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High pressure test bench for cooling units

Leakage measurement

Data sheet EPE-169169





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Leakage measurement

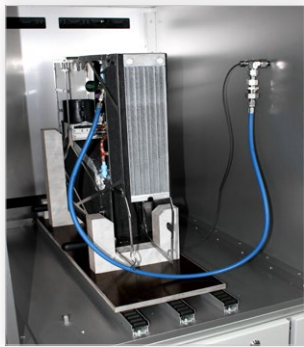
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DUT (e.g. air coolers)

Leakage measurement

Test pressure: 0 to 100 bar

Medium: nitrogen

Description

The system is used to test cooling units / air coolers for leakage. In this application example, the test items are self-contained refrigerated air conditioner used for cooling trolley cabinets in aircraft kitchens.

The refrigeration circuit of the test items consists of different components such as pipes, condenser, reopiler, compressor, rupture disk, pressure switch, valve and other which are tested for leakage. There are two types of tests:

Resistance test (Proof Pressure Test):

In this test, the resistance of the refrigeration circuit is checked at overpressure. Nitrogen is used as test gas.

Pressure switch test:

The pressure switch test checks the proper functionality of the pressure switch in the refrigeration circuit.

The two tests mentioned above can be carried out in a common test sequence. The system is controlled via a PC with measurement data acquisition hardware and measurement and control software under LabVIEW.

Technical data

Test pressure	0...100 bar
Cylinder pressure	0...250 bar
Ambient pressure	800...1200 mbar
Ambient temperature	0...50 °C
Ambient humidity	0...100 % rH

Dimensions

Test bench (L x W x H)	1300 x 1200 x 2000 mm
Weight	600 kg

This is only an **example** interpretation and can change according to your needs.

Benefits

- ✓ Resistance and functional test
- ✓ Compact, ergonomic design of the system



Standard solutions

Application examples:



Automotive:

Leakage measurement on vehicle components



HVAC and energy technology:

Leakage measurement on cooling units



Automation:

Leakage measurement on housings



Fluids- and valve technology:

Leakage measurement of valves and dampers



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For special requirements we are happy to advise you. Subject to change. / EPE-169169 / Last update: 02/2019 / V01
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+49 (0) 79 32 . 6 06 66 - 0 / +49 (0) 79 32 . 6 06 66 - 11 / info@ep-e.com / www.ep-e.com