



## Purfect Series

### UV Water Treatment Systems

Safe and clean disinfection for residential and industrial use.

- Effective and instant treatment
- No chemicals usage
- No residual effect
- Plug and work
- High quality stainless steel reaction chamber is the best material for UV sterilization.
- All welding made by plasma arc-fusion method and reaction chamber electro-polished and passivated.
- Easy lamp replacement with special lamp socket.
- High quality UV lamp and clear quartz sleeve give best performance in sterilization and long term operation benets.

Purfect™ series are engineered to meet highest expectation of todays demand of puried water. Ultraviolet germicidal light at a minimum dose of 30,000 mwatt sn/cm<sup>2</sup> is lethal to micro organisms, bacteria, viruses present in water. Some applications may require higher ultraviolet dose. The availability of high capacity ultraviolet radiation sources has resulted in an increase in ultraviolet disinfection.

An essential advantage of ultraviolet disinfection processes is that water remains chemically unaltered. Drinking water retains its pleasant taste and neutral odor. Ultraviolet applications reduce discharge of chemicals and by products used for disinfection of water. Our ultraviolet units are rapid, economical, easy to operate and does not use any chemical and heat to sterile water.

MODEL	FLOW RATE		I/O	UV LAMP	DIMENSIONS LxBxH (mm)
	gpm	m <sup>3</sup> /h			
Purfect 1	1	0.23	1/4"	1 x 11W	275 x 51 x 71
Purfect 3	3	0.68	3/8"	1 x 11W	325 x 51 x 75
Purfect 6	6	1.4	3/4" or 1"	1 x 21W	505 x 125 x 180
Purfect 12	12	2.7	1"	1 x 41W	930 x 125 x 180
Purfect 24	24	5.4	1 1/2"	2 x 41W	930 x 135 x 225

### UV Sensitivity of selected microorganisms

ORGANISM	TYPE	DISEASE	Mic W sec / cm <sup>2</sup>
Streptococcus	Bacteria	Strepthroat	3.800
Dysentry Bacilli	Bacteria	Diarrhea	4.200
Staphylococcus	Bacteria	Boils	6.600
Fecal Coliform	Bacteria	Diarrhea	6.600
Salmonella	Bacteria	Food Poisoning	10.000
Bacteriophage (E.Coli)	Virus	Boils	6.600

### Optional monitor

For Purfect 6, 12 and 24 series

