



HEADWORKS BIOLOGY SEPARATION MEMBRANE ▶ DISINFECTION BIOSOLIDS SYSTEMS				
UV	MEDIUM PRESSURE	SWIMMING POOL	COMMERCIAL	

- ▶ Applications
 - Swimming pool disinfection
- ▶ Main characteristics
 - Medium pressure UV system for commercial swimming pool disinfection and chloramine reduction



The UVALITE is designed to offer commercial swimming pools a cost effective medium pressure UV system for disinfection and improved water quality.

MAIN FEATURES

- Medium pressure UV
- Effective against *Cryptosporidium* and *Giardia*
- Reduces chloramines
- Simple on-off control system
- Manually operated wiper
- Automatic low power option
- Simple to install and operate with minimal space requirements

UV TECHNOLOGY: UVALITE

The UVALITE medium pressure UV system is designed for disinfection of commercial swimming pools. Medium pressure UV systems are particularly effective against the highly infectious *Cryptosporidium Parvum* and *Giardia Lamblia* species which are virtually unaffected by the use of chlorine alone.

As UV is not a residual disinfectant, a chlorine residual is required to prevent cross infection between bathers. High proportions of combined chlorine products (chloramines) in circulating water are destroyed by the UV irradiation process. Removal of these compounds greatly improve bathing water quality, reducing skin and eye irritation and removing the common and unpleasant "swimming pool" odour.

HOW IT WORKS

The medium pressure UV lamp is powered by an magnetic ballast housed within a separate wall mounted control panel. The wide spectral distribution of the Triogen lamp produces the simultaneous treatment of several aspects of the circulating pool water as described above.

The lamp power can be adjusted from the control panel. When the pool is not in use the lamp output can be set to low, providing efficient disinfection with a 50% reduction in power consumption. The UV reactor incorporates a manual thimble wiper system which allows cleaning of the internal thimble housing the UV lamp.

TECHNICAL DATA

UVALITE Model	Max Flow Rate ⁽¹⁾		Supply Rating ⁽²⁾
	m ³ /h	US gpm	kW
UVALITE 45	45	200	1.6
UVALITE 90	90	400	3.1
UVALITE 125	125	550	3.1
UVALITE 210	210	920	6.1
UVALITE 300	300	1330	6.1
UVALITE 400	400	1760	6.1

(1) Flow rates based on a dose of 60mj/cm² at end of lamp life

(2) Power supply: 400-480V/3ph/50-60Hz

Remote controls and signal

- **Digital Inputs:** lamp-start-stop, water flow interlock
- **Digital Outputs:** system healthy, prealarm, system fault

Standards

- CE Approval
- BS4504
- ANSI 150

Materials

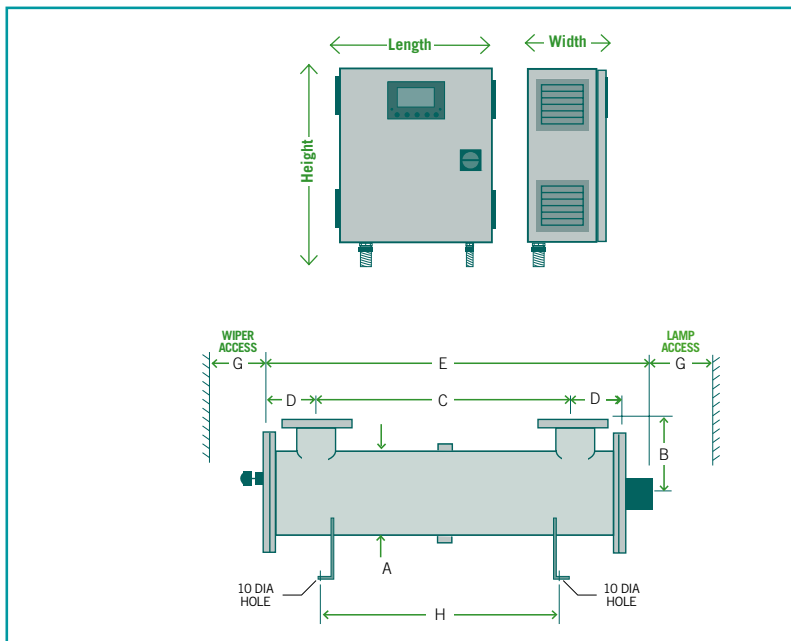
- **Reactor Vessel:** 316L stainless steel
- **Flanges:** BS4504 or ANSI 150
- **Lamp:** high purity quartz
- **Thimble:** high purity quartz
- **Wiper Ring:** spring loaded PTFE
- **Panel:** mild steel epoxy painted

Options

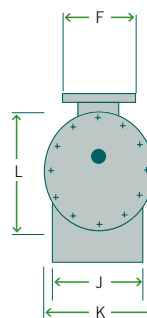
- Stainless steel bends
- Inline basket strainers
- UV monitor

DIMENSIONS

UVALITE Model	Reactor Dimensions (mm/inch)											IN-OUT (inch)
	A	B	C	D	E	F	G	H	J	K	L	
UVALITE 45	200/7.90	175/6.90	700/27.6	145/5.7	1065/41.9	275/10.9	900/35.4	700/27.6	170/6.69	200/7.87	150/5.91	3
UVALITE 90	200/7.90	175/6.90	600/23.6	195/7.7	1065/41.9	275/10.9	900/35.4	700/27.6	170/6.69	200/7.87	150/5.91	6
UVALITE 125	250/9.90	200/7.90	600/23.6	195/7.7	1065/41.9	325/12.8	900/35.4	700/27.6	220/8.66	250/9.84	175/6.89	6
UVALITE 210	250/9.90	200/7.90	900/35.4	220/8.7	1415/55.7	325/12.8	1250/49.2	1000/39.4	220/8.66	250/9.84	175/6.89	8
UVALITE 300	300/11.9	250/9.80	900/35.4	220/8.7	1415/55.7	375/14.8	1250/49.2	1000/39.4	270/10.63	300/11.81	200/7.87	8
UVALITE 400	400/15.0	300/11.8	840/33.1	250/9.9	1415/55.7	475/18.7	1250/49.2	1000/39.4	370/14.57	400/15.75	250/9.84	10



UVALITE Model	Panel	
	l x h x w (mm)	l x h x w (inch)
UVALITE 45	600 x 800 x 200	23.6 x 31.4 x 7.9
UVALITE 90	600 x 800 x 200	23.6 x 31.4 x 7.9
UVALITE 125	600 x 800 x 200	23.6 x 31.4 x 7.9
UVALITE 210	600 x 1000 x 300	23.6 x 39.4 x 11.8
UVALITE 300	600 x 1000 x 300	23.6 x 39.4 x 11.8
UVALITE 400	600 x 1000 x 300	23.6 x 39.4 x 11.8



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