

HL 358

Forced air gas burner training panel



Learning objectives/experiments

- familiarisation with components for heating systems
- starting a gas burner
- nominal load adjustment on a gas burner
- fault-finding and fixing
- calculation of the gas flow rate / operating volume

Description

- practical nominal load adjustment
- display of the most important operating pressures
- burner control sequence
- hazard-free due to operation with air

The trainer contains a commercially available forced air gas burner. The elements for a gas controlled system are combined into one compact fitting.

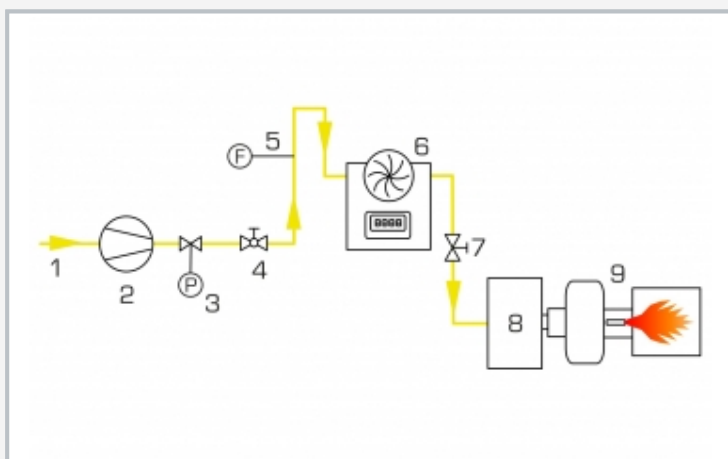
The burner function is simulated using air making it possible to use the unit in training rooms without hazard. The compressed air is supplied by a small integrated compressor.

HL 358

Forced air gas burner training panel



1 flow meter, 2 manometer, 3 valve for gas quantity, 4 gas meter, 5 ball valve, 6 compact fitting, 7 burner, 8 control elements for heating, 9 burner control sequence



Process schematic: 1 inlet gas, 2 diaphragm pump for pressure generation, 3 pressure-reducing valve, 4 valve, 5 flow meter, 6 gas meter, 7 ball valve, 8 compact fitting, 9 burner

Specification

- [1] simulation of the operation of a gas burner
- [2] hazard-free operation of the burner with air
- [3] diaphragm pump for pressure generation, pumping medium: air
- [4] display of the most important operating pressures on single tube manometers
- [5] indication of burner operation using a flickering light
- [6] monitoring of burner operation using flame safeguard
- [7] EXCEL-file for calculating the operating volume included in the delivery

Technical data

Gas burner

- rating class: 15...45kW

Gas pressure controller

- admission pressure: 0,4bar
- outlet pressure: 0,04bar

Diaphragm pump

- power consumption: 70W
- max. flow rate: 70L/min at 230mbar

Measuring ranges

- flow rate air: 0,5...5,5m³/h
- pressure: 3x 0...50mbar

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

UL/CSA optional

LxWxH: 1750x700x1850mm

Weight: approx. 120kg

Required for operation

PC with Windows recommended

Scope of delivery

- 1 trainer
- 1 CD with Excel-file
- 1 set of tools
- 1 manual