

The 10-595 self-priming, sample pump is a small in-line pump ideally suited for the delivery of sample water to the 10-AU-005-CE Field Fluorometer from a wide range of depths. The pump can either be mounted either on the inlet or outlet side of the fluorometer. It is critical that opaque, ideally black, garden hose be used to eliminate changes in the fluorescence response of the sample due to solar irradiation.

The hose should be primed close to the surface and then lowered to greater depths to reduce the head in the priming. While priming, the user should time the transport of water through the hose to the fluorometer. This time will allow the user to know when the sample water from a specific depth will reach the instrument once the inlet of the hose has reached the depth of interest. Once primed, the pump has been successfully used at depths greater than 150 ft.

## A. Parts Needed

1. 12-volt battery (car or marine)
2. Opaque garden hose with hose clamps or opaque tubing with hose barbs. Garden hose adapters (3/4" thread) are supplied by Turner Designs on all 10-AU's
3. Weights to keep the sample hose intake submerged in the water.
4. Two water-proof wires (positive/negative) for connecting to the pump. Normal installation requires 16-gauge wire
5. Fuse holder with 15 amp fuse.

## B. Specifications:

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|-----------------------|--|
| Depth:                | This sample pump has been tested to depths greater than 150 feet.                                      |
| Pumping Capabilities: | This sample pump pumps a maximum of 6.3 gallons per minute at open discharge and draws 6.8A at 12 VDC. |
| Head:                 | 4 foot head.   |
| Pump Size:            | Height: 3" (76 mm); Length: 6.4" (163 mm); Width: 4.75" (120 mm)<br>Weight: 4.5 lbs (2 kg)             |

