

SP UNITS

Utilizing our proven medium pressure lamp technology, the SP-type UV systems offer a high quality 'high specifications' product at a very competitive price. Suitable for all pools and whirlpools with flows from 100 – 3400 gpm and flange sizes from 2" – 14".

Treatment Chamber

UV treatment chambers are designed for installation into the pipe work after the filters and heaters, but before any chemical dosing. Please refer to the SP Units Technical Specifications document for chamber dimensions and clearance requirements.

The UV chamber is manufactured from polished 316L stainless steel and is flanged with ANSI 150 RF flanges for easy installation. Temperature probes, UV monitor probes, and automatic quartz wipers are all included.

Pressure ratings on the unit are 150 psi, and pressure drop across the unit is minimal.

Control System

The control system is located in a NEMA 12 (IP54) rated panel.

As a standard, it is supplied with a 15' cable for connection to the treatment chamber.

The power supply (PSU) and control cabinet is powered with the latest SPECTRA microprocessor control unit. Three levels of operation (simple control, full parameter display, and operator configuration) allow easy, uncomplicated operation of the unit by an operator. Included is a sophisticated password protected engineering section for integrating the unit with other system devices.

Autopower restart, pump and valve interfaces, process interrupt and low power overnight operation are all features specifically designed for use on swimming pools and waterparks.

SP Units – designed to be the best.



The treatment chamber has been designed for the simplest installation into any pipe work system. The compact design allows existing facilities to be easily upgraded with minimum site work.



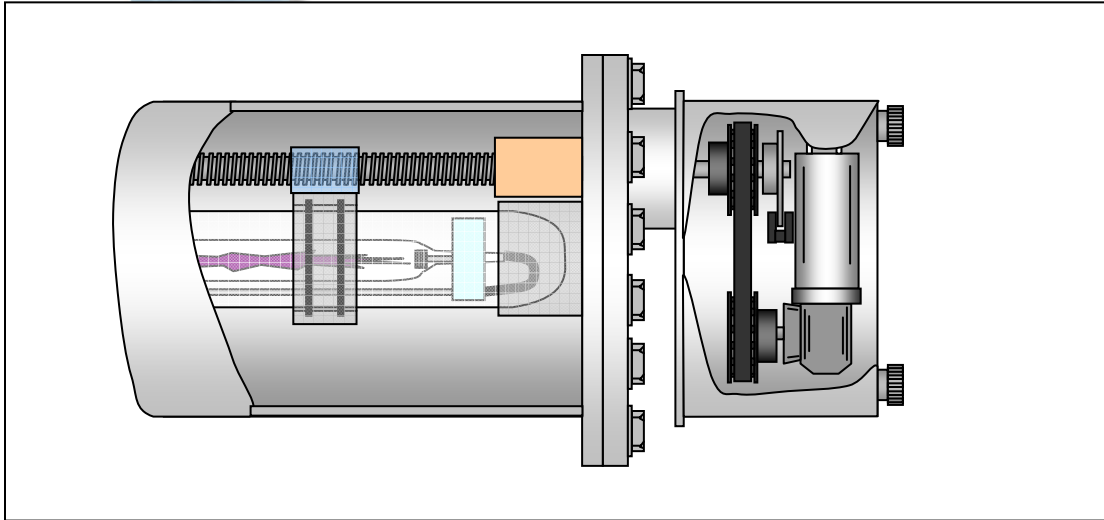
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CONTROL UNIT TECHNICAL SPECIFICATIONS



TYPE	SUPPLY POWER	WEIGHT	DIMENSIONS Inches & (mm)		
			Width	Height	Depth
SP – A-220	220V, 60 Hz, 1-ph	90 lbs.	24" / 600 mm	24" / 600 mm	8 ½" / 210 mm
SP – A-480	480 V, 60 Hz, 3-ph	90 lbs.	24" / 600 mm	24" / 600 mm	8 ½" / 210 mm
SP – B-480	480 V, 60 Hz, 3-ph	350 lbs.	28" / 700 mm	40" / 1000 mm	16" / 400 mm
SP – C-480	480 V, 60 Hz, 3-ph	350 lbs.	28" / 700 mm	40" / 1000 mm	16" / 400 mm
SP – D-480	480 V, 60 Hz, 3-ph	1100 lbs.	32" / 800 mm	68" / 1700 mm	24" / 600 mm
MATERIAL		Carbon Steel	NEMA/IP RATING		NEMA 12/IP54
COMPLETE WITH					
UV Monitoring			Automatic Wiper		
RCD Protection			Over Temperature Protection		
SPECTRA MICROPROCESSOR CONTROL					
Simple START, STOP and RESET Buttons			Full Fault Screen Display and Help Screens		
Dose, Flow, Current and Temperature Display			Remote Operation and Control Function		
Auto Restart on Power Failure			Valve and Pump Interface Contacts		
Half Power Operation for Low Pool Use Periods			Separate Password-Protected Eng. Functions		

SP UNITS INTELLIGENT WIPER – THE RWQ RANGE



ETS's new wiper assembly now includes many unique features, making this a state-of-the-art wiper system.

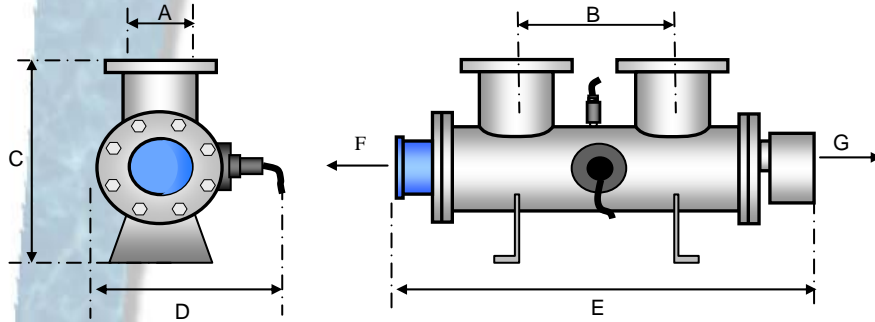
- Unique double seal and bearing housing for longer life, including food-grade-approved seal materials.
- Fully enclosed housing to maintain NEMA (IP) ratings.
- Wiper power supply @ 24 Volt DC for improved safety.
- Belt drive with all pulleys and shafts square-machined to prevent slippage and pin shearing.
- Direct shaft encoding for positional location; no need for external proximity switches and internally located magnets. No complex transfer gear boxes for limit switches.
- Wiper interval operator selectable, with an optional override switch.
- Ability to upgrade most systems with a retrofit wiper.

INTELLIGENT OPERATION

The new electronic control system features an automatic start-up/commissioning application. Operators do not need to position the wiper carriage. A very simple commissioning procedure records the wiper position at both ends of the chamber and establishes its travel run without the need to check stop positions and adjust limits accordingly. There is no risk of proxy faults causing wiper failure.

The system also fully recovers from power dips and interruptions, with a permanent memory of wiper location and travel direction stored in its processor. The wiper can also report directly into the new SPECTRA control panel for fault reporting and data logging.

SP UNITS TECHNICAL SPECIFICATIONS



Model #	Lamp Power (kw)	Flow (gpm)	Weight (lbs.) Dry/Wet	DIMENSIONS & ACCESS							Control Cabinet Type
				Inches & mm							
				A	B	C	D	E	F	G	
SP-13-4	1.3 kW	100	95/110 lbs.	2"	11"/280 mm	14"/356 mm	14"/356 mm	25"/635 mm	16"/407 mm	6"/153 mm	SP - A-220
SP-25-4	2.5 kW	140	95/110 lbs.	2.5"	14"/356 mm	14"/356 mm	15"/381 mm	29"/737 mm	20"/508 mm	6"/153 mm	SP - A-480
SP-25-4S	2.5 kW	210	95/110 lbs.	3"	13"/331 mm	14"/356 mm	14"/356 mm	29"/737 mm	20"/508 mm	6"/153 mm	SP - A-480
SP-25-6	2.5 kW	365	130/165 lbs.	4"	12"/305 mm	18"/458 mm	17"/432 mm	29"/737 mm	20"/508 mm	6"/153 mm	SP - A-480
SP-25-8	2.5 kW	500	220/295 lbs.	6"	14"/356 mm	20"/508 mm	19"/483 mm	33"/839 mm	24"/610 mm	6"/153 mm	SP - A-480
SP-50-8	5.0 kW	800	225/315 lbs.	6"	22"/559 mm	20"/508 mm	19"/483 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - B-480
SP-50-10	5.0 kW	1145	305/475 lbs.	8"	20"/508 mm	22"/559 mm	21"/535 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - B-480
SP-50-10S	5.0 kW	1145	330/530 lbs.	10"	18"/458 mm	22"/559 mm	23"/585 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - B-480
SP-50-12	5.0 kW	1340	455/725 lbs.	10"	18"/458 mm	28"/713 mm	23"/585 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - B-480
SP-73-12	7.3 kW	1940	460/765 lbs.	10"	30"/762 mm	28"/713 mm	23"/585 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - C-480
SP-73-12S	7.3 kW	1940	530/885 lbs.	12"	28"/713 mm	28"/713 mm	23"/535 mm	40"/1016 mm	32"/813 mm	6"/153 mm	SP - C-480
SP-273-14	2 x 7.3 kW	3400	610/1065 lbs.	12"	28"/713 mm	28"/713 mm	25"/635 mm	52"/1321 mm	44"/1118 mm	6"/153 mm	SP - D-480
SP-273-14S	2 x 7.3 kW	3400	670/1195 lbs.	14"	26"/661 mm	28"/713 mm	25"/635 mm	52"/1321 mm	44"/1118 mm	6"/153 mm	SP - D-480
MATERIAL		316L Stainless Steel		FLANGE TYPE		ANSI 150 RF					
PRESSURE DROP		Approx. 1.0 psi		DRAIN & VENT		1/2" - 1" NPT & 1/4" NPT					
PRESSURE RATING		150 psi (330 psi test)		STRAINER		Supplied Loose					

Dimension A – ANSI Flange is stated in inches only.

SP Units Sizing Chart

Pipe	Model	Lamps	Total KW	Flow (GPM)
2"	SP-13-4	1*1.3kW	1.3	100
2.5"	SP-25-4	1*2.5kW	2.5	140
3"	SP-25-4S	1*2.5kW	2.5	210
4"	SP-25-6	1*2.5kW	2.5	365
6"	SP-25-8	1*2.5kW	2.5	500
	SP-50-8	1*5.0kW	5.0	800
8"	SP-50-10	1*5.0kW	5.0	1145
10"	SP-50-10S	1*5.0kW	5.0	1145
	SP-50-12	1*5.0kW	5.0	1340
	SP-73-12	1*7.3kW	7.3	1940
12"	SP-73-12S	1*7.3kW	7.3	1940
	SP-273-14	2*7.3kW	14.6	3400
14"	SP-273-14S	2*7.3kW	14.6	3400

