
INSTRUCTION MANUAL

IWATA Evaporative Air Cooler



TORNADO iAC-6000/iAC-8000

www.colentco.com

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PREFACE

Thank you for purchasing Iwata evaporative air cooler.

Please read this instruction manual prior to initial use.

Actual product may vary from the images shown in this manual due to continuous product development and may not necessarily affect the performance or reduce its functionality but rather improve it.

Please coordinate with the authorized distributor or installer prior to installing this unit.

A. Warnings & Precautions

1. Use this product under the following conditions to maximize cooling effect:

- ① Environmental Temperature: 18°C-45°C;
- ② Environmental humidity: ≤85%;
- ③ Pressure: 86Kpa-106Kpa
- ④ Water supply should be clean. Water temperature ≤45°C, Water pressure: 0.15-0.6Mpa
- ⑤ Please place the unit on a flat and level surface
- ⑥ **Do not use in a confined/corrosive environment.**

2. Use a voltage stabilizer or regulator if needed. If supplied voltage is too low, it will cause the machine to stop.

3. The controller and its wires should be positioned away from **Electromagnetic interference sources** and try to avoid parallel connection to the power cord or maintain a distance longer than 30CM.

4. Air cooler must be installed in a well ventilated and dry area to ensure that fresh outdoor air will be available and is circulated into the area being cooled

5. Install exhaust fans on the area being cooled and must be away from doors and windows.

6. Do not use this air cooler in confined areas.

7. Drain all water and clean the unit when it is not going to be used for a long time to avoid damaging the cooling pads and its accessories.

8. If the power cord is damaged, have it replaced as soon as possible from the authorized service center.

9. Always unplug the unit and ensure that the power is cut off when installing or maintaining the machine.

10. Do not expose the unit to high temperature or fire.

11. Installation, maintenance and repair of the machine should be carried out by authorized professionals only

12. The equipment is not suitable for use by children, disabled or mentally challenged persons and must be operated and used with proper adult supervision.

13. Please run the air cooler for around 2-5 hours to release the smell from the

newly installed cooling pads.

B. Selection of model

1、 Main body

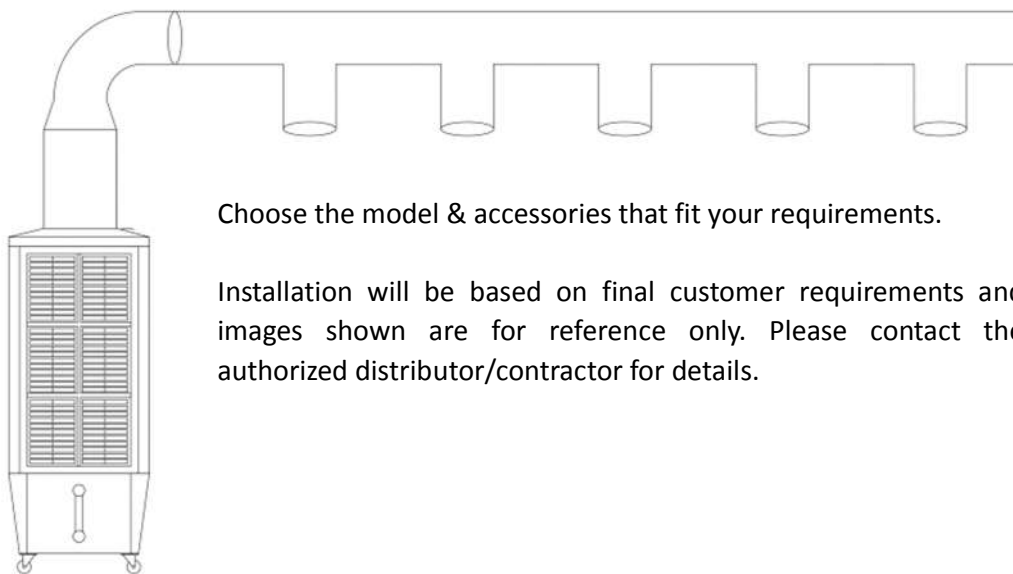


TORNADO iAC-6000



TORNADO iAC-8000

INSTALLATION DIAGRAM



Choose the model & accessories that fit your requirements.

Installation will be based on final customer requirements and images shown are for reference only. Please contact the authorized distributor/contractor for details.

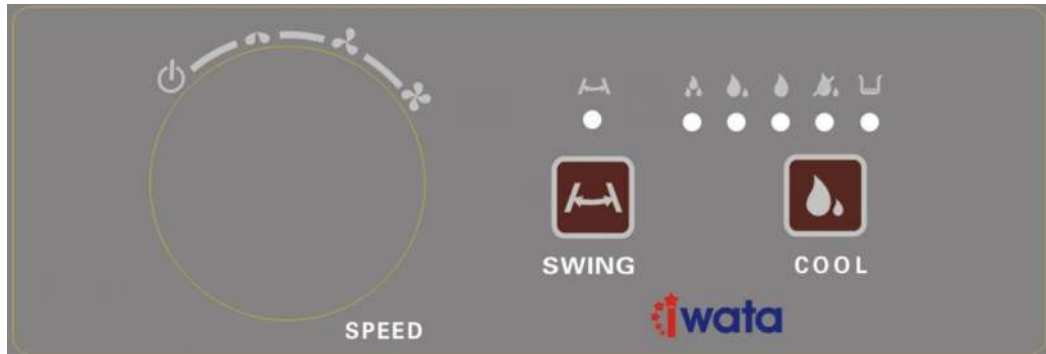
4. PARTS IDENTIFICATION



5. TYPE OF ACCESSORIES AVAILABLE:



C. CONTROL PANEL



- 1、 "SPEED" BUTTON: Adjust the fan speed (Low, Medium, High)
- 2、 "SWING" Button: Control the swing function
- 3、 "COOL" Button: Control the water supply.

D. TECHNICAL PARAMETERS

Model	TORNADO-iAC-6000	TORNADO-iAC-8000
Max airflow	4,500m ³ /h	8,000m ³ /h
Voltage	220V/60HZ	220V/60HZ
Power	400W	950W
Current	2.2A	5.2A
Outlet size	350×330mm	350×330mm
Blower type	Centrifugal-flow type	Centrifugal-flow type
Water consumption	6-8L/h	8-10L/h
Water tank capacity	60L	60L
Overall size	720×720×1100mm	720×720×1200mm
Air out way	TOP BLOWING	TOP BLOWING
Max Application area	50-60 m ²	80-100 m ²

E. PREVENTIVE MAINTENANCE

Filter mesh: Check and clean at least once a month to ensure smooth operation.

- 1、 **Cooling pad cleaning:** remove the cooling pad and wash it under normal water pressure (do not use pressure washer as it can destroy the cooling pad). Cleaning from the inside to the outside and the edge of the cooling pad, do not use any

detergent to avoid damaging it.

3. Drainage Cleaning: Open the drain and empty the contents of the water tank then use a soft cloth to wipe off and excess liquid and dirt. Please remember to also clean any dirt on the water pump and valves.

4.Main body cleaning: When cleaning the outside parts of the machine, please use mild soapy water and a soft cloth. Using a strong detergent may destroy the outside surface parts of the machine.

F.Product Applicaton:

MANUFACTURING:

Mechanical, Ceramic, Metal, Textile industry, Foundry industry, Injection molding industry and etc.

PROCESSING:

Mechanical, Electronic, Printing, Rubber, Food, Tobacco, flowers and etc.

OTHERS:

Staff Dormitory, Office, Schools, Hospital, Waiting Room, Entertainment, Supermarket, Restaurant, Bakery, Kitchen, Golf Course, Living Room, Housekeeping Department, Laboratory, Guesthouses, Car Showrooms. BPO centers and etc.

G. Troubleshooting

Error	Cause	Solution
- No air	-Broken fan blade - Cooling pad or mesh blocked -Fan blocked	-Change blade -Clean cooling pad/mesh -Check fan blade/motor
-Not cooling	-Pump blocked -Pump burned -Loose Water pipe/ Blocked water distributor	-Check water pump -Fasten clamp/ clean water distributor
-Not swinging	-Burned motor -crankshaft and connecting rod fell off	-Replace motor - Reinstall and reset
-Leaking	-Drain cap is loose	- Tighten
-Water splashing from fan blade when in operation	-Water pipe is loose	-Check and re-install pipe

Note: All above details are for reference only. Please contact the distributor at sales_mktg@colentco.com for more details. WWW.COLENTCO.COM