

**Heating**

Fundamental experiments on heating – training panels

**HL 101**  
Thermal expansion  
training panelInvestigation of  
thermal expansion of  
different pipe sections  
(PVC, PE, Cu, steel)

Order No.: 065.10100

**HL 105**  
Three-way mixing  
valve training panelEffect of mixing  
ratio on feed flow  
and circulating flow  
temperatureOrder No.:  
065.10500**HL 112**  
Radiator training  
panelFamiliarisation  
with a hot water  
heating systemOrder No.:  
065.11200**HL 108**  
Domestic heating  
circuit training  
panelModel of a central  
heating system with  
radiators, circulating  
pump and four-way  
mixing valveOrder No.:  
065.10800**HL 104**  
Temperature  
measurement  
training panelInvestigation of  
four different  
temperature  
measuring methodsOrder No.:  
065.10400**HL 106**  
Four-way mixing  
valve training panelEffect of mixing  
ratio on feed flow  
and circulating flow  
temperatureOrder No.:  
065.10600**HL 107**  
Circulating pumps  
training panelSeries and parallel  
operation of two  
pumps

Order No.: 065.10700

**HL 110**  
Expansion vessel  
training panelDisplacement volume  
of an expansion vessel  
as a function of the  
pressureOrder No.:  
065.11000**HL 109**  
Safety devices  
training panelFunction of safety  
valves against excess  
pressure and excess  
temperature

Order No.: 065.10900

**Heating**

Heating systems in buildings

**HL 620**  
Domestic heating system  
control training panelOperation of a modern  
heating controller

Order No.: 065.62000

**HL 360**  
Oil tank safety trainerInvestigation of tank safety  
devices and their function

Order No.: 065.36000

**HL 350**  
Oil burner demonstratorHeating boiler with viewing  
window for observing the  
flame

Order No.: 065.35000

**HL 351**  
Domestic heating boilerHeating boiler with an oil  
burner; hot water generator  
for other trainers from the  
HL series

Order No.: 065.35100



**Heating**  
Heating systems in buildings

**HL 353**  
Hot water generator

Setup of a complete domestic heating system together with HL 353.01 and/or HL 353.02

Order No.: 065.35300



**HL 353.02**  
Heat distribution and control in heating systems

Two independent heating circuits: heating circuit with one subcircuit and with two subcircuits

Order No.: 065.35302



**HL 353.01**  
Comparison of different heating types

Two independent heating circuits: floor heating or forced convector with fan and two radiators

Order No.: 065.35301



**HL 300**  
Central heating system

Function and operating behaviour of a hot water heating system with digital heating controller

Order No.: 065.30000



**HL 392C**  
Safety & control in heating systems

Function and operating behaviour of safety valve, safety pressure cut-out, temperature controller, flow switch and much more

Order No.: 065.392C0



**HL 510**  
Domestic gas supply training panel

Simulation of leaks in pipes

Order No.: 065.51000



**HL 500**  
Instantaneous gas heater

Methods of gas burner adjustment; simulation of twelve faults

Order No.: 065.50000



**HL 358**  
Forced air gas burner training panel

Nominal load adjustment and fault finding on a gas burner; hazard-free due to operation with air

Order No.: 065.35800



**HL 356**  
Demo unit, gas burner

Electronic simulation of the operation of a forced air gas burner

Order No.: 065.35600



**HL 530**  
Training panel function of gas heater

Functioning of a typical combination boiler; separate circuits for room heating and domestic water heating

Order No.: 065.53000

