

VK401 AIR PURIFIER



USER MANUAL SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



Dear Customer

Thank you for purchasing the VK 401 Air Purifier, this is clean air technology at its best. This product is packed with power and technology to provide fast and efficient clean air. We hope that you enjoy using your new unit!

The Viruskiller technology was tested against the following major airborne viruses: Poliovirus, Influenza Virus, Adenovirus and Coronavirus DF2 by the Institute of Medical Sciences, School of Medicine National Kangwon University. Testing proves a near 100% reduction for these viruses. The results for these airborne pathogens are the same for all of the Viruskiller range.

Radic8's Viruskiller range (Hextio, VK 401, VK 102 and VK 103) is not FDA-cleared / FDA-approved.

READ ALL INSTRUCTIONS BEFORE USING YOUR VK 401

When using your VK 401, basic safety precautions should be observed, including the following:



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY

- Use the unit only for its intended use.
- To protect against a risk of electric shock, do not immerse any part of the system in water or in any other liquids.
- This appliance is NOT a toy.
- This appliance is NOT to be used by children or persons with reduced physical, sensory or mental capabilities.
- Children should be supervised at all times.
- Never look directly at a burning ultra-violet light, as this may permanently damage your eyes.
- To reduce the risk of an electric shock or damage to the unit, switch the off and unplug before cleaning or performing any maintenance to the unit.
- Heed all warnings
- There are no UV risks associated with the devices in use. The UV reactor chambers and fans are sealed to ensure there is no risk of harm and UV exposure. Indoor air quality sensors on the devices also highlight when the filters on units need to be cleaned and replaced.

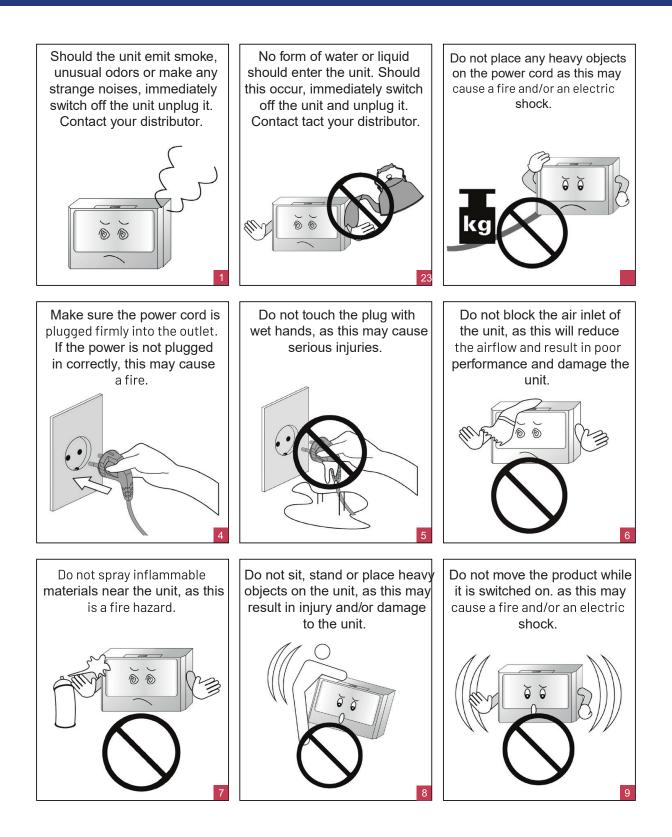


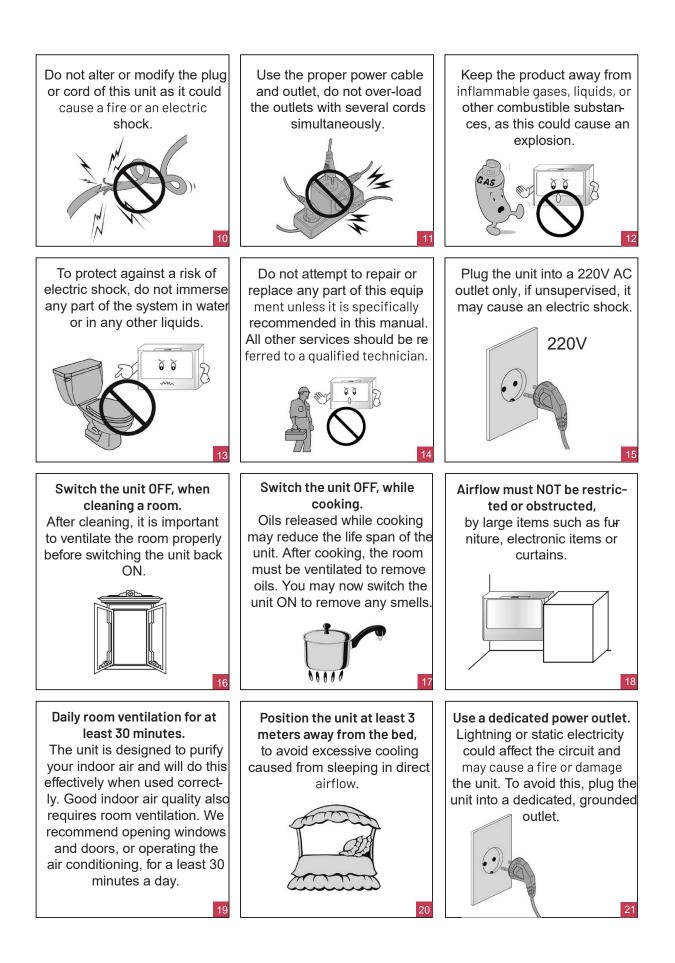
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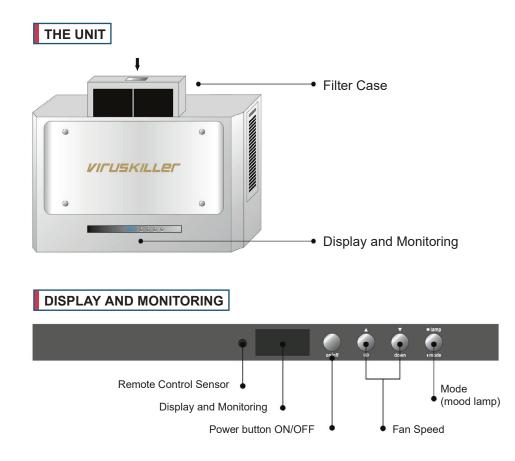
INSTALLATION SAFETY





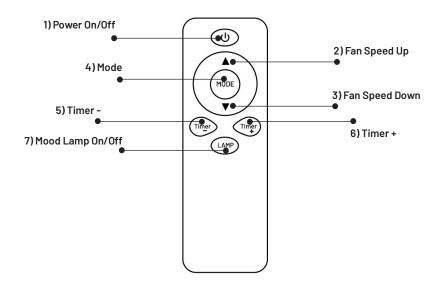


KEY PARTS AND COMPONENTS



Name	Function	
Remote Control Sensor	Point your remote control at the sensor in order to use your remote operate the unit.	
Display and Monitoring	Changes the information displayed on the LED in the following order: UV Lamp Time, Current Temp, Fan Speed.	
Power button ON/OFF	To switch the unit ON/Off. You will hear a beep sound.	
Fan Speed	Hold the "Up" button down to increase the fan speed. Hold the "down" button to decrease the speed. Fan speeds: FAN 1 (Quiet), FAN 2 (Normal), FAN 3 (High Speed).	
Mode (Mood Lamp)	Hold the "lamp" button down for a few seconds in order to switch the LED lights ON/OFF.	

REMOTE CONTROL

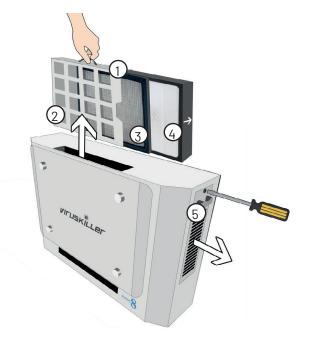


No.	Name	Function	
1.	Power On/Off	To switch the unit ON/Off. You will hear a beep sound.	
2.	Fan Speed Up	Increases the fan speed. Fan speeds: FAN 1 (Quiet), FAN 2 (Normal), FAN 3 (High Speed)	
3.	Mode	Decreases the fan speed.	
4.	Fan Speed Down	Changes the information displayed on the LED in the following order: UV Lamp Time, Current Temp, Fan Speed	
5.	Timer -	Sets a working time for the unit. The unit will stop after the specified time has passed.	
6.	Timer +	Sets a working time for the unit. The unit will stop after the specified time has passed.	
7.	Mood Lamp On/Off	Used to switch the blue LED Lamp ON/OFF on the unit.	



CLEANING AND MAINTENANCE

CLEANING THE PRE-FILTER



Ensure that the unit is switched OFF and unplugged. We recommend you check the pre-filter regularly and clean it on a weekly basis. The plastic pre-filter is reusable, to clean it follow the procedure below:

- Open the handle at the top of the unit ①. Gently slide the filter case out of the top of the unit ②.
- Slide out and separate the pre-filter ③ from the HEPA filter ④ . Ensure you have removed the HEPA filter before washing the pre-filter.
- Clean the pre-filter by using a vacuum cleaner. Cleaning with warm water is also possible, however allow the filter to dry completely before reinstalling.

You can now put the filters back into the case and place this back into your VK 401. Make sure that the carbon part of the filter is facing the back on the unit. Close the filter handle, and the unit can be switched back on.

REPLACING THE SIDE CARBON FILTERS

Ensure that the unit is switched OFF and unplugged, unscrew and open the side filter door (5) and replace the carbon filter inside, then close the door, reinsert the screw and tighten.

The HEPA and Carbon filters are not reusable and should be replaced. Please contact your distributor to purchase replacement HEPA and Carbon filters. Depending on the levels of pollution, the lifetime of the HEPA filter may be longer or shorter than the recommended use times below:

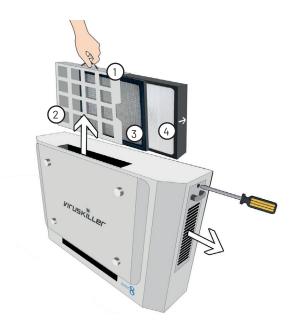


REPLACING THE HEPA FILTER



The HEPA filter is not reusable and must be changed after 2000 hours of use. The display panel will indicate a "FILt" warning. In order to change the HEPA filter refer to Figure 1, and follow the instructions below:

- 1. Open the handle at the top of the unit ①. Gently slide the filter case out of the top of the unit ②.
- 2. Slide out and separate the pre-filter 3 from the HEPA filter 4
- 3. Safely dispose of the old filter by placing it in a bag and sealing it.
- 4. Replace with the new HEPA filter
- 5. Place the filters back into the unit. Close the handle, and the unit can be switched back on.
- 6. Press and hold the "up" switch on the unit for 14 seconds, to reset the filter warning timer. Now your unit is ready for the next 2000 hrs.

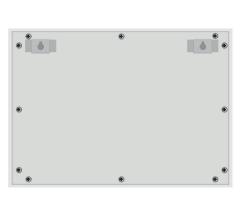


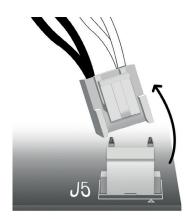


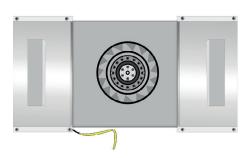
REPLACING THE REACTOR CHAMBERS

In order for the VK 401 to remain functional the reactor chambers must be replaced every 8000 hrs. Your unit will indicate that a change is required, "-001" displayed on the LCD.

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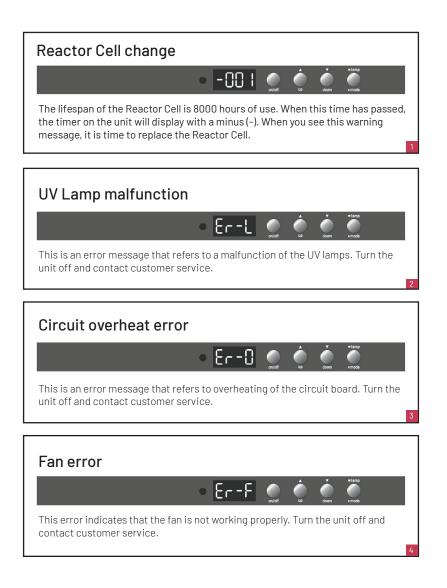






- 1. Switch off, and unplug the unit.
- 2. Remove the 12 screws at the back of the unit.
- 3. Place the unit on its back, and carefully lift open the front of the unit. (make sure no wires are disconnected when lifting the front cover)
- 4. Remove the black and white cable linked to the reactor chambers. (marked J5 on the PCB)
- 5. Remove the 4 corner screws out of both the chamber mountings, being careful to ensure that the earth wire (yellow) closest to the switchboard is detached and remains intact.
- 6. Remove the old reactor chambers and replace with the new chambers which are already linked together, then return the 4 screws to the corners of each chamber, ensuring that the earth wire is reconnected to the screw closest to the circuit board, and then connect the new reactor cable to the circuit board.
- 7. Close the unit carefully making sure that no wires are trapped or damaged, return the 12 screws to the back of the unit.
- 8. Now switch your VK 401 back on, press and hold the down button for 14 seconds, to reset the warning timer. Now your VK 401 is ready for the next 8000 hours.

ERROR MESSAGES



TROUBLESHOOTING

Before you call for service, review this list. It may save you time and expense. This list includes common occurrences that are not the result of defect in workmanship or materials.

Problem	Possible cause	Solution
The product will not turn on	 The plug is not properly insert¬ed in the grounded outlet. The remote control is out of battery power The voltage of the AC outlet is too low 	 Plug the device into a working grounded outlet. Replace the batteries according to the polarity. Make sure you plug the unit into its dedi¬cated, grounded 220 AC outlet.
Weak airflow and noise from the product.	The pre-filter has accumulated too much dust.	Clean the pre-filter to avoid this problem Also change the HEPA filter when due.
The timer preset does not work.	The timer function has not been activated.	Set the timer, according to the instruc¬tions in this manual.
The air purifying function does not work properly.	 The indoor air is heavily contaminated The pre filter is blocked The HEPA filter is blocked The room is too large for the unit The airflow is restricted 	 The room requires ventilation. Clean the pre filter. Replace the HEPA filter. Select the right Viruskiller according to the room size. Make sure there is enough clearance around the product and that the air inlet and outlet of the unit are unobstructed.
Strange smell is emitted from the device.	 New product odor Moist filters The product has been used in environments with a high con¬centration of food odours. The product has been used in environments with a high concentration of smoke. 	 The coating of the reactor cell might re¬lease a small amount of harmless odor. It should disappear in one to two weeks. When cleaning the pre-filter with water, make sure it is completely dry before reinstalling. Food odors are oily and can penetrate into the filter or the reactor chamber. Use proper ventilation. In areas emitting too much smoke, the performance of the reactor cell may be affected. Use proper ventilation.

CUSTOMER SERVICES

distributor if you encounter issues with your unit or to procure replacement filters or reactor chamber when these reach their end of life.

Damage or malfunction caused by negligence, abuse, unauthorized repairs or use not in accordance with the User Guide will not be covered. All warranties are rendered void and the cost of repair will be payable by the user in the case of damages caused by:

• putting in foreign objects (such as water, liquids, fragrance oils, toys etc.) in or out of the unit;



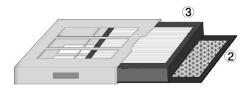
- transportation or handling;
- use of products such as benzene or thinners;
- incorrect power supply or output voltage;
- breakdown or loss of part caused by unauthorized disassembling or modifications;
- repair or replacement undertaken by unauthorized persons;
- non-adherence to the instructions provided in this user guide, and as given by the local customer service center;
- careless or improper use;
- caused by operating the product in a corrosive or moist environment.

SPECIFICATIONS

The company reserves the right to make changes to the design and specifications of the product without prior notice.

Description	Air Purifier
Brand	VIRUSKILLER
Model No	VK 401
Max. Elec. Consumption	140 watt
Net Weight	12.9 Kg 28 Lbs
Net Dimensions	365 H x 170 D x 590 W mm 14.4 H x 6.7 D x 23.2 W in
Noise (dB)	46-54
Airflow (CFM)	70 – 141
UVC Lamps	8
TiO2 Hexagon Filters	~30
Power cord length	1.2 m 4 ft







To replace a fluorescent tube:

- 1. Disconnect the cabinet from the mains power supply.
- 2. Remove the sign panel by starting at one of the top corners and pulling the sign panel out from under the sign top cover (see Figure 7 below).
- 3. The fluorescent tube can now be removed. Revolve the tube until the pin position allows withdrawal (see Figure 8 below).
- 4. When refitting the sign panel, ensure the panel engages into the sign top along the full length of the sign unit and both the sign end strips fit neatly into the top and bottom corner notches.

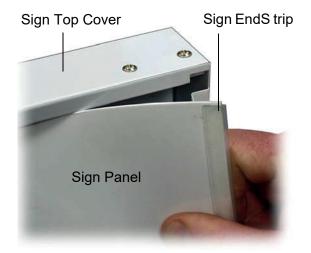


Figure 7: Removing Sign Panel

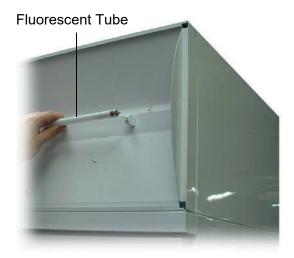


Figure 8: Replacing the Fluorescent Tube



Cabinet Interior Light

The cabinet interior side light is fitted with one 35Watt T5 fluorescent tube (Ø16mm x 1450mm, Daylight 840), which may be replaced without removing shelves or product from the cabinet. To replace the fluorescent tube:

- 1. Disconnect the cabinet from the mains power supply.
- 2. Remove the side light diffuser, by compressing the back section of the diffuser until it disengages from the aluminium housing and then push the diffuser back (see Figure 9 below).
- 3. The fluorescent tube can now be removed. Revolve the tube until the pin position allows withdrawal.
- 4. When refitting the new fluorescent tube ensure the printing on the tube is at the bottom, as the tube orientation is important. The replacement tube must be of the same wattage and colour rendering as the original.
- 5. When refitting the diffuser, engage the back section into the housing and then compress and snap the front section of the diffuser into place, working down the full length of the housing.

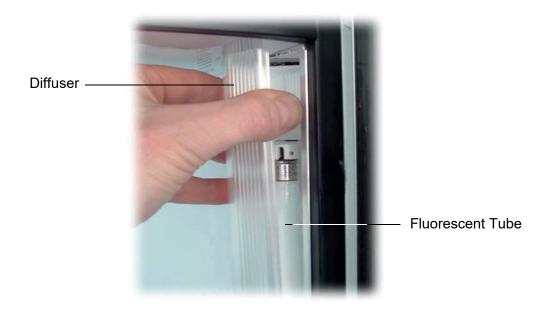


Figure 9: Cabinet Interior Light

