

### Technical Specification:

Model no.	: Air cooled - IOS/AQC-05 ; 10 ; 20 ; 40 - A Water cooled - IOS/AQC-15 ; 25 ; 30 ; 40 ; 60 ; 70 ; 80 ; 90 ; 100 ; 120 ; 135 ; 150 ; 200 - W
Make	: Chemtronics®
Feed gas	: Pure dry oxygen
MOC of ozone cell	: SS 316 / Ceramic / PTFE
Cell cooling	: Air cooled – Internally & Externally forced air cooled Water cooled – internally & externally water cooled
Power supply	: Switch mode power supply (SMPS)
Power amplifier	: MOSFET Technology
EHT	: Ferrite based forced air cooled
Dielectric	: Precision enamelled
Enclosure – MOC	: Carbon steel
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 <sup>4</sup>
Mounting/Installation	: Floor
Line voltage	: 230 v ac /50 Hz (180 -250 v ) I phase
Operation	: Automatic



### Sensors:

#### Standard ▶

- Cooling Water Sensor : Magnetic
- ORP controller : Digital online

#### Optional ▶

- Oxygen humidity sensor : Digital online
- Oxygen purity meter : Digital online
- Dissolved ozone monitor : Digital online
- Oxygen gas 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

### Accessories:

#### Standard ▶

- Oxygen tubing : MOC – Polyurethane - 03 meter
- Ozone tubing : MOC – Polypropylene - 03 meter

#### Optional ▶

- Enclosure : SS – 304
- Pump : SS – 316
- Cooling system : Water chillers

## Air Cooled

Model No.	Ozone [G/hr]	Aquaculture Raw Water Flow Rate [m3/hr]							Oxygen Flow [LPH]	Ozone Mass Tr Tank [Ltrs]	Side Stream Pump [m3/hr]	Ventury [Inch]	Dimension (LxWxH) [m]	Net Weight [Kg]	Power [Kw]
		0.5 ppm	0.8 ppm	1.0 ppm	1.2 ppm	1.5 ppm	2.0 ppm	2.5 ppm							
IOS/AQC-05 S*	3-6	10	6	5	4	3	2.5	2	300	55	3.0	1/2	0.6 x 0.6 x 1.5	90	1.1
IOS/AQC-10 S*	6-12	20	13	10	8	7	5	4	300	55	3.0	1/2	0.6 x 0.6 x 1.5	100	1.3
IOS/AQC-20 S*	18-22	40	25	20	17	13	10	8	300	55	3.0	1/2	0.6 x 0.6 x 1.5	100	1.5
IOS/AQC-40 S*	38-42	80	50	40	33	27	20	16	600	55	5.0	3/4	0.8 x 0.6 x 1.5	110	1.9

## Water Cooled

IOS/AQC-15 S	9-15	30	19	15	12	10	8	6	300	55	3.0	1/2	0.8 x 0.6 x 1.5	110	1.2
IOS/AQC-25 S	25-28	50	31	25	21	17	12	10	300	55	3.0	1/2	0.8 x 0.6 x 1.5	120	1.3
IOS/AQC-30 S	25-32	60	38	30	25	20	15	12	300	55	3.0	1/2	1.0 x 0.8 x 1.5	130	1.5
IOS/AQC-40 S	35-42	80	50	40	33	27	20	16	600	125	4.0	3/4	2.0 x 0.8 x 1.5	170	1.9
IOS/AQC-60 S	42-60	120	75	60	50	40	30	24	600	150	4.0	3/4	2.0 x 0.8 x 1.5	190	2.2
IOS/AQC-70 S	60-70	140	88	70	58	47	35	28	600	235	4.0	3/4	2.0 x 0.8 x 1.5	230	2.2
IOS/AQC-80 S	72-84	160	100	80	67	53	40	32	900	235	6.0	1	2.5 x 0.8 x 1.5	270	3.3
IOS/AQC-90 S	85-90	180	112	90	75	60	45	36	1200	235	8.0	1 <sup>1/2</sup>	2.5 x 0.8 x 1.5	275	4.1
IOS/AQC-100 S	90-100	200	125	100	83	67	50	40	900	340	6.0	1	2.5 x 0.8 x 1.5	280	4.1
IOS/AQC-120 S	100-120	240	150	120	100	80	60	48	1200	340	8.0	1 <sup>1/2</sup>	3.0 x 0.8 x 1.5	320	4.9
IOS/AQC-135 S	120-135	270	170	135	112	90	68	54	1200	600	8.0	1 <sup>1/2</sup>	3.0 x 0.8 x 2.0	330	5.1
IOS/AQC-150 S	125-150	300	190	150	125	100	75	60	1500	600	10.0	2	3.5 x 0.8 x 2.0	350	5.3
IOS/AQC-200 S	180-200	400	250	200	167	133	100	80	1800	900	12.0	2	3.5 x 0.8 x 1.5	370	6.1

### Scope of Supply:

○ Ozone generator - IP 65 + IP 54 [CE + UL enclosure]	: 01 no.	○ Oxygen tubing - PU	: 02 meters
○ Oxygen concentrator - Medical grade	: 01-06 nos.	○ Back flow preventer - SS 304	: 01 no.
○ Ozone mass transfer tank - SS 316	: 01 no.	○ Skid - Stainless steel - SS 304	: 01 no.
○ Ozone mixing pump [Sea water/Ozone compatible]	: 01 no.	○ Undissolved ozone vent	: 01 no.
○ Ventury - PVDF [KYNER]	: 01 no.	○ Undissolved ozone destruct	: 01 no.
○ Static mixture - SS 304/316 / PC / C-PVC	: 01 no.	○ Ozone cell cooling system	: 01 no.
○ Anti-oxidant ozone tubing - PP / PTFE	: 03 meters	○ Control panel - IP 65 - CE + UL	: 01 no.


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