

Unique Technologies from GEA IHE SYSTEMS INDIA

The GEA Group (Global Engineering Alliance), headquartered in Bochum, Germany, is a globally successful technology group with more than 250 companies in 50 countries.

As a company of GEA Group AG, GEA IHE Systems India is part of the Process Equipment Division. Within this division, the company belongs to the GEA IHE Systems, which is an association of GEA companies with focus on industrial heat exchangers. For decades GEA IHE Systems has been one of the leading manufacturers of components for the energy and propulsion industry worldwide.

The compressed-gas-cooling technology is one core competence. The GEA fin tube program has been a milestone in this sector. Special coating of the GEA fins enhances the corrosion resistance of the fin tube system, i.e. aggressive impurities in the gas will not affect the durability of the cooler.

As the efficiency of the compressors is essentially determined by the integrated cooling technology, GEA has tremendously contributed to the technological progress through its wide spread fin tube program. The GEA Pressure Gas Cooler program satisfies the essential needs on the market for gas quantities of 5000 Nm³/h up to 500,000 Nm³/h in the pressure range up to about 50 bars.

Efficient water separator systems allow exceptionally space-saving construction types.

The construction program comprises water cooled compressed gas coolers for industrial gases such as air, oxygen, carbon dioxide, helium, hydrogen and hydrocarbons as well as process coolers and heaters for industry and drying technique.

GEA has developed special computer programs to ascertain an optimum performance at minimum pressure losses. This applies to the use in various compression techniques, at special operating conditions and different mounting situations.

Charge air coolers for diesel and gas engines, closed circuit coolers for generators and electric motors, light and compact aluminium cooling systems with high power density for rail vehicles, recirculation coolers for electrical machines and recoolers for diesel engines and gas turbines form the major parts of the company range of products.

The company's experienced engineers offer comprehensive customer service ranging from planning, development and production to after-sales service. GEA IHE Systems India delivers original spare parts (gaskets, headers etc.), complete spare coolers, special material for extreme demands and material recommendation. The company assures extension of durability due to its certified revisions and provides repairs and mountings at site as well as in customers' factory. The company also offers temporary repair service, support for revisions at site and



certification through classification companies. Another key features of the GEA IHE Systems are preventive checking and damage analysis such as nondestructive / destructive material testing ,leaking tests, distant diagnosis, analysis of cooling water ,eddy current test and video-endoscopy. The company also offers services such as tube replacement, new coating, mechanical cleaning and ultrasonic cleaning.

The invention of the elliptical fin tube was a milestone in international competition and still is an essential part of the successful worldwide expansion of GEA Group. The fin tube program meets the requirements of maximum efficiency with high safety standards.

For this reason the various types of fin tubes are manufactured in a number of material combinations and patented constructions to meet the special requirements of our customers. Our standard range of tube material comprises copper, special brass, copper-nickel, titanium, carbon steel and stainless steel etc.

Due to GEA IHE Systems' long time experience as well as the combination of quality and innovation, it has become one of the leading companies worldwide and is still expanding with continuous development of new methods and revolutionary techniques.

Permanent enhancements, controlled quality, environmental technologies and broad services are our guarantee for satisfied customers. The long and trouble free performances of our coolers have resulted in becoming the first choice of thermal engineers worldwide. This has also resulted in growing demand for GEA made tube bundles whenever need for replacement of the bundles arises.