Haffmans

CO_2 Purity Tester

General information

The quality of CO_2 receives increased attention in the brewing and soft drink industry. The beverage industry demands more CO_2 with both a higher end purity and a lower oxygen content.

Breweries used to recover CO_2 with an intake purity of 99,7%, but nowadays it is already recovered at 95% intake purity to cater for the increasing demand for CO_2. In the brewing and the soft drinks industries, important and necessary parameters to measure are the intake and the end purity qualities of fermented or commercial CO_2. Fast, simple and accurate measurements are required to quantify these qualities in both fermented and commercial CO_2.

CO_2 Purity Testers, types CPT 99-100 and CPT 50-100, comply with these demands and can be used for routine controls of CO_2 purity in the beverage industry.

Principle of operation

Under atmospheric pressure, the measuring burette is filled with the gas that needs to be measured. The lye solution is added by closing the gas supply and opening the tap connected to the lye reservoir. Only the CO_2 will chemically react with the lye, other gases present will not. After the measuring burette has been placed vertically, the remaining gases collect in the calibrated section. The purity can be read in % v/v on the measuring burette. The measuring burette has a either a scale from 99 - 100% v/v or from 50 - 100% v/v.

Beverage
Quality Control

NORIT *The Purification Company*

CO_2 Purity tester

Technical information

Features

CO_2 purity measurement in the range from 99 to 100 % v/v or 50 to 100 % v/v,
High accuracy,
Unbreakable plastic shield,
Good reproducibility.

Advantages

Compact and robust,
Portable,
Light weight.

Benefits

Simple and fast measurement,
Multiple measurements can be executed,
Easy to carry around,
Damage protected.

Scope of supply

- CO_2 Purity Tester, type CPT 99-100 or CPT 50-100
- Operating manual

Technical data

Measuring burette 99 - 100%

Measurement range:	99.00 - 100.00% v/v CO_2
Graduated scale:	0.02% v/v foreign gas
Accuracy:	0.01%
Volume:	170 ml lye solution
Lye:	Sodium hydroxide NaOH
	Potassium Hydroxide KOH 30%
Solution concentration:	30% g/v NaOH
	30% g/v KOH with approx. 1% methanol white spirit
Dimensions:	430 x 330 x 110 (L x H x W in mm)
Weight in gram:	1040

Measuring burette 50 - 100 %

Measurement range:	50.0 - 100.0% v/v CO_2
Graduated scale 50 - 90%:	2.0% v/v foreign gas
Accuracy 50 - 90%:	1,0%
Graduated scale 92 - 100%:	0.2% v/v foreign gas
Accuracy 92 - 100%:	0.1%
Volume:	170 ml lye solution
Lye:	Sodium hydroxide NaOH
	Potassium Hydroxide KOH 30%
Solution concentration:	30% g/v NaOH
	30% g/v KOH with approx. 1% methanol white spirit
Dimensions:	430 x 330 x 110 (L x H x W in mm)
Weight in gram:	1040

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

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