

Technical Data

Operation:

Manual operation when used as a 'stand alone' unit or a semi-automatic operation when connected to compatible Buehler polisher

Dispensing Pumps:

Two peristaltic, no mist pumps

Dispensing Amounts:

Twenty settings, 1, 1.5, 2, 2.5 20
Approximate range 0.2 - 18cc/min
(0.2 to 18ml / min)

Method Programmability:

25 Buehler proven methods and 25
User definable methods

Touch-pad Controls:

- On/Off
- Parameter Scroll
- Parameter Scroll Value
- Increase / Decrease

Cycle Run Parameters:

- Step Number
- First Bottle
- Dispense
- Second Bottle
- Pre-Dispense
- Post-Dispense
- Rinse Time
- Current Method

Bottle Naming Parameters:

- Bottle Number
- Bottle Name
- Micron Size

Bottle Number Maintenance

Functions:

- Stir Number
- Prime Number

Languages:

English, French, German, Portuguese,
Spanish, Japanese, Korean, and
Chinese

Weight:

25 lbs.

Mains Voltage:

85-264 V/50-60Hz/1 phase/AC input

Dimensions:

W	x	D	x	H
10.2"	x	11.75"	x	8.5"
259mm	x	298mm	x	216mm

Other Features:

- Compact Footprint
- Modular
- Ergonomically Positioned Control Panel
- Easy to Clean Cabinetry
- Last Settings Retained Programmability

Specifications

The PRIMET™ 3000 Modular Dispensing System is designed to control the amount of fluids and consumables dispensed during a preparation step. It can be used with any of Buehler's grinder/polishers. Its compact size enables it to fit on TECH-MET® table units with built-in polishers. With two peristaltic pumps, the PRIMET™ 3000 can dispense two fluids during the same step to two individual grinder/polishers simultaneously. When combined with the PRIMET™ Satellite, the PRIMET™ 3000 can dispense up to ten fluids using a variety of dispensing rates. The PRIMET™ 3000 comes standard with durable aluminum housing, all necessary hose and fittings, 1 AC power cord, 1 PRIMET™ dispensing arm with five hoses, 2 PRIMET™ 16 oz. bottles with labels, and 1 instruction manual.

Catalog Number	Description
40-2800	PRIMET™ 3000 Modular Dispensing System
40-2801	PRIMET™ Modular Dispensing Satellite
40-2811	PRIMET™ Modular Dispensing Satellite less 40-2823 & 40-2825
40-2822	PRIMET™ Dispensing Arm with Stand
40-2824	PRIMET™, 16 oz. Bottle with Suspension Labels
40-2826	PRIMET™ Tubing, 48", 1/8" OD x 1/16" ID
40-2827	PRIMET™ Tubing, 36", 3/16" OD x 1/16" ID
40-2828	PRIMET™ Supply Tubing with Connectors, Bottle to Pump, Set of 3
40-2829	PRIMET™ Peristaltic Pump Replacement Tube with Connectors, Set of 3
40-2830	PRIMET™ Dispensing Tips, Set of 3
40-2831	PRIMET™ Luer Fittings, Twist Lock, Set of 10
40-2832	PRIMET™ 18" Satellite to Satellite Connectors, USB, Set of 3
40-2704	PRIMET™ Buehler Polisher to Satellite Connector
40-2706	PRIMET™ Adapter for PHOENIX 4000 to METLAP® 2000 to Satellites

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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BUEHLER ANALYST
SECTION

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PRELIMINARY
DRAFT



BUEHLER® PRIMET® 3000 MODULAR DISPENSING SYSTEM

- Affordable, Abrasive Dispensing Using Peristaltic No Mist Technology
- Semi-Automatic On/Off Operation When Connected to Compatible Buehler Polishers
- Automatic Control of Time and Amount Dispensed Reduces Waste and Increases Specimen Consistency
- 25 Proven Buehler Methods and Availability for 25 Additional User Defined Methods
- Two Bottle System can be Expanded to 10 Bottle With The Addition of PRIMET™ Modular Dispensing Satellites

PRELIMINARY DRAFT

MODULAR DISPENSING SYSTEM

PRIMET® 3000

BUEHLER®

BUEHLER

Controlled, Repeatable, Waste-Free Dispensing



Versatile and Easy to Use

- LCD Display with user friendly touch panel controls
- Manual operation by use of front touch panel, or semi-automatic operation by connecting cable to any compatible Buehler polisher for On/Off control at each dispensing step
- Compatible with water, oil, and alcohol based suspensions, diamond suspensions and most final polishing suspensions including alumina (Al₂O₃), silicon carbide (SiC) and colloidal silica (SiO₂) abrasive suspensions
- The maintenance system of the PRIMET™ 3000 allows the operator to clean the hoses of suspension, thus eliminating clogging of the dispense tubes

Modular, Expandable System

- Two bottle system can be expanded to a 10 bottle system by the addition

of up to 8 additional PRIMET™ Satellites via USB cable interface

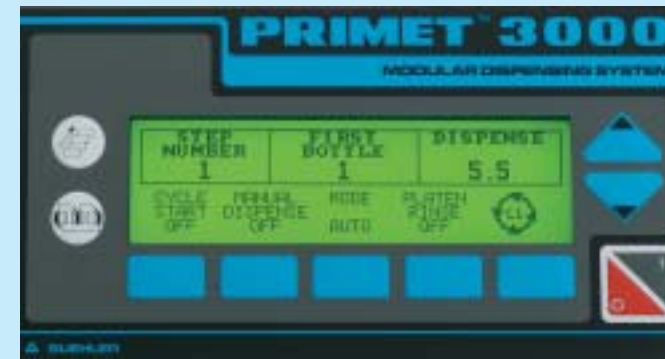
- Each bottle can be primed, stirred, or cleaned independently or all at one time
- Either one or two bottles may be dispensed during one step, each with their own selected dispensing rate, allowed the operator to dispense a diamond and a lubrication during one step
- A modular, expandable dispensing arm accommodates the addition of Satellites by providing a compact resting place for the addition of dispensing hoses

Repeatable and Programmable

- PRIMET™ 3000 has 25 pre-programmed proven dispensing methods for a wide variety of materials. These dispensing methods relate directly to 25 of the proven preparation

methods in Buehler's Guide to Materials Preparation and Analysis

- Additionally, these methods may be modified and stored in 25 available user defined programmable spaces or the operator may define his own method for future use. Any of these methods may be programmed for use with a simple touch of the front display panel.
- The PRIMET™ 3000 has a selection of 20 different, repeatable, dispense rates to accommodate any combination of suspension and polishing cloth. Controlled dispensing offers results that can be repeated time after time, regardless of the operator.



The PRIMET™ 3000 features a Liquid Crystal Display (LCD) with easy to use touch pad controls. Simply scroll to the desired parameter field and choose your setting with the up/down arrow keys. Five soft keys are located across the bottom of the fascia and are push button controlled.



The L1 screen offers the first choice of operating parameters; step number, first bottle number, and the dispense rate for the first bottle. From this screen you may manually dispense and rinse during a step.



The L2 screen offers the choice of a second bottle and its corresponding dispense rate. The bottle name is chosen from a list including ALUMINA, CERIUM OX, COLLOIDAL, LAP OIL, LUBRICANT, METADI, METADI FL, METADI SP, NONE and OTHER. Corresponding micron sizes are available for choice: 0, .02, .05, .06, .10, .25, .30, .50, .1, 3, 5, 6, 9, 15, 30, and 45.



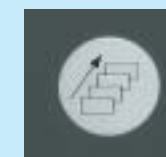
Use the Load Method and Save Method functions to select from 25 pre-programmed dispensing programs (these correspond to Buehler's Guide to Materials Preparation and Analysis) or choose to modify and save up to 25 of your own methods.



40-2810 PRIMET™ Modular Dispensing Satellites will expand dispensing capabilities of your PRIMET™ 3000. Each satellite will respond to the programming from the PRIMET™ 3000 via the USB cable, dispensing the preprogrammed suspension at the chosen rate for repeatable and economical dispensing every time.



40-2822 The PRIMET™ 3000 dispensing arm with stand is designed to combine hoses from the PRIMET™ 3000 and multiple PRIMET™ Satellites into one convenient unit that can easily be adjusted over any grinder/polisher.



Parameter Scroll Button scrolls through the parameter fields, displaying three fields at a time on L1, L2, and L3 screens.



Parameter Value Scroll Button scrolls through and highlights the values of each parameter field through use of the increase/decrease buttons.