

# GEA Pressure Gas Coolers

## - A Complete product for steel industry

### GEA Group AG :

The GEA Group (Global Engineering Alliance), headquartered in Bochum, Germany, is a globally successful technology group with more than 250 companies in 50 countries. The Group is focused on the two basic engineering processes of heat exchange and mass transfer.

The companies within the GEA Group are grouped into 9 divisions. These 9 divisions are combined into two different segments. The segments and the divisions are as under:

Energy and Farm Technology Segment	Process Technology Segment
Thermal Engineering	Process Engineering
Emission Control	Pharma Systems
Air Treatment	Process Equipment
Farm Systems	Refrigeration
	Mechanical Separation

### GEA IHE Systems India :

As a company of GEA Group AG, GEA IHE Systems India is part of its 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 power, process and marine industry worldwide.

With manufacturing locations in Germany, France, The Netherlands, Poland, China and Brazil GEA IHE Systems consists of the following companies :

- GEA Maschinenkühltechnik, Germany
- GEA Renzmann & Grünwald, Germany
- GEA Bloksma, The Netherlands,
- GEA Ergé-Spirale, France
- GEA Polska, Poland
- GEA Technika, Poland
- GEA IHE Systems China, China
- GEA do Brasil, Brasil
- GEA IHE Systems India
- GEA IHE Systems U.S.

### Industries and Products :

The company's product line comprises the following major cooling systems :

**Energy Technology :** Circuit coolers, Hydrogen coolers, Radiator coolers

**Chemical Industry :** Pressure Gas coolers, Gas Pre-heaters, Radiator coolers

**Diesel Engines :** Charge Air coolers, Coolers for rail vehicles, Radiator coolers

**Generators :** Circuit coolers, Hydrogen coolers

**Machine Technology :** Charge Air coolers, Circuit coolers, Hydrogen coolers, Pressure Gas coolers, Radiator coolers

**Process Technology :** Circuit coolers, Hydrogen coolers, Pressure Gas coolers

**Transportation Engineering :** Charge Air Coolers, Coolers for Rail Vehicles.

### GEA IHE Systems in Steel Industry :

The Pressure Gas Coolers is one of the core competencies of IHE Systems. These coolers are used as inter coolers or as after coolers in compressors / turbo blowers. The construction normally consists of one or more finned tube bundles with cold water flowing on the tube side and the compressed gases to be cooled occupying the shell side. The gases typically are air, oxygen, carbon dioxide, helium, hydrogen, nitrogen and hydrocarbons.

GEA Pressure gas coolers can also be used as Gas Pre-heaters. In this case, saturated steam flows on the tube side and the gas to be pre-heated flows on the shell side.



Special coating of the GEA fins enhances the corrosion resistance of the fin tube system thereby preventing the aggressive impurities in the gases from affecting the durability of the coolers.

The efficiency of the compressors is essentially determined by the integrated cooling technology. GEA has largely contributed to the technological progress in this area 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 Nm<sup>3</sup>/h up to 500,000 Nm<sup>3</sup>/h in the pressure range up to about 50 bars. Efficient water separator systems allow exceptionally space-saving construction types.

**For more information visit at [www.gea-ihe.com](http://www.gea-ihe.com)**

