

H 2021

Hydrogen Analyzer
special for Aluminium and
Aluminiumalloy



JUNG
INSTRUMENTS GmbH

C S O N H

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Hydrogen Analyzer special for Aluminium and Aluminium alloy

Analysis principles

Melting of the Sample by a high frequency induction furnace (HF)

Features

- Melting point control with automatic furnace stop
- Automatic furnace cleaning by N₂ gas
- Gas calibration
- Measurement of temperature by pyrometer
- Self cleaning of the quartz combustion tube by heating

Sample mass

Up to 6 g in graphite crucible

Detection system

Thermal Conductivity Detector (TCD)

Pneumatic

- Furnace cylinder movement up/down: < 1 bar/air
- Closed furnace in end position: 6 bar/air

Technical parameters

High-frequency furnace

The RF Generator is a free floating, air-cooled oscillator in a Colpitts circuit.

Controller

High performance controller by National Instruments

Analysis time

(Sample dependent)

Around 7 minutes

Reproducibility

+/-1% relative (by gas)

Measuring Ranges

(Sample dependent)

- From 0,004 ppm
- Up to 90 ppm

Induction furnace

- 13.7 MHz, 20 MHz or 27 MHz
- 2.3-3.0 KVA Power

Gases required

Nitrogen:

Purity carrier gas N₂ 5.0

- 2 bar (30 psi) for analysis

Compressed air:

- 6 bar (90 psi)
- Oil- and water free

Power requirements

Analyzer:

230V AC +/-10%,
50/60Hz

(Automatic fuse: 16A Type C)

Dimensions (W x H x D)

550 x 775 x 600 mm

21.7 x 30.5 x 23.6 inch

Weight

~100 kg

Accessories

- Analytical balance 0,0001g to minimum 120 g
- New PC system
- Windows based operating system

Option

Color printer

Sensitivity

0,001ppm





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