

# UVARAY CF UV Systems

## Swimming Pool Disinfection

UV

**The Uvaray CF series of medium pressure ultraviolet units is designed to be an easy to install system giving a cost effective solution for commercial swimming pool disinfection and chloramine reduction.**

### APPLICATIONS

- Commercial Swimming Pools and Spas
- Water Features
- Lakes and Ponds

### MAIN CHARACTERISTICS

- Easy to install with in-line vessel design
- Higher UV efficiency
- Lower capital cost
- Lower power consumption

### MAIN FEATURES

- Substantial reduction in chloramines
- Medium pressure UV lamps for maximum oxidation
- Touch screen microprocessor control with data logging
- Connects to building management systems
- Automatic "Smartdrive" wiper system as standard
- Simple lamp replacement
- CE approved
- 316 L Stainless steel reactor vessel

### UV TECHNOLOGY: UVARAY CF

Medium pressure UV systems are very effective against highly infectious *Cryptosporidium parvum* and *Giardia lamblia* species which can exist in swimming pool water. These are virtually unaffected by the levels of chlorine used to sanitise swimming pools.

The use of chlorine in swimming pools results in the formation of chloramines as a direct result of its interaction with pollutants and it is these that result in eye and skin irritation combined with unpleasant odours.

Reduction of these by utilising medium pressure UV results in a vastly improved water quality and atmospheric environment.

### HOW IT WORKS

The medium pressure UV lamps are housed within a stainless steel reactor vessel connected to a wall mounted electrical control panel which supplies power to the lamps and controls all the operating functions.

The unit can be set to operate at 50% power overnight to save electricity and can be connected to a building management system to allow monitoring of the system.

To ensure maximum performance, the reactor is fitted with a fully automatic thimble cleaning system which is designed to be simple and reliable.



## PANEL DISPLAY OPTIONS

- Lamp hours run
- UV intensity %
- UV intensity mW/cm<sup>2</sup>
- UV intensity mJ/cm<sup>2</sup> (see note)

## ALARMS

- Lamp failure alarm
- Lamp change required alarm
- Reactor high temperature alarm
- Low UV intensity alarm

## CONTROLS

- Remote Start / Stop
- Remote lamp power

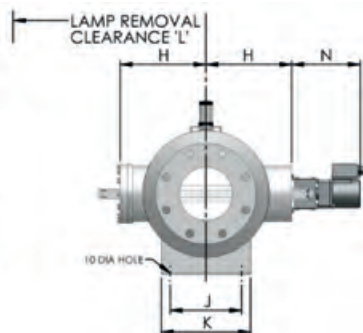
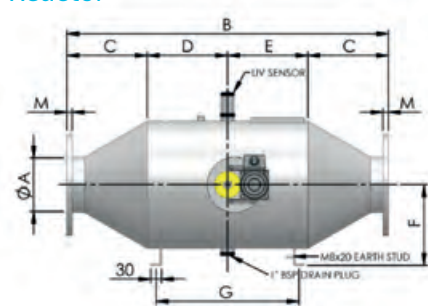
UVARAY CF MODELS	Flow Rates		Lamp Power kW	Supply Rating <sup>(1)</sup> V/ph/Hz	Control Panel Dimensions mm (L x W x H)
	m <sup>3</sup> /h	US gpm			
CF20	20	88	1.0	220/1/60 230/1/50	600 x 600 x 200
CF40	40	175	1.0		600 x 600 x 200
CF60	60	264	1.5		600 x 600 x 200
CF105	105	460	2.0		600 x 600 x 200
CF145	145	640	2.5		600 x 600 x 200
CF170	170	750	3.0		600 x 600 x 200
CF220	220	970	2 x 2.0 = 4.0	380/3/50-60* 400/3/50* 415/3/50* 480/3/60*	800 x 800 x 200
CF300	300	1320	2 x 2.5 = 5.0		800 x 800 x 300
CF355	355	1560	2 x 3.0 = 6.0		800 x 800 x 300
CF415	415	1825	2 x 3.5 = 7.0		800 x 800 x 300
CF530	530	2330	3 x 3.0 = 9.0	Other voltages on request	1000 x 1000 x 300
CF620	620	2730	3 x 3.5 = 10.5		1000 x 1000 x 300
CF710	710	3125	4 x 3.0 = 12.0		800 x 1400 x 400
CF830	830	3650	4 x 3.5 = 14.0		800 x 1400 x 400
CF1000	1000	4400	5 x 3.5 = 17.5		1000 x 1600 x 400

Note: UV intensity mJ/cm<sup>2</sup> requires a 4-20mA signal from a water flowrate measuring device (not supplied).

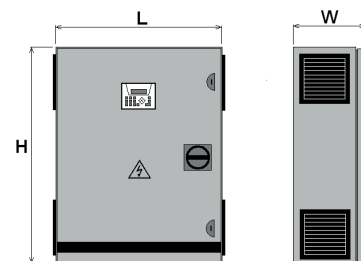
## DIMENSIONS

REACTOR	Reactor Dimensions (mm)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
CF20	75	250	-	-	-	-	-	150	-	-	400	15	195
CF40	75	740	200	150	190	175	300	190	150	200	400	15	195
CF60	100	740	200	150	190	175	300	190	150	200	400	15	195
CF105-145	150	900	225	205	245	225	400	240	200	250	500	15	195
CF170	200	820	225	205	245	225	400	290	200	250	600	15	195
CF220-300	200	820	185	225	225	225	400	240	200	250	500	15	285
CF355-415	250	890	185	260	260	275	450	290	250	300	600	15	285
CF530-620	300	970	185	300	300	275	450	290	250	300	600	20	285
CF710-830	350	870	135	300	300	275	450	290	250	300	600	20	285
CF1000	400	870	92.5	342.5	342.5	300	450	290	250	300	600	20	285

Reactor



Control Panel



## CONTACT

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