

# HL 112

## Radiator training panel



### Description

- **trainer for heating and plumbing**
- **adjustment of a heating system**
- **in conjunction with other trainers in the HL 100 series, assembly of a complete heating system is possible**

The panel contains a pipe system with four radiators. Each radiator has an air bleed, a thermostatic valve and lock-shield valve.

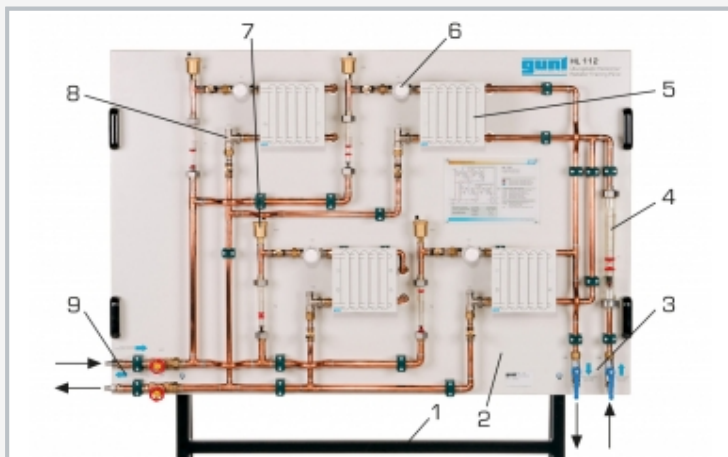
Rotameters indicate the flow rate through each individual radiator and for the entire system. Connections for cooling water make it possible to dissipate the heat supplied by the hot water. All water connections are made using quick-release couplings.

### Learning objectives/experiments

- **hydraulic balancing of radiators**
- **determination of the heat emitted**
- **determination of pipework characteristics for different operating conditions**
- **in conjunction with other training panels in the HL 100 series, it is possible to set up a complete heating system.**

# HL 112

## Radiator training panel



1 frame, 2 panel, 3 cooling water connections with ball-valves, 4 rotameter, 5 radiator, 6 thermostatic valve, 7 bleed, 8 lockshield valve, 9 boiler connections with gate valves

### Specification

- [1] trainer on heating systems and plumbing
- [2] 4 radiators with thermostatic valve, air bleed and adjustable lockshield valve
- [3] 5 rotameters
- [4] 2 water connections for boiler DN 15
- [5] 2 cooling water connections DN 15
- [6] water connections made using quick-release couplings

### Technical data

#### Radiator

- plate heat exchanger with 10 plates
- capacity: 3kW

#### Measuring ranges

- flow rate: 1x 0...1000L/h, 4x 0...300L/h

LxWxH: 1650x700x1850mm

Weight: approx. 110kg

### Required for operation

cold and hot water connection

### Scope of delivery

- 1 trainer
- 1 set of accessories
- 1 manual