



HEADWORKS
BIOLOGY
SEPARATION
MEMBRANE
▶ DISINFECTION
BIOSOLIDS
SYSTEMS

OZONE COMMERCIAL SWIMMING POOL SELF-CONTAINED

▶ Applications

- Swimming pool disinfection

▶ Main characteristics

- Ozone system producing up to 650 g/h for swimming pool disinfection



The M7 ozone generator offers full ozone treatment for large commercial swimming pools. This self-contained unit provides exceptional disinfection and significantly improves water quality.

MAIN FEATURES

- 'Free Tube' ozone module design
- Refrigerated pre-dryer for high plant room temperatures
- Constant dewpoint monitoring of dry air feed gas
- Proven ability to safely lower free chlorine residual
- Effective against chlorine resistant micro-organisms
- Very low THM levels
- Simple to install and operate with vacuum operation for safety

OZONE TECHNOLOGY: M7 OZONE SYSTEM

The M7 is designed for disinfection of large commercial swimming pools. Ozone provides effective treatment against chlorine resistant micro-organisms and significantly improves water clarity. The M7 generators are self contained, with air pre-chiller, integral air dryer, dewpoint monitoring system, ozone generation equipment and full electrical controls.

All components are housed within one enclosure, with internal partitioning and removal access doors for ease of maintenance. Both the air drying system and the ozone generation system operate under vacuum conditions thereby eliminating the risk of ozone gas escape.

HOW IT WORKS

Ozone is produced when air is passed over a dielectric ozone generating module. The M7 range incorporate the patented 'Free Tube' module design which give excellent dielectric reliability and decreases maintenance requirements. The ozone modules have a PVC outer body fitted with stainless steel liner tubes to give excellent resistance to chlorinated water allowing pool water to be used in the generator cooling system. The dielectric tubes and electrodes are suspended within the liner tubes which removes all expansion stresses from the dielectrics which results in maximum reliability and long life.

The ozone power supply system incorporates a frequency inverter that increases the mains frequency to maximise ozone production and also allows fully variable automatic control of the ozone output. All models can be supplied either with constant ozone output or with totally automatic ozone output variation and easy to operate electrical controls.

TECHNICAL DATA

M7 Model	Feed Gas	Ozone Output	Cooling Water Flow ⁽¹⁾	Power Consumption
	m ³ /h	g/h	l/h	kW
M7WC65	2.7	65	250	2.4
M7WC130	5.4	130	500	3.9
M7WC190	8.1	190	750	5.4
M7WC260	10.8	260	1000	7.6
M7WC320	13.5	320	1250	10.0
M7WC390	16.2	390	1500	12.2
M7WC450	18.9	450	1750	14.4
M7WC520	21.6	520	2000	16.2
M7WC580	24.3	580	2250	18.0
M7WC650	27.0	650	2500	20.6

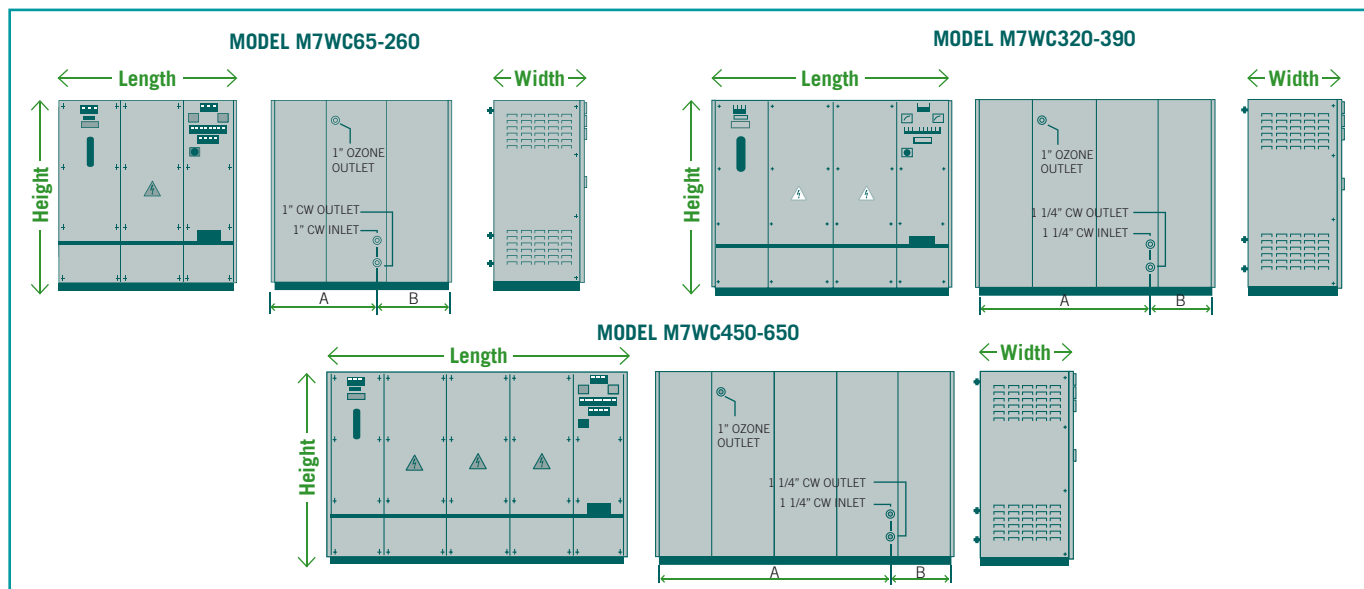
(1) > 30°C

Standards

- BS EN ISO 9002:94
- CE Approval

DIMENSIONS

M7 Model	Panel (mm/inch)		l x h x w	
	A	B	mm	inch
M7WC65	915/36.02	455/17.91	1370 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC130	915/36.02	455/17.91	1370 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC190	915/36.02	455/17.91	1370 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC260	915/36.02	455/17.91	1370 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC320	1425/56.10	455/17.91	1880 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC390	1425/56.10	455/17.91	1880 x 1800 x 830	53.94 x 70.87 x 32.68
M7WC450	1935/76.18	455/17.91	2390 x 1800 x 830	94.09 x 70.87 x 32.68
M7WC520	1935/76.18	455/17.91	2390 x 1800 x 830	94.09 x 70.87 x 32.68
M7WC580	1935/76.18	455/17.91	2390 x 1800 x 830	94.09 x 70.87 x 32.68
M7WC650	1935/76.18	455/17.91	2390 x 1800 x 830	94.09 x 70.87 x 32.68



Remote controls and alarms

- **Fault:** red illuminated indicators
- **Dew point meter**
- **Air flow alarm switch**
- **Water flow switch**

Materials

- **Enclosures:** mild steel, epoxy coated
- **Ozone Module:** 316 stainless steel electrode assembly inside a stainless steel lined PVC outer body
- **Air Dryer:** mild steel, epoxy coated



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