Power of Total Integration

Only Cleaver-Brooks can offer complete boiler systems, from fuel inlet to stack outlet that are completely designed, engineered, manufactured and integrated by one company. If you're looking for the best-quality boiler systems with the lowest emissions and highest efficiencies, you're looking for Cleaver-Brooks.

A Long-Standing Tradition

The company was founded in 1929 by John C. Cleaver, manufacturing small, portable boilers. Cleaver and Raymond Brooks formed Cleaver-Brooks in 1931 and began producing the world's first packaged boiler. Through a commitment to research and development and a sound acquisition strategy, today the company is the sole provider of integrated boiler room solutions and is a leading manufacturer of boiler room equipment across all commercial, institutional and industrial markets.

Product Development

When you're the industry leader, the only way to stay there is to continuously innovate and push the boundaries of what people think is possible. At our dedicated product development center, we continue to develop breakthrough emissions and efficiency technologies for tomorrow's boilers and burners.

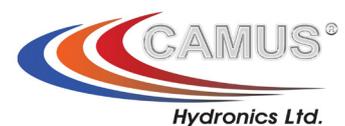
Cleaver Brooks the world's leading manufacturer of packaged high pressure and low-pressure commercial and industrial boilers and boiler room systems, for applications ranging from process industries through hospitals and hotel sectors. Packaged boilers are approved by Underwriters Laboratory and are built to comply with Factory Mutual and ASME Boiler Code.

High efficiency low emission solutions for steam and hot water generation.

- Boilers: Fire Tube , Water Tube, Condensing and Electric
- Burners: Compatible for oil, gas and alternative fuels
- Controls: Compatible for all types of communications protocols
- Heat Recovery: For better efficiency and sustainability



Condensing Boiler Solutions



CAMUS® Hydronics Ltd. is a manufacturer of an extensive line of gas fired high efficiency copper tube and stainless steel boilers for residential, light commercial, commercial and industrial applications. It operates out of a modern manufacturing facility complete with a state of the art testing lab, engineering department, manufacturing and assembly lines, warehouse and parts depot.



Instantaneous Tank-less Gas Water Heaters



AERCO International, Inc. is a manufacturer and supplier of commercial condensing boilers, high efficiency water heating equipment and energy recovery systems in the HVAC/plumbing industry across a variety of markets including education, lodging, government, office buildings, healthcare, industrial and multifamily housing.

High Efficiency Commercial Tankless Water Heater

AERCO's Innovation is the only commercial tankless water heater that provides hot water on demand without the need for any significant storage volume to buffer load change and provide stable hot water temperatures. It features up to 99% efficiency with precise temperature control $\pm 4^{\circ}\text{F}$ through its dynamic feed-forward sensing and unmatched turndown. Due to its unique tankless design, the Innovation has the smallest footprint of any commercial water heater saving facility space by eliminating storage tanks and its ability to use common venting, as well as lowering costs on installation and operation. It's easy to install, simple to service and cost effective eliminating the need for expensive storage tanks, mixing valves and tank circulators. Available in four sizes 625 - 1350 MBH.

Advanced Edge Controller

AERCO's advanced Edge[®] Controller works with Innovation water heaters to deliver superior system performance, maximum efficiency and the lowest cost of ownership. Learn more about retrofitting your existing Benchmark and Innovation units with the advanced Edge Controller.

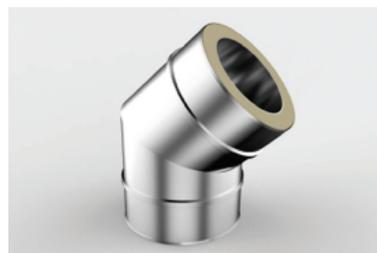


Boiler Chimney System



Solinox is a leading turkish manufacturer producing world class standards of strainer steel flues, chimney pipes, exhaust systems, linen and garbage chute systems, ventilation and kitchen duct systems with the latest technology.

Solinox aims to offer our valuable clients its honest, high quality and reliable services across the world by using the newest technology machinery and expert management staff. Solinox continues to be your solution partner with innovations. We also offer technical assistance from our professional engineers team with Autocad/Solidwork drawings for your mechanical projects and calculations for an optimum diameter for Exhaust Flue for the heating appliance(s). **Solinox** is certified with ISO 9001: 2008, TSE and CE certificate in accordance with world standards.



Storage and Heating Solutions

For more than 60 years, **Lacaze Energies** is a specialist in the field of hot water production for domestic and heating applications and benefits from the combined experience of an industrial group.

- It offers solutions for energy optimization in the service and manufacturing sectors. Its expertise is acquired over the last 60 years in designing and building systems for producing domestic hot water (DHW), Low Temperature Hot Water (LTHW), as well as in Chilled Water storage for the service and manufacturing sectors.
- Developed as complete systems, each of the products integrates the best combination of components and materials to ensure 100% satisfaction in terms of performance, cost-effectiveness and reliability. Innovation is at the heart of the business.

Lacaze Energies continues to develop and offer the most efficient materials in line with market demands, new thermal regulations (such as the RT2012) and environmental issues (Optimization of the production and consumption of hot water, technological developments linked to renewable energies, etc.) thereby together we offer best support to our stakeholders.

A special high performance epoxy resin (RC Coating) has been developed by **Lacaze Energies**, in collaboration with a leading European specialist in the field and is the only inner lining for industrial tanks in France to benefit from an A.C.S. (Health Conformity Attestation). It is a WRAS approved material (BS6920).



Precision Cooling System

riedel^o
kooling

The MC Chiller is designed for an outdoor installation, manufactured by Glen Dimplex Deutschland GmbH. The chiller was designed especially for the cooling of MR-system through a helium compressor.

Main focus in the design was the uptime to avoid shut downs which could result in a helium loss.

Due to the chiller works still at a maximum ambient temperature of 55°C it is suitable for high ambient regions.



Radiant Heating and Cooling Systems

Uponor

Radiant cooling systems are hydronic water systems that cool the air using circulating water running in pipes embedded in the floors, ceilings or wall construction of buildings.



A **Radiant** cooling system operates at warmer temperatures than traditional All-Air cooling systems. Typically, the circulating water only needs to be 6-8°C below the desired indoor air temperature. Once absorbed by the actively cooled surface, heat is removed by water flowing through a hydronic circuit, replacing the warmed water with cooler water. Radiant cooling is most effective at removing direct solar and sensible heat gains.

Uponor provides a complete one stop solution of the embedded system together with the necessary room and water control mitigating the risk of condensation in hot and humid climates.

Incorporating a radiant cooling system reduces the size of the supplementary ventilation system therefore providing significant energy savings, greater levels of thermal comfort and lower lifecycle costs for the building owner .

Pex Pipe Systems

Uponor

Uponor is a leading international provider of systems and solutions for safe drinking water delivery, energy-efficient radiant heating and cooling, and reliable infrastructure.

We serve a variety of building markets, including residential, commercial, and industrial and civil engineering. We have over 4,000 Uponorians in 30 countries around the world. Our head office is in Vantaa, Finland.



Pex Pipe System - Gun Metal Fittings

+GF+ JRG
PIPING SYSTEM

GF JRG Piping System is a specialist in the distribution of cold and hot water in residential, industrial and commercial buildings, hospitals and hotels to remedy the problems of corrosion, scale, maintenance and installation difficulties in conventional plumbing. JRG has developed a system, which has revolutionized domestic water services.

- GF JRG: Cross linked polyethylene pipe-in-pipe system and gun metal valves and fittings.
- GF JRG MT: Multilayer system ideal for water distribution, riser for houses as well as for large buildings.
- Products are WRAS approved.



PRV's and Valves Solutions

Honeywell Home

Honeywell Braukmann is a world leader in providing water control solutions for applications in domestic and commercial buildings. Honeywell valves are available in bronze, brass and cast iron construction of premium quality, are well known for accuracy and reliability.



AFTERMARKET SUPPORT AND SERVICES

We are committed to deliver high quality Plumbing equipment with its services in a timely manner to the agreed specifications. We understand the importance of having excellent service backup. We have ensured that our technicians are experienced and well equipped with tools to execute quality work.

We keep adequate spares, enabling us to attend to after-sales service and guarantee the quality of our supplied equipment. We are also committed to continuously measure, review and improve our working and quality objectives to maximize our customers' satisfaction, with optimal utilization of resources.

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