



Magen Clean Anti-scale Ionizer

Date: Nov. 2016

▶ Installation and Operation Manual



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- ◆ Cleaning Procedures

Magen Clean Anti-scale Ionizer



Controller Panel



Ionizer w/ cable

Specifications

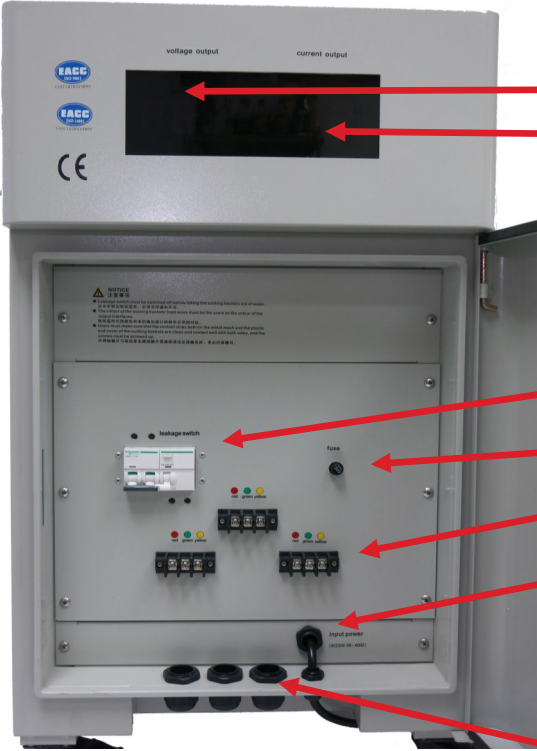
Model	Ionizer Qty.	Power Input	Tower Capacity
MC-500	2 nos.	1,000W	500 RT
MC-700	3 nos.	1,200W	700 RT
MC-1,000	5 nos.	2,200W	1,000 RT

RT : Refrigeration Ton

Safety Instruction

- ※ **Ensure the socket outlet (220V) for connecting the Controller Panel is weather-proof type.**
- ※ **Make sure the power supply is disconnected before cleaning and maintenance of Ionizer.**
- ※ **Turn off the fans for water tower before entering the tower for maintenance of Ionizer.**
- ※ **Turn off the main power when not using the Ionizer for a prolonged period such as cleaning the water tower, repairing equipment and overhaul works etc.**
- ※ **Do not attempt to disassemble or modify the Controller Panel**
- ※ **Contact the supplier for any abnormal operation of Ionizer.**

Parts Identification – Controller Panel



Indicator

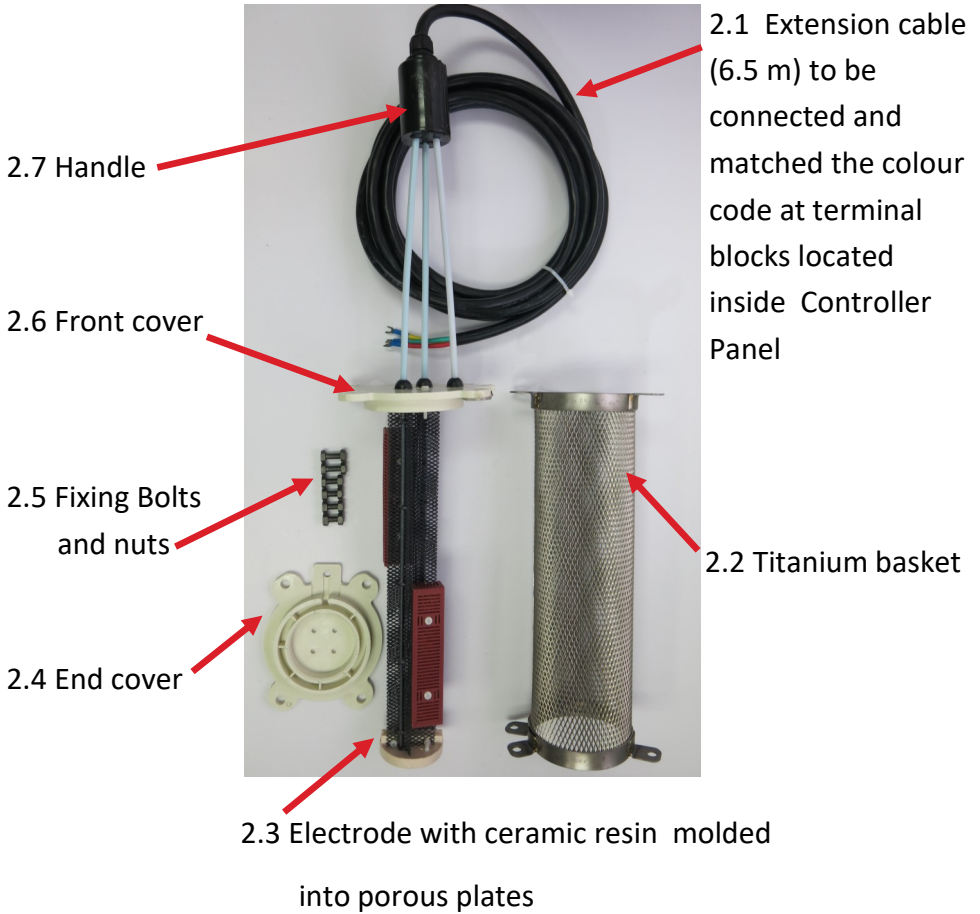
- 1.1 Voltage
- 1.2 Ampere

Controller Panel

- 1.3 Circuit breaker
- 1.4 Fuse
- 1.5 Terminal blocks
- 1.6 Supply cable entry
(220volt, 50/60Hz)
- 1.7 Extension cable entry

Controller Panel

Parts Identification – Ionizer



Ionizer

Installation

❖ Installation work is inclusive

1. Provide weather-proof socket outlet in advance
2. Drill holes dia. 25mm at wall panel complete with rubber grommet. The height is above 300mm above water level. (Fig. 1)
3. Pass the extension cable through rubber grommet to controller panel underneath. (Fig. 2)
4. Connect cables to terminal blocks at controller underneath . Make sure to match colour code. (Fig. 3 & 4)
5. Immerse Ionizer in water at either horizontal or vertical position on condition that water level is higher than the upmost basket surface. (Fig. 5)

Drilled hole
dia. 25mm



Fig. 1



Fig. 2



Fig. 3 & 4

Fig. 5



Operation

1. Ensure the Ionizer basket is completely immersing in water.
2. Switch on the circuit breaker (1.3) at Controller.
3. Observe the Indicator which shows the numbering for Voltage (1.1) and Ampere (1.2) for 15 minutes.
4. If the Indicator shows numbers, the Ionizer is in operation.
[In normal operation, Voltage: 5—50V; Ampere: 3—30A]
5. If the Indicator shows Zero digit at either side or both side such as [067, 000], [000, 067] or [000, 000] , the controller may has fault. Switch off the Controller and inform the supplier for follow up action.

Normal

Fault



Cleaning basket procedures

1. Switch off rotating fans at cooling water tower
2. Switch off main power for Controller Panel



3. Take out the scaled ionizer



4. Wrap Ionizer with plastic bag



5. Beat and brush out the scale at basket



6. Dismantle end cover to pour out scale chips.

7. After assembly, rinse or hose the basket and put it back inside tower.

8. Follow Operation steps

- ◆ Time for cleaning 2 nos. basket: 30 minutes



Notes

<i>Trouble shooting</i>		
Problem	Possible causes	What to do
Indicator showing No signal	No power supply	Ensure the plug is fully plug-in
		Check the panel fuse/circuit breaker and replace the fuse or reset the breaker
		Check and reset main power MCB
Indicator showing zero digit (000)	Controller failure	Contact supplier to check / repair
Indicator showing low ampere (003)	Normal	No action needs on conditions due to: <ul style="list-style-type: none"> — Suspension of chiller / tower — Replenishing fresh water in the circuit due to maintenance / overhaul works

Reminders:

1. The Controller Panel shall better be sheltered or installed underneath the tower whenever possible.
2. A hose with nozzle installed nearby will facilitate the cleaning work.

3. Cleaning scaled basket:

Cleaning of scaled basket should be carried out periodically. Failure to do so may leads to damage of Ionizer. Recommendation:

In summer — Cleaning at every **2-weeks** time (April - Nov., HK)

In winter — Cleaning at every **3-weeks** time (Dec. - March, HK)

Warranty

1. The product has 2 years warranty from the date of purchase
2. Within warranty period, all checking, repair and spare parts costs will be waived for those defects arising from normal use.
3. The warranty shall not apply to product subjected to misuse, alternation, unauthorized testing and repair.

Customer Services

For services or enquiries, please contact Tel: **(852) 3690 1881**

Many thanks for your purchase of our product !

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