

PLWP - Testlab for heat pumps **Tests on brine/(water)-water heat-pumps**

We support the industry in its efforts to develop energy-efficient refrigeration systems and heat pumps after the cold steam process.

The ILK Dresden provides the following services for you:

Our heat pump testlab carry out performance tests on brine(water)-water heat pumps according to DIN EN: 14511, 14825, 16147 as well as tests according to ErP guideline (811/2013 ...814/2013)



specifics

- performance tests of heat pumps with water storage
- model range testing according EHPA-rules (BAFA-state subsidies, HP-Keymark)
- electrical power measurement via high-precision power Analyzers
- expert opinions to heat pumps and cooling systems or refrigeration plants
- performance tests (hybrid heat pumps, heat pumps with direct condensation)
- performance rating of individual heat pump components
- Refrigeration circuit measurements (pressure, temperature and mass flow)
- Evaluation of operating performance
- Fault analyses (operating and control behaviour)
- energetic evaluation according to ErP

- High-speed pressure measurements for the detection of resonances, pulsations in the cooling circuit
- Sound power measurements according to EN 12102, EN 3741 and EN 9614
- Refrigerant/material analyses
- by qualified refrigeration experts Modifications of the refrigeration circuits in consultation with the customer are possible on site

Performance limits test bench

- heating capacity: 4 kW to 100 kW
- max. volume flow side: heat source: 20 m³/h
- temperature range side: heat source: -15 ... 40°C
- max. volume flow side: heat source: 20 m³/h
- temperature range side: heat sink: 5 ... 65°C
- max. operating current: 25 A / 3~ 400V

Use of state-of-the-art measuring equipment:

- Acoustic camera
- Reverberation chamber analyses
- Thermography - Camera
- high-precision electric Power Analyzer

For further information please contact us directly:



Testlab Heat pumps at ILK Dresden
 Institute of Air Handling and Refrigeration
 Main Department Refrigeration and Heat Pumps



Dipl.-Ing. Ralf Noack
 Technical Manager
 Phone +49 (0351) 4081 – 649
 Fax +49 (0351) 4081 - 605
 Email: ralf.noack@ilkdresden.de



Dipl.-Ing. (FH) Andreas Peusch
 Phone +49 (0351) 4081 – 639
 Fax +49 (0351) 4081 – 605
 andreas.peusch@ilkdresden.de



www.ilkdresden.de

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