



FILTERING AND
RECIRCULATING
SYSTEM

BUEHLER®
ENVIRONMET™
**FILTERING AND
RECIRCULATING SYSTEM**

- Ideal for Laboratories Concerned with Water Conservation Requirements or Environmental Issues
- Designed for Use with Manual or Semi-Automatic Grinder/Polisher Systems
- Filtering System Upgradable to Filtering and Recirculating System
- Air Operated, Requires No Electrical Hookup
- 1 Micron Filtration Capability
- Easy to Clean Corrosion Resistant System

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ENVIRONMET™ FILTERING AND RECIRCULATING SYSTEM

Designed with practicality and ease-of-use in mind, the ENVIRONMET™ Water Filtering and Recirculating Systems are perfectly suited for a wide variety of laboratory grinder/polisher applications where water conservation and environmental issues are paramount.

The ENVIRONMET is available in two versions: a filtering and recirculating system and a simple filtering system. The ENVIRONMET Filtering and Recirculating System has the capacity to filter particles as fine as 1µm. The recirculating system then shuttles the filtered water between the large, easy maintenance coolant reservoir and the preparation surface. The ENVIRONMET Filtering and Recirculating System provides the ultimate water purity for contaminant-free sample preparation.

The affordable ENVIRONMET Filtering System uses fresh water for each step in the preparation sequence. The filter captures particles as small as 100µm for environmentally responsible disposal. When your material applications change or environmental mandates become more strict, the versatile ENVIRONMET Filtering System can be upgraded to a full filtering and recirculating system.

Powered by compressed air, the ENVIRONMET requires no electrical connections. The water flow rate is sufficient to run up to two manual or semiautomatic grinder/polisher systems simultaneously from one corrosion resistant ENVIRONMET.

The replaceable swarf bag removes and collects abrasive debris for easy disposal. Accessory castors provide the dual benefit of easy transport between grinder/polishers and easy maintenance. The ENVIRONMET is designed to fit beneath standard BUEHLER® Tables.

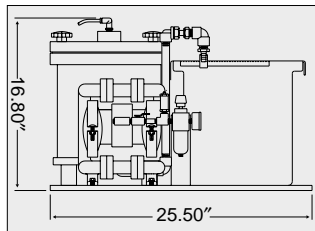
Technical Data

Weight:

49-2500: 57 lbs. (26kg)
49-2501: 36 lbs. (16kg)

Dimensions:

25½" W x 20½" D x 16.8" H
(648mm x 521mm x 427mm)



Required Air

Pressure:
60-120 psi (4.1-8.3 bar)

Water Flow Rate:

0.11 qt./sec. (121ml/sec) at pump pressure of 30 psi (2.1 bar)

Tank Volume:

6 gallons (23 l)

*Left:
Dimensions of the
ENVIRONMET Filtering and
Recirculating Systems
(side view).*

Specifications

No. 49-2500 ENVIRONMET Filtering and Recirculating System, includes high pressure 1µm filter cartridge, air operated pump, 6 gallon (23 l) water reservoir, PVC drain tube, ¼" (6.4mm) connection tubing, twenty 49-2510 1µm filters, 49-2520 100µm filter bag, sample 49-2450 fungicide and instruction manual. Requires 30-55 psi (2-4 bar) air for operation.

No. 49-2501 ENVIRONMET Filtering System, includes air operated pump, 6 gallon (23 l) water reservoir, PVC drain tube, ¼" (6.4mm) connection tubing, 49-2520 100µm filter bag, sample 49-2450 fungicide and instruction manual. Requires 30-55 psi (2-4 bar) air for operation.

Both systems include fittings for ECOMET Grinder/Polishers. All other BUEHLER grinder/polisher systems require purchase of the appropriate connector kit.

Accessories

No. 49-2502 Retrofittable Recirculating Kit, for converting ENVIRONMET Model No. 49-2501 to filtering and recirculating system with 1µm filtration capability. Includes high pressure 1µm filter cartridge, fittings, twenty 49-2510 1µm filters and instruction manual.

No. 49-2510 Replacement Filters, pack of 100. Filters to 1µm. For use with 49-2500 ENVIRONMET Filtering and Recirculating Systems.

No. 49-2520 Replacement Filter Bag, for removal of large abrasive contaminants to 100µm. For use with 49-2500 and 49-2501 ENVIRONMET Filtering and Recirculating Systems.

No. 49-2530 Caster Kit, to allow easy transport and maintenance of ENVIRONMET Filtering and Recirculating Systems.

No. 49-2540 Fungicide 4oz. (120ml), to prevent bacterial and fungus growth in recirculating water.

No. 49-2541 PHOENIX™ 4000 and the ALPHA/BETA Connector Kit, for connecting the PHOENIX 4000 and ALPHA/BETA Grinder/Polishers to the ENVIRONMET Filtering and Recirculating Systems.

No. 49-2542 MOTOPOL™ and METASERV® Connector Kit, for connecting the MOTOPOL and METASERV Grinder/Polishers to the ENVIRONMET Filtering and Recirculating Systems.

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

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5

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