

The CO₂ experience makes the difference

The Virtus Pack Controller for subcritical and transcritical CO₂ refrigeration pack systems.

- CO₂ booster with 3 LT and 3 NT compressors
- All CO₂ functions in one compact component
- Quick, easy and uncomplicated wiring
- Easy operation via Virtus 5 web interface
- Always up to date thanks to remote updates

Ready for Refrigeration 4.0

Eckelmann switches to the Virtus LINE.

With each additional smart component and continuous software updates, operating companies and refrigeration specialists are benefit step by step from the new possibilities of digitalisation and safe operation of transcritical CO₂ booster systems.

480+ employees

8 sites

67,6 m € turnover

Contact us

Our team is pleased to answer your questions.

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 Newsletter for
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VPC 5000 – Virtus Pack Controller

The new complete solution
for CO₂ refrigeration pack systems

Cover picture: Mint Images / Stock.Adobe.com



The one box solution for CO₂ compressor packs

The Virtus Pack Controller from Eckelmann natively controls up to 3 LT and 3 NT compressors. The smart, network-enabled component integrates all functions for the highly efficient and safe operation of transcritical CO₂ booster systems:

- Low, medium and high pressure control
- Gas cooler and fan control
- Supports speed controlled LT / NT compressors
- Connection to heat recovery
- System-wide auto-adaptive optimisation strategies
- Easy operation via Virtus 5 web interface

Advantages



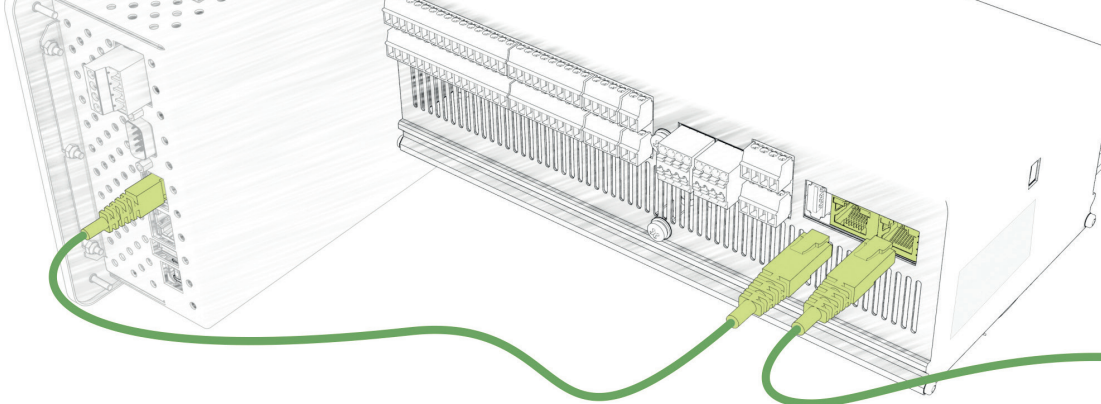
Easy connection of sensors and actuators

The fans of the gas coolers, among other things, can be conveniently connected digitally via two independent Modbus lines. The practical **single-cable technology** minimises the cabling effort. In addition, the Virtus Pack Controller has a wide range of **digital and analogue interfaces** that are perfectly matched to modern refrigeration solutions in commerce, industry and retail.



Compact and easy to use

The Virtus Pack Controller saves space in the switch cabinet. The extremely compact design without lateral connectors allows a gap-free row installation on the DIN rail. **The well thought-out connection technology speeds up commissioning and service.**



Operation in a web browser

Refrigeration specialists only need a web browser: Operation, display and parametrisation are performed via the Virtus 5 system centre using a modern web interface. Remote maintenance and firmware updates are possible via Internet. **Quick, secure and cost-effective.**



Powerful interfaces for digitalisation

With two independent CAN bus segments, the VPC 5000, as a basic system, can also be used extremely flexibly in future for CO₂ systems with a very large number of refrigeration points. What is new is that communication with the Virtus 5 is implemented via a fast Ethernet interface, which is redundantly protected by CAN bus. A further Ethernet interface enables the connection of future planned expansion stages. **Modular and freely scalable.**

