

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:

The Testcenter PLWP 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:
- max. volume flow side: heat source:
- temperature range side: heat sink:
- max. operating current:

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:

PLWP

Testcenter PLWP 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





-15 ... 40°C

20 m³/h

5 ... 65°C

25 A / 3~ 400V







Bundesverband Wärmepumpe e.V.



Bundesamt für Wirtschaft und Ausfuhrkontrolle

www.ilkdresden.de Stand 01/2020