

### Technical Specification:

Model no.	: IOS/SWP - 75 ; 85 ; 110 ; 120 ; 135 ; 150 ; 165 220 ; 240* ; 300 ; 360 ; 420 ; 480 ; 480* ; 500 600 ; 630 - I
Make	: Chemtronics <sup>®</sup>
Feed gas	: Pure dry oxygen
MOC of ozone cell	: SS 316 / Ceramic / PTFE / Quartz / Enamelled
Cell cooling	: Inner Electrode - Water Cooled Outer Electrode - Water Cooled
Power supply	: Switch mode power supply (SMPS)
Power amplifier	: MOSFET / IGBT Technology
EHT	: Ferrite based forced air cooled
Dielectric	: Precision enamelled / Ceramic / Quartz
Enclosure – MOC	: Carbon Steel / Stainless Steel Grade – 304 <sup>1</sup>
Enclosure –Finish	: RAL7035, structure powder coating
Indicator	: Power + Standby + Ozone ON
Variable control	: 25% - 100% (Internal)
Service indicator	: Non resettable hour meter
Operating temperature	: 20°C – 40°C
Specified life	: 20,000 Working Hrs
Mounting/Installation	: Floor
Line voltage	: 220 V ac /50 Hz(180 -250 v ) I Phase / III Phase
Operation	: Automatic



### Sensors:

#### Standard ▶

- Cooling water flow sensor : Magnetic

#### Optional ▶

- ORP controller : Digital online
- Oxygen humidity sensor : Digital online
- Oxygen purity meter : Digital online
- Dissolved ozone monitor : Digital online
- Oxygen gas flow sensor : Magnetic / Optical flow switch

### Protection & Safety:

#### Power Board Protection ▶

- Line voltage surge and spike
- Delayed soft start & soft off
- Over temperature & protection
- Over current
- Under voltage
- Over voltage
- High voltage short circuit
- High Voltage open circuit

#### Enclosure ▶

- UL certified & CE marked
- Electrical & Electronics - IP 54
- Ozone cell – IP 65

#### Back Flow Preventor ▶

- Stainless Steel - Grade 304 + Ozone Compatible



## Accessories:

### Standard ▶

- Ozone mixing pump : Special Ozone Compatible  
Stainless Steel – Grade / Carbide Carbon
- Ventury : Stainless Steel – Grade 316
- Static Mixer : Stainless Steel – Grade 316
- Backflow Preventer : Stainless Steel - Grade 304 + Ozone  
Compatible
- Non Return Valve : Stainless Steel – Grade 316
- Skid : Stainless Steel – Grade 304
- Control Panel : MS Powder Coated ; IP 65 protection
- O R P Monitor : ± 1,000 mV
- Oxygen tubing : MOC – Polyurethane [PU] - 03 meter
- Ozone tubing : MOC – Polypropylene [PP] - 03 meter

### Optional ▶

- Enclosure : Stainless Steel - Grade 304
- Ozone Mass Transfer Tank : Stainless Steel - Grade 316
- Cooling system : Cooling Tower / Water Chillier
- Air Dryer : Refrigerant Dryer / Heatless  
desiccant
- Ambient Ozone Monitor : 10 – 1000 PPB
- Dissolved Ozone Monitor : 1.0 – 20.0 PPM

## IOS/SWP - Industrial SERIES [75 G/hr - 630 G/hr] ; Ozone Concentration : 90 - 110 G/m<sup>3</sup> [w/v]

Model No.	Ozone [G/hr]	Swimming Pool Volume [m <sup>3</sup> ]				Oxygen Flow [Nm <sup>3</sup> /hr]	Air Flow [cfm]	Side Stream Pump [m <sup>3</sup> /hr]	V entury [Inch]	Dimension (LxWxH) [m]	Power [Kw]
		0.2 ppm	0.3 ppm	0.4 ppm	0.5 ppm						
IOS/SWP-75 I	65-75	375	250	190	150	1.0	10	4.0	1.5	4.0 x 1.0 x 2.5	5.0
IOS/SWP-85 I	75-85	425	290	210	170	1.0	10	4.0	1.5	4.0 x 1.0 x 2.5	5.0
IOS/SWP-110 I	100-110	550	370	275	220	1.0	10	4.0	1.5	4.0 x 1.0 x 2.5	5.5
IOS/SWP-120 I	110-120	600	400	300	240	1.2	10	4.0	1.5	4.0 x 1.0 x 2.5	5.5
IOS/SWP-135 I	125-135	675	450	340	270	1.5	20	8.0	1.5	4.5 x 1.2 x 2.5	8.5
IOS/SWP-150 I	135-150	750	500	375	300	1.2	10	4.0	1.5	5.0 x 1.2 x 2.5	7.0
IOS/SWP-165 I	150-165	825	550	410	330	1.5	20	8.0	1.5	5.0 x 1.5 x 2.5	9.5
IOS/SWP-200 I	180-200	1,000	660	500	400	2.0	20	8.0	1.5	5.0 x 1.5 x 2.5	9.5
IOS/SWP-240 I	220-240	1,200	800	600	480	3.0	30	8.0 X 2	1.5 X 2	6.0 x 2.0 x 2.5	12.5
IOS/SWP-240* I	220-240	1,200	800	600	480	2.0	20	12.0	1.5	6.0 x 2.0 x 2.5	11.0
IOS/SWP-300 I	280-300	1,500	1,000	750	600	3.0	30	8.0 X 2	1.5 X 2	6.0 x 2.0 x 2.5	13.5
IOS/SWP-360 I	340-360	1,800	1,200	900	720	3.0	30	8.0 X 2	1.5 X 2	6.0 x 2.0 x 2.5	13.5
IOS/SWP-420 I	400-420	2,100	1,400	1,050	840	4.0	40	12.0 X 2	1.5 X 2	6.0 x 2.5 x 2.5	16.5
IOS/SWP-480 I	450-480	2,400	1,600	1,200	960	5.0	50	8.0 X 3	1.5 X 3	6.0 x 2.5 x 2.5	20.0
IOS/SWP-480* I	450-480	2,400	1,600	1,200	960	5.0	50	8.0 X 3	1.5 X 3	6.0 x 2.5 x 2.5	20.0
IOS/SWP-500 I	480-500	2,500	1,700	1,250	1000.0	5.0	50	8.0 X 3	1.5 X 3	6.0 x 2.5 x 2.5	21.5
IOS/SWP-600 I	580-600	3,000	2,000	1,500	1,200	6.0	60	8.0 X 4	1.5 X 4	6.0 x 2.5 x 2.5	26.0
IOS/SWP-630 I	600-630	3,150	2,100	1,575	1,260	6.0	60	8.0 X 4	1.5 X 4	6.0 x 2.5 x 2.5	27.0

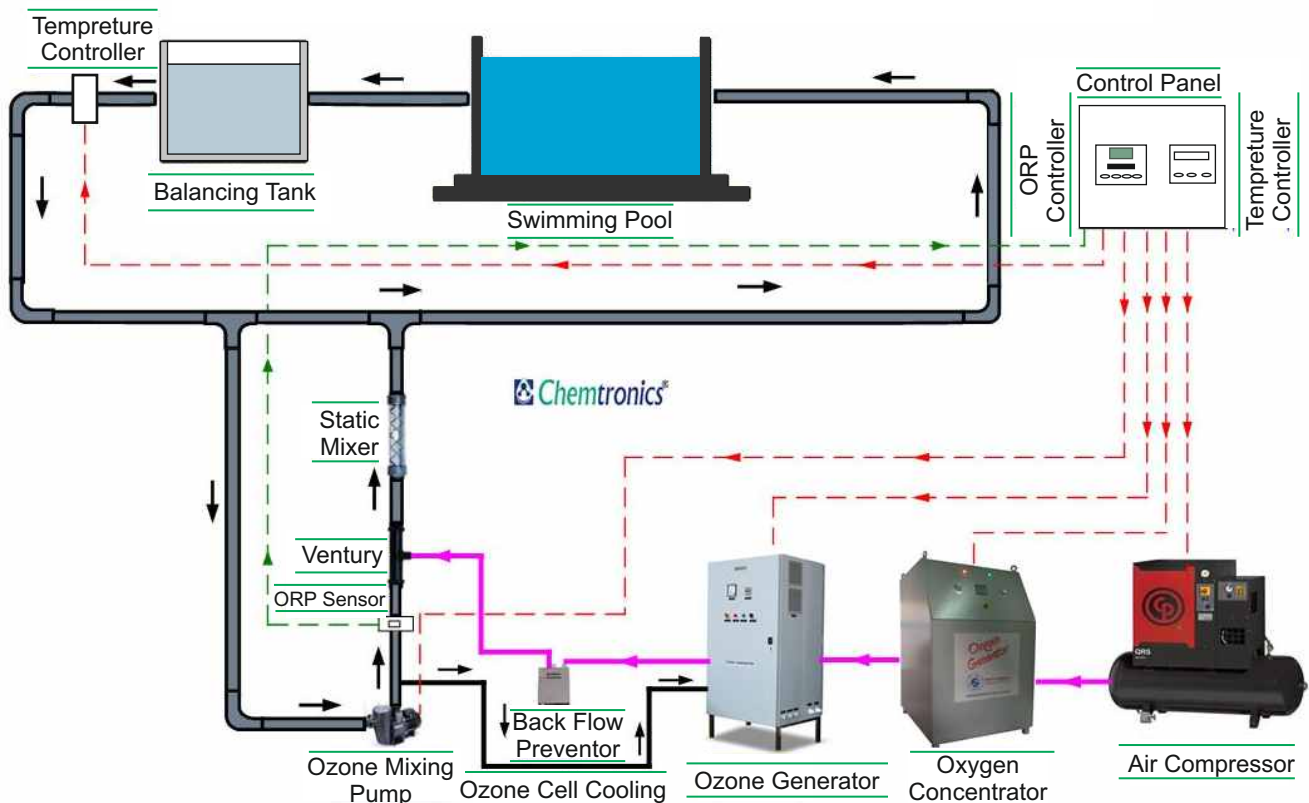
\* - Internal & External Air Cooled ozone cell, all other models are internally & externally water cooled ozone cell.

- Specification is subject to change for improvement without prior notice. - Picture may differ from actual supplied product.

## Scope of Supply:

- Ozone Generator - IP 65 + IP 54 [CE + UL enclosure] : 01 no.
- Oxygen concentrator - Industrial Grade : 01 no.
- Ozone Mass Transfer Tank - Stainless Steel 316 : 01 no. [In select models]
- Ozone Mixing Pump [Sea water/Ozone compatible] : 01 - 04 nos.
- Ventury - Stainless Steel - Grade 316 | PVDF [KYNER] : 01 - 04 nos.
- Static Mixture - Stainless Steel - Grade 316 : 01 - 04 nos.
- Anti-oxidant ozone tubing - PP / PTFE : 05 meters.
- Oxygen Tubing - PU : 05 meters.
- Non Return Valve - Stainless Steel - Grade 316 : 01no.
- Back Flow Preventer - SS 304 + Anti Oxidant : 01 no.
- Skid - Stainless Steel - SS 304 : 01 no.
- Un-dissolved Ozone Vent : 01 no. [In select models]
- Un-dissolved Ozone Destruct : 01 no. [In select models]
- Ozone Cell Cooling System : 01no.
- Control Panel - IP 65 - CE + UL : 01no.

### PFD 04.04 Integrated Ozone System - Swimming Pool Ozonation Option C : Online Integration - Industrial Grade



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