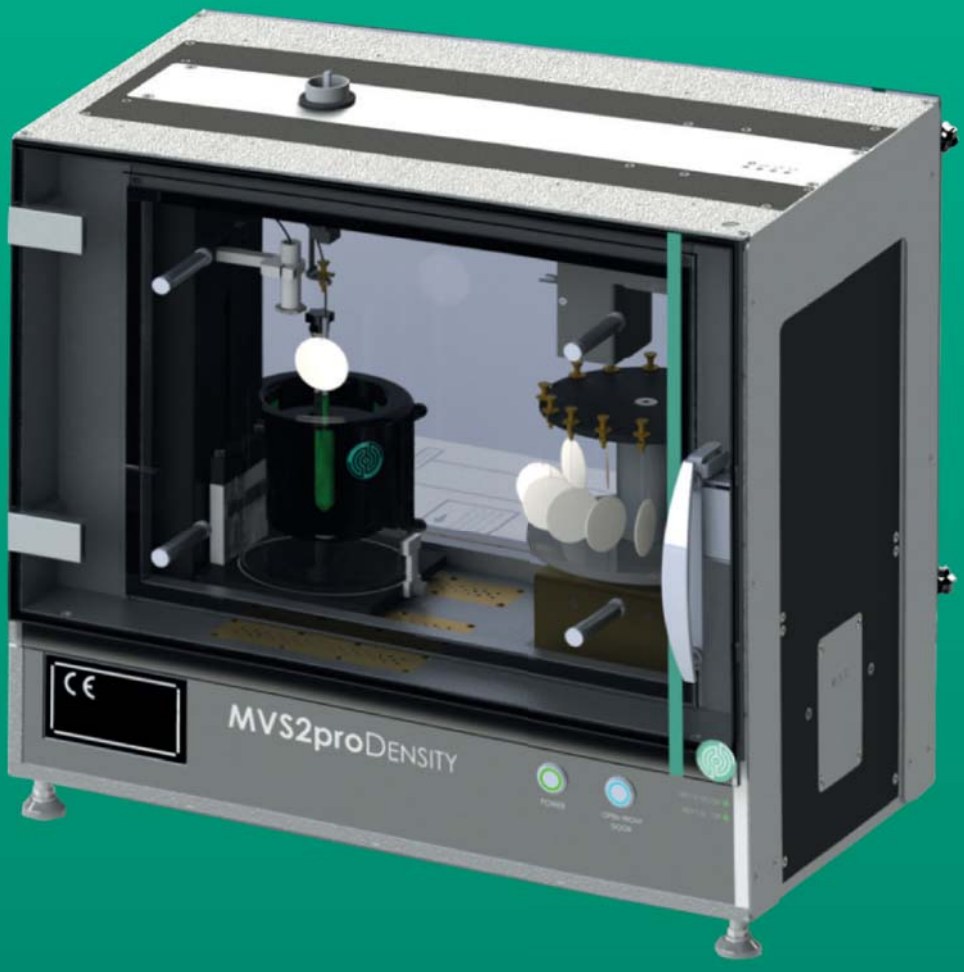
Ortelli Technologies

MVS2proDENSITY

Resolve your density measurement with performance



The Automatic Determination of the Volumic Mass

RELIABLE, REPRODUCIBLE, OBJECTIVE, CERTIFIABLE

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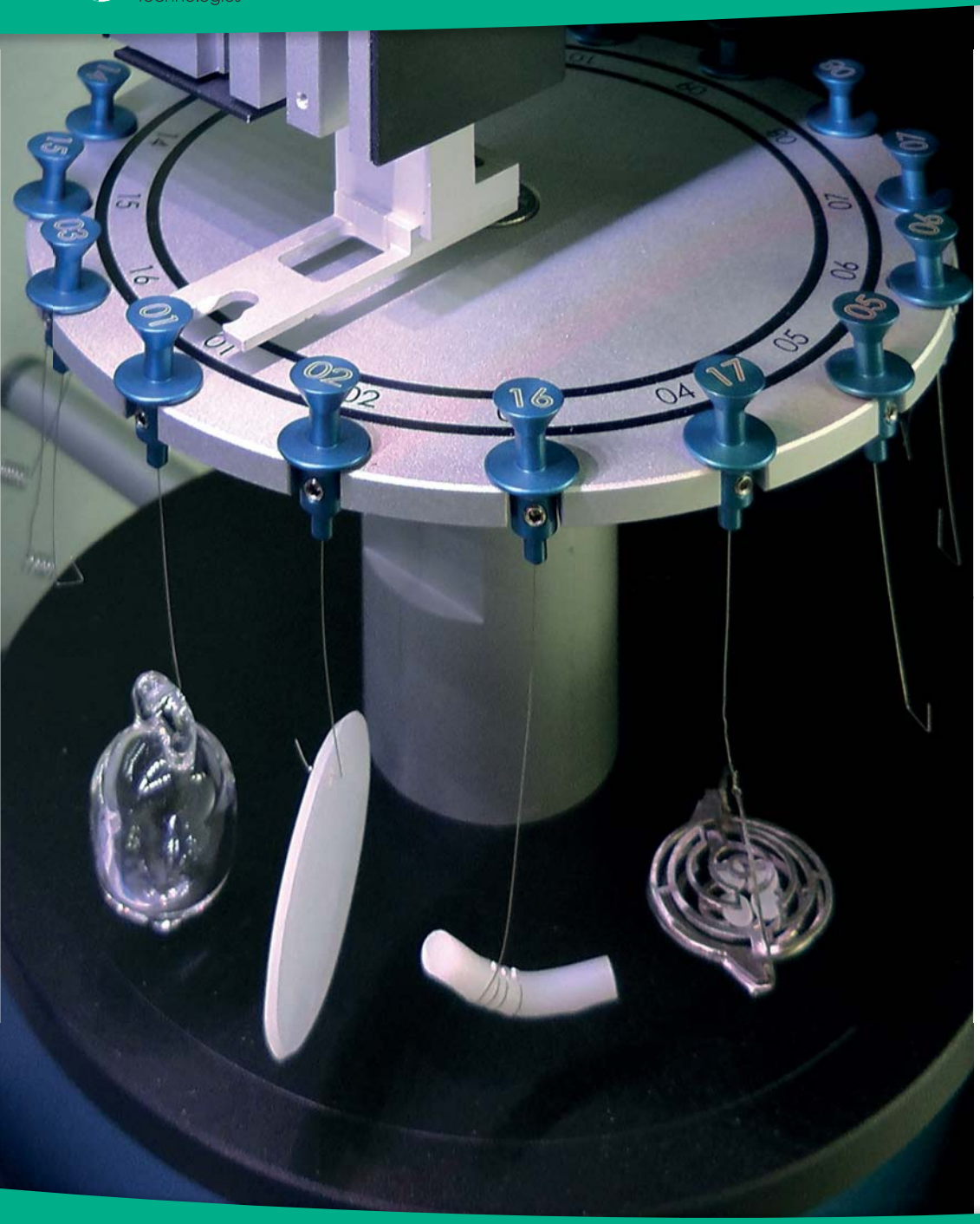

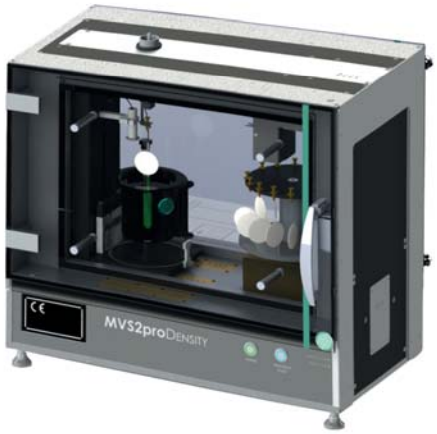

Data Sheet

MVS2pro is a robotized system for the determination of the Density or the Standard Absolute Volumic Mass (MVS) of polymers by the principle of the Hydrostatic Push opportunely corrected in order to obtain the result expressed in the MV (S) unit.

MVS2pro determines the Volumic Mass in a completely automated cycle that replaces the old system used for this measure (Gradient Columns), that was characterized by typical human errors.

MVS2pro System is perfectly integrated in the quality Standard Process **ISO9000**.

It's already supported by all the control procedures for the carried out measures using two different kinds of Standard:

- 1 certified Density Standard
- 1 standard Temperature (certificated thermometer)

All integrated in a statistical plan of controls to check the validity of the analytical determinations of the samples.

MVS2pro has an Autosampler with a maximum of 16 samples and/or Standard of Density or Volume.

The system makes the measure of a sample in less than 120 sec.

MVS2pro constantly controls the Temperature to which it comes carried out the measure to have the certainty that will be respected the range of working set in the method. This **Pt100 probe** can be calibrated using the procedure from the management software with a primary Standard.

MVS2pro was born for the determination of MVS on **High Density Polyethylene (HDPE)** but it is obviously usable for the same kind of determination with other kind of materials can be analyzed with the method of the hydrostatic push.

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Integral control of the **MVS2pro** system takes place via LAN from a software console (included in the price) that is installed on a PC in the corporate network (or, if necessary, with a direct connection to the PC). The software console allows you to control the system and keeps DB archive of all historical data and all the measurements made to obtain it. It is possible to re-calculate archivied data with other types of applications like Excel, Access and transfer them directly to LIMS.

MVS2pro includes also a dual door and a dual controlled Atmosphere Purification System (not included in basic configuration).

Technical Data

- **Code:** MVS4. 0000
- **Model:** MVS2pro
- **Revision:** 1.55.00
- **Reproducibility:** < 0.01%
- **Range of Temperature:** from 10°C to 50°C (usually 23°C)
- **Medium Time of Analysis:** 120 s/sample
- **Sample:** dim. Approx. 4cm
- **Autosampler:** 16 samples
- **The System MVS2pro is compliant to the ISO1183, ISO2781and ASTM D1505**

Accessories (required)

Support samples series hook form

Set of 20 hook shaped support samples.
The kit is composed in this way: 16 hook/helicoid form, 2 helicoid/hook form and 2 basket supports.

Product Code Golden Supports: 0040
Product Code Green Supports: 0041
Product Code Blue Supports: 0042
Product Code Red Supports: 0043

Support samples series helicoid form

Set of 20 helicoid shaped support samples.
The kit is composed in this way: 16 hook/helicoid form, 2 helicoid/hook form and 2 basket supports.

Product Code Golden Supports: 0044
Product Code Green Supports: 0045
Product Code Blue Supports: 0046
Product Code Red Supports: 0047

Basket Support samples

The kit is composed in this way: 16 basket supports, 2 helicoid supports, 2 hook supports.
In the perforated basket support you can include some polyethilene spheres or other material like fragments of glass or precious stones (diamonds).

Product Code Golden Supports: 0400
Product Code Green Supports: 0401
Product Code Blue Supports: 0402
Product Code Red Supports: 0403

These kits can be combined in various ways accordingly to your needs.

Atmosphere Purification System

This system helps to purify the atmosphere from volatile molecules and to stabilize the air inside of the measurement chambre. It needs 3 ÷ 6 bar compressed air.

Product Code: 0300

Mettler Analytical Balance MS Series

Analytical Electronic Balance with underplane support weight to position the support sample in the measurement area of the **MVS2pro**. The balance can be at 5 decimal places in grams. (d= 0,01 mg)
The Balance is directly controlled by **MVS2pro** via USB.

Product Code 5°: 0011

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Thermostatic Bath

System of thermostatation for the beker (beker thermostatable).
It allows the maintenance of the liquid measurement
at the temperature described in the method.
The system has a suction pump to recirculate the thermostated
liquid in an external circuit.
The system is directly controlled by MVS2pro via USB.
Product Code: 0061

Liquid measurement

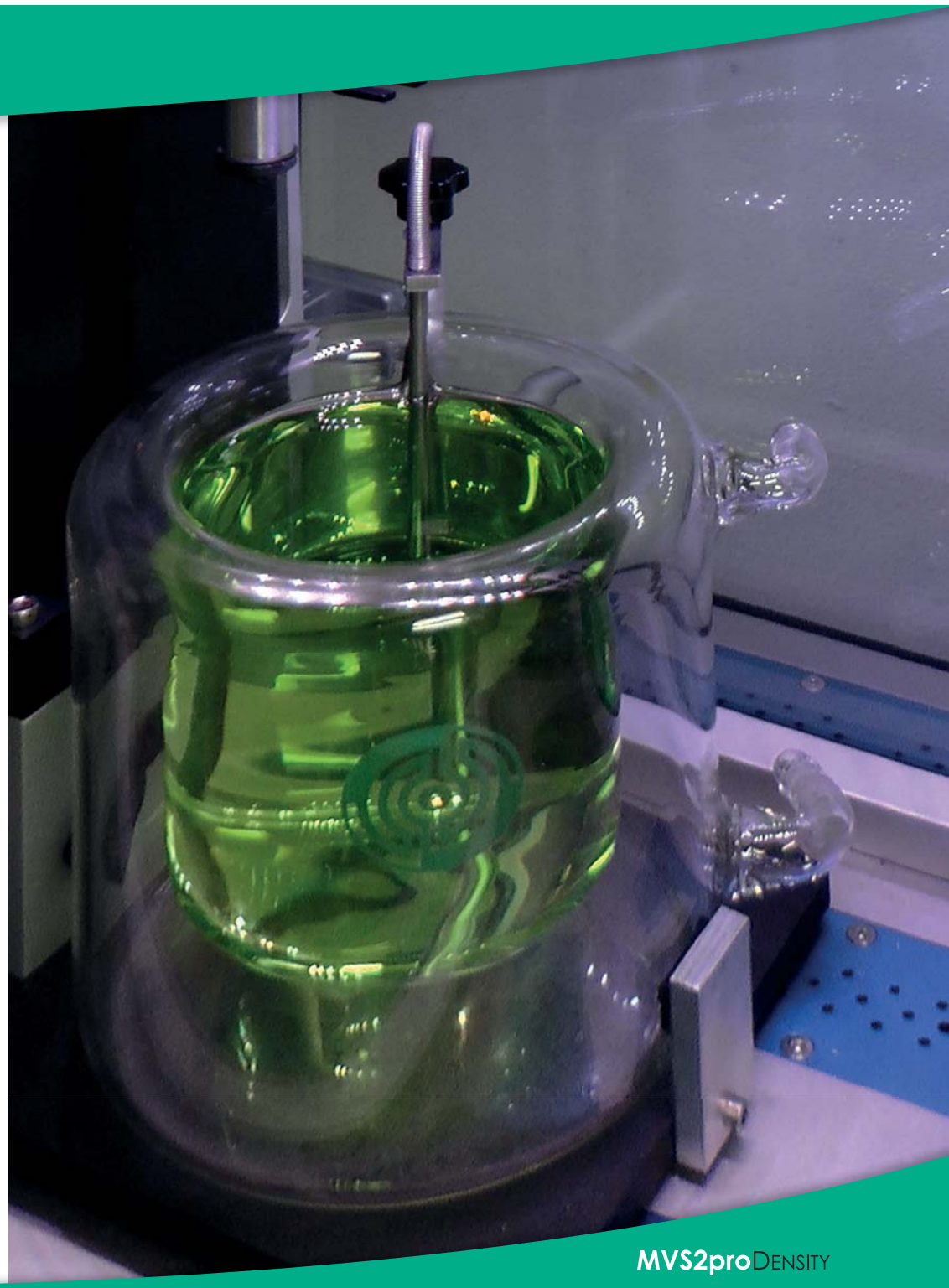
500 cc of liquid suitable for measurement of MVS
greater than 0.8 Kg/ dm3
Product Code: 0030

Certified Density Standard

Certified Density Standard in Glass.
Product Code: 0100

PC with keyboard mouse and monitor

Processor: 15-4570 3.2G 6M HD 4600
OS: WINDOWS10 with pre-installed MVS2pro Density Manager
Software
Product Code: 0050



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