

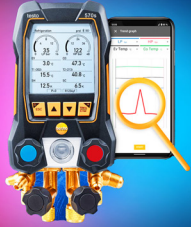


Refrigeration Business Unit Newsletter

Issue 33

February 2024

testo Be sure.



testo 570s

Flagship Refrigerant manifolds.

Inside this issue:

testo 570s --Flagship Refrigerant Manifolds;
 Heat pumps;
 Carel@MCE



SPOTLIGHT ON: testo 570s --New generation of digital manifolds



testo 570s

The digital manifolds with 4-way valve block, Bluetooth and large data memory, testo 570s are opening up the future of intelligent long-term measurement on refrigeration and air conditioning systems as well as heat pumps.

Digital fault analysis in the testo Smart App allows anomalies to be detected quickly and reliably.

Smooth connectivity



What else?

All measurement data at a glance
 and graphic progress display thanks to large display.

Extremely robust
 with protection class IP54

Practical one-hand operation
 thanks to compact design and only 4 buttons.

Quickly & easily to the result
 thanks to guided measurement menus.



Unique features

- Long-term measurement with intelligent error analysis in the testo Smart App.
- Highest precision at low pressure values due to measuring accuracy of 0.25% fs
- World's longest battery life of up to 360 hours with rechargeable battery (USB-C) and batteries.
- Suitable for use with A3 and A2L refrigerant.

Click [here](#) to read in detail.



Heat pumps: how much is enough?

Heat pumps are crucial in decarbonization efforts as they generate heat or cold without emitting CO₂, contributing to building energy efficiency. Their high performance, with increased efficiency over time, can reduce global CO₂ emissions by at least 500 million tonnes by 2030. As renewables' share in the energy mix grows, heat pumps, powered by electricity, become more environmentally friendly compared to traditional boilers. The choice of refrigerant is vital; while R-410A has a high GWP, alternatives like R-32 or natural refrigerants significantly reduce emissions.

To achieve near-zero emissions, using renewable energy and natural refrigerants in heat pumps is essential. Despite progress, only 10% of global heating needs are met by heat pumps, and their widespread adoption is crucial for reaching net-zero emissions by 2050. Policies and incentives promoting heat pump use, along with increasing renewable energy sources, have led to a global sales increase of 11% in 2022.

Clearly, the reduction of CO₂ emissions from heat pumps compared to gas boilers will become more pronounced as the share of renewables in the energy mix increases. Moreover, heat pumps are regarded as a crucial tool in achieving independence from foreign sources of fossil fuels. Click [here](#) to read the full blog.

Carel@MCE 2024: the role of innovation in the energy transition



CAREL@MCE 2024: the role of innovation in the energy transition from March 12 to 15, 2024, CAREL will be at Mostra Convegno Expocomfort, stand A31-B42, hall 11, showcasing HVAC solutions to improve indoor air quality and reduce energy consumption. With over 50 years of experience, CAREL offers cutting-edge control systems for smart commercial buildings, ensuring comfort and energy efficiency.

In the residential sector, CAREL introduces innovative components for managing heat pump refrigerant circuits, meeting safety regulations for flammable refrigerants. Their new STone programming model focuses on remote management, artificial intelligence, and cybersecurity, streamlining communication and making programming more efficient. For the industrial sector, CAREL presents solutions ensuring indoor air quality control, temperature, and humidity management to extend equipment life and improve production quality in various applications.

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