



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Basic models PV1 - PV12 flow rates 1gpm (3.8 lpm, 0.25m3/hr.) up to 12gpm (45.4 lpm, 3m3/hr.) for residential POU/POE. Operation status visible and audible. Advanced models PV1T - PV52T flow rates 1gpm (3.8 lpm, 0.25m3/hr.) up to 52gpm (196.8 lpm, 11.8m3/hr.) for residential POU/POE, small business, light commercial. Lamp remaining life reminder.

Specifications

Model	PV1	PV2	PV4	PV6	PV8	PV12
Basic Controller	Part No. BAP4011, 110V./50-60Hz. or BAP4022, 220V./50-60Hz., 11.6*6*2.6cm (4.6*2.4*1.03 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Optional GDCT-365 Lamp Life Countdown Timer					
Model	PV1T	PV2T	PV4T	PV6T	PV8T	PV12T
Advanced Controller	Part No. BAP40365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Flow Rates @ 30mJ/cm2	1gpm, 3.8lpm, 0.25m3/hr	2gpm, 7.5lpm, 0.5m3/hr	4gpm, 15.1lpm, 1.0m3/hr	6gpm,22.7lpm, 1.4m3/hr	8gpm, 30.2lpm, 1.8m3/hr	12gpm, 45.4lpm, 3.0m3/hr
Flow Rates @ 40mJ/cm2	0.8gpm, 3.0lpm, 0.18m3/hr	1.5gpm, 5.7lpm, 0.34m3/hr	3gpm, 11.4lpm, 0.7m3/hr	4.5gpm,17lpm, 1.0m3/hr	6gpm, 22.7lpm, 1.4m3/hr	9gpm, 34.1lpm, 2.0m3/hr
Inlet / Outlet	1/4"	1/4" or 1/2"	1/2"	3/4"	3/4"	1"
Dimensions	28*5.1cm (11*2 in.)	36*6.5cm (14*2.5 in.)	42*6.5cm (17*2.5 in.)	56*6.5cm (22*2.5 in.)	70*6.5cm (28*2.5 in.)	92*6.5cm (36*2.5 in.)
Ultraviolet Lamp	GPH212T5L/4-LT 10 Watts	GPH287T5L/4-LT 14 Watts	GPH330T5L/4-LT 19 Watts	GPH505T5L/4-LT 28 Watts	GPH645T5L/4-LT 32 Watts	G36T5L/4-LT 39 Watts
Quartz Sleeve	QS245	QS331	QS375	QS535	QS665	QS890
Model	PV18T	PV24T	PV35T	PV42T	PV52T	
Advanced Controller	Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Flow Rates @ 30mJ/cm2	18gpm, 68lpm, 4.1m3/hr	24gpm, 90.8lpm, 5.5m3/hr	35gpm, 132.4lpm, 7.9m3/hr	42gpm, 159lpm, 9.5m3/hr	52gpm, 196.8lpm, 11.8m3/hr	
Flow Rates @ 40mJ/cm2	13.5gpm, 51lpm, 3.1m3/hr	18gpm, 68lpm, 4.1m3/hr	26.3gpm, 99.5lpm, 6m3/hr	31.5gpm,119lpm, 7.2m3/hr	39gpm, 147.6lpm, 9m3/hr	
Inlet / Outlet	1"	1"	1"	1 1/2"	1 1/2"	
Dimensions	49*8.9cm (19*3.5 in.)	57*8.9cm (23*3.5 in.)	76*8.9cm (30*3.5 in.)	92*8.9cm (36*3.5 in.)	111*8.9cm (43*3.5 in.)	
Ultraviolet Lamp	GHO422T5L/4-LT 40 Watts	GHO512T5L/4-LT 50 Watts	GHO702T5L/4-LT 65 Watts	GHO36T5L/4-LT 80 Watts	GHO1052T5L/4-LT 100 Watts	
Quartz Sleeve	QS452	QS542	QS732	QS890	QS1082	

Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20°C

General

- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40°C (36-104°F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose