

2.0 Product Description	
Product	Air purifier
Brand name	CleanForce
Description	The product covered by this report is air purifier intended for household use only. It cleans the air by means of carbon pre-filter and HEPA filter. It is connected to the power supply through a permanently connected supply cord with polarized plug.
Models	MEGA1000
Model Similarity	NA
Ratings	120V, 60Hz, 88W
Other Ratings	NA

3.0 Product Photographs

Photo 1 - Front view

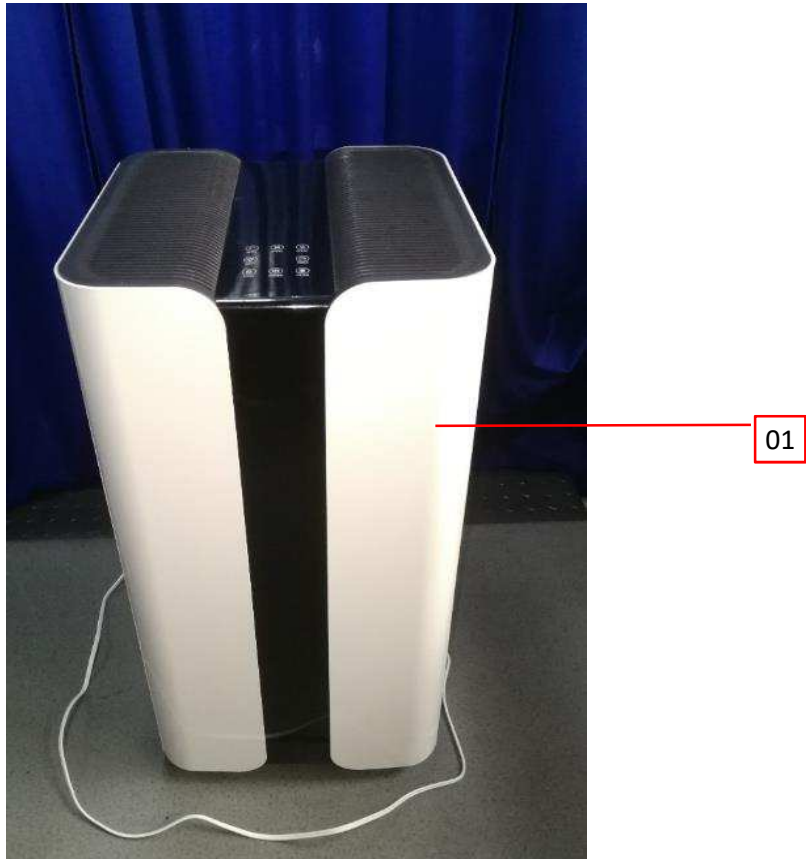


Photo 2 - Rear view

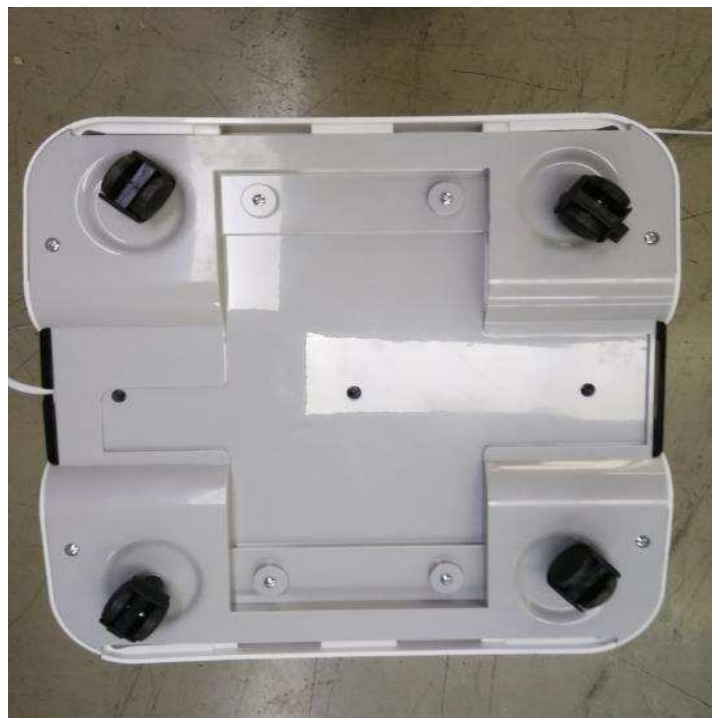


3.0 Product Photographs

Photo 3 - Side view



Photo 4 - Bottom view



3.0 Product Photographs

Photo 5 - Side view



Photo 6 - Side view



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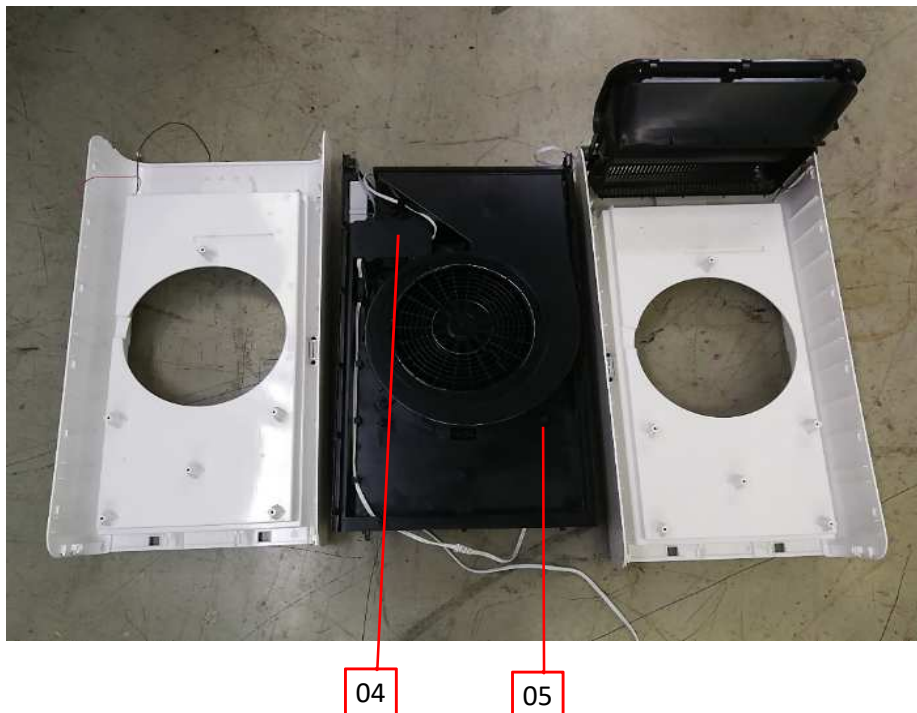
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3.0 Product Photographs

Photo 7 - Cover open and filter removed



Photo 8 - Internal view



3.0 Product Photographs

Photo 9 - PWB

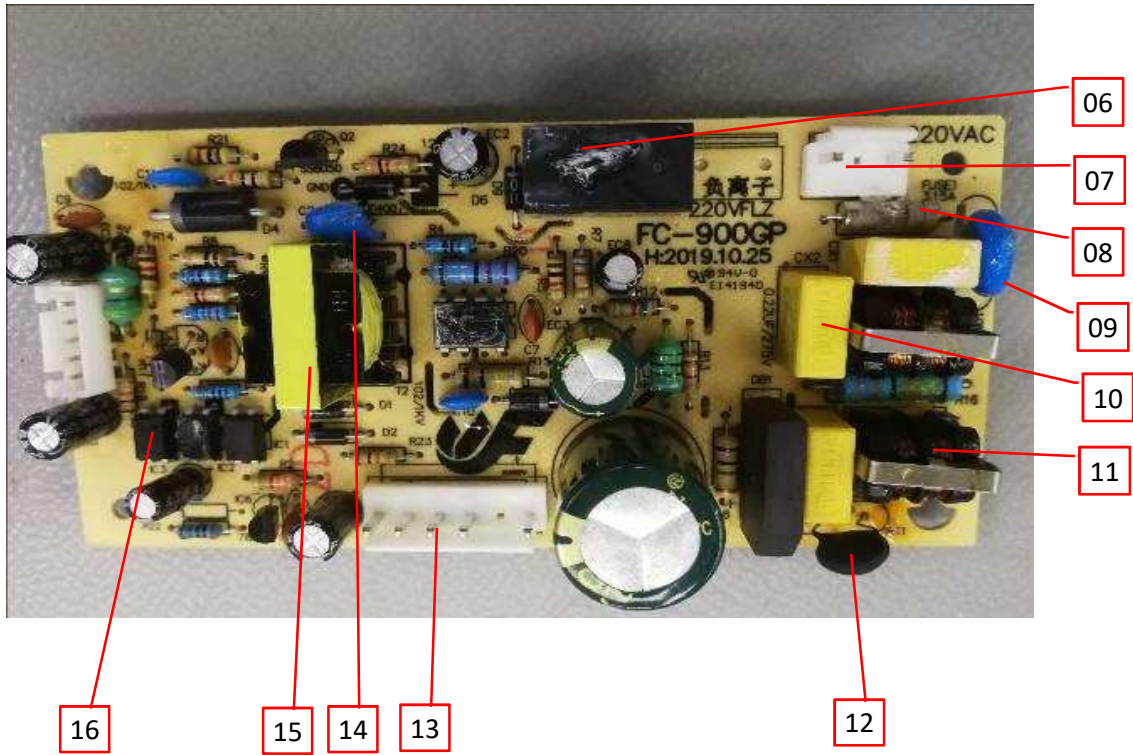
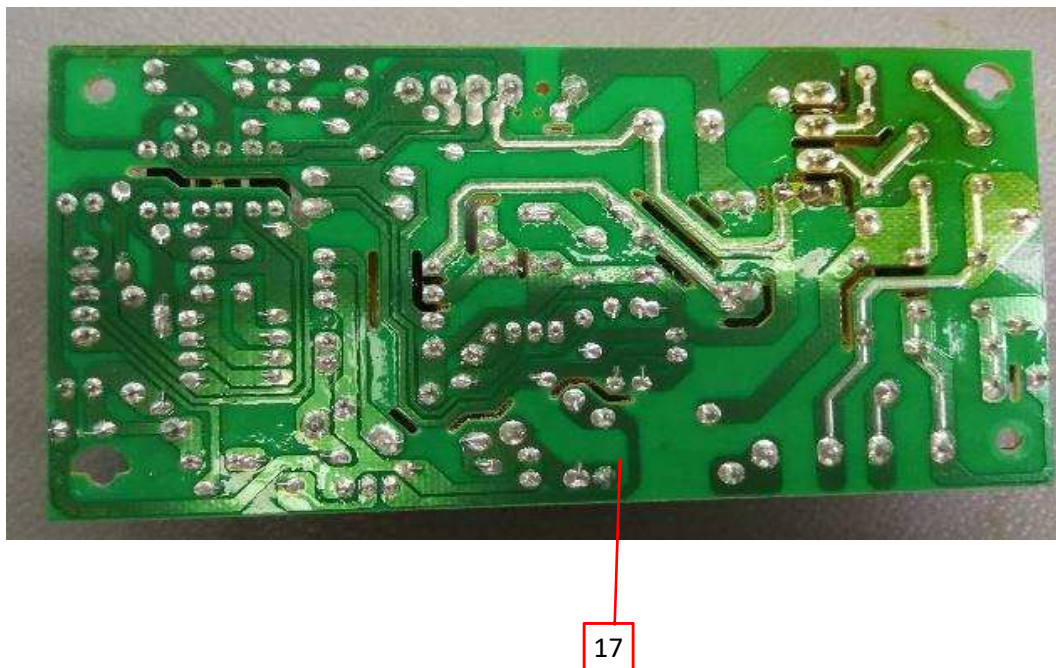


Photo 10 - PWB



3.0 Product Photographs

Photo 11 - Motor

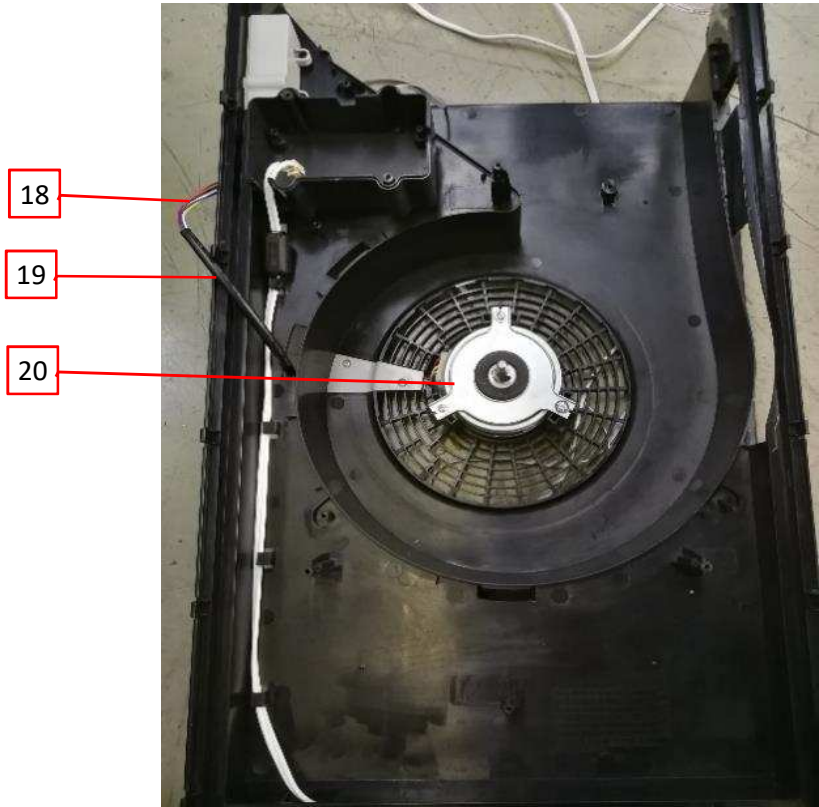
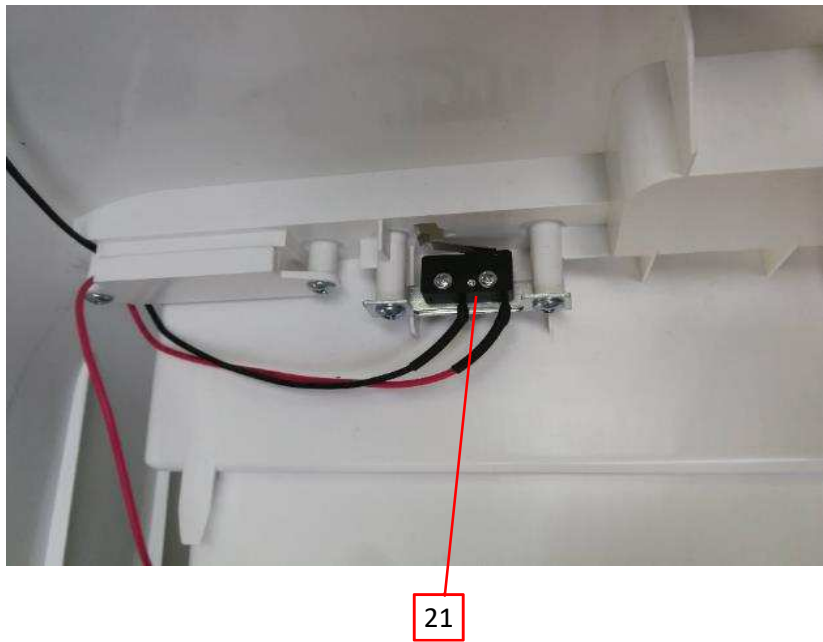


Photo 12 - Interlock switch



5.0 Critical Unlisted CEC Components

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
11	20	Fan motor	ANHUI ONCE-TOP MOTOR TECHNOLOGY CO LTD	OT-PDC-60-8-13

Electrical Rating: DC 150V, 60W Insulation class A

Component Standard used: UL 1004-1:2013 Ed.2+R:07Aug2018; UL 1004-3:2015 Ed.2+R:31Jan2018; CSA C22.2#100:2014 Ed.7+U1; C22.2#77:2014 Ed.8+E1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Stator	CHANGZHOU TIANYUAN PRECISION TOOLING & STAMPING CO LTD	87series	87*22mm
Rotor	ONCETOP	87series	50.9/22mm
Slot liners	JIANGYIN LONGSHAN SYNTHETIC MATERIAL CO LTD	PBT 5302 G00	PBT, V-0, HWI 3, HAI 0, RTI 75, min. thk.: 3.0mm. E186809
Winding	WUHU COPPER CROWN ELECTRICIAN LTD	QA-x/155	155°C. E326270
Lead	XINGDA ELECTRONICS WIRE & CABLE CO LTD	1430	300V, 22AWG, 80°C, VW-1. E187208
	LINOYA ELECTRONIC TECHNOLOGY CO LTD	1430	600V, 22AWG, 150°C, VW-1. E315619
PWB	KINGBOARD LAMINATES HOLDINGS LTD (E123995)	KB-6160, KB-6160C	V-0, 130°C, min. thk.: 1.6mm. E123995

WINDING(S) RESISTANCE

Winding Designation	Wire Size (mm)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Any two terminals between U, V or W	0.35	QA-x/155	320	/	/	30

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1
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Test Name	Test Parameters
Winding resistance	See resistance per winding above.
Dielectric Strength	Apply voltage Between
	Winding to core
	Test Voltage
	Test Time
	1000V
	60s

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.


Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 3.2 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it is not required to be grounded since the product is a portable appliance rated 120V.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 22 AWG, with a minimum rating of 300V, 105°C.
8. Schematics - N/A
9. Markings - The product is marked on a labeling system as described in item No. 21 of Section 4.0 as follows: applicant's name, brand name, model number, date of manufacturer, electrical ratings. Refer to Illustration No. 1 for details.
10. Cautionary Markings - NA
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No. 2, 2a and 2b for details. Only representative pages are pasted.

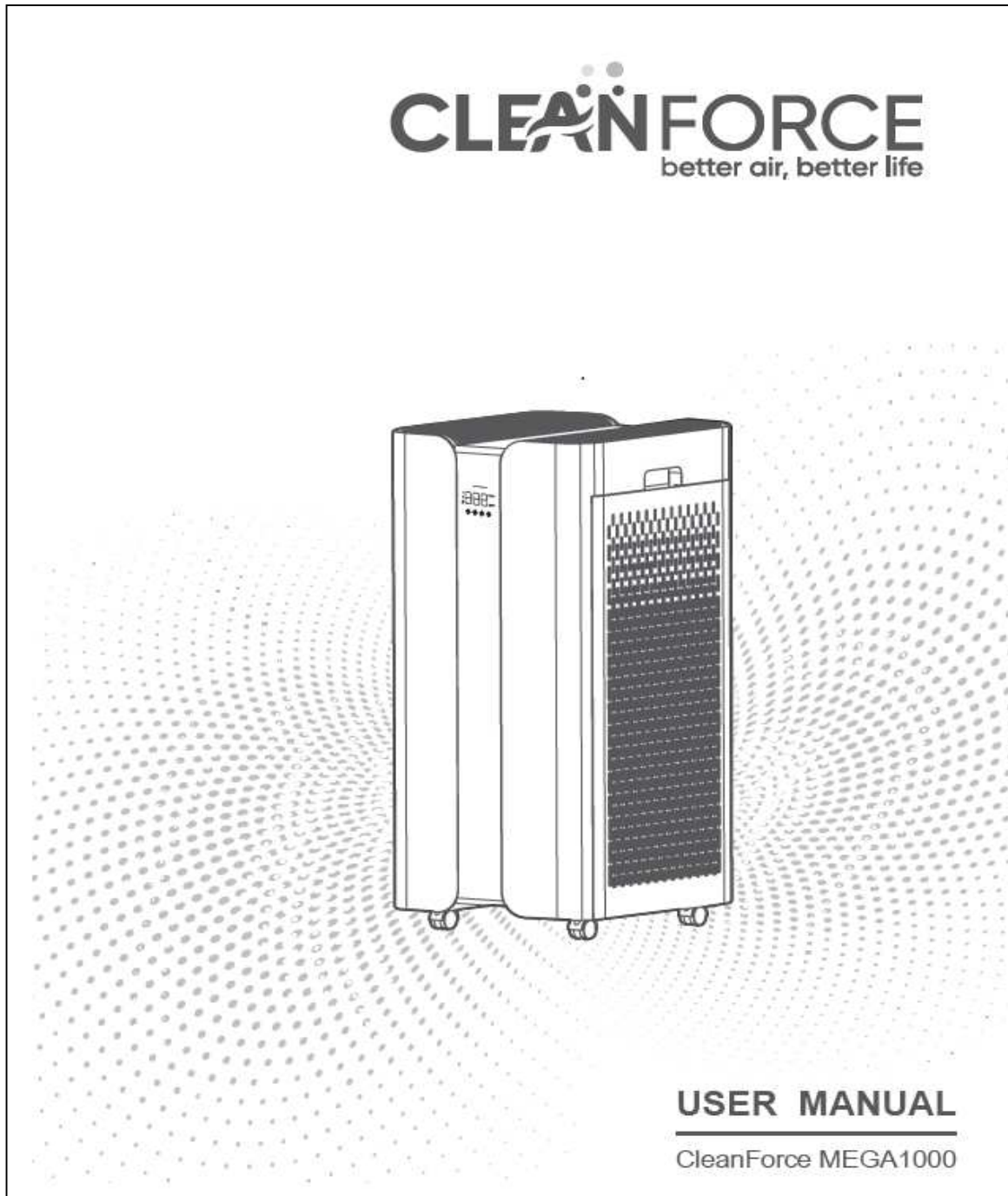
7.0 Illustrations

Illustration 1 - Markings

PRODUCT SPECIFICATION	
Product	Air Purifier
Brand	CleanForce
Model	MEGA1000
Rated input	120V~ 60Hz
Rated power	88W
Serial number	CF-LK-202007001
	
Intertek 5017811 Conforms to UL Std. 507 Cert. to CSA Std. C22.2 No. 113	

7.0 Illustrations

Illustration 2 - Manual



7.0 Illustrations

Illustration 2a - Manual

■ Important Safety Instructions

Read all instructions before using this air purifier to reduce any risk of fire, electric shock, or injury. To ensure safety, store these instructions for future use and make them accessible to other users. Make sure to include these instructions when handing over the air purifier to third parties.

- This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to defeat this safety feature.
- This air purifier is intended for household and commercial use, not for industrial use. Do not use this air purifier as sole protection against harmful pollutants.
- Do not use this air purifier if you have restricted physical, sensory or mental skills, or a lack of experience or knowledge, unless supervised or instructed by a person who is familiar with the device. Children should not touch or operate the device and should be supervised, at all times, when the purifier is in use.
- Do not use the air purifier in an area with toxic/explosive vapors/ liquids, oxygen tanks or near flammable, combustible materials (lighter fluid, petrol, kerosene, chlorine, bleach, and ammonia drain cleaner, etc).
- Do not use the air purifier if it has been dropped, damaged or left outdoors.
- Place purifier in a location whereby air can circulate freely in, out and around the unit. Do not block the air inlets which are located on both sides of the air purifier, they may cause electric shock or damage to the air purifier.
- The minimum acceptable distance between the unit and another object is 4 inches(11cm)
- Ensure the air purifier is positioned on a flat, stable, solid surface. Completely unravel the power cord prior to use. Never overstretch the power cord. Do not place air purifiers near sources of heat such as stove tops, ovens, radiators or computers.

7.0 Illustrations

Illustration 2b - Manual

- Do not place the air purifier near wet areas, including bathrooms and laundries.
- To ensure safety with the power cord. Power cord should not run under rugs, runners or carpets as it can be a trip hazard. Don't pull, carry or trap the power cord under doors or sharp edges. Do not unplug the air purifier by pulling on the power cord.
- Don't handle the plug or air purifier with wet hands.
- Don't use the air purifier with incorrect voltage as this may result in damage or injury to the user. The correct voltage is listed on the rating label.
- Purifier must not be used without all filters in place.
- Inspect the air purifier regularly and remove any dust/dirt build-up as this may affect the airflow.
- Before disconnecting or connecting the power cord ensure all controls on the unit are switched off.
- Always switch off and unplug the air purifier before performing maintenance or troubleshooting checks.
- Always unplug the power cord before adding or removing parts and before cleaning.
- Don't use the air purifier if the power cord or plug is damaged. Please contact our Customer Service.
- Do not place any objects on the air purifier.
- Only specialist personnel may perform repairs on electrical devices. Improper repairs may subject users to considerable danger. In the case of repairs, please contact our customer service.

7.0 Illustrations

Illustration 2b - Manual

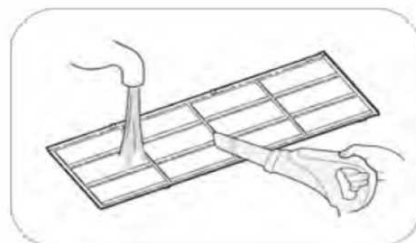
Care and Maintenance

In order for your air purifier to operate at optimum capacity, please follow the steps below for regular maintenance



- Covers(Air Inlet)

Remove the covers on both sides of the machine, clean the cover regularly with water or vacuum cleaner.



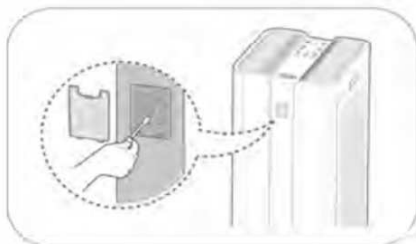
- Pre-filter

Clean the plastic pre-filter regularly with water or vacuum cleaner.



- Fan


Regularly clean the fan port with a vacuum cleaner. Do not wash with water or dismantle the fan.



- Sensor

Remove the sensor cover and wipe the sensor surface regularly with a dry cotton rod.

Change the Multi-Integrated Filters every 6 months, depending on the operating conditions. Occasionally wipe the surface of the air purifier with a dry cloth.

8.0 Test Summary			
Evaluation Period	2020-05-15 to 2020-06-23		Project No. 200501897SHA
Sample Rec. Date	7-May-2020	Condition Prototype	Sample ID. 0200507-02
Test Location	Building No. 86, 1198 Qinzhou Road (North), Shanghai 200233, P. R. China		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 507:2017 Ed.10+R:27May2020 Clause	CSA C22.2#113:2018 Ed.11 Clause	
Leakage Current Test	41	6.8	
Starting Current Test	44	6.10	
Input Test	45	6.3	
Temperature Test	46	6.4	
Dielectric Voltage Withstand Test	47	6.5	
Locked Rotor Test	50	6.11	
Humidity Conditioning Test	53	6.30	
Strain Relief Test	54	6.9	
Push Back Relief Test	57	6.28	
Impact Test on Guards	61	6.24	
Static Force Test on Guards	62	6.25	
Impeller Test for Portable Fans	63	6.26	
Impeller Ignition Test	64	/	
Component Breakdown Test	65	6.12	
Stability Test	72	6.14	
Abnormal temperature	/	6.11	
Impact test (enclosures)	/	6.29	
Test Description	UL 1004-1:2013 Ed.2+R:07Aug2018; UL 1004-3:2015 Ed.2+R:31Jan2018 Clause	CSA C22.2#100:2014 Ed.7+U1; CSA C22.2#77:2014 Ed.8+E1 Clause	
Locked Rotor Temperature Test	8	6.4.5	
Locked Rotor Endurance Test	9	6.6.4	
Dielectric Voltage-Withstand Test	37	6.5	
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Frederic Yang	Reviewed by:	Jack Tang
Title:	Certification Engineer	Title:	Technical Supervisor
Signature:		Signature:	