

Perfection in fluids.

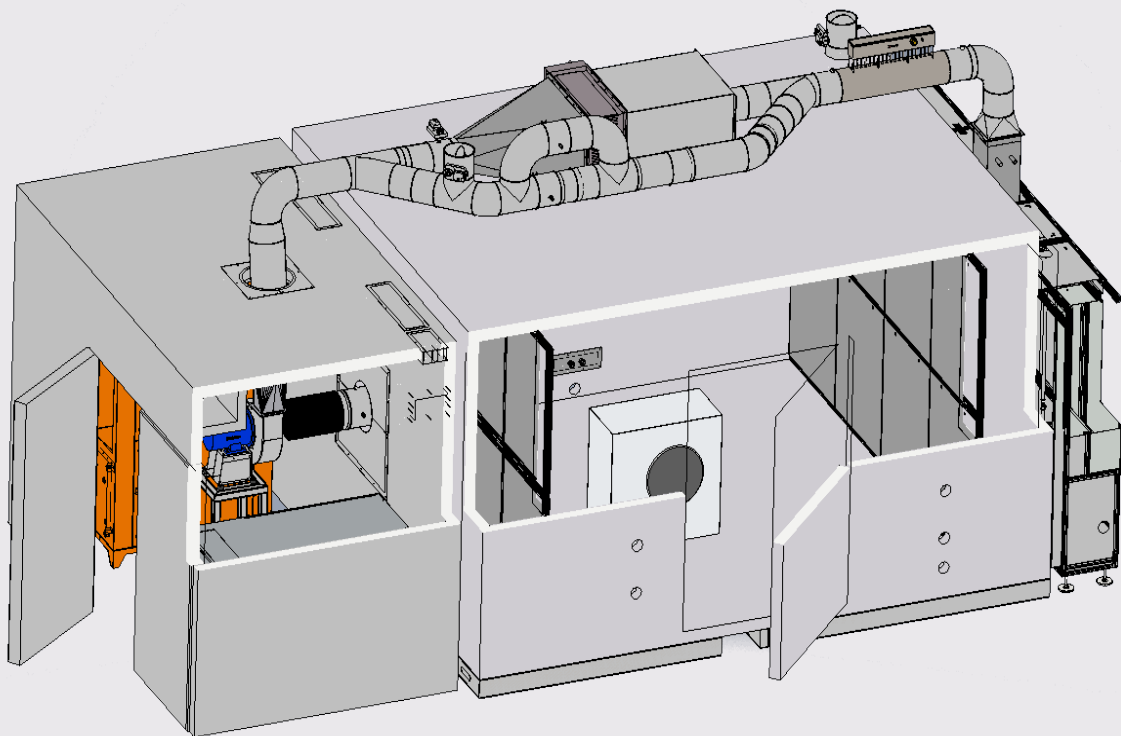
The right *flow*
by German engineering.



HPT -25/50 Climate chamber

Measurement technology for heat pumps

Data sheet EPE-162444





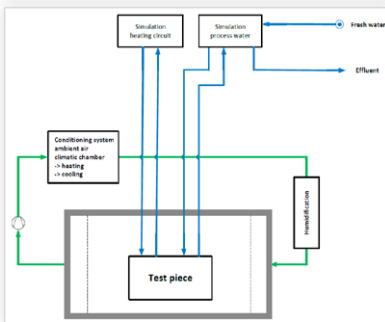
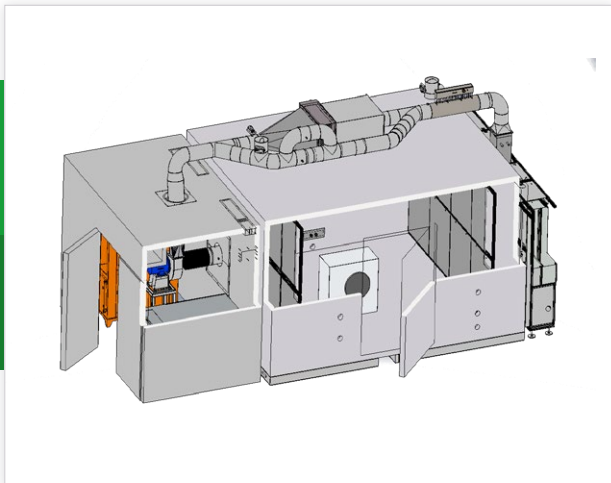
HPT -25/50 Climate chamber

Measurement technology for heat pumps

EPE-162444



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Similar to figure

Functional testing of air-water heat pumps

Power measurement according to standard DIN EN ISO 14511

Closed loop design

Temperatures -25 to +50°C, humidity 10 to 92% rH

Description

The test bench is used to test the function of air-water heat pumps according to DIN EN ISO 14511. Air-to-water heat pumps are tested within a climate chamber. In the climate chamber, room-air conditions are set, temperatures from -25 to +50°C at humidities of 10 to 92% rH even at negative temperatures (humidity to -10°C) are possible. In addition, the heating circuit and the hot water circuit are simulated. The air is moved in a closed loop.

The air volume is set via the FU of the fan and its characteristic lines. The air is cooled by a heat exchanger with chiller (4KW @ -25°C) down to -25°C and an elect. heating up to 50°C heated.

The system is controlled via a PC with NI measurement data acquisition hardware and measurement and control software under LabVIEW.

Technical data

Temperature	-25...+50°C
Rel. humidity	10...92 % rH
Humidity wet bulb temperature	-8...12 K
Flow heating water	5...60 l/min
Temperature flow / return	7...72°C
Flow process water	2...50 l/min
Temperature process water	6...11°C

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

Benefits

- ✓ Function test according to standard:
 - DIN EN 16147 (process water standard)
 - DIN EN 14825 (calculation standard)
 - DIN EN 14511 heat pumps
- ✓ Laminar flowed test chamber
- ✓ Optimal spread of temperature in the chamber
- ✓ Circulation mode - Closed loop design

Standard solutions Application examples:

- Building and energy technology
- Automotive and automatiion
- Aviation
- Powerstation technology



For special requirements we are happy to advise you. Subject to change. / EPE162444 / Last update: 04/2018 / V01 © EP Ehrler Prüftechnik Engineering GmbH, Wilhelm-Hachtel-Str. 8, D-97996 Niederstetten

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