

COMPANY PROFILE



Company Information

HEAT gas technologies GmbH is a medium sized company with its focus on customized solutions for our clients.

Established in 1984 we have decades of experience in the natural gas and environmental business.

2020 HEAT gas technologies became part of RMA group in Rheinau / Germany with more than 800 employees and 160 Million Euro turnover in 2020.

HEAT gas technologies provides a wide range from Engineering – Procurement – Manufacturing – Construction – Commissioning – Service to complete Turn-Key Solutions.

For all HEAT gas technologies team members, it is our highest goal to serve our customers and to establish a partnership and long term cooperation with our clients and suppliers, to act safe and responsible with our various stakeholders and to protect the environment.

With our engineering team we design all equipment and process plants for our well proven natural gas and environmental technology plants.

With our experienced workshop we manufacture products and components in our own facilities to ensure that engineering and manufacturing goes hand in hand.

With our international proven project management team, we handle complex specifications and requirements from Industry, international EPC's, Oil and Gas Companies, Power plants as well as Transition Operators.

With HEAT gas technologies one stop shop concept, our customers have one partner for process design, detail engineering, manufacturing, installation, commissioning and service.

This is why HEAT gas technologies GmbH is your best partner for gas systems in the gas distribution network and gas power plants:

- 4 decades of Experience in the natural gas business
- Well experienced employee team
- Family-owned business with customer service at the heart of its mission statement
- Member of one of the strongest solution providers in Europe in the field of natural gas
- Full-service provider from the basic design engineering to commissioning and field service
- Offices and Agent network in 17 countries on three continents
- Delivery experience on 5 continents
- Flexible and customized solutions for the design and execution of the projects
- Manufacturing in own workshop and with cooperation partners for international business
- Design and manufacturing of all process critical components and the complete systems ensures full control of quality and performance.

History

Founded in **1984**, under the name of **HEAT wärmetechnische Anlagen GmbH** in Vienna, the company was started as an engineering provider with a small team of skilled engineers.

In **1989** in Biedermansdorf, close to Vienna a first production for vessels and gas devices was started. Customized engineering, development of new products and a high production and delivery quality ensured the growth of the company.

In **1995 Premaberg Industrieanlagen GmbH (PIAG)**, a specialist in the gas and oil exploration/processing, became part of HEAT and the experience was developed within HEAT gas technologies oil field equipment department.

1996 the company **R+I Rohr- und Industrieanlagen GmbH**, a pipeline and construction company was founded and is today a sister company within RMA group.

In **2004 Combusta Engineering und Anlagenbau GmbH**, a company active in the field of LPG plants and ammonia supply systems became part of HEAT and the products and services were developed further within the HEAT ammonia engineering team.

In **2011 E.U.T. Anlagenbau GmbH** was taken over by HEAT and the references and skills from the engineering team is today active in **HEAT gas technologies** department of environmental technology.

From the very beginning activities and market sales were developed international with the focus on Europe and neighboring countries.

In the last ten years **HEAT gas technologies** developed more it's international business worldwide. Currently **HEAT gas technologies** plants and equipment are on all continents.

Strong partnership and cooperation were reached with the most well-known corporates in the sector of power and energy systems and **HEAT gas technologies** is working and further strengthening the existing partnership and to develop new ones in the near future.

Since October 2020 **HEAT gas technologies** is part of the worldwide active **RMA group** which in return supports our international activities and strengthen customers relationship.

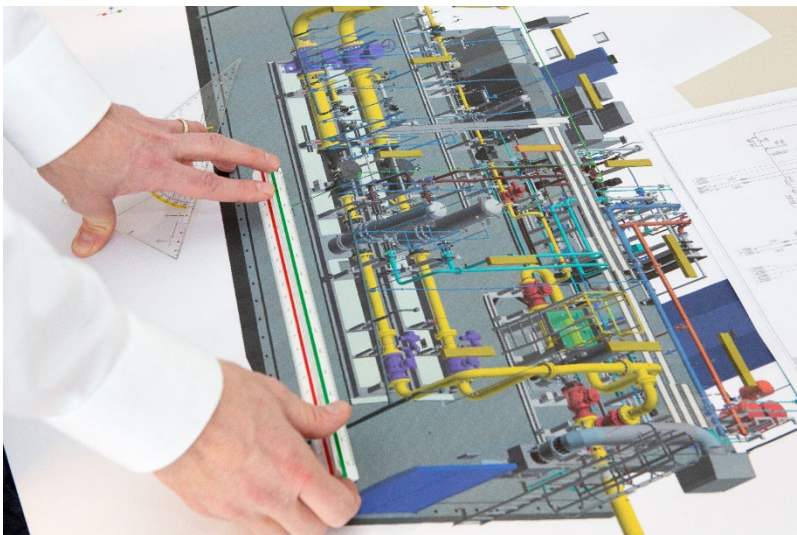


Engineering

HEAT gas technologies offers the complete natural gas system engineering. We offer basic engineering including the process design for the equipment. HEAT is specialized in design of different separator and filter executions for various solutions to clean the gas from liquid and solid impurities. HEAT offers the process design calculations including the dimensions of equipment, piping, valves, heat exchangers. Depending on the gas composition and the impurities, the material for the equipment will be selected.

The basic design includes the Process Flow Diagram for the entire unit including mass and heat balance, the Piping and Instrumentation Diagram, Layout of the station, respectively the single skids, basic foundation drawings with loads and forces.

In the continuing detail engineering following the chosen design code we will offer the detailed manufacturing drawings of all equipment including part lists, data sheets for instrumentation and valves including hook um drawings, pipe classes, stress calculations, static calculations of hot piping. The process descriptions and control concept will complete the detail design.



Manufacturing

HEAT gas technologies has its own manufacturing workshops for welding and assembling of skid mounted units and equipment manufacturing with an overall area of 2.500 m². Single equipment such as separators and preheaters can be manufactured up to 25 tons.

The pipe spools will be prefabricated according to the applicable design codes.

None-destructive testing of all welding will be performed with all standard test methods and considering all common worldwide standards.

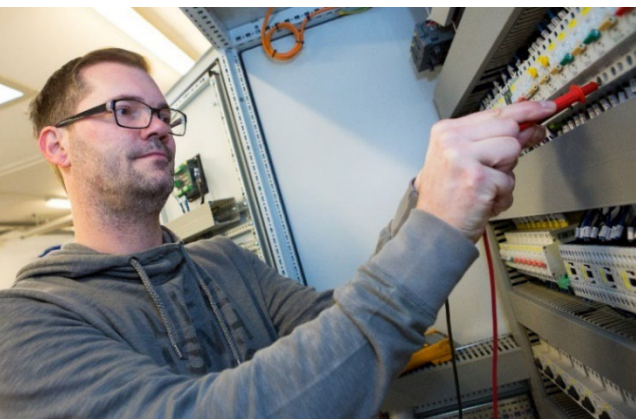
The assembling of equipment and skids is performed in the workshop or at site for large components. Depending on the business area we cooperate with local manufacturing companies to reduce transportation costs, hence strengthen the local content of the projects which ensures short service distances to the customer.



Office building and fabrication workshop



Welding of pressure vessel



Control system loop check

Workshop skid fabrication

Gas Pressure Regulating and Metering Stations / Fuel Gas Supply Systems

HEAT gas technologies supplies all kind of pressure reduction and metering station for **transmission operators** as well fuel gas supply units for gas turbine and gas engine **power plants**.



City gate station in a concrete building with hot water heating from hot water boiler system:
 Flow: 3 x 60.000 & 3 x 80.000 nm³/h
 Pin: 38 – 70 bar
 Pout: 3 – 4 bar



FGSS on skid with erection at site in a concrete building with hot water heating:
 Flow: 150.000 nm³/h
 Pin: 38 – 70 bar
 Pout: 31 – 33 bar & 3 – 4 bar



Mobile Steel Container PRMS with electrical heating and control panel:
 Flow: 2.500 nm³/h
 Pin: 20 – 200 bar
 Pout: 3 – 4 bar



Monoblock Compact Reducing Station in concrete building with warm water heating:
 Flow: 2.000 nm³/h
 Pin: 20 – 70 bar
 Pout: 3 – 4 bar

Gas Dehydration Units

HEAT gas technologies supplies dehydration solutions for natural gas production and underground gas storages to provide sales gas required water and hydrocarbon dewpoint.

Depending on gas composition and technical parameters Absorption process with Triethylenglycol and Cold Separation technology can be supplied.

HEAT gas technologies provides the complete process design and execution of the systems.

For TEG-Water dehydration systems absorbers with structural packages will be used. For the regeneration process different heating methods, like firing, hot oil processes and incineration of the off gases including heating of the regenerator can be provided.

On cold separation processes for HC-dew point adjustment also wet gases with injection of glycol can be treated.



GDU on country border Compressor Station
 Gas flow: 9.600.000 nm³/d
 Pin: 35 – 70 bar
 TEG-flow: 6.500 kg/h



GDU on Underground Gas Storage
 Gas flow: 5.000.000 nm³/d
 Pin: 45 – 87 bar
 TEG-flow: 8.000 kg/h



LTS unit gas production plant
 Gas flow: 2 x 1.000.000 nm³/d
 Pin: 45 – 80 bar



LTS unit gas production plant
 Gas flow: 1.000.000 nm³/d
 Pin: 40 – 70 bar
 TEG-flow: 1.000 kg/h

Filter separators / Heat Exchanger / Pig traps

HEAT gas technologies supplies all vessel equipment for natural gas distribution systems, pipelines, underground gas storage and power plants.

The production range is from standard filters to high pressure separators including HEAT own quick opening closure and tubular heat exchangers incl. double tube safety heat exchangers.



Filter Separator SNP
Gas Flow 100.000 nm³/h; PN100



Filter Separator SNH
Gas Flow 350.000 nm³/h; PN100



Filter Separator SNP
Gas Flow 280.000 nm³/h; PN84



Gas Preheater WAT-LW
Gas Flow 150.000 nm³/h; PN70



Double tube Safety HX WAT-SH
Gas Flow 30.000 nm³/h; PN40



Double tube Safety HX WAT-SH
Gas Flow 400.000 nm³/h; PN210



Pig Trap with HEAT Quick Opening Closure
DN 1400/1600 (56"/64"); PN100



Quick Opening Closure
DN 1300 (52"); PN300

Gas Pressure Regulators / Safety Shut Off Valves

HEAT gas technologies supplies gas devices for natural gas distribution systems, pipelines, underground gas storage and power plants.

The production range is from small to large dimensions and for high pressure. In Austria we distribute further to HEAT also Itron gas devices and metering and all RMA products.



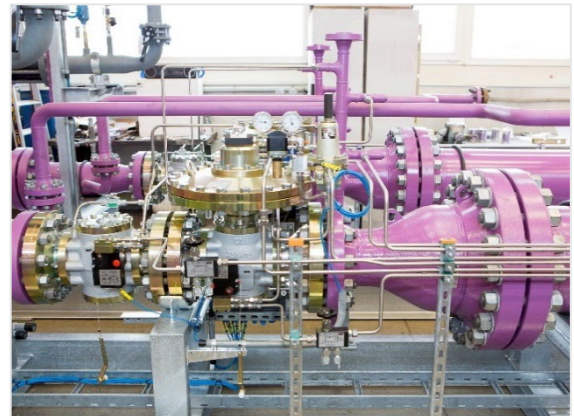
DN300 (12") PN100 –
Monitor Regulation for main gate city station



DN200 (10") PN100 –
Double SSV + Regulator for power plant



Warm Water Safety Shut Off Valves G42 –
1"-10"; PN40 – ANSI1500



National Gas Grid station for
low pressure net supply



SSV / Gas Pressure Regulator under hard
working conditions in cement factory



High Pressure Monitor Regulators for 150 bar
on underground gas storage

Ammonia Supply Systems

HEAT gas technologies supplies ammonia systems for NOx reduction process for a wide range of industry, power plants, refinery, steel mills and others. The scope of service includes process design, manufacturing, commissioning and service. Main parts are unloading and storage equipment, Ammonia evaporation systems, ammonia-air mixture and flow control units for aqueous and anhydrous Ammonia.



Aqueous ammonia vaporizer skids for refinery



Aqueous ammonia storage tanks for coal power plant



Aqueous ammonia vaporizer skids for coal power plant



Aqueous ammonia vaporizer skids for coal power plant



Aqueous ammonia storage tank 1.100 m³ - site manufacturing



Aqueous ammonia ship unloading facility for a coal power plant

Environmental Technology – Waste Air Purification

HEAT gas technologies supplies environmental technologies to remove polluting volatile organic compounds (VOC) in waste gas by application of best practice methods. Depending on the compounds and process data Thermal (TNV), Catalytic (KNV), Concentration technology with TNV or Regenerative waste air purification (RNV) systems will apply.

Together with the purification systems Heat Recovery Systems should be combined for commercial optimization.

Worldwide installations in the chemical -, synthetic materials -, textile -, electronic and semi-conductor industry, paint and varnish industry and in many other industrial divisions as well as in printing plants.



TNV for exhaust air from research facility, 400 m³/h
Pollutants: various VOCs; 19 kg/h



Concentrator with TNV for exhaust air from surface treatment processes, 70.000 Nm³/h;
Pollutants: Xylol, Toluol; max. 1.100 mg/nm³



TNV for exhaust air from coating plant,
13.000 Nm³/h;
Pollutants: Petrol, 5 – 160 kg/h



KNV for exhaust air from synthetic fibre production
13,000 Nm³/ h;
Pollutants: IPA Hexane; max. 52 kg/hr

