

MASHING APPARATUS **MA-001 & MA-002**



Lg-automatic fully automatic masher

The masher is made of stainless steel and holds 8 stainless steel test beakers each equipped with a stainless steel propeller stirrer.

The bottom part of the appliance contains a water bath and a quite special dosage system ensuring that 100 ml distilled water are added to all test beakers. The water is automatically dosed at program request.

Each test beaker is secured by a set of jaws activated through a handle containing a nozzle for the automatic dosage of distilled water.

A magnetic valve for the cooling water mounted at the bottom of the appliance is automatically activated in case a request to that effect is included in the program.

The upper part of the appliance contains electronics and programs. The programs are fixed programs for EBC Kongres, Hartung, diastatic power etc.

The front plate of the new model introduced this year includes an integrated indicator to read the temperature of the sample. Through a change-over switch it is possible to switch-over the indicator to display the temperature requested by the program (set temperature).

A push switch changes the time from minutes into seconds as long as the switch is pushed.

Two fixed program cassettes at customer's request and a program cassette for manual coding of programs are delivered.

By using the described switches and indicator your own program is easily and rapidly made.

It is quite simple to operate the appliance. Add distilled water if requested by the program. Insert samples and stirrers and press the starter. After completed program running you will hear an acoustic signal.

HAZE-METER **HZ-013**



Lg-automatic Haze-meter

The instrument is constructed to require a minimum of maintenance. It is easy to operate and is perfectly functional for many years.

By using modern components in electronics and light source the purchase of spare parts will not be necessary.

The applied light source is a super bright and specially processed light emitting diode offering many advantages, such as:

- High stability of light energy.
- High stability of colour, 565 nm. Green colour.
- Electrically chopped light source.
- Simple and reliable light control ensuring an effective and automatic colour compensation.
- No heat-up time.
- An almost unlimited life.

The scattered light is measured at an angle of 90°.

The units of measurement EBC, ASBC, FTU and HELM are freely chosen from the front panel.

The instrument is fitted with a 3 1/2 digit display displaying big heavily illuminated figures.

A centring system is mounted in the measuring chamber to secure that the sample - with a diameter from 50 to 100 mm - is constantly kept in the centre.

The centring system is easily removed and the measuring chamber is ready for cleaning.

If desired, water may circulate through the measuring chamber by using the integrated overflow and bottom valve.

The instrument is delivered complete including 2 standard cuvettes and is functional as soon as the measuring chamber has been filled with water and the mains lead has been connected with a socket.



BOTTLE TURNER **BT-002** **SAMPLING DEVICE** **SD-002**

Above please see our newly developed BOTTLE TURNER type: BT-002 as well as our well-known, SAMPLING DEVICE type SD-002.

With these two instruments and your oxygenmeter it will be no problem for you easily, accurately and quickly to determine total oxygen in bottled beer.

The shown equipment is constructed in accordance with requirements made by Carlsberg/Tuborg.

Carlsberg/Tuborg have tested the equipment which they have introduced as a standard analysing method in bottling section and laboratory.



FOAM TESTER **FT-002** **System Carlsberg** **SAMPLING DEVICE** **SD-002**

This Foam Tester is a semiautomatic analyzer to determine the foam stability primarily of beer.

A sufficient accurate dosage of beer in the Foam Tester necessitates that Foam Tester and Sampling device are connected.





CO₂-BLOM
PU-002

Pumping unit PU-002

is a specially developed pumping unit for determination of CO₂ through Blom method.

It has been most important to develop a superpump to satisfy the many heavy

and special demands on a pumping system based upon the Blom standard analysis which is the standard method for exact determination of CO₂.

The Blom method is also the reference method meaning that the equipment - irrespective of the equipment used for CO₂ determination - should be subject to frequent control standard analysis.

LABORATORY SHAKER
RY-002



We hereby take the liberty of informing you that we have developed a new laboratory shaker specially produced for bitterness analysis.

In spite of the numerous types of laboratory shakers already existing in the market we have developed a new device as it has turned out that several laboratories have achieved different results when using the same test method. The reproducibility showed to be poor and the laboratory shakers were rapidly worn.

The shaking process has shown to be of great importance and an exact control of shaking motion, speed and time is an absolute necessity.

A heavy construction with solid ball bearings guaranteeing a transmission without play ensures a stable shaking motion and digital/analog electronic operation of the motor is achieved through an accurate and load independent shaking speed.

The time is electronically controlled based on the mains frequency.

DIACETYL STAND
complete in stainless steel
with gas burners or 230 V
heating elements.



Principle of Method

The vicinal diketones, diacetyl and pentanedione, are distilled from the beer and then combined with o-phenylenediamine to form derivatives of quinoxaline. The amount of these compounds is measured by the absorbance at 335 nm.

CROWN TESTER



CO₂ PRESSURE TESTER
for bottles



WEIGHING BOATS
6 or 12 sets
stainless steel



PYCROMETER WASHER
PS-001



PYCROMETER STAND
PS-001
stainless steel



Lg - automatic aps
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