Technical Data Sheet

Index Measuring Device
BECO® LiquiControl$_2$

Fully-automatic Device for Determining Filterability

BECO LiquiControl$_2$ index measuring device primarily determines the filterability of any beverage or ready-to-bottle liquid. Prior to membrane filtration, a sample is filtered under defined and reproducible conditions (constant pressure) through a reference membrane.

Depending on the sample quantity, the filterability of the medium is considered "good" if a defined sample volume is achieved. If the defined volume is not obtained, further measurements for the improvement of filterability become necessary.

If a single sheet lab filter (e.g., BECO INTEGRA® LAB 60) is connected to the device instead of the filter carrier, the ideal filter sheet can be determined as well.

A variable pressure setting allows for different depth filter sheets to be considered.

Advantages

- **Ideal assessment** of the filterability and the quality of the filtrate
- **Longer total service life** of the membrane filter cartridges for pre-filtration and targeted determination of the regeneration intervals.
- **Reduction of downtime** during filling due to perfect pre-filtration
- **Enables optimum choice** of cartridge filter systems due to pilot tests
- **Polluting load analysis** of service media (rinse water, steam condensate)
- **Easy handling** and **cleaning** of the device
- **Variable filtration pressure**
- **High flexibility** due to a separate container for liquid to be filtered
- **Display of all measured data from archive**
- **Ethernet interface** for data download

Filterable Media

- Wine/sparkling wine
- Water/mineral water
- Juice
- Beer from pressure containers
- Service media

Display Values

During measurement

Current filtrate volume in ml
Current pressure of sample in mbar
Flow rate in ml/min
Current temperature of medium

After measurement

Flow rate with 1 liter filtrate volume in ml/min
Flow rate with 2 liter filtrate volume in ml/min
Flow rate with 3 liter filtrate volume in ml/min
Flow rate with 4 liter filtrate volume in ml/min
Flow rate with 5 liter filtrate volume in ml/min
Entire filtrate volume in ml

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Technical Data

Max. volume:	1.43 gal (5.4 l)
Operating pressure:	0 – 43.5 psi (0 – 300 kPa, 0 – 3 bar)
Membrane diameter:	1.85 in (47 mm)
Membrane, pore size:	0.45 µm; 0.65 µm
Max. temperature of medium:	176 °F (80 °C)
Max. ambient temperature:	33.8 – 122 °F (1 – 50 °C)
Weight:	37.5 lb (17 kg)
Dimensions (L x W x H):	Measuring device: 13.8 x 11.8 x 17.7 in (350 x 300 x 450 mm) Container: Ø 7.9 in, height: 13.8 in (Ø 200 mm, H: 350 mm)
Display:	Micro-Panel 3,5" Color-Touch-Display

Materials

Measuring device, filter carrier:	Stainless steel AISI 304/AISI 316L
Container:	Stainless steel AISI 304
Product contacting parts:	Stainless steel AISI 304/AISI 316L, PA

Connections

Voltage/frequency:	230 V/50 Hz 110 V/60 Hz
Protection class:	IP54
Inlet connection:	Ø 1.14 in (Ø 29 mm)

Accessories

Article-number	Description	Packing unit
BJTI2000	BECO LiquiControl$_2$ index measuring device including container for liquid to be filtered	1
BJTI2B01	Additional container for liquid to be filtered, 1.43 gal (5.4 l)	1
PSF04W47	Membrane 0.45 µm	100

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