

ScrubAir™ Pipette Washer/Dryers



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Features & Benefits



Volumetric pipette cleaning can be a chore. Automate your process and get back to work with ScrubAir. Wash up to 60 small or 12 large pipettes at once, depending on bulb and stem diameters.

ScrubAir directly injects water and detergent into the interior of the pipettes. Compressed air in the water line produces a percolating action that scrubs and rinses the interior and exterior pipette walls. After washing and rinsing, ScrubAir dries the pipettes in just two to eight hours. No separate oven is required.

ScrubAir consumes less water and time than traditional siphoning washing/rinsing and oven drying (see table below). Save your lab over \$2900 annually. Spend your saved time on more meaningful work.

- **Thorough cleaning.** Percolating action washes and rinses pipettes inside and out
- **Fast drying.** As little as two hours when ScrubAir with heater is used
- **Water and money savings.** Uses 98% less water than traditional siphoning method
- **Programmable.** Choose a factory setting or modify it to your protocol
- **Less glassware handling.** Less risk of personal injury and glassware breakage
- **Portable.** Hooks to a sink faucet for transport from lab to lab. Or plumb to permanent location

Traditional Siphon Washing/Rinsing & Oven Drying*				ScrubAir with Heater Standard Wash Setting		
Method	Time (Minutes)	Tap Water Usage (Liters)	Pure Water Usage (Liters)	Time (Minutes)	Tap Water Usage (Liters)	Pure Water Usage (Liters)
Washing	240	480	—	30	5.0	—
Rinsing	120	—	120	45	—	7.5
Drying	1020	—	—	120	—	—
TOTAL	1380	480	120	195	5.0	7.5
Water Cost per Run**		\$1.27	\$10.80		\$0.15	\$0.68
Annual Water Cost†		\$330.20	\$2808.00		\$39.00	\$176.80

ScrubAir cleans up to 60 pipettes at one time. Depending on number of pipettes processed using a siphoning method, time and water savings calculations may vary.

*Based on a 4 hour wash at a flow rate of 2 L/min., 2 hour pure water rinse at 1 L/min. and overnight oven drying. Since drying is typically done overnight, the amount of time may be substantially higher than noted in this example.

**Based on tap water cost of \$0.0003/L and deionized water cost of \$0.09/L

†1 wash/day x 5 days/week x 52 weeks/year

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Specifications

All models feature:

- Brushed Type 304 stainless steel and powder-coated steel exterior, Type 304 stainless steel pipette holder and back splash, and clear acrylic cover
- Menu button to select and program wash cycles
- Select button to set wash, rinse and dry cycle times and the number of rinses
- LCD screen shows cycle segment and segment time remaining alternating with total time remaining
- Three factory-set cycle programs: Standard, User 1 and User 2. User-modifiable settings: Wash time 0-480 minutes (eight hours), Rinse time 0-240 minutes (four hours), Total number of rinses 0-10, and Dry time 0-480 minutes (eight hours)
- Display alerts for Lid Pause, Fault-Drain, Fault-No Water and Fault-Water Found. All faults cancel wash cycle
- Quiet operation <75 dBA
- Feedwater inlet/drain hose, 6.0' (1.8 m), with quick-connect hose coupling and two aerator adapters for connection to standard 55/64-27 male or 15/16-27 female laboratory faucets
- User-set delayed start (up to eight hours)
- Rear-mounted 3/8" (9.6 mm) OD x 6.0' (1.8 m) long polyethylene tube for attachment to regulated air or inert gas
- One year warranty on parts and labor
- Overall dimensions: 14.8" w x 18.6" d x 37.7" h (37.6 x 47.3 x 85.6 cm)
- Separate 1/8 oz. dispense pump for attachment to liquid detergent container (Detergent sold separately)

Models with heater also feature:

- Built-in 750 watt heater element for activation during wash, rinse and dry cycles
- Programmable for up to 10 pure water rinses
- Rear-mounted pure water inlet and 3/8" (9.6 mm) OD x 6.0' (1.8 m) long polyethylene tube to connect to pure water source

Models conform to the following standards:

- UL* Standard 61010-1 (60 Hz models)
- CAN/CSA C22.2 No. 61010-1 (60 Hz models)
- CE Conformity marking (230V, 50 Hz models)



Options include:

- Region-specific electrical plug configurations

All models require (not included):

- Regulated compressed air with 3/8" OD air line
- Tap/pure feedwater with 3/8" OD (minimum) water line
- Recommended minimum fill water temperature: 49° C (120° F)
- Maximum fill water temperature: 60° C (140° F)
- Water consumption per fill: 0.46 gal. (1.75 L) to 0.7 gal. (2.5 L)
- Minimum feedwater flow/pressure: 1.3 CFM (5 L)/8 psi (55 kPa)
- Maximum feedwater pressure: 120 psi (827 kPa)
- Minimum feed airflow/pressure: 5 CFM (142 L/m)/20 psi (138 kPa)
- Maximum feed air pressure: 100 psi (689 kPa)
- Drain plumbing 1.25" (3.2 cm) ID or larger
- Low-foaming liquid detergent (LabSolutions™ recommended)



Intertek

Volumetric Pipette Capacity

Bulb Diameter	Stem Diameter	Tip Bulb Length	Capacity
>0.95" (24.1 mm), <1.34" (33.0 mm)	>0.18" (4.6 mm), <0.34" (8.6 mm)	>7.25" (184.2 mm)	12
>0.70" (17.8 mm), <0.95" (24.1 mm)	>0.18" (4.6 mm), <0.34" (8.6 mm)	>7.25" (184.2 mm)	20
>0.49" (12.4 mm), <0.70" (17.8 mm)	>0.14" (3.6 mm), <0.30" (7.6 mm)	>7.25" (184.2 mm)	36
<0.49" (12.4 mm)	>0.14" (3.6 mm), <0.30" (7.6 mm)	>7.25" (184.2 mm)	60
>0.30" (7.6 mm), <0.59" (14.9 mm)	>0.14" (3.6 mm), <0.30" (7.6 mm)	>4.6" (116.8 mm)	24
<0.30" (7.6 mm)	>0.14" (3.6 mm), <0.30" (7.6 mm)	—	60

*UL® is a registered trademark of Underwriters Laboratories, Inc., Northbrook, IL.

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Ordering Information & Accessories

Catalog Number	Electrical Specifications	Plug Type	Heater	Shipping Weight
4612020	115V, 50/60 Hz, 2A	115V, 15A, North America	—	104 lbs. (47 kg)
4612030	230V, 50/60 Hz, 1A	Schuko	—	104 lbs. (47 kg)
4612040	230V, 50/60 Hz, 1A	230V, North America	—	104 lbs. (47 kg)
4612060	230V, 50/60 Hz, 1A	British (UK)	—	104 lbs. (47 kg)
4612070	230V, 50/60 Hz, 1A	China/Australia	—	104 lbs. (47 kg)
4612080	230V, 50/60 Hz, 1A	India	—	104 lbs. (47 kg)
4612021	115V, 50/60 Hz, 10A	115V, 15A, North America	•	110 lbs. (50 kg)
4612031	230V, 50/60 Hz, 6A	Schuko	•	110 lbs. (50 kg)
4612041	230V, 50/60 Hz, 6A	230V, North America	•	110 lbs. (50 kg)
4612061	230V, 50/60 Hz, 6A	British (UK)	•	110 lbs. (50 kg)
4612071	230V, 50/60 Hz, 6A	China/Australia	•	110 lbs. (50 kg)
4612081	230V, 50/60 Hz, 6A	India	•	110 lbs. (50 kg)

Plug Configurations



115V, 60 Hz
for North America



230V, 50 Hz
Schuko



230V, 60 Hz
for North America



230V, 50 Hz
for Great Britain (UK)



230V, 50 Hz
for China/Australia



230V, 50 Hz
for India

Accessories



4615700—ScrubAir Spindle Kit.

Permits small test tubes or vials, 7 mm ID or larger, to fit in the ScrubAir. Includes 24 each 5 mm OD polystyrene plastic spindles with caps and stainless steel test tube rack to hold 20 test tubes. Shipping weight 2.0 lbs. (0.9 kg)

4614900—5 Micron Air Filter. Filters incoming compressed air. Includes mounting bracket and 3/8" OD tubing. Shipping weight 0.5 lb. (0.2 kg)

4522000—LabSolutions Low-Foaming Liquid Detergent.

Non-corrosive. Phosphate-free. Chlorine-free. Tissue culture safe. For ground shipment to U.S. and Canada only. Shipping weight 13 lbs. (6 kg)



4611900—ScrubAir Serological

Pipette Insert. Permits serological pipettes up to 50 ml in volume to fit in the ScrubAir. Holds 36 pipettes. Stainless steel. Shipping weight 1.5 lbs. (0.7 kg)

8025000—Portable Table. Powder-coated tubular steel frame. 4" diameter casters, two with toe locks. Load capacity of 400 lbs. Lifetime guarantee. 34.9" w x 19.0" d x 36.4" h (37.4 x 48.3 x 92.5 cm). Shipping weight 80 lbs. (36 kg)

⚠️ **WARNING:** Cancer - P65Warnings.ca.gov (California only)



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