



Ultraviolet Sterilizers CHI Series – High-Purity

The CHI Series of high purity industrial ultraviolet treatment systems utilize low pressure, high intensity UV lamps to destroy microorganisms, eliminate ozone, or reduce total organic carbons (TOC) in high purity water systems for up to 3500 gpm. With properly sized UV doses, 254nm UV lamps destroy microorganisms and eliminate ozone, while 185nm lamps reduce TOC levels in water. The CHI series utilizes the new Saf-T-Cap™ lamp connector, which prevents user exposure to UV radiation.

- External and Internal Electropolished 316L Stainless Steel Vessel
- U.L. 508A Listed
- Flanged Inlet/Outlet 150# RF
- Alarm output contacts for remote monitoring
- NEMA Type 4X electrical enclosure
- Digital Interface

SPECIFICATIONS FOR CHI SERIES 254NM ULTRAVIOLET TREATMENT SYSTEMS

MODEL NUMBER	CHI-2	CHI-4	CHI-10	CHI-15
Part Number	ZCHI201510	ZCHI402510	ZCHI1006010	ZCHI1510010
No. of UV lamps	1	1	1	2
Max. Design Flow (gpm)				
Clear Water (94% UVT)	12	20	50	80
RO/DI Water (98% UVT)	15	25	60	100
Standard Operating Pressure	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)
Inlet/Outlet Connection	1" 150# RFF	1.5" 150# RFF	2" 150# RFF	2" 150# RFF
Vessel Dimensions (LXWXH - inches)	28.0"X3.0"X6.9"	28.1"X4.0"X8.1"	41.7"X6.0"X11.4"	42.7"X6.0"X11.4"
Enclosure Dimensions (HXWXD - inches)	12"X12"X6"	12"X12"X6"	12"X12"X6"	12"X12"X6"
Replacement Lamp	ZCSPLi40718	ZCSPLi40718	ZCSPLi40387	ZCSPLi40387
Replacement Quartz Sleeve	ZCSPQAQ36648	ZCSPQAQ36648	ZCSPQAQ36650	ZCSPQAQ36650
Replacement Ballast	ZCSPQAQ36927	ZCSPQAQ36927	ZCSPQAQ36928	ZCSPQAQ36928

MODEL NUMBER	CHI-25	CHI-30	CHI-40	CHI-50
Part Number	ZCHI2517510	ZCHI3023010	ZCHI4027510	ZCHI5033510
No. of UV lamps	3	4	5	6
Max. Design Flow (gpm)				
Clear Water (94% UVT)	140	190	230	280
RO/DI Water (98% UVT)	175	230	275	335
Standard Operating Pressure	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)
Inlet/Outlet Connection	3" 150# RFF	3" 150# RFF	4" 150# RFF	4" 150# RFF
Vessel Dimensions (LXWXH - inches)	44.5"X8.5"X14.8"	44.5"X8.5"X14.8"	45.4"X11.0"X18.6"	45.4"X11.3"X18.6"
Enclosure Dimensions (HXWXD - inches)	12"X12"X6"	16"X16"X6"	16"X16"X6"	16"X16"X6"
Replacement Lamp	ZCSPLi40387	ZCSPLi40387	ZCSPLi40387	ZCSPLi40387
Replacement Quartz Sleeve	ZCSPQAQ36650	ZCSPQAQ36650	ZCSPQAQ36650	ZCSPQAQ36650
Replacement Ballast	ZCSPQAQ36928	ZCSPQAQ36928	ZCSPQAQ36928	ZCSPQAQ36928

UV Unit Sensor (three piece) Accessory (all CHI Units)

UV Unit Sensor (single piece) Accessory (all CHI Units)

ZCCHIUCAUVS

ZCCHIUCSUVS

Note: Best for Hot water Sanitization Applications

Note: Best for Standard 254nm Monitoring

CHI SERIES STANDARD FEATURES

- On/Off/Remote Selector Switch
- Lamp Life Count Down Display
- Lamp Out Alert with Alarm Contacts
- Electronic Ballasts
- Minimum Ra 15 Surface Finish
- Removable Head Plate
- FDA Approved Viton® O-Rings
- 10 Foot Interconnecting Cable
- 120 VAC/60 Hz/1 Phase Voltage Requirement

CHI SERIES OPTIONAL ACCESSORIES

- Type UCA UV Sensor (three piece) with 4-20 mA Output
- Type UCS UV Sensor (single piece) with 4-20 mA Output
- Thermal Overheat Protection with Output Contact
- Lamp Validation Package
- UV Light Traps
- Sanitary Inlet/Outlet Fittings
- 25 and 35 Foot Interconnecting Cable
- 220 VAC/60 Hz/1 Phase Voltage Requirement
- 220 VAC/50 Hz/1 Phase Voltage Requirement

Note: Flow rates of up to 3500 gpm available with the CHI Series. Please contact Technical Support for detailed information and optional accessories. Mating flanges are not supplied with units.