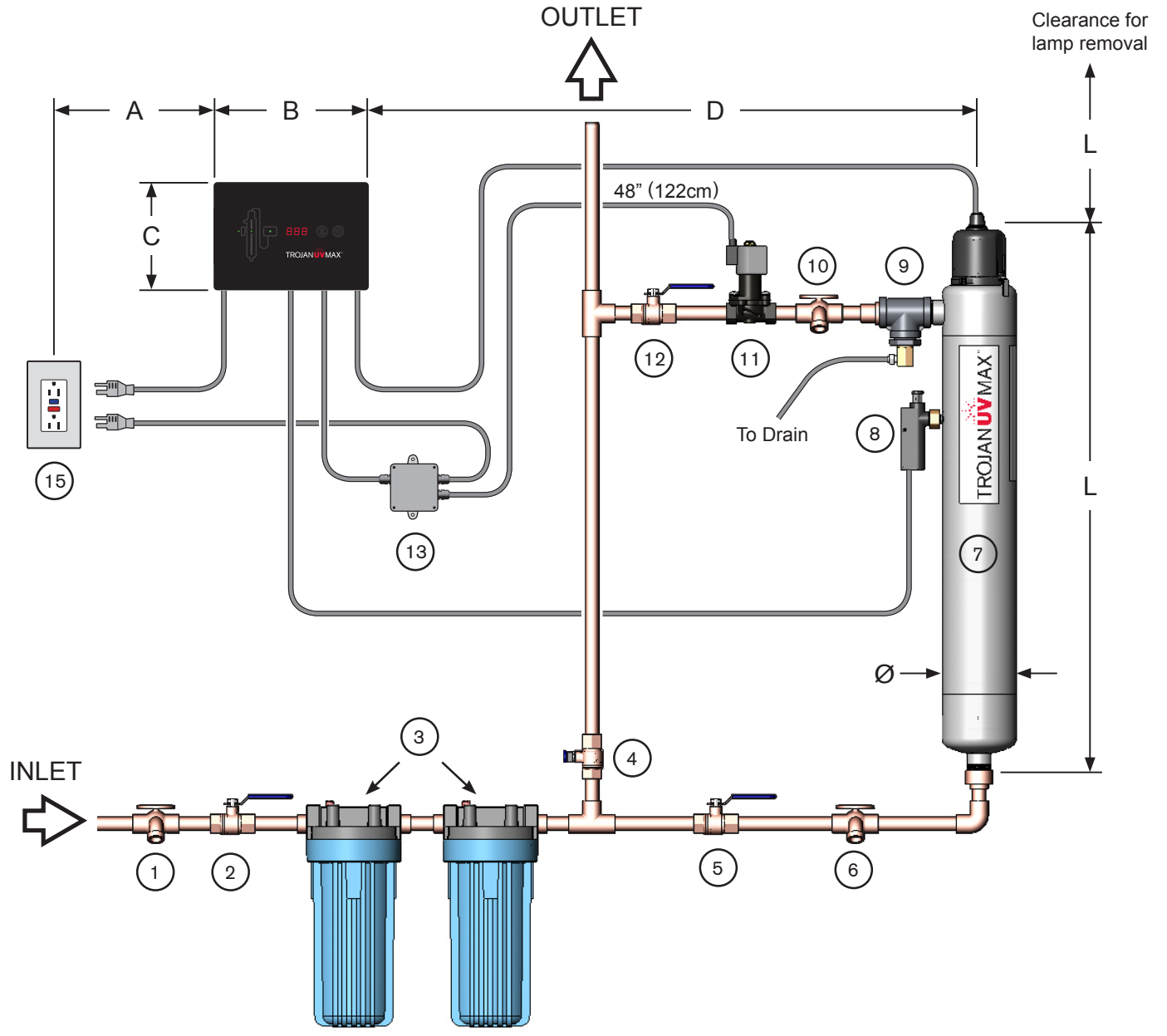


# TROJAN UVMAX™ A, B4, C4, D4, E4, F4 D4 Plus, E4 Plus, F4 Plus

## Dimensions and Layout



Model	L	Ø	A (max.)	B	C	D (max.)
A	15.5" (39cm)	2.5" (6.5cm)	N/A	2.8" (7cm)	3.3" (8cm)	48" (122cm)
B4	14.5" (37cm)	4" (10cm)	72" (183cm)	8.5" (22cm)	6" (15cm)	54" (137cm)
C4	20.5" (52cm)	4" (10cm)	72" (183cm)	8.5" (22cm)	6" (15cm)	54" (137cm)
D4, D4 Plus	20.5" (52 cm)	4" (10cm)	72" (183cm)	8.5" (22cm)	6" (15cm)	54" (137cm)
E4, E4 Plus	30" (76cm)	4" (10cm)	72" (183cm)	8.5" (22cm)	6" (15cm)	54" (137cm)
F4, F4 Plus	44.25" (112.4cm)	4" (10cm)	72" (183cm)	8.5" (22cm)	6" (15cm)	54" (137cm)

- 1 **Sample valve:** Allows for sampling of raw water.
- 2 **Shut-off valve:** Required to allow maintenance of pre-treatment equipment.
- 3 **Pre-treatment (illustrative only):** For the UV system to operate effectively, the water should meet certain water quality parameters, as outlined below. To meet these, pre-treatment of the water may be required. Pre-treatment equipment must be installed BEFORE the UV chamber. Pre-treatment systems can be comprised of one or more of the following elements: sediment filters; carbon filters; iron removal systems; water softeners; cyst reduction filters, etc.

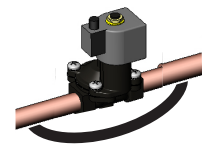
**Water Quality Requirements:**

Iron:	< .3 PPM (.3 mg/L)
Hardness:	< 120 PPM (7 Grains Per Gallon)
% UVT:	> 75%

**IMPORTANT:**  
**A 5 micron (nominal) sediment filter must be installed before the UV system and after any water softening equipment**

- 4 **Bypass shut-off valve:** Bypass line and valve are optional. Intended to provide emergency water supply in the event that the UV system is unavailable.
- 5 **Shut-off valve:** Required to allow maintenance of UV system.
- 6 **Sample valve:** Allows for sampling of water entering UV chamber; necessary in order to confirm water being treated is of adequate quality.
- 7 **UV chamber:** Provides disinfection of the water. Must install Plus model UV chambers vertically.
- 8 **Sensor:** Optional item included with Plus models. Monitors UV output to ensure proper dose (UV exposure) is being provided. Unique test function allows verification of sensor operation.
- 9 **CoolTouch™ valve:** Drains water from the chamber that's been warmed by the lamp during periods of no flow.
- 10 **Sample valve:** Allows for sampling of water immediately following UV treatment; necessary in order to confirm proper operation of UV system.
- 11 **Solenoid valve:** Optional piece of equipment supplied by Trojan for D4, E4, F4 and Plus models. Must be used with a junction box. Allows water supply to be shut-off when proper purification cannot be assured.

Note: If the ground from your electrical panel is tied to your copper water lines, and you are using a solenoid valve, installation of an approved ground strap is required. This ground strap will maintain continuity between the lines that have been cut to install the solenoid. Check your local electrical code for the correct clamp and cable size.



- 12 **Shut-off valve:** Required to allow maintenance of UV system.
- 13 **Junction box:** An optional piece of equipment for D4, E4, F4 and Plus models. Powers solenoid valves, remote alarms and auto-dialers.
- 14 **Power supply:** Powers and controls the UV lamp and other devices. Provides human interface, displaying information and allowing control inputs (such as muting the audible alarm).
- 15 **Power source:** Provides power to the power supply. For safety reasons the outlet must be protected by a Ground Fault Circuit Interrupter (GFCI). NOTE: to protect the power supply, a UL1449 certified (or equivalent) transient voltage surge suppressor is required.