

HAFFMANS VOS ROTA 2.0

TURBIDITY METER

PRODUCT LEAFLET



GENERAL PRODUCT INFORMATION

Beer turbidity is one of the most important acceptance criteria for consumers and an important indicator to predict the packaged product's shelf life.

The Haffmans Turbidity Meter, type Vos Rota 2.0 is an easy-to-use and reliable instrument to measure turbidity during production and after filling. It has a measuring range of up to 500 EBC/34,600 ASBC, which makes the instrument suitable for a wide range of beer types, including very turbid beers.

FUNCTION

The Haffmans Turbidity Meter, type Vos Rota 2.0 measures the scattered light caused by particles and incorporates the latest standards from the MEBAK including:

- 90° and 25° measurement angles
- Red light 650 ± 30 nm
- Formazine calibration standard

Particles smaller than 1 µm, such as proteins, mainly cause side-scattered light and are measured at 90°. Particles larger than 1 µm, such as diatomaceous earth (DE) and yeast, mainly cause forward-scattered light and are measured at 25°. The dual angle measurement provides operators with fast and reliable insight on the condition of the measured product. This allows for a quick response to deviations in the production process.

The software on Haffmans' Vos Rota 2.0 is easy and intuitive to operate due to a user-friendly interface and a color touchscreen. To take the measurement, the bottle or cuvette is placed in the instrument and clamped with a magnetic centering mechanism. The water level and position of the lid are automatically checked prior to each measurement. Then the sample is rotated, and multiple measurements are taken. Each measurement is stored in the instrument's logbook and is traceable by a unique sample identification number. For further analysis, the measuring data can be transferred from Haffmans Vos Rota 2.0 to a Windows-based PC.

The Haffmans Vos Rota 2.0 provides simple and easy cleaning and maintenance. The magnets that position and fix the sample do not require tools to remove. In addition, the Vos Rota 2.0's innovative design eliminates any dead spaces, which significantly simplifies cleaning.

An added advantage of Haffmans' Vos Rota 2.0 is that operators can calibrate the instrument on-site using Formazine according to the MEBAK recommendations. This ensures that the instrument is always in optimal condition.

EXCELLENT CORRELATION

The Haffmans Vos Rota 2.0 features the same laser technology as the Haffmans In-line Turbidity Meter, type OptHaze-i, which ensures excellent compatibility of these instruments. In addition, the Haffmans Vos Rota 2.0 is compatible with other instruments that incorporate the MEBAK recommendations.

BENEFITS

- Measuring range up to 500 EBC/34,600 ASBC
- Easy cleaning and low maintenance
- Intuitive operation through user-friendly software interface and touchscreen
- Users can calibrate instrument using Formazine

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TECHNICAL DATA

VOS ROTA 2.0

Measuring angle 90° and 25°
Wave length 650 ± 30 nm

Measuring range

EBC units	0,00 - 500,00
ASBC units	0,00 - 34,600
Helm units	0,00 - 20,000
FTU units	0,00 - 2,000

Bottle dimensions

Height max. 350 mm
Diameter min. 50 mm/max. 90 mm

Interfaces

3x USB (PC, memory stick, barcode reader)
1x LAN

Voltage

24 V DC

Instrument's dimensions

370 x 250 x 460 (LxWxH mm)

Weight

15 kg

SCOPE OF SUPPLY

- Turbidity Meter - type Vos Rota 2.0
- Mains power supply cable (Euro, US, UK or AUS plug)
- Service set
- Instruction manual
- Hose connectors (2x)

OPTIONS

- Certificate of measurement
- Barcode reader
- Formazine 500 ml, 1,000 EBC
- A EPA standards, available in various concentrations



HAFFMANS BV

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