



**Hamry 3567, 580 01 Havl. Brod, Czech Rep.**  
tel + 420 569 433 620 fax + 420 569 422 144  
1-cube@1-cube.com www.1-cube.com

## LABORATORY CARBONATION SYSTEM LSN 2

Laboratory Carbonation System has been designed for carbonation of beverages in glass, plastic bottles. The device carbonates individual beverage samples with exactly predefined CO<sub>2</sub> content. The possibility of different carbonation settings helps to develop optimally carbonated beverage samples for “sensoric” testing.

### OPERATION:

Put the bottle into the device and set the carbonation level and type of beverage: beer, radler, wine, water. Press the „Start“ button since now the device runs fully automatically by microcomputer.

First the device determines automatically the volume of necklace and afterwards it starts to dose an exact pre-defined quantity of CO<sub>2</sub>, undissolved CO<sub>2</sub> is returned back to into the beverage with the help of pump until it is absorbed completely by liquid. Once the required level is achieved the carbonation is automatically stopped.

Once the carbonation is over you can remove the bottle from the device.

### ADVANTAGES:

- Cost savings during beverage development
- Simple adjustment for different bottle sizes
- Simple adjustment for different CO<sub>2</sub> content
- Fully automatic function / Menu-driven input of bottle size and CO<sub>2</sub> value
- Fully automatic operation
- Very good repeatability of results
- High accuracy regardless the temperature
- Automatic measurement of head space volume and reduced foaming of the beverage samples
- Automatic cleaning program
- Low maintenance effort

### Technical data:

- Glass and plastic bottles size up to 380mm height / 100mm diameter (other sizes on request)
- Dosing capacity: 0 to 10 g/l (depend on temperature and CO<sub>2</sub> solubility in liquid)
- Accuracy: +/- 0.1 g/l
- Max. Bottle pres.: 5,5 bar
- Dimensions: 510x410x570 (W x H x D)
- Weight: 20 kg
- RS232, USB
- 230V/50Hz

