

Performance tests of condensing units

Does your condensing unit perform well?

We support the industry in its effort to develop energy-efficient refrigeration systems and heat pumps.

The ILK Dresden offers the following services for you:

For air cooled condensing units we determine the refrigerating capacity, power absorbed, COP in accordance with the standards DIN EN 13771-2 and DIN EN 13215.

The tests are performed on the modified part of a refrigeration cycle (fig. 1) in combination with an clima chamber.

The performance tests carried out up to about 0.7 ... 10 kW normative for evaporation temperatures of -35, -10 bis +5° C at air inlet temperatures in the condensing unit of 5, 15, 25, 32 to 38°C (partload).

The tests are possible with the refrigerants R134a, R404a, R407C, ..., R410A, R452A.

Source of the refrigerant property data is the library ASEREP of ASERCOM.

As a matter of course the calibration status of our measuring system is always up to date.

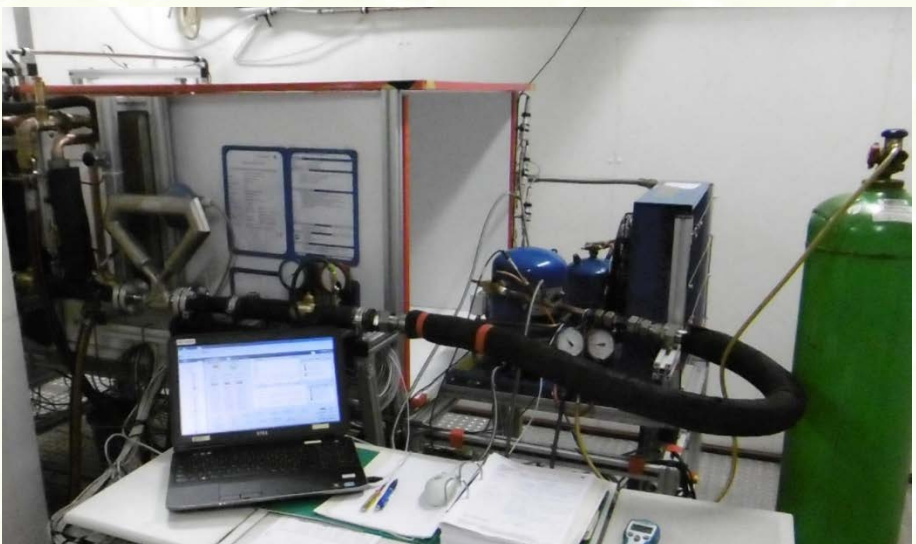


fig 1: test rig

Additional offerings

- measurement of air flow
- oil circulation in the system
- tests with speed control (frequency converter, inverter)
- acoustics (third or octave frequency band)
 - on the test rig: DIN EN ISO 9614 or
- vibration measurements from 3Hz ... 20kHz (line spectrum)
- measuring of pulsations in piping

For further information please contact us directly:



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