BEERLab®

Analysis system for beer

Analysis on beer and water with **CDR BeerLab®**

Beer

TEST	Measuring range	Repeatability	Resolution	Testing time
Fermentable sugars on beer (glucose, fructose, maltose)	0.1 - 18 g/L	0.15 g/L	0.1 g/L	6 min
Fermentable sugars on wort (glucose, fructose, maltose, sucrose)	15 - 200 g/L	2 g/L	1 g/L	6 min
Lactic Acid D+L	150 - 3500 ppm	2 ppm	1 ppm	10 min
Bitterness available with the CDR BeerLab model only	5 - 100 IBU	0.5 IBU	0.1 IBU	11 min
Color	EBC 1-100 SRM 0.5-50	EBC 1 SRM 0.5	EBC 1 SRM 0.1	1 min
Alcohol by volume	0.1 - 17.0 % v/v	0.2% v/v	0.1% v/v	6 min
pH wort	3.60 - 6.00	0.02	0.01	1 min
Starch	0.10 - 10.0 g/L	0.05 g/L	0.01 g/L	1 min
FAN Free Amino Nitrogen by OPA	30 - 300 ppm	2 ppm	1 ppm	4 min
Total SO_2	1 -30 ppm	0.2 ppm	0.1 ppm	2 min

In only 15 minutes is possible to analyze up to 16 samples with the **CDR BeerLab®** model and up to 3 samples with the **Junior** model.

Water

TEST	Measuring range	Repeatability	Resolution	Time test
Calcium	5- 250 ppm	0.5 ppm	0.1 ppm	1 min
Magnesium	2 - 50 ppm	0.5 ppm	0.1 ppm	1 min
Bicarbonate	0 - 300 ppm	1 ppm	1 ppm	10 min
Chloride	100 - 500 ppm	1 ppm	1 ppm	1 min
Potassium	50 - 500 ppm	1 ppm	1 ppm	1 min
Sulfate	20 - 250 ppm	1 ppm	1 ppm	1 min
Zinc	0.05 - 1 ppm	0.03 ppm	0.01 ppm	1 min

The analyses in water are available with the **CDR BeerLab®** model only.

CDR BeerLab® VER. 3.0 oeL

FOODLAB®
Quality control systems for food and beverage

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THE SYSTEM

CDR BeerLab® is composed of a thermostated analyzer based on **photometric technology** that uses **LED**; a kit with disposable pre-vialed **reagents** with **low toxicity**, in package of 10 tests, 1 year shelf life, developed and produced by the research laboratories of CDR.

Just few steps are required to perform the analyses. If there is ever a doubt, the **HELP function** on the display will lead you step by step through the process.

REDUCED TESTING TIMES

With **CDR BeerLab®** now it is possible to perform the analyses autonomously, in your own brewery, easily and rapidly, without relying on dedicated external laboratories. It is possible to **analyze 16 samples at thesame time** (with the **CDR BeerLab® model**) and to monitor constantly the production process, obtaining in few minutes exact and accurate answers.

EASY TO USE

The system is designed to be used by anyone, without the support of skilled staff.

The analysis methods are easier than the traditional ones and can be performed in few steps:

1 Adding the sample volume to the pre-vialed reagent.

2 Following the displayed instructions and if there is ever a doubt, the **HELP function** will lead you through the process.

3 Results are automatically calculated, displayed and printed.

RELIABLE

This measuring system owes its **sensitivity, accuracy and reliability** to the photometric technology based on LED luminous sources. The **results** of the analyses are **correlated with the reference methods**.

	BEERLab®	BEERLab® Jr.
Display		
	5,7” TFT color LCD touchscreen	4,3” Wide TFT color LCD touchscreen
Connectivity		
	2 USB 2.0 to transfer the database of performed tests and update the configuration and software	1 USB type B for technical service and PC connection
	1 USB type B for technical service and PC connection	Bluetooth 2.1
	1 Ethernet (LAN)	
Storage of results		
	Internal memory to store thousands results of analyses in CSV and XML files, compatible with all database formats (e.g.:XLS, SQL).	Internal memory to store thousands results of analyses in CSV and XML files, compatible with all database formats (e.g.:XLS, SQL).
Photometric module		
	6 different wavelengths in 4 reading cells	6 different wavelengths in 4 reading cells
Incubation module		
	37°C thermostat block with 16 positions	37°C thermostated block with 3 positions
Number of samples you can analyze at the same time		
	16	3
Multitasking mode (possibility to perform more analyses on the same sample)		
	Yes	No
Printer		
	Graphic printer on board 80 mm width	Absent
Dimension and weight		
	32 x 29,5 x 13 cm (W x D x H) 2,80 Kg	15 x 22 x 8,3 cm (W x D x H) - 0,80 Kg
Power supply		
	24 V	24 V or lithium ion battery (optional)
Beer analyses		
	Yes	Yes, except bitterness
Water analyses		
	Yes	No