

HL 352.03

Propane gas burner



The illustration shows a similar unit

Description

- propane 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 352.03 is configured to use liquefied petroleum gas, in this case propane gas, by default.

The HL 352.03 Propane 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 propane gas burner
 - ▶ thermodynamic balance

Specification

- [1] propane 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

Propane gas burner
 ■ max. output: 18kW

LxWxH: 800x400x400mm
 Weight: approx. 11kg

Required for operation

propane 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