

BRANCH OFFICES

North Region

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Delhi: 62, Okhla Industrial Estate Phase III, New Delhi 110020

Chandigarh: 840, First Floor, PAC Manimajara, UT Chandigarh 160101

Rajasthan: C-176 Road Number 9J, V.K.I. Area Jaipur 302013

Uttar Pradesh: 607, 6th Floor, Ratan Square Marg, Lucknow 226001

Noida: C-130, Sector 63, Noida 201301

East Region

Assam: Nilakshi Talukdar Campus, Opp Vodafone Head Office, NH-37, Katabari, Guwahati 781035

Bihar: 4th Floor, Sai Tower, Beside Hotel Utsav, New Dak Bungalow Road, Patna 800001

Jharkhand: Modi Heights, Phase 1, 4th Floor, Office No 401, Ratu Road, Near Durga Mandir Ranchi 834001

Odisha: Badadhanpur, Puri Bypass Road, Bhubaneswar 751002

West Bengal: 6, Ghore Bibi Lane, Behind Swabhumi, Kolkata 700054

South Region

Telangana: 6-3-1090 C, R K Plazs, 2nd Floor, Raj Bhawan Road, Somajiguda, Hyderabad 500082

Chennai: Heavitree' 2nd Floor, Unit B, No 47, Spur Tank Road, Chetpet, Chennai 600031

Karnataka: SY No 73, Harokyanahalli Dasanapura Hobli, Makali Post Tumkur Main Rd Bangalore 562162

Kerala: Kollamkuzhi Business Square, 5th Floor, NH Bypass, Vyttila, Cochin 682019

West Region

Chhattisgarh: G.D. Warehousing, Opp. Reliance Petrol Pump Ring Road No. 2, Gondwara, Raipur, Chhattisgarh, 493221

Gujarat: Survey No 107 Village Jetalpur, Near Gokulesh Rice Milltaluka Dasroi N.H. 8 Ahmedabad 382426

Madhya Pradesh: Survey No 275 1 1, Kelodhala, SDA Compound, Dewas Naka Indore 452010

Mumbai: 604, 6th Floor, Dev Corpora, Cadbury Junction, Eastern Express Highway, Thane (West), Mumbai 400601

Pune: Gat No 173 Wade Bolhai Road Vill Kesnand Tal Gaveli Dist Pune 412207

Nagpur: Shriyash Heights, Block No 402, 4th Floor, Plot No 95, Lendra West Precinct, Ramdaspath, Nagpur 440010



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Orient Electric Limited

(a CK Birla Group company)

240, Okhla Industrial Estate, Phase III

New Delhi-110020

Orient Helpline no.: 1800 103 7574 (Toll Free)

Email: customer.connect@orientelectric.com

Website: www.orientelectric.com

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USER MANUAL

ORIENT ULTIMO 50, 65 & 88 | DESERT AIR COOLER
CD5003H | CD5006HIT | CD5007H
CD6501H | CD6502HR | CD6503HI
CD6506HIT | CD6507H
CD8803H



Orient Helpline no.:
1800 103 7574 (Toll Free)

ORIENT ULTIMO 50, 65 & 88 | DESERT AIR COOLER

To begin with, thank you for choosing Orient Ultimo. Its aerofan technology guarantees to deliver highest air throw with minimum noise and minimum wastage of water and power.

This unique air cooler is packed with many features which are sure to delight you. Bright colors, superior finish and specially designed PCB/ knobs panel are nothing less than revolutionary. It is available in 50, 65 & 88 litres.

Orient Ultimo is perfect for your living room, bedroom, shops, gyms, restaurants, closed outdoor etc. Basically, wherever you want to stay cool.

Some of the key features#

Fan Blades with Aerofan Technology: Orient Aerofan technology has high angled aerodynamically profiled fan blades for longer air throw and minimum noise.

DenseNest® Honeycomb Pads: Thanks to DenseNest® Technology, Orient Air Coolers have less gap between the cooling flutes, which helps them in retaining more water and leads to better cooling.

Inverter Technology: The new Orient Inverter Air Coolers are equipped with new tech BLDC motors that can operate on a wide voltage range of 180-270V while consuming a very low power of 125 watts. Inverter Air Coolers are immune to voltage fluctuation with 45% reduction in power consumption. The motor is equipped with water protection mechanism thereby increasing the life of coolers.

***Auto cut off:** Motor will shutdown automatically if input voltages is less than 130V and will restart at 145VAC. If input voltages greater than 300VAC motor shutdown automatically and restarts at 275VAC.

***Power Fluctuation:** These models have constant RPM of motor even in fluctuating voltage range of operations i.e. 180-270VAC.

Even Water Distribution System: One of the key features of an Orient Air Cooler is its even water distribution system. This unique water system delivers water to the cooling pads, in no time, which results in faster cooling. But that's not all. You also get maintenance-free operations for months with no hole clogging, and of course, cool air.

Copper Motor: Orient PLUS range model copper motor that feature have high thermal and electrical conductivity making them more efficient.

Auto Fill: The product, when connected to overhead tank maintains the required water level, thanks to float valve fitted in the cooler tank. In other words, you don't have to keep checking the level of the water in the tank. Just sit back and relax.

Water Level Indicator: An easy way to view water level indicator in front panel, allows you to keep a check on the water level in the tank.

Prevents Mosquito Breeding: Orient Air Coolers use a special solution which prevents breeding of mosquitoes so that you have a good night, every night.

Collapsible Louvres: Orient air coolers have uniquely designed louvers that can collapse flat when it is not being used. This prevents dust/insects to enter the air cooler.

Ice Chamber: A compartment where you can pour ice cubes/blocks for quick cooling.

Cord Winder: Get rid of tangled cord forever. This unique feature enables you to keep cords neat and organised at all time.

Drain Plug: Orient Air coolers have drain plug that ensures hassle-free drainage of dirty water, making it simpler for cleaning.

Castor Wheels: Wheels present in Top side EPS. Two wheels with lock have to be fitted on front side and rest wheels have to be fitted at the back side and centre of cooler as applicable.

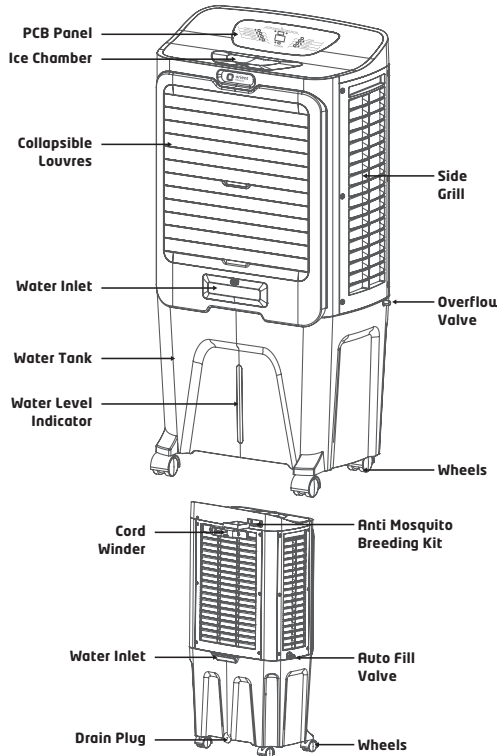
Inverter Compatibility: Orient air coolers have inverter compatible fan and pump motor that ensures uninterrupted cooling during power cuts.

Orient air coolers are designed to have excellent aesthetics and are made of thermoplastic material having excellent finish and corrosion free life. Features may vary from product to product, refer technical specifications table for more clarity.

*Auto cut off and power fluctuation feature only in i-Series models



Know Your Cooler

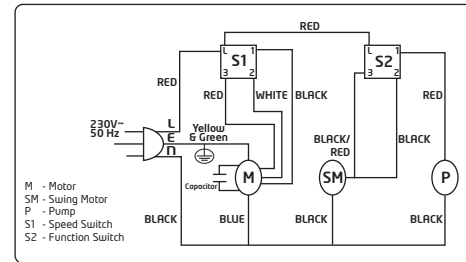


This image is for reference only. Actual product might differ.

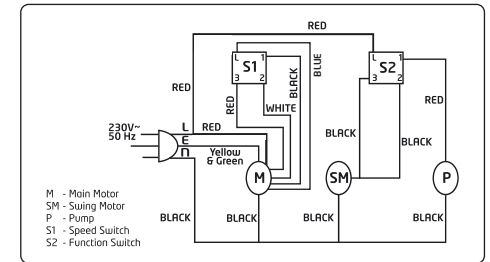
1. The cooler should be placed near the window/door to allow fresh air circulation in your room.
2. **Filling of Water:** Fill the tank of your air cooler with water through auto fill valve. It is advisable to use garden water pipe to ensure no spillage. The auto fill valve ensures that the tank remains full at all times. Warning - the maximum permissible water pressure is 0.25 Mpa (2.5 bar).
3. **Power Supply:** Plug-in the mains cord of your air cooler to the wall socket. Ensure the plug is properly earthed & is in 'OFF' position while plugging. Ensure that your cooler is plugged into specified voltage & frequency outlet. Switch 'ON' the power supply.
4. **Anti Mosquito Breeding Kit:** It is packed inside a pouch and kept in the anti-mosquito breeding kit tray. You can remove the kit from the pouch to use it and place it back in the tray.

Circuit Diagram

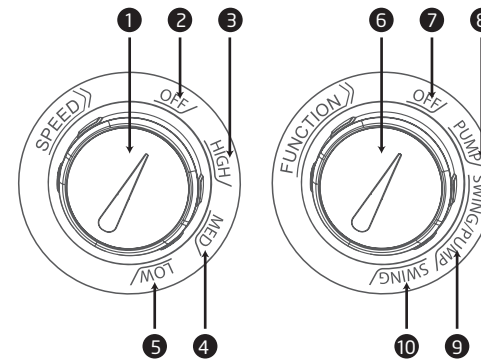
Manual Variant



Inverter Technology Variant

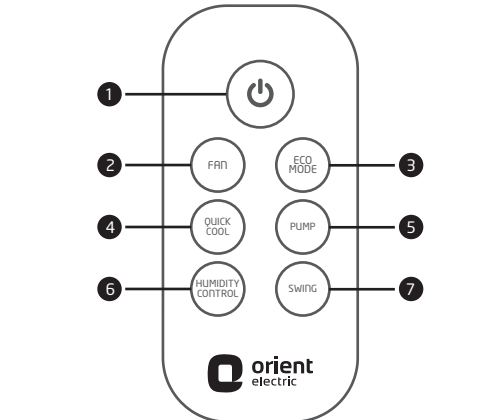


Control Panel Functions



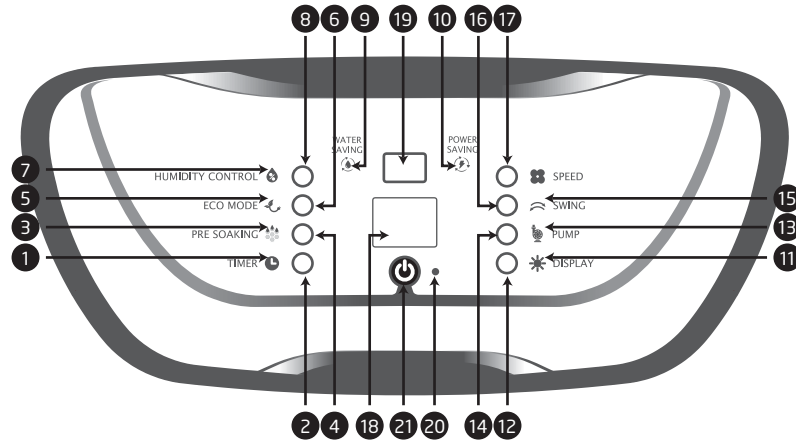
1. **SPEED KNOB:** Rotate the knob to choose different speed function.
2. **OFF:** Rotate the knob to OFF to switch off the fan.
3. **HIGH:** Rotate the knob to HIGH to choose maximum speed of fan.
4. **MED:** Rotate the knob to MED to choose medium speed of fan.
5. **LOW:** Rotate the knob to LOW to choose minimum speed of fan.
6. **FUNCTION KNOB:** Rotate the knob to choose different functions.
7. **OFF:** Rotate the knob to OFF to switch off swing and Pump function.
8. **PUMP:** Rotate the knob to PUMP to switch ON the pump function only.
9. **SWING/PUMP:** Rotate the knob to SWING/PUMP to switch on the pump and swing function together.
10. **SWING:** Rotate the knob to SWING to switch ON the SWING function only.

Remote Functions



1. **Power Button:** To switch ON/OFF the cooler.
2. **Fan Button:** To operate speed function.
3. **Eco Mode Button:** To operate eco mode function.
4. **Quick Cool Button:** To operate cooler in most powerful mode.
5. **Pump Button:** To switch ON/OFF the Pump.
6. **Humidity Control Button:** To operate humidity control function.
7. **Swing Button:** To operate swing function.

PCB & Control Panel Details



- 1. Timer LED** Glows while timer is in operation.
- 2. Timer Button** It regulates the duration for which the cooler will operate. **1st press:** LED will glow red, display will show '1H' and timer set at 1 hour. **2nd press:** LED will glow red, display will show '2H' and timer set at 2 hour. **3rd press:** LED will glow red, display will show '3H' and timer set at 3 hour. **4th press:** LED will glow red, display will show '4H' and timer set at 4 hour. **5th press:** LED will glow red, display will show '5H' and timer set at 5 hour. **6th press:** LED will glow red, display will show '6H' and timer set at 6 hour. **7th press:** LED will glow red, display will show '7H' and timer set at 7 hour. **8th press:** LED will glow red, display will show '8H' and timer set at 8 hour. **9th press:** Timer will be off, LED will be off and display will show fan speed.
- 3. Pre-Soaking LED** Glows when pre-soaking mode is in operation.
- 4. Pre-Soaking Button** In this mode, the cooling pads are first soaked with water so that you can enjoy a uniform cooling experience. Once the cooler will start in 1st stage, pump will work to wet the honeycomb/woodwool, then after 1 min the fan will start.
- 5. Eco Mode LED** Glows while eco mode feature is in operation.
- 6. Eco Mode Button** To switch ON two features water saving and power saving. In this mode, the cooler runs at an optimum speed, consuming an optimum amount of power and water, thereby making the overall operation of the cooler "economical". Since water flow is regulated, there will be a saving in water consumption. The LED at the top part of the cooler indicating water savings should lit up whenever eco-mode button is switched on. Since the fan speed is regulated, there will be a savings in power consumption. The motor will start on high speed in this mode, and then go down subsequently after 2 hours. The LED at the top part of the cooler indicating power savings should lit up whenever eco-mode button is switched on.
- 7. Humidity Control LED** Glows while humidity control feature is in operation.
- 8. Lower Humidity Button** It regulates the output of pump by doing on /off. When the humidity of the room goes up, evaporative cooling reduces the humidity in the air. With the humidity control feature, consumers can regulate the water flow onto the cooling pads, thereby making the room condition less damp. Since water flow is regulated, there will be a savings in water consumption. The LED at the top part of the cooler indicating water savings should lit up whenever humidity control button is switched on.
- 9. Water Saving LED** Glows while water saving feature is in operation.
- 10. Power Saving LED** Glows while power saving feature is in operation.
- 11. Display LED** Glows while display dimmer feature is in operation.
- 12. Display Button** To turn-off the LEDs & display on the PCB of the cooler. Only display LED will glow.
- 13. Pump LED** Glows while pump is in operation.
- 14. Pump Button** To switch ON or OFF the Pump.
- 15. Swing LED** Glows while swing function is ON.
- 16. Swing Button** To switch ON or OFF the Swing Function. You can decide whether to have an automatic swing of the louvres or to keep them stationary.
- 17. Fan Speed Button** To switch over 3 speeds of motor. You decide the fan speed with which the cooler will operate, depending on your comfort level. **1st press:** Fan will be 'OFF'. Display will show 'F0'. **2nd press:** Fan will run on 'LOW' speed. Display will show 'F1'. **3rd press:** Fan will run on 'MED' speed. Display will show 'F2'. **4th press:** Fan will run on 'HIGH' speed. Display will show 'F3'.
- 18. Display** In default mode display will show only fan speed and if you will operate to the timer, it will show the time.
- 19. Sensor Slot** Translucent area for Remote sensor.
- 20. Power LED** Glows red while power is on and cooler is in stand-by mode.
- 21. Power Button** To switch ON or OFF the main Power of cooler.

Technical Specification

Model No.	Model Name	Mode of Operation	CD5003H	CD5007H	CD5006HIT	CD502HR/ CD6503HI	CD6501H	CD6507H	CD6506HIT	CD6507H	CD8803H
			Ultimo 50	Ultimo+ 50 (Copper Motor)	i-Ultimo 50 with Inverter Technology	Ultimo 65	Ultimo 65	Ultimo+ 65 (Copper Motor)	i-Ultimo 65 with Inverter Technology	Ultimo+ 65 (Copper Motor)	Ultimo 88
			Manual	Manual	Manual	Remote / IoT	Manual	Manual	Manual	Manual	Manual
		Cooling Medium	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb	DenseNest® Honeycomb
		Water Tank Capacity (Litres upto brim)	50Ltrs	50Ltrs	50Ltrs	65Ltrs	65Ltrs	65Ltrs	65Ltrs	65Ltrs	88Ltrs
		*Power Consumption (Wattage)	190 W	190 W	125 W	190 W	190 W	190 W	125 W	190 W	190 W
		*Rfr Delivery (Cum./hr)	3650	3650	3400	3650	3650	3650	3400	3650	3650
		*Rfr Throw Distance (Meters)	18.3 m.	18.3 m.	17 m.	18.3 m.	18.3 m.	18.3 m.	17 m.	18.3 m.	18.3 m.
		Rfuto Fill	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Water Level Indicator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Speed Control - 3	H,M,L	H,M,L	H,M,L	H,M,L	H,M,L	H,M,L	H,M,L	H,M,L	H,M,L
		Blower / Fan Type	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch	Fan / 16 inch
		Castor / Trolley	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	4 Castor Wheels	5 Castor Wheels
		Prevents Mosquito Breeding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Anti-bacterial filter	No	No	No	No	No	No	No	No	No
		Dust Filter	No	No	No	No	No	No	No	No	No
		Ice Chamber	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Vertical Louvres Movement	Motorised	Motorised	Motorised	Motorised	Motorised	Motorised	Motorised	Motorised	Motorised
		Horizontal Louvres Movement	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
		Dimensions without Packaging (cm)	L	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
			W	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
		H	112.0	112.0	112.0	121.0	121.0	121.0	121.0	121.0	130.0
		Net Weight (KG)	16.5	16.5	16.5	17.0	17.0	17.0	17.0	17.0	18.0
		Gross Weight (KG)	19.5	19.5	19.5	20.5	20.5	20.5	20.5	20.5	21.5
		Product Warranty #	12 Months	12 Months	12 Months	12 Months	12 Months	12 Months	12 Months	12 Months	12 Months

*All the technical parameters are as per Orient testing standard. Specification of DenseNest® honeycomb may vary from product to product. Estimated area based on 3 mtrs (10ft) ceiling height and all side covered room. As product up gradation is a continuous process, design and specifications are subject to change without prior notice. #Warranty is applicable in India only.

Safety Precautions



- Water and electricity don't like each other. Disconnect mains supply before filling water in the tank.
- Do not fill the water manually into the cooler when it is in operation mode. Like never ever.
- Unless you want a baby swimming pool, do not move the cooler rapidly when the tank is filled with water.
- Always disconnect the electric mains before opening the side and back grills. Else, be grilled.
- Keep the cooler at a safe distance from fire, kerosene or other inflammable materials. You know why.
- Close supervision is required while using the cooler near children. They are children, after all.
- For efficient cooling, ensure the sides of the cooler are away from air blockages.
- Do not cover or block any air inlet or outlet. Else, no cool air. No sound sleep.
- Kindly ensure you have appropriate voltage that matches the specifications required for your cooler model.
- This is very important. Read it twice. Place the cooler on levelled flooring/base.
- This is even more important. Read it thrice. Power supply to the cooler must have proper earthing.
- The product is not to be used by person (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instructions.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.

Care



- When your cooler is not in operation kindly ensure to turn off all the electric switches and water supply.
- Operate the knobs panel gently. The cooler won't function even if only one is missing.
- Do not wipe the cooler with harsh chemical, scrubbing powder or thinner. It will leave a spot on the cooler.
- No matter who tells you - never add bleaching chemicals or other additives into the water tank.
- Before moving or relocating the cooler ensure that the mains cord is unplugged, and the water tank is empty.
- Just like you, this cooler also doesn't like heavy load to be kept on its head.
- Kindly do not cover the air cooler with cloth/plastic cover even if you bought specially for it.

Maintenance



- It is recommended to drain the cooler and clean the cooling pads simultaneously, every month.
- Replace the cooling pads once in two years.
- After the summer season, ensure that the water is drained off completely.
- Clean the DenseNest® honeycomb pads / woodwool using a hose or spray until the dust is removed. This helps in efficient cooling.

Trouble Shooting



S.No	Problem	Cause	Solution
1.	Air cooler fails to operate	<ul style="list-style-type: none"> • The power source is not connected or improperly connected • Indicator may be damaged 	Check for power supply or try plugging the product in a different power socket Get a qualified technician to check the electrical wiring and indicators. If problem persists, visit the nearest Authorised Service Centre.
2.	Electric shock from the air cooler	Any of the internal parts may be defective	Contact the toll-free Orient helpline number for assistance
3.	Cable failure (plug, cut, branding, damaged)	Cable may be defective	Contact the toll-free Orient helpline number for assistance
4.	Air cooler creates abnormal noise	Blower/ fan might be dislocated	Contact the toll-free Orient helpline number for assistance
5.	Pump is not lifting water	<ul style="list-style-type: none"> • Scaling in the tank • Pump inlet choked because of scaling 	Contact the toll-free Orient helpline number for assistance
6.	Smell comes out of the air cooler	<ul style="list-style-type: none"> • Unit has not been used for many days • Unit being used for the first time 	Flush out water equal to twice the capacity of the air cooler

Warranty



Orient Electric limited (the company) warrants to the customer/purchaser of this product for a period 12 months and 24 months for main motor (Only in Inverter models) from date of purchase, the company will repair or replace free of charge any part of the product, should the company be fully satisfied in its sole discretion that the defect/s is/are due to faulty material or defective workmanship only. The warranty will be subject to the following clauses:

1. The warranty is valid only if this card is duly signed and stamped by our authorized dealers and is produced along with the original customer's invoice copy.
2. Warranty starts from the date of purchase from our authorised dealers/retailers only.
3. The company or their authorised service agent /dealer will repair /replace all parts failing due to faulty material or defective workmanship pertaining to the product.
4. Only the Company or their authorised service agents/dealers can service/repair/attend to/ install/reinstall the product.
5. All expenses incurred in collecting the units or parts thereof from the Company's authorised service stations or the dealers of the company as well as expenses incurred in connection with deputation of service personnel/technicians towards to and fro travel conveyance and other incidentals, etc., will be borne by the customer/ purchaser.
6. The warranty extended herein is in lieu of all implied condition and warranties under the law and is confined to the repair or replacement of defective part and does not cover any consequential or resulting liability, damage or loss, whether direct or indirect, arising from such defects. Furthermore, the warranty, in no case shall extend to the payment or any monetary consideration whatsoever for the replacement or return of the product as a whole.
7. This warranty does not cover corrosion, replacement of plastic or glass components which add decorative value to the product.
8. The decision of the company is final and binding on all matters arising out of this warranty.
9. The warranty is issued at Delhi, and the courts at Delhi shall have exclusive jurisdiction over the matters in this warranty.
10. The warranty stands null and void in case the product is struck by a force majeure event, which shall include but not be limited to acts of God, including flood, earthquakes, any other natural calamity, accidents, war, fire, or any act of government or other competent authority.
11. This warranty is applicable in India only.

In addition to the terms and conditions stated above, this warranty is not valid in case of any of the following event:

1. The machine is not used according to the instruction given in the instruction manual.
2. The warranty specifically excludes any problems arising out of mishandling, wilful damage, improper storage of the product/its parts.
3. If the electrical power supply voltages are not within the stipulated norms (Supply Voltage 230V AC - 50Hz).
4. Any repair work/installation carried out by a person other than Orient Electric Authorised Service Centre / Service Agent.
5. Anti Mosquito Breeding Kit is a consumable part and not covered under warranty.
6. Normal wear and tear of the product.
7. Damage due to chipping, peeling, plating, denting.
8. The serial number is deleted, defaced or altered.
9. If the original purchase receipt/ invoice is not available.

(Please retain for your personal record)



Serial No. _____

Product Name and Model No. _____

Name and address of Customer _____

_____ Ph. No. _____

Email id _____

Name and address of Dealer _____

_____ Ph. No. _____

(Stamp here) _____

Bill No. _____ Date of Purchase _____

WARRANTY CARD