ΔT2E

Safety • Efficiency • Flexibility • Reliability...



Quality Control Instruments

afaq ISO 9001 Qualité AFNOR CERTIFICATION

V. 10102062025093721

CO_2-P CO_2 Purity Tester



The CO_2-P CO_2 Purity Tester is a special instrument which is for calculating the purity of CO_2. The principle is based on absorption burette to measure the impurities (O_2 and N_2 e.g.) of CO_2 in a mixture of gases.

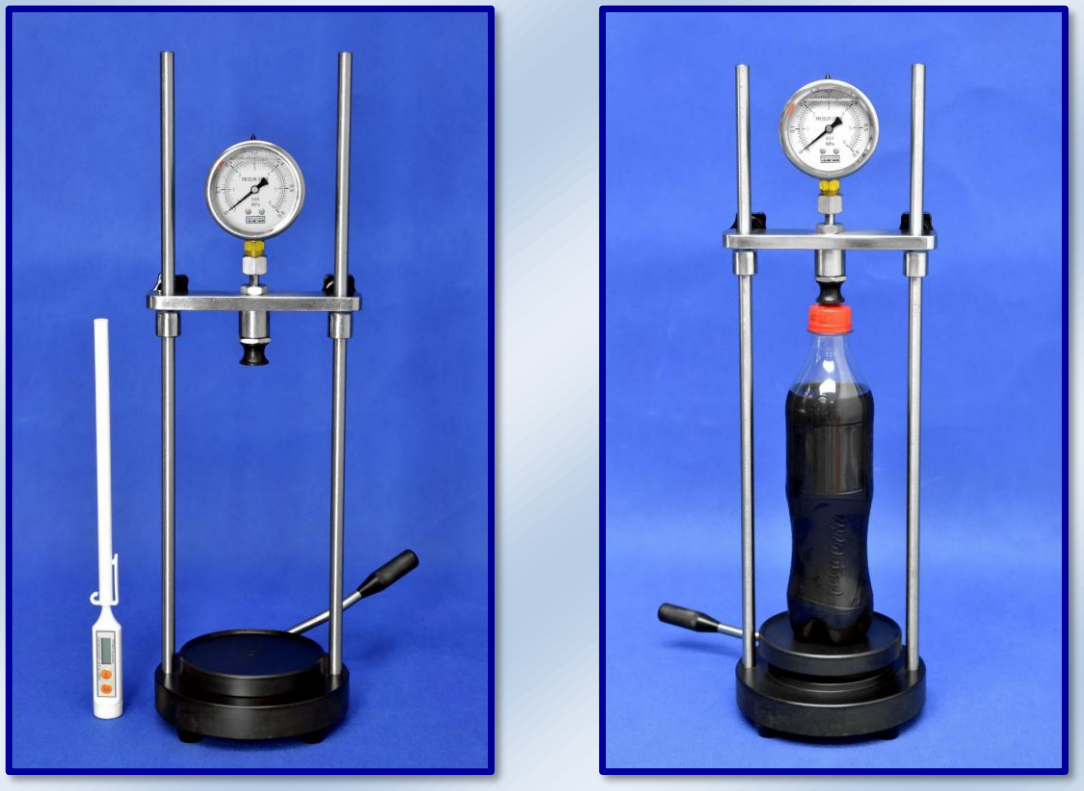
The CO_2-P CO_2 Purity Tester is widely used in breweries, the laboratory measurement of CO_2 recycling and purchasing.

Technical specifications:

- Measurement range: 99.0~99.999% v/v CO2
- Accuracy:
  - 99.00%~99.75%: 0.05 % v/v
  - 99.80%~99.97%: 0.01 % v/v
  - 99.980%~99.999%: 0.001 % v/v
- Volume: 105ml KOH (NaOH)
- Dimensions: 250mm×250mm×80mm
- Weight: about 0.75kg
- Alkali liquor: 30% g/v KOH (NaOH)

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CO_2EASY / CO_2EASY-D CO_2 Measuring Device



CO_2EASY with analog pressure indicator

For a constant quality and taste of all kinds of carbonated drinks, the critical parameter is the CO_2 (carbon dioxide) content in the liquid.

Our CO_2 measuring device is a standard equipment and widely used in breweries and in the non-alcoholic beverage industry for frequent measuring of the CO_2 content during production.

Allows a fast and accurate determination of the CO_2 content in beer and carbonated drinks after drilling.

Technical specifications:

- Pressure units: Bar / MPa (dual graduation)
- Temperature units: °C
- Measuring range: 0 - 6 Bar
- Resolution: 0.1 Bar / 0.01 Bar
- Pressure indicator precision:
  - Analog: ±2.5% F.S.
  - Digital: ±0.5% F.S.
- Temperature: 0 - 50 °c
- Temperature Resolution: 0.1°C
- Temperature precision: ±1°C
- Sample height range: 50 mm - 330 mm (larger by order)
- Bottle diameter: maximum 105 mm (larger by order)
- Dimensions: 200 (L) x 192 (W) x 475 (H) mm
- Net weight: 2 kg



CO_2EASY-D with digital pressure indicator

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CO_2EASY-DA Automatic CO_2 Calculator







For a constant quality and taste of all kinds of carbonated drinks, the critical parameter is the CO_2 (carbon dioxide) content in the liquid.

Our CO_2 measuring device is a standard equipment and widely used in breweries and in the non-alcoholic beverage industry for frequent measuring of the CO_2 content during production.

With the automatic CO_2 calculator, the CO_2 content in beer and carbonated drinks can be calculated automatically after drilling.

Technical specifications:

- Measuring range:
  - CO_2: 0.00 to 9.99 g/l
  - Temperature: 0 to 60 °C
  - Pressure: 0 to 6 bar
- Accuracy:
  - CO2: ± 0.5% F.S.
  - Temperature: ±0.5% F.S.
  - Pressure: ± 0.5% F.S.
- Resolution:
  - Temperature: 0.1 °C
  - Pressure: 0.01 bar
- Units:
  - CO2: g/L, Vol, %b.w, P20[kg/cm^2]
  - Pressure: bar, psi
  - Temperature: °C, °F
- Sample height range: 50 mm - 330 mm (larger by order)
- Bottle diameter: max. 105 mm (larger by order)
- Powe supply (for adapter): AC 110 - 240 V 50/60 Hz
- Battery chamber for 18650 is available (Battery is not supplied)
- Dimension: 220(L) x 250(W) x 480(H) mm
- Net weight: 3 kg

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CO_2DA Automatic Shaker & CO_2 Calculator





AT2E CO_2DA - Automatic Shaker & CO_2 Calculator is a special instrument which is for calculating the carbon dioxide content in the filled drink in glass/PET bottles and cans. The simple operation which also guarantees high reproducibility makes it become a significant equipment of quality control in the beverage industry.

Operation:

- Place the sample drink
- Piercing the sample
- Press the start button to test
- Obtain the carbon dioxide content after shaking

Features:

- Instead of manual shaking, motor shaking guarantees high reproducibility
- Stainless steel design
- High resolution touch screen with user-friendly interface
- Settable shaking speed and time
- High accuracy
- Calculate the CO_2 content automatically and rapidly
- Good repeatability
- Simple and easy piercing & operation
- Applicable for most of the glass bottle, PET bottle and can



Control panel

Technical specifications:

- Measuring range:
  - CO_2: 0.00 to 9.99 g/l
  - Temperature: 0 to 60 °C
  - Pressure: 0 to 6 bar
- Accuracy:
  - CO_2: ± 0.5% F.S.
  - Temperature: ±0.5% F.S.
  - Pressure: ± 0.5% F.S.
- Resolution:
  - Temperature: 0.1 °C
  - Pressure: 0.01 bar
- Sample range:
  - Maximum diameter: 120 mm
  - Maximum height: 380mm
- Units:
  - CO_2: g/L, Vol, %b.w, P_{20}[kg/cm^2]
  - Pressure: bar, psi
  - Temperature: °C, °F
- Power supply: AC 110 - 240 V 50/60 Hz
- Dimension: 730(L) x 450(W) x 460(H) mm
- Net weight: 52 kg

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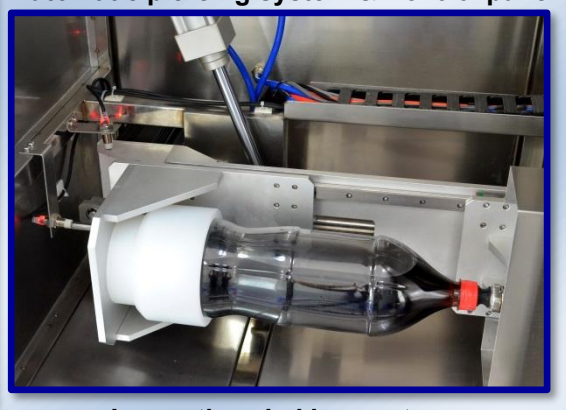
CO_2-CS Automatic CO_2 Calculating System







Automatic piercing system & Control panel



Innovative shaking system

CO_2-CS Automatic CO_2 Calculating System is an innovative and full automatic CO_2 content calculating system which is newly developed by AT2E. With the innovative shaking system and design, it will be safer for operator. Integrate touching screen design offers a user friendly operating process and abundant measuring information.

Features:

- Full automatic system – easy to get the CO_2 content only by putting the sample into the system and the whole process including puncture, sealing, shaking, displaying and venting will be carried out automatically.
- Stainless steel design – which is more durable and steady when testing.
- Innovative shaking method – Allow the shaking of sample and the CO_2 evolution to be more complete. Thus, the measure result will be more accurate. Meanwhile, with the innovative design, it avoids any mechanical maintenance problems which may occur on typical rotary shaker.
- Safety design – the whole shaking process is carried out inside the chamber which may avoid the potential danger to operator.
- PLC & Touch screen is equipped – which enable the more accurate measure and customized measure request. Shaking time and shaking speed can be set according to operator's demand.
- Abundant information – operator, product name, batch number and sample number can be edited and saved with the system.
- 2 formulas – for alcohol drink and soft drink, 2 different CO_2 calculating formulas could be selected as per demand.
- Threshold display – results which are higher and lower than the standard will be displayed.
- SPC connected is available.
- Easy clean for leftover drink in shaking system.

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Technical specifications:

- Power supply: AC 220V (AC 110V optional)
- Sample range: up to 120mm in diameter / up to 360mm in height.
- CO_2 measuring range: 0 – 9.99 g/L.
- Temperature measuring range: 0 to 60 °C
- Pressure measuring range: 0 – 6 bar.
- Accuracy: ± .5% F.S.
- CO_2 content units: “g/L”, “Volume”, “Weight%” and “P_{20}[kg/cm^2]”.
- Temperature units: °F and °C
- Language: English / French / Spanish / Chinese.
- Overall size (L x W x H): 1040 x 540 x 1060 mm
- Net weight: 100 kg.

Optional parts:

- Insert for different size of bottle
- Calibration pack
- Data analyze and management software

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ABSD-1 Automated Beverage Sampling Device

- For beer & soft drink



In beer and soft drink industries, reproducible and proper samples from bottles and cans are required for various of quality control processes. The AT2E “ABSD-1 Automated Beverage Sampling Device” is designed to be the smart, easy and safe device for this requirement.

With the ABSD-1, operator can have an automated sampling process. For example: operator firstly adjust the inserting depth of the sampling pipe, then install the sample, close the door and press the button on the touching screen. Afterwards, the piercing and sampling process will be done automatically and the sample will be forced out into the sample line for the upcoming CO_2, O_2 and other analyze and test.

Attribute & benefit:

- Safe, easy and rapid sampling process comparing to manual sampling device.
- Compatible for different kind of package, including glass bottle, plastic bottle and can.
- User-friendly touching screen design. Easy adjustment for different size and kind of packages.
- Work with other brands of instruments.

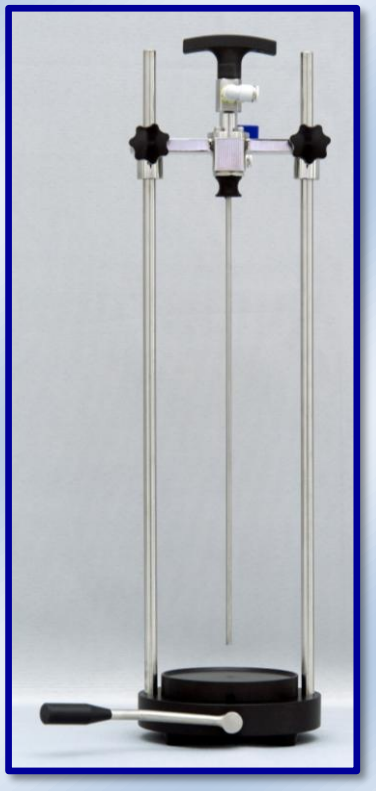
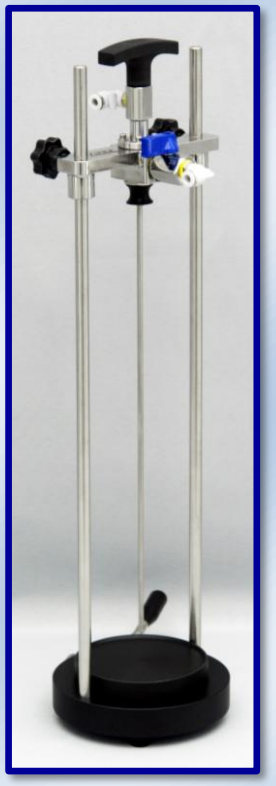
Technical specifications:

- Sample range: from 80 to 400 mm in height
  from ø 45 to ø 125 mm in diameter
- Connection: ø 8 mm for pressure pipe
  ø 4 mm for sampling pipe
- Pressure requirement: 5 - 8 bar
- Overall size: 368 x 428 x 1168 mm
- Weight: 25 kg

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BSD-1 Beverage Sampling Device

- For beer & soft drink


BSD - Piercing and" Beverage Sampling Device" allows sampling bottled or canned products.

With very easy operation, connect the pressurizing pipe to pressure source, install the beverage onto the base, lift up the handle and the piercing will be performed. Down the piercing needle up to the bottom of sample, then open the tap to raise pressure into sample's airspace, with pressure effect, liquid will flow into the measuring instrument installed beside.

Several applications in analysis suitable depending on the analysis instrument linked to your products.

Mainly used in Beer and soft drink industries.

Technical specifications:

- Pipe: ø 6 mm
- Bottle / Can Height: min. 40 mm, max. 380 mm
- Bottle / Can Diameter: max. 110 mm
- Pressure requirement: 0 - 2 bar
- Dimensions: 130 X 465 mm (Diam x H)
- Weight: 2kg



Sampling of various types of products

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AD-1/AD-2 Automated Degasser

- For quick degassing of carbonated beverages





AD series Automated Degasser is an instrument developed by AT2E for quick degassing of the dissolved CO2 gas in carbonated beverages in order to test the degassed samples accordingly.

The instrument consists of degassing unit and vacuum pump. The stirring time of the degassing unit can be set according to the characteristics.

Working principle

- AD-1 to stir the carbonated beverage with the high-speed stirrer
- AD-2 to vibrate the carbonated beverage with the ultrasonic

Both models could make the dissolved CO_2 gas release rapidly, then generate the vacuum condition with a vacuum pump to exhaust the released CO_2 gas from chamber, thus achieving the purpose of quick degassing of the sample.

Technical specifications:

Item	Degassing unit		Oil-free Vacuum pump
Model	AD-1	AD-2	AD-1/AD-2
Power Supply	220V	220V	220V
Rated power	1000W	100W	180W
Dimension	220×250×490 mm	460×250×350 mm	315×135×210mm
Weight	13 kg	6 kg	10 kg
Remark	Stirring time：0-9999 s	Vibrating：0-9999 s	Pumping speed：30L/min
Sample specifications: Temperature: 5 - 40 °C, Volume: 400 - 1200 ml			

Optional model AD-D with dual degassing units



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BRD-1 Bottle Rotating Device



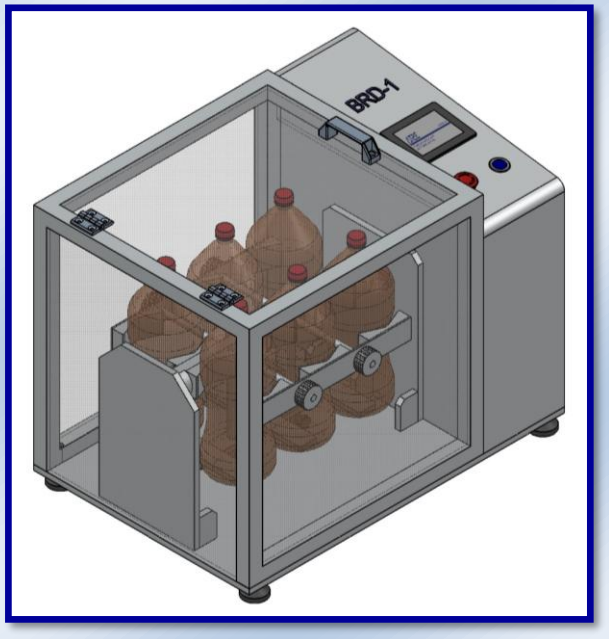
BRD-1 Bottle Rotating Device is a fine designed instrument for the shaking process of bottled products by the means of rotation. The compatible clamping unit can clamp bottles with diameters from 55 - 125 mm, bottle heights up to 350 mm. Rotation speed and time is adjustable which is more flexible for different test requirements. Cover design ensures the safety of operators.

Features:

- Rotation speed adjustable
- Rotation time adjustable
- Touch screen control, user-friendly and easy operation
- Stainless steel frame and cover design, safe and durable
- 6-position capacity

Technical specifications:

- Bottle diameter: 55 - 125 mm (other range by order)
- Bottle height: max. 350 mm (other range by order)
- Rotation speed: 10% - 99% (4 - 40 rpm)
- Rotation time: 1 - 999 sec.
- Power supply: AC 220V (AC 110V optional)
- Dimensions: 780 x 500 x 650 mm (L x W x H)
- Weight: 75 kg



Safety frame for BRD-1 (Optional)

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BS-1 Bottle Horizontal Shaker





BS-1 Bottle Horizontal Shaker is a fine designed instrument for the shaking process of bottled products by the means of horizontal shaking. The compatible shaking platform can hold bottles with diameters from 0 - 240 mm, bottle heights up to 335 mm, and total loads up to 15 kg. Shaking speed and time is adjustable which is more flexible for different test requirements.

Features:

- Shaking speed adjustable
- Shaking time adjustable
- Touch screen control, user-friendly and easy operation
- Stainless steel frame, safe and durable
- Up to 15 kg capacity



Control panel

Technical specifications:

- Bottle diameter: 0 - 240 mm (other range by order)
- Bottle height: max. 335 mm (other range by order)
- Shaking speed: 10% - 99% (12 - 120 times/min.)
- Shaking time: 1 - 999 sec.
- Max. load capacity: 15 kg
- Power supply: AC 220V (AC 110V optional)
- Dimensions: 510 x 570 x 565 mm (L x W x H)
- Weight: 80 kg

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