SPECIFICATIONS

Weight & Dimensions

Control/Valve Console 9" W x 9 5/8" D x 5 3/8" H

Electrical

115V model, 50-60hz 500 m amp fuse
220V model, 50-60 hz 250 m amp fuse
110V model, 50-60hz 500 m amp fuse

Wash Timing

From seconds to 99 hours.

Liquid Dispensing Rate

ca. 2 ml/sec.

Liquid Aspirating Rate

ca. 5 ml/sec

Reagent Vessels

1 wash bottle, 4 liters,
1 waste receptacle, 4 liters
Other accessory vessels available

Program Storage Capacity

10+ Liquid delivery & aspiration programs

Valves

3 solenoid valves for liquid flow control,
2 for delivery, 1 for aspiration.

Blot Trays

Mini blot: 3 5/8" x 2 5/8" x 1 1/8" (9.1 x 6.6 x 2.9 cm)
Standard blot: 4 5/8" x 3 9/16" x 1 1/8" (11.7 x 9.0 x 2.9 cm)
Other sizes available, see price list

Keypad

10 key membrane switch

Description

The Blot Washer 115V - Catalog #: BLWAA115S
The Blot Washer 220V - Catalog #: BLWAA220S

STOVALL
LIFE SCIENCE, INC

The Stovall Blot Washer
Automate Tedious Processing of Western Blots

WASH

The Blot Washer
STOVALL

WASTE

STOVALL
The Belly Dancer

STOVALL LIFE SCIENCE
INCORPORATED
pragmatic tools for able minds

THE STOVALL BLOT WASHER:
Automation at an Affordable Price

With the Stovall Blot Washer you can:

1 Automate the most tedious, distracting and interruptive part of processing Western blots: the multiple washes after incubations.

2 Process numerous blots in one to four containers.

3 Increase the productivity of your lab by making better use of your time.

4 Reduce background, even with new chemiluminescent detection, because there is no limit to the number or duration of washes.

All of this at an affordable price.

Without automation, what should take 20 to 30 minutes for a set of repeated rinses can extend to hours because one generally attempts to do other things while being interrupted by these washes. Why spend your time doing what a monkey can do? Wouldn't you rather press the "start" button and have 30 uninterrupted minutes to read a paper or set up another experiment?

The dispensing/aspirating tube bits are designed to work with containers already in use in your lab. A stainless steel clip attaches the dispensing/aspirating bits to the side of the container. A nylon thumbscrew loosens to allow adjustment of the bits up or down to work with different container depths.

Programs for Wash Protocols

Software contained in the unit's microprocessor controller allows you to create and store up to 10+ programs. Scroll to the stored program you want, punch "start" and walk away until the wash cycle is completed. Alteration of any stored program is quick and easy.

The software allows you to control all elements of the instrument's capability: volume of wash or other reagent dispensed, number and duration of washes, and aspiration of reagents to waste. The user-friendly software offers an intuitive approach and allows the operator to program a procedure in minutes.

Containers for Blots & Dispensing/Aspirating Harnesses

Large *(standard gel size)* and small *(mini gel size)* blot containers are supplied with the unit to accommodate the most commonly used gel and blot samples. However, the dispensing/aspirating harnesses with d/a tube bits are designed to work with containers already in use in your lab.

A quad harness for processing of one to four containers is available as an accessory for the Blot Washer. Tubing lines on the quad harness can be clamped off when fewer containers are used in a particular wash protocol. With the multiple harness, washes for several different Western blots can be accommodated simultaneously.

Quad Harness
A quad harness with dispensing/aspirating bits for simultaneous processing of one to four containers is available as an accessory.

A Second Reagent Container

The Blot Washer unit comes with one 4 liter wash reservoir and one 4 liter waste container. However, the unit is designed to dispense a second reagent: either a second wash or other reagent such as secondary antibody. One of two accessory items is required to take advantage of this capability: a 4 liter wash reservoir *(Cat.#: ACCBW0002)* or the 140 ml luer lock delivery syringe with syringe hanger *(Cat.#: ACCBW0003)* for smaller volume liquid delivery. The syringe is especially convenient for automated delivery of the secondary antibody so that everything can be automated after the primary antibody incubation is completed.

Shaker for use with The Blot Washer

The Stovall Blot Washer is designed to be used with almost any mixing instrument: rocker units, orbital shakers, Belly Dancer® or Belly Button® shakers. Most labs are equipped with one or more of these instruments. If your lab needs a mixing device, visit Stovall's website www.slscience.com to review our several high quality shakers. We highly recommend the Belly Dancer for the most effective washing and the lowest background.

Delivery & Aspiration of Liquids

The Blot Washer uses a monitored air pressure system for delivery of liquids to the blot containers. The pressure monitor regulates the pump to provide a liquid delivery rate of approximately 2 ml/sec. Use of house vacuum provides the energy to aspirate reagents to waste at approximately 5 ml/sec.
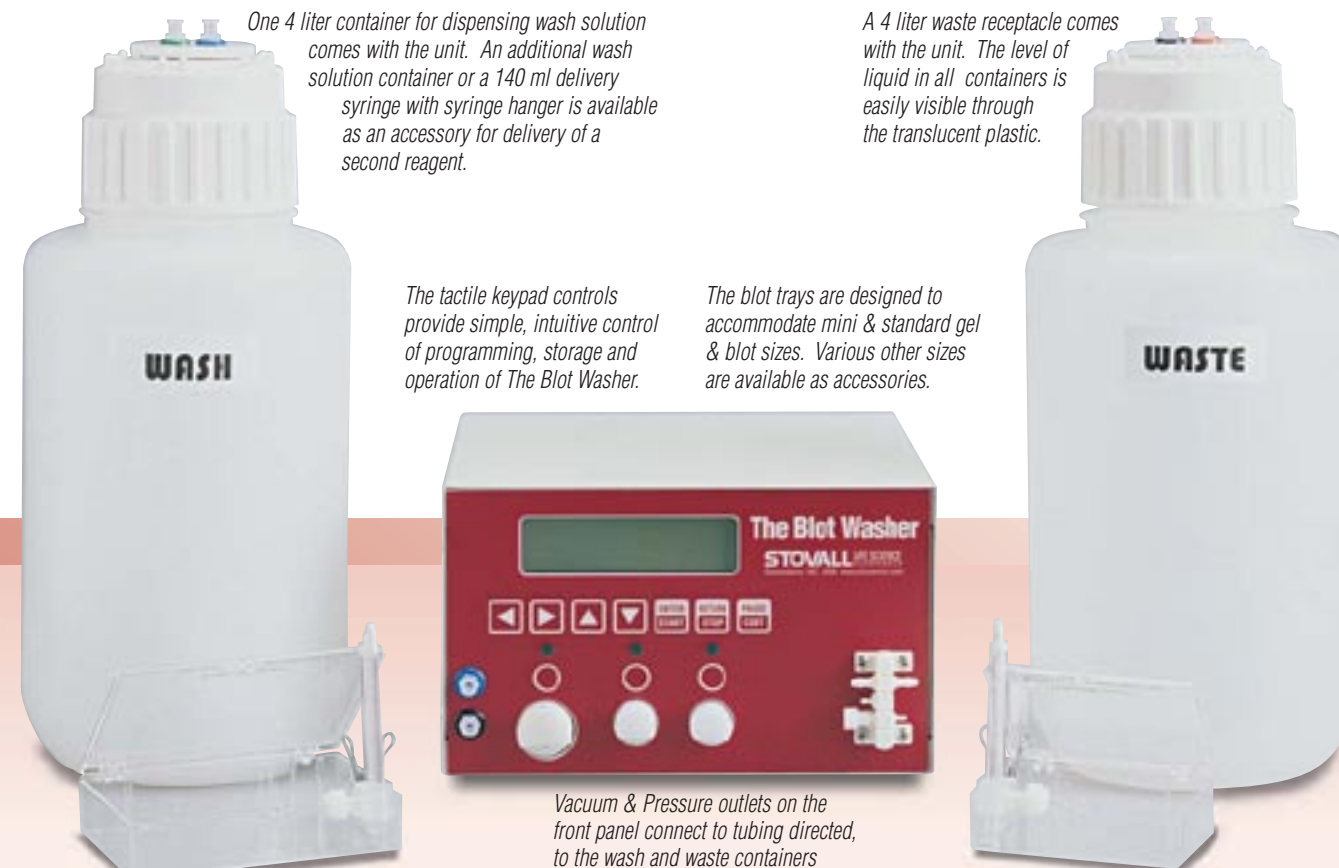
Second Reservoir
A second reservoir - either a 4 liter Wash Reservoir bottle or a 140 ml syringe - can be incorporated easily into the blot washer for delivery of a second reagent. See the price list for these accessories. The delivery syringe with hangar is shown here.

One 4 liter container for dispensing wash solution comes with the unit. An additional wash solution container or a 140 ml delivery syringe with syringe hanger is available as an accessory for delivery of a second reagent.

A 4 liter waste receptacle comes with the unit. The level of liquid in all containers is easily visible through the translucent plastic.

The tactile keypad controls provide simple, intuitive control of programming, storage and operation of The Blot Washer.

The blot trays are designed to accommodate mini & standard gel & blot sizes. Various other sizes are available as accessories.

WASH

WASTE

The Blot Washer
STOVALL

Vacuum & Pressure outlets on the front panel connect to tubing directed, to the wash and waste containers