

# HL 352.02

## Natural gas burner



The illustration shows a similar unit

### Description

- natural gas burner for installation in the HL 352 test stand
- gas fan burner

In a gas fan burner, the ratio of combustion air to gas quantity can be precisely dosed. The combustion air is supplied via a fan, which means that the combustion process is less dependent on ambient conditions such as the draught of the chimney. Due to the precise dosing, the burner can be operated with a small surplus of air and thus achieves a good firing efficiency.

Gas fan burners can be used for H/L natural gas or biogas or liquefied petroleum gas. They differ in their gas connection with the gas hoses, burner settings and pressure controller.

HL 352.02 is configured to use natural gas by default.

The HL 352.02 Natural gas burner is a commercially available gas fan burner in the power range that is commonly used for residential buildings.

The HL 352 test stand can be used to measure important temperatures and pressures, which are then available for further calculations. A thermal balance can be created from the measurement data and the energy efficiency can be determined.

### Learning objectives/experiments

- together with the HL 352 test stand
  - ▶ investigation of a natural gas burner
  - ▶ thermodynamic balance

### Specification

- [1] natural gas burner for installation in the HL 352 test stand
- [2] hoses with connections and gas pressure controller for the fuel supply
- [3] sensor and digital displays for gas pressure, temperatures and flow rate on the HL 352 test stand

### Technical data

Natural gas burner  
 ■ max. output: 15kW

LxWxH: 800x400x400mm  
 Weight: approx. 11kg

### Required for operation

natural gas connection

### Scope of delivery

- 1 experimental unit
- 1 manual

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Required accessories

HL 352                    Test stand for oil, natural gas and propane gas burners