



HLD

Leak Detection of
Heat Exchanger

resom **HLD 600** automatic

Measurement accuracy in a new dimension

The newly developed measurement system resom **HLD 600 automatic** stands for measurement accuracy in a new dimension. The advancement of our thoroughly tried and tested manual system **HLD 600** assures you of absolutely accurate and fully automatic leak detection of heat exchangers in an assembled state.

Micro-accurate measurement

The highly sensitive resom **HLD 600 automatic** works on the basis of the hydrogen method and can thus spot even the smallest leaks or material weaknesses. It detects the diffusion of H_2 molecules across the metal and hence spots any material fatigue at an early stage prior to any leakages occurring. Microbiological contamination of your products due to micro-cracks in the plates or tubes of the heat exchanger can thus be prevented. The purity of your products is safeguarded.

Even outward leaks, such as those caused by brittle or poorly installed gaskets, can be detected and proven with the resom **HLD 600 automatic**.

Fully automatic control

The fully automatic control of the new system excludes any improper handling of the device and thus prevents a variety of malfunction sources, which makes the work of the person doing the testing much easier and also safer.

At the same time, the integrated software **HLDsoft** saves all data that are relevant to the facility. Comparing measurement results has therefore become easier. The test protocol issued automatically with each measurement provides you with a quick overview of all relevant parameters and allows for complete documentation for perusal by your quality management department.

Tailor-made solutions

Depending on customers' requirements, our measurement experts will test your heat exchangers directly on location or will provide you with an individual offer for purchasing the resom **HLD 600 automatic**.



resom – Our accuracy is your safety.

resom **HLD 600** automatic

Range of application and measurement:

- Plate heat exchangers
- Tubular heat exchanger

Benefits to you:

- fully automatic test system for safe and easy handling
- integrated software **HLDsoft** for automatic execution of test cycles and complete documentation of measurement results
- automatic test protocol issued for quality assurance
- 100% safety by means of innovative gas test, the safest test method from a technical and physical point of view, using food-grade test gas (E949) only
- constant availability of the device and thus independent inspection of the heat exchanger at your manufacturing facility
- handy and mobile form of the entire test equipment for easy transportation to all test-relevant facilities
- compact and robust casing, ideal for the industrial environment of the food and pharmaceutical industries
- swivelling **HLD 600** with vision panel for optimum operability
- trouble-free measurement: no opening of the heat exchanger before and during testing required

Technical Data

Sensitivity

0.5 ppm of hydrogen gas corresponds to leak rates from up to 5×10^{-7} mbarl/sec

Trace gas

5 - 10% hydrogen and 90 - 95% nitrogen

Response time

< 1 sec

Calibration

Calibration gas

Membrane pump MP 20

220V / 50Hz

Measurement cell

Fully automatic

Software

HLDsoft

Display HLD 600

Swivelling, with vision panel

Mains connection

100 - 220V / 50 - 60Hz

Casing dimensions L x W x H

547 x 465 x 1082 cm

Casing material

Stainless, powder-coated

