Haffmans

Turbidity Meter

General information

As it affects a beer's shelf life and serves as acceptance criterion for consumers, the amount of turbidity is important for quality. The laboratory turbidity meters VOS ROTA 90/25 and VOS ROTA 90 incorporate the latest standards from MEBAK (Mitteleuropäische Brautechnische Analysekommission). Particles smaller than 1µm, such as proteins, mainly cause scattered light under 90°. Particles larger than 1µm, such as kieselguhr and yeasts, mainly causing forward-scattered light, are measured under 25°.

Principle of operation

VOS ROTA 90/25:

Scattered light caused by haze particles is measured at 90° and 25° angles. A red light source is used, operating at a light wavelength of 650 \pm 30 nm (as recommended by MEBAK). The operator can, if desired, also work with white light by removing the light filter.

VOS ROTA 90:

The measurement of turbidity with the VOS ROTA 90 works on the same principle and measures the scattered light only under 90° and guarantees a 100% correlation with the VOS ROTA 90/25.

The measurement is started by pressing the START button. The measurement is automatic and the result is displayed on the large LCD display.

Beverage Quality Control



NORIT The Purification Company





VOS Rota 90/25, 90



Technical information

Features

Robust housing with protection for the measuring chamber,

- Shows measurement progress and results on one screen,
- Storage of up to 10 calibration curves to avoid influence of various bottles,
- Convenient calibration with an optimum fit against non-linearity of haze standard, Memory capacity for up to 999 measurements,

Different measurements units: EBC, FTU, ASBC formazin and Helm units.

Advantages

Automatic centring and rotation of the sample for accurate measurement, Stabilised lamp voltage, Halogen lamp with lifetime of over 2000 service hours, Light wavelength 650 ± 30nm by means of exchangeable light filter,

- Hermetically sealed optics for absolute prevention of condensation,
- Water bath with the possibility of continuous water flow.

Benefits

Automatic measurement, No influence of bottle colour or size, Possible use for different products types, Determination of the product shelf life with the forcier-test, Control of the process performance (e.g. filtration), Exchangeable light filters, Different turbidity units available.

Scope of supply

- Turbidity Meter, type VOS ROTA 90/25 or VOS ROTA 90
- Mains cable with Euro plug* (CEE-7 / VII, IEC-83/C4)
- Cuvette
- RS-232 connector cable
- Data transfer software
- Service set
- Operating manual

* Mains cable can also be delivered on request with the following plugs:

American plug (NEMA 5-15P, IEC-83/A5-15) British plug (BS 1363A, IEC-83/B2) Swiss plug (SEV Type 12) Australian plug (ASC 112)

Technical data			
Measuring range:		Bottle dimensions:	
EBC units:	0.00 - 100.00	Height:	max. 320 mm
ASBC units:	0.0 - 6,920.0	Diameter:	min. 50 mm
Helm units:	0.0 - 4,000.0		max. 90 mm
FTU units:	0.00 - 400.00	Voltage:	100-240V AC/50-60 Hz
Memory capacity:	Up to 999 measurements	Interfaces:	Centronics
			RS-232
Number of calibration curves: 10			Bar code reader
Display:	Graphic LCD, 1000 x 80 mm	Dimensions:	430 x 330 x 455 (H x W x D in mm
	Back illuminated		
		Weight:	19 kg

Haffmans B.V. reserve the right to make changes in the technical specifications at any time.



Haffmans B.V.

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