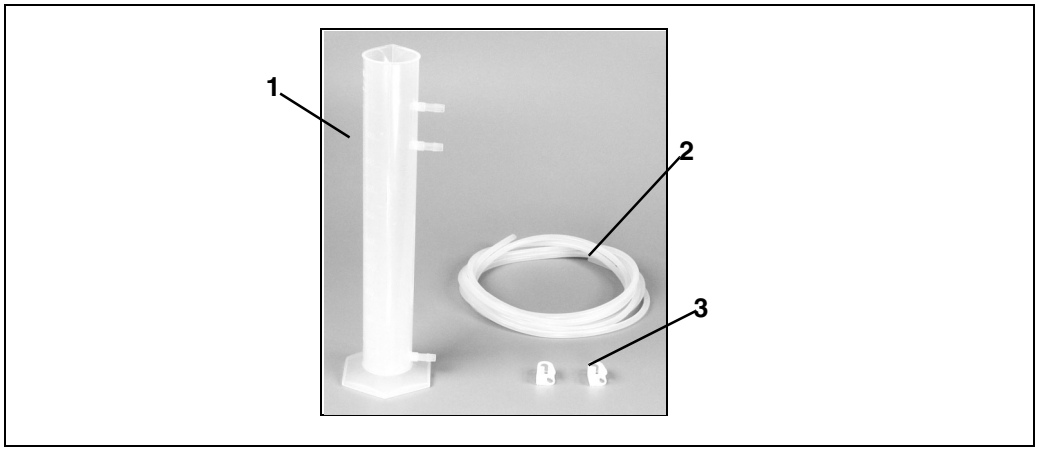
Water Reservoir

Model No. ME-8594

Equipment List



Included Equipment	Replacement Model Number
1. Graduated Cylinder (Water Reservoir), 1 liter (1)	648-08457
2. Plastic Tubing, 19.7 feet (6 meters), 1/4” ID x 3/8” OD (1)	640-012
3. Plastic Hose Clamps (2)	640-075

*Use Replacement Model Numbers to expedite replacement orders.

Additional Equipment Suggested	Model Number
Clamps, three-fingered	SE-9445
Energy Transfer - Hydro Accessory	ET-8772
Energy Transfer - Generator	ET-8771
Large Rod Base	ME-8735
Steel Rod, 90 cm	ME-8738
Beaker, 1000 ml	SE-7288

Introduction

The Water Reservoir is a plastic, graduated cylinder used as a water source for equipment such as the ET-Hydro Accessory (ET-8772) and the ET-Generator (ET-8771).

The Water Reservoir holds up to 1 liter of water and is graduated in 10 increments of 100 mL and 90 increments of 10 mL. On the unmarked side of the reservoir are three ports with three hose fittings. The hose fittings are glued to the cylinder and are not removable. The top fitting is for attaching the hose that connects to an external water supply. The middle fitting is for attaching the overflow hose, which prevents water from overflowing the cylinder. Water exits the cylinder through the bottom hose fitting.

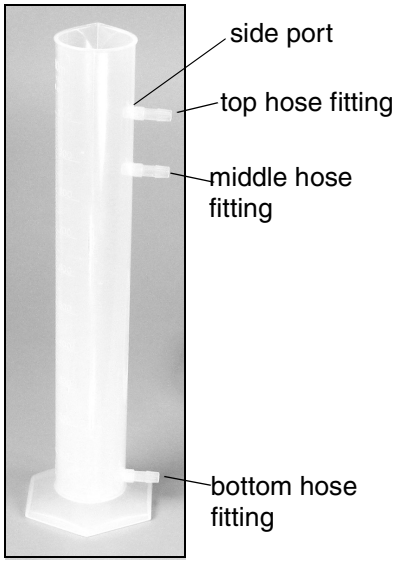


Figure 1: Water Reservoir

Two plastic clamps are included with the reservoir to control water flow. The Water Reservoir can be used in two ways: 1) to supply a preset volume of water and 2) to supply water continuously at a constant head, or pressure.

Equipment Setup

1. Cut the plastic tubing into pieces of tubing long enough for your experiment or application. (Note: To avoid cutting the tubing too short or too long, we recommend that you set up and measure the tubing length needed before cutting the tubing.)
2. Fit one piece of tubing over each of the three hose fittings (Figure 1).
3. Attach one (or two) clamps to the bottom piece of tubing. *Tightly close the clamp to the bottom tube.* (**CAUTION**: If the clamp is not closed tight, water will drain out of the bottom tube. To prevent drainage, slip the tube through the indented portion of the clamp, and snap the clamp completely shut.)

Note: The fittings on the Water Reservoir are oversized to reduce friction and maximize water flow. If you have difficulty inserting the tubing to the fitting, apply a small amount of glycerine to the tubing.


Figure 2: Water Reservoir on rod stand

4. Use three-fingered clamps to attach the reservoir to a rod stand (Figure 2).

5. Connect the top hose to a water faucet. (**Note:** Keep the rod stand below the height of the water faucet to allow water flow to travel downward.) Turn on the tap water and allow water to flow in through the top port.

6. For a pre-measured volume: Fill the cylinder to about 800 mL, and turn off the water. Open the clamp to the bottom tube, allow the water level to drop to the desired level, then close the clamp.

   OR

   For a constant pressure or head: Adjust the flow from the tap so that the water doesn't flow in from the tap faster than the overflow (from middle fitting) going to the sink. [**Note:** With water flowing in from the tap and out through the overflow, the water level stays constant (as long as the water output is less than the tap water entering the cylinder.)]

For more information about using the Water Reservoir with the ET-Hydro Accessory, see the instruction sheets supplied with the ET-Hydro Accessory and ET-Generator Manual.

Copyright and Warranty Information

Copyright Notice

Limited Warranty

PASCO scientific warrants the product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. PASCO will repair or replace, at its option, any part of the product which is deemed to be defective in material or workmanship. The warranty does not cover damage to the product caused by abuse or improper use. Determination of whether a product failure is the result of a manufacturing defect or improper use by the customer shall be made solely by PASCO scientific. Responsibility for the return of equipment for warranty repair belongs to the customer. Equipment must be properly packed to prevent damage and shipped postage or freight prepaid. (Damage caused by improper packing of the equipment for return shipment will not be covered by the warranty.) Shipping costs for returning the equipment after repair will be paid by PASCO scientific.

Technical Support

For assistance with the ME-8594 or any other PASCO products, contact PASCO as follows:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: (916) 786-3800

FAX: (916) 786-3292

Web: www.pasco.com

Email: techsupp@pasco.com