

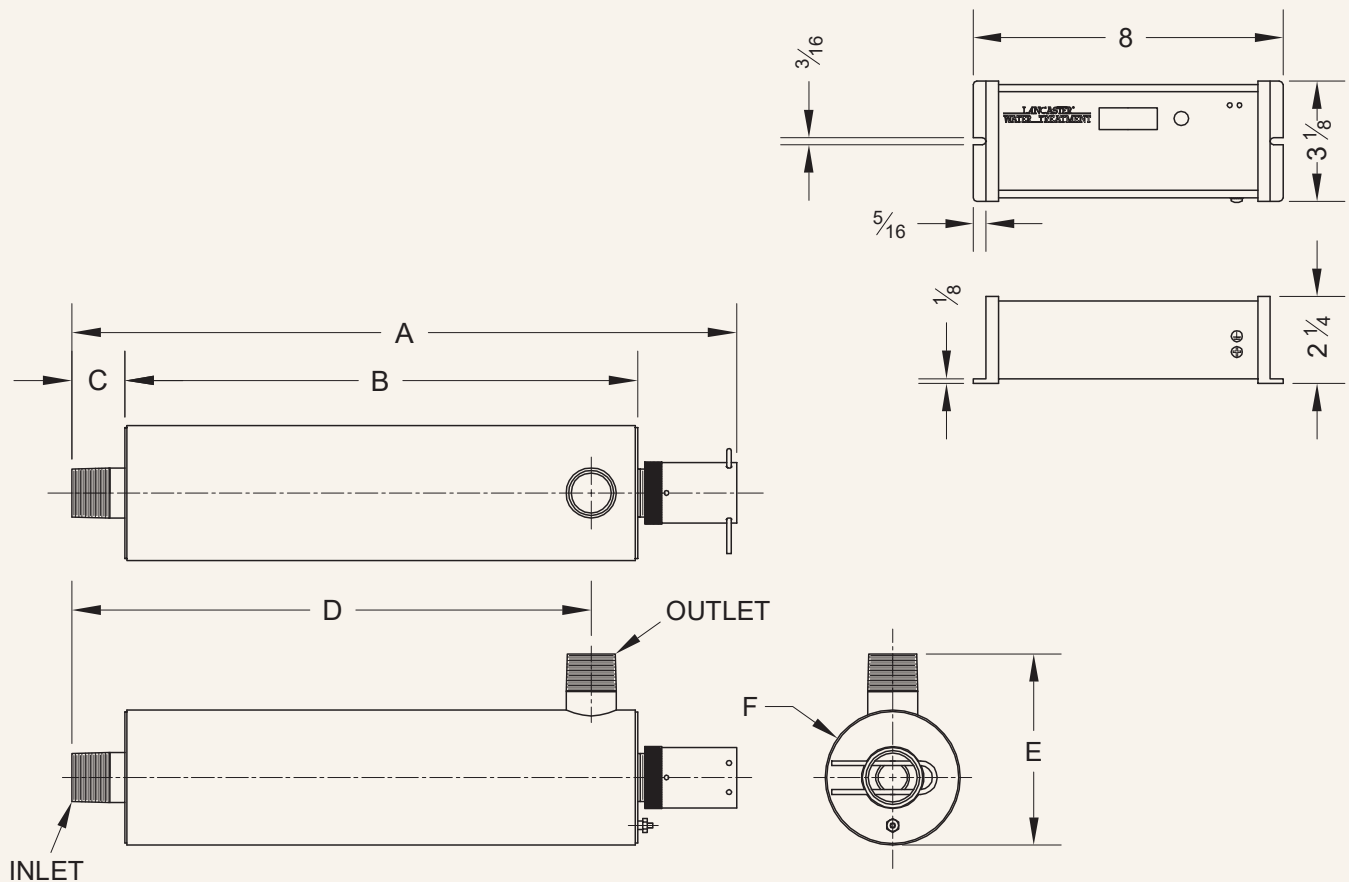


# LANCASTER

## WATER TREATMENT

### HALO SHIELD ULTRAVIOLET WATER PURIFIER

PART NUMBER 7-UVC  
ELECTRONIC BALLAST/CONTROLLER



HALO SHIELD ULTRAVIOLET LWT - WATER PURIFIER

DIMENSIONS	ULTRAVIOLET WATER PURIFIER		
Model Number	7-LWT-UV009	7-LWT-UV016	7-LWT-UV030
A	17-3/8	25-5/8	39-3/4
B	13-3/8	21-11/16	35-1/16
C	1-3/8	1-3/8	2-1/8
D	13-9/16	21-13/16	35-9/16
E	5	5	5-1/4
F (Dia.)	3-1/2	3-1/2	3-1/2
Inlet/Outlet	1.0 MNPT	1.0 MNPT	1.5 MNPT

\*General notes for estimating only. All dimensions are in inches.  
Note: Refer to Installation, Operating, and Service Manual for information regarding replacement components. To ensure system performance and warranty coverage, use proprietary Lancaster replacement components.

# HALO SHIELD ULTRAVIOLET WATER PURIFIER

LWT-UV SPECIFICATIONS		ULTRAVIOLET WATER PURIFIER		
Model Number		7-LWT-UV009	7-LWT-UV016	7-LWT-UV030
Flowrate <sup>(1)</sup>	FLUENCE (UV DOSE)			
	US Public Health 16mJ/cm <sup>2</sup>	17 GPM	35 GPM	55 GPM
	Industry Standard 30mJ/cm <sup>2</sup>	9 GPM	16 GPM	30 GPM
	NSF/EPA 40mJ/cm <sup>2</sup>	7 GPM	14 GPM	22 GPM
Electrical	Voltage <sup>(2)</sup>	110 V to 240 V AC 50/60Hz		
	Power Consumption	34 W	50 W	90 W
	Lamp Watts	29 W	45 W	80 W
Inlet/Outlet Port Size		1.0" MNPT	1.0" MNPT	1.5" MNPT
Maximum Operating Pressure		125 PSI		
Pressure Drop at 30mJ/cm <sup>2</sup> Rated Flow		Less than 1 PSI		
Ambient Air & Water Temperature		36 to 104°F		
Lamp Type		Low Pressure High Output (LPHO)		
Chamber Material		304 SS		
Lamp-On Indicator		Steady "Work" Green LED		
Lamp Life Remaining (Days)		Visual Count Down Display (365 - 0); Manual Reset Function		
Lamp Replacement Reminder		Visual Display (A3) "Fault" Red LED Flashes and Audible Alarm Sounds Intermittently (1 Sec. Beep Every 5 Sec.)		
Lamp Replacement Reminder Delay		Silences Audible Alarm for 7 Days, Repeatable up to 4 Times (28 Days Maximum)		
Lamp Failure Indicator		Lamp Life Remaining (Days) Continues to be Displayed but Stops Counting Down Visual Display (LF) and "Fault" Red LED Flashes and Audible Alarm Sounds Intermittently (1 Sec. Beep Every 1 Sec.) or continuously		
Ballast Total Running Days		Visual Incremental Display (0 - 9999); Cannot Be Reset		
Ballast Failure Indicator		Blank Display		

<sup>(1)</sup> At flow rates stated, the corresponding fluence (UV dose) levels are theoretically met or exceeded at 95% UVT and EOL (end of lamp life; 1 year).

<sup>(2)</sup> Models are supplied with a 5 FT. power cordset for 120V AC 60 Hz (NEMA 5-15P plug to IEC 60320/C13 connector).

**Influent Limitations and Operating Parameters:**

Water quality is extremely important for the optimum performance of your UV system. The following levels are recommended for installation:

- Iron: < 0.3 ppm (0.3 mg/L)
- Hardness\*: < 7 gpg (120 mg/L)
- Turbidity: < 1 NTU
- Manganese: < 0.05 ppm (0.05 mg/L)
- Tannins: < 0.1 ppm (0.1 mg/L)
- UV Transmittance: > 75% (call factory for recommendations on applications where UVT < 75%)

\*Where total hardness is less than 7 gpg, the UV unit should operate efficiently provided the quartz sleeve is cleaned periodically. If total hardness exceeds 7 gpg, the water should be softened. If your water chemistry contains levels in excess of those mentioned above, proper pre-treatment is recommended to correct these water problems prior to the installation of your UV disinfection system. These water quality parameters can be tested by your local dealer, or by most private analytical laboratories. **Proper pre-treatment is essential for the UV disinfection system to operate as intended.**