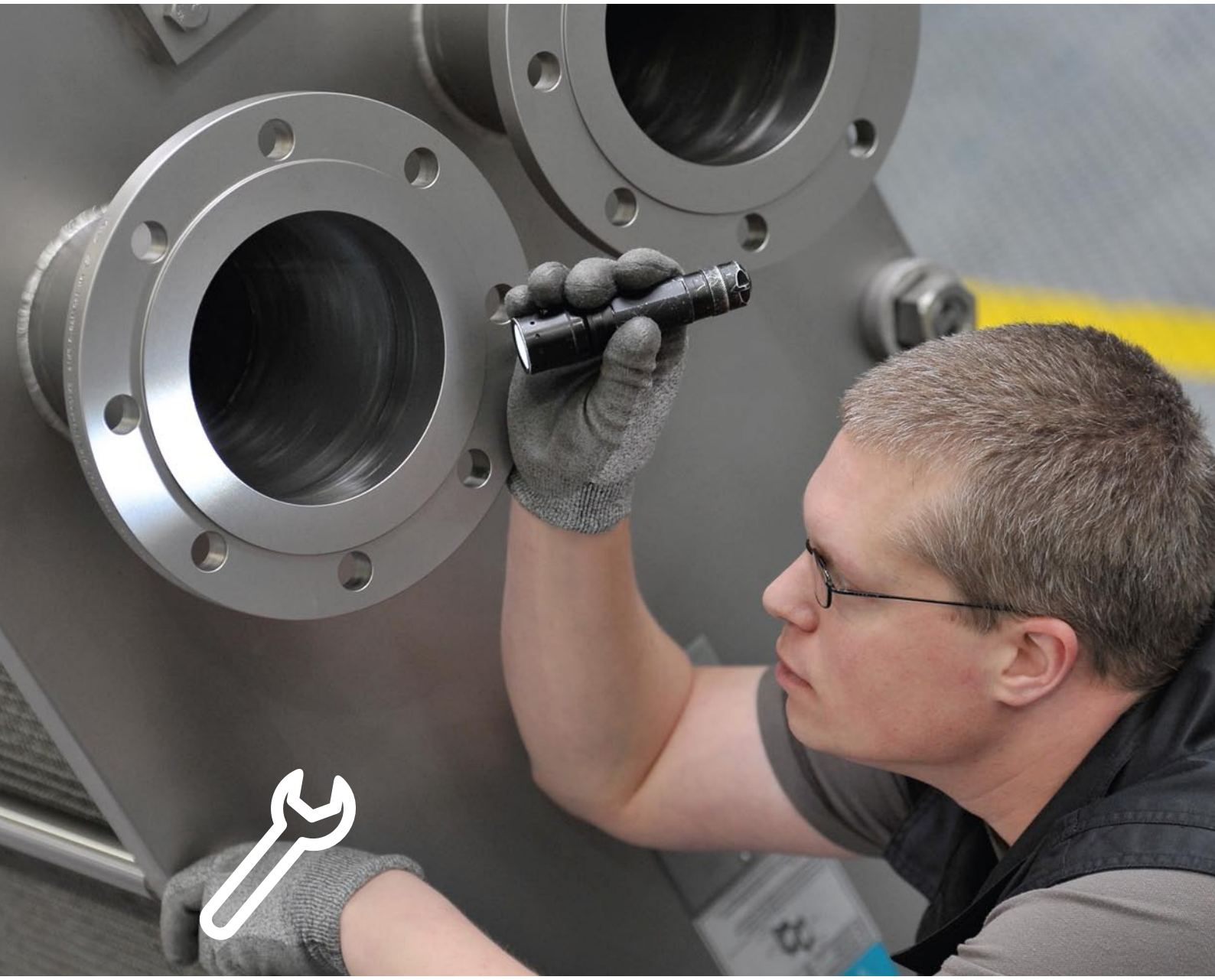
GEA PHE Systems

EcoServe – 24/7 After Sales & Service



GEA Heat Exchangers



Global service and support based on experience

GEA PHE Systems is a global full-range service specialist for all plate heat exchangers brands, offering full scale after sales and service and spare parts from installation through operational life and preventive servicing measures such as in-situ leakage testing. The global network of service locations offers 24/7 support to ensure minimum down-time of your systems, any time, anywhere.

GEA PHE Systems is a leading manufacturer of plate heat exchangers with outstanding field competency. For decades this group of companies has pioneered development of plate heat exchangers.

GEA Heat Exchangers segment drive innovations and internal exchange of competencies across the segment thus made available to all companies within the group.

Reflecting a quality service, our dedicated trained specialists implemented a wide range of know how into customer support, on-site service and spare parts supply.

Run time and cost control is evident to most processes which start with installation and commissioning of the equipment.

To enhance productivity of your process line, GEA PHE systems offers preventive maintenance programs ranging from scheduled parts supply over on-site inspection, service and testing to complete re-conditioning at GEA PHE Service station. For large installations involving multiple plant cooling PHEs, GEA PHE Systems is capable of supplying complete service contracts including maintenance and exchange plate pack programs.

GEA PHE Systems

GEA PHE Systems is the specialist for plate heat exchangers within the international GEA Group. GEA PHE Systems is part of the GEA Heat Exchangers segment of GEA Group comprising of GEA Ecoflex, GEA WTT, GEA PHE Systems Asia Pacific, GEA PHE Systems North America and GEA EcoServe. With more than 75 years of experience, GEA PHE Systems is a global centre of competence and service within plate heat exchanger technology.

- HVAC
- Paper
- Marine
- Power
- Sugar
- Food
- Renewable Energy
- Refrigeration
- Chemicals
- Oil & gas
- Heavy industry

- Installation
- Commissioning
- Servicing (24/7)
- Maintenance
- Spare parts
- Leakage testing
- Service contracts
- Maintenance logistics
- Training

All from a single source

You can rely on GEA PHE Systems throughout the whole process from initial start-up installation right up to detailed service contracts.

Global and regional parts distribution centers ensure delivery of all spare parts anywhere in the world.



Spare parts

At your service around the clock

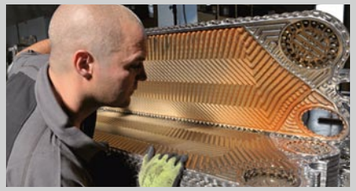
Quick and reliable technical support availability and spare parts are key elements of GEA's after sales and service. GEA PHE Systems delivers spare parts for plate heat exchangers within short notice to any location in the world.

Top product and on-site service qualities guarantee uninterrupted plate heat exchanger operation. Plate heat exchangers are vital components in most processes and energy transmission systems influence operations and efficiencies in many functions of modern society. GEA PHE Systems is at your side around the clock with service and spare parts from PHE of all major brands. In addition to GEA spare parts, we also offer spare parts of other brands from certified quality suppliers at competitive prices.

Maintenance

A perfect result in 10 steps

Correct fitting is of decisive importance for the service life of a new gasket. This is why our maintenance leaves nothing to chance and guarantees you a first-class result using our tried-and-tested 10-step programme.



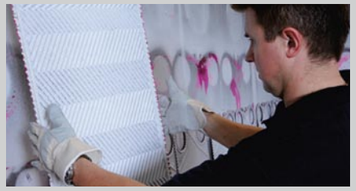
1 Inspection of gaskets



2 Removal of old gasket



3 Chemical cleaning – deposit removal



4 Checking cracks and corrosion



5 Washing after dye penetration test



6 Cleaning and checking of gasket groove



7 Alignment and repair of gasket groove



8 Fitting new gaskets



9 Compression of glued gasket plates before oven curing



10 Final inspection and packaging

The testing gas used guarantees the highest physico-technical leakage detection. Quality standards such as IFS and HACCP in the foodstuffs production industry are reliably met.



Leakage testing

Innovative test kit reduces down-time in food industry

Pressure shocks, temperature fluctuations, corrosion might develop fatigue and cracks of the heat transfer plates. Preventive leakage testing detects initial material fatigue before it develops into cross contamination between products without having to dismantle the plate heat exchanger.

As a result, leakages in PHEs can be detected before a plate rupture occurs. GEA PHE Systems uses a leakage testing system based on a hydrogen/nitrogen gas mixture induced to the plate heat exchanger cooling medium side. If one of the heat exchanger plates developed premature cracks, gas will penetrate to the product side and will be detected by a precision sensor. The required test time is approximately one hour, or about 20 times faster than a dye penetration test.

Early detection of material fatigue

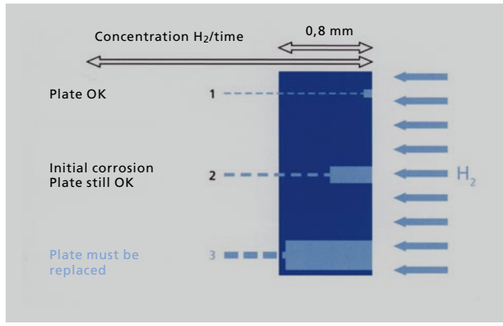
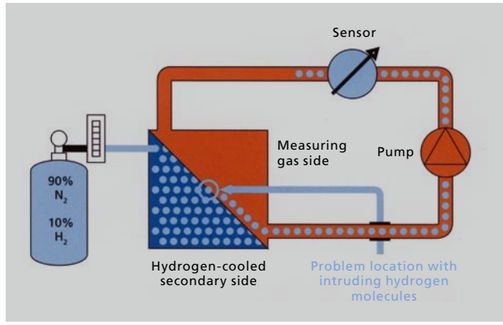


Diagram of the H_2 method



The hydrogen method:
The hydrogen method is based on a testing gas (forming gas comprising 10 % H2 and 90 % N2) used for both leakage detection and tightness testing. Hydrogen in the correct concentration is completely harmless (ISO 101569). In fact hydrogen/nitrogen mixtures are also used as inert gas atmospheres.

At home across the world



Further information at
www.gea-phe.com

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GEA Heat Exchangers

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