



## MODEL HEAT PUMP VARIO

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This model enables the trainee to comprehend the functionality of 4 different principles of heat pumps.

By activation of magnetic valves the model could be switched over to air/ air -, air/ water – or water/ water operation. Relation to practice is kept by mainly using original components.

The compact and clearly structured set-up of this model allows individual applications for theoretical and practical exercises.

Integrated, directly displaying meters for temperatures and pressures within the cooling cycle allow the determination of specific characteristic values with high repeatability.

For visualizing the aggregate state of the coolant, pressure-resistant glasses are integrated at all relevant positions within the cooling cycle.

Optionally the model could be supplied with data logging for PC. The operation relevant data could be acquired, visualized and evaluated by USB interface.

The solid mobile aluminium base could optionally be configured with lockable base cabinet for storage of meters and manuals.

## Learning contents / exercises

- Get familiar with the components of heat pumps
- Comprehend and describe the set-up and functionality of the components
- Observe the aggregate states of the coolant
- Acquire and evaluate system-specific characteristic values
- Compare the data of air/ air -; air water -; water/ air - and water/ water systems
- Define the limits of each system and the resulting applications
- Functionality of safety – and control units
- Checking the safety – and control units
- Determination of possible sources of failure at heat pumps and its effects on the functionality
- Working out argumentation aids for customer talks
- Preparing a checklist for periodical check-up of heat pumps



Dimensions: approx. 1200x600x1600mm (WxDxH)  
 Weight: approx. 90kg  
 Connection: Schuko 230 VAC  
 Cold water: SK - 3/4"  
 Drain water: SK- 3/4"

740.106.000	Model Heat Pump VARIO
740.106.001	Set of Connectors
740.106.003	integrated data logging incl. evaluating software



Original Components



Integrated Digital Thermometer



Operating Panel



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