

NIKKEN®



KenkoAir™
Purifier :::::●●●●



OPERATING MANUAL

PRODUCT INTRODUCTION

Congratulations on your purchase of a Nikken KenkoAir Purifier™ indoor air system. The KenkoAir Purifier combines a multiple-stage air filter with negative-ion generation and effectively ozone-free operation.

The KenkoAir Purifier features an ultra low penetration air filter. ULPA technology is a breakthrough in air filtration — significantly more effective than a HEPA filter, the longtime standard for hospital operating rooms, microassembly clean rooms and nuclear laboratories. HEPA filtration is rated at 99.97% efficiency on particle sizes as small as 0.3 microns. The new ULPA technology in the KenkoAir provides 99.9995% removal of particles as small as 0.12 microns. No other air filtration system matches this level of performance.

The ULPA component is the end stage in a filtration process that incorporates a prefilter, carbon deodorizing filter, mold/dust-reducing filter (ULPA) and a highly-efficient fan, to deliver indoor air that is certified by independent testing laboratories to reduce:

- solid particulate matter, including dust
- pollen, pet dander, mold spores and other allergens
- smoke and dust mites

In addition, the KenkoAir Purifier includes clean ion generation, another proprietary technology. Only Nikken has clean ion generation, which produces negative ions (to create a refreshing, invigorating atmosphere) without emitting harmful ozone.

The Nikken KenkoAir Purifier offers all these features in one product. Now you can start enjoying the air in your home with every breath, every day.



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GLOSSARY

Allergen — A substance that can cause an allergy, specifically a non-parasitic antigen capable of stimulating a hypersensitivity reaction.

HEPA – High efficiency particulate air, a type of filter technology. This filter is designed to trap particles as small as 0.3 microns in size.

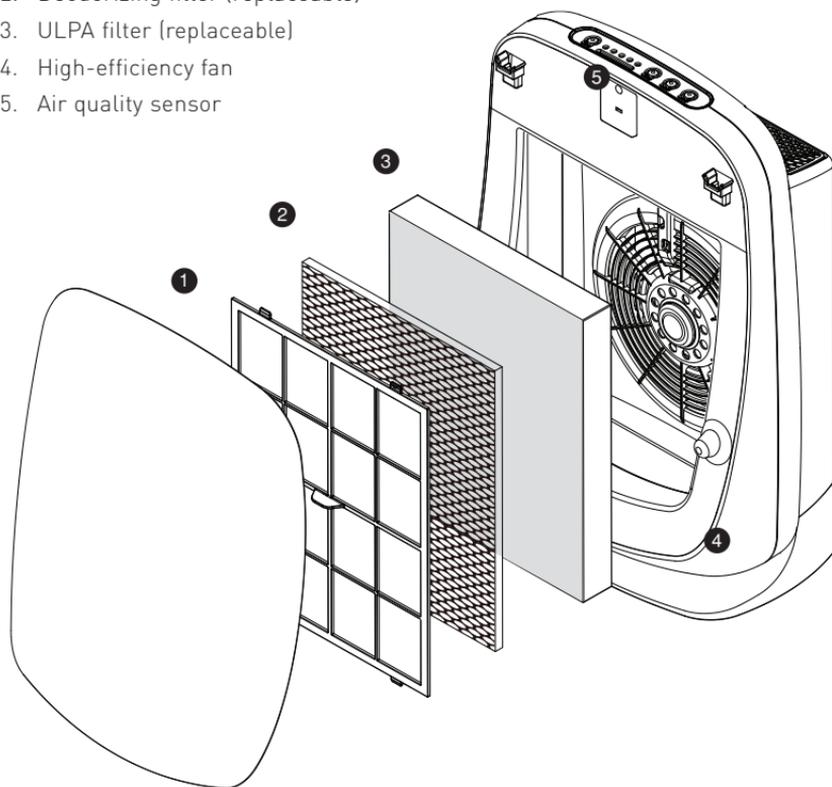
Negative ion – An electrically-charged particle, often found in the air surrounding forests and waterfalls.

ULPA – Ultra low penetration air, a type of filter technology. This filter is defined by its efficiency, calculated as 99.999% at minimum.

DESCRIPTION OF DEVICE

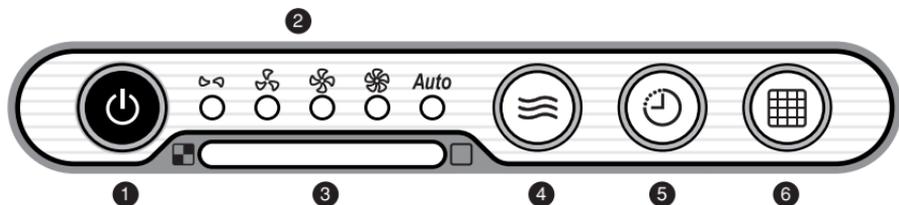
Components

1. Prefilter (reusable)
2. Deodorizing filter (replaceable)
3. ULPA filter (replaceable)
4. High-efficiency fan
5. Air quality sensor



Control Panel

1. **Power on/off** — Activates unit.
2. **Fan speed indicator** — Also specifies if unit is operating in manual or automatic mode.
3. **Air quality indicator** — Shows the level of airborne contaminants, from low (blue) to high (red).
4. **Fan speed button** — Press to cycle from low speed to medium, high, turbo and auto.
5. **Timer button** — Allows the unit to operate for a set period (three hours) and then shut off automatically.
6. **Filter life indicator** — Shows when filter elements require replacing.



Product Specifications

Model: Nikken® KenkoAir Purifier™

Electric power: 120 volts AC, 60 hertz

Power consumption: 55 watts

Weight: 13.9 lb/6.3 kg

Dimensions:

Width 14.8 inches/37.5 cm

Height 22.2 inches/57.5 cm

Depth 10 inches/25.5 cm

Safety device: Automatic shutoff when panel is opened

Area coverage: 313 sq. ft./29 sq. m.

WARNING AND PRECAUTIONS

IMPORTANT: Make sure you read all safety information before using this product. Follow all directions for safety.

READ AND SAVE THESE SAFETY INSTRUCTIONS BEFORE USING THIS PRODUCT.

When using electronic appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read all instructions before operating the KenkoAir Purifier™.
2. Inspect filters before first use. Remove from packaging and replace filters in the correct sequence. See page 4.
3. Locate the unit in a place where it will not be knocked over or struck by persons, pets, furniture or doors.
4. The unit must be placed in an upright position.
5. Never place the unit in direct sunlight or near powerful lighting equipment.
6. Always turn the unit off and unplug it from the wall when not in use for a long period of time.
7. To unplug the KenkoAir Purifier, first turn the power off. Grasp the plug and pull it from the wall outlet. Never unplug the unit by pulling on the cord.
8. Do not operate the unit if it has a damaged cord or plug. Do not operate if the unit malfunctions, is dropped or damaged in any manner.
9. Keep the cord away from heat or hot surfaces.
10. Do not use this product outdoors.
11. Never operate this unit unless it is fully assembled. Do not operate without filters in place.
12. Do not attempt to wash and reuse the disposable filter elements.
13. If prefilter is washed, allow to dry completely before reassembling the unit.
14. Do not disassemble internal components. No user-serviceable parts are inside the unit (filter replacement excepted). Disassembly, repair or replacement of internal components may be performed only by qualified technicians.
15. Do not place the power cord under carpet, and do not cover it with throw rugs. Arrange the cord so that it will not be tripped over. Do not place anything on the cord.
16. Disconnect the power supply before servicing and/or cleaning.
17. Locate the air purifier near the electric power outlet and avoid using an extension cord.
18. This appliance has a polarized plug (one blade is wider than the other). To reduce risk of shock, this plug is intended to fit only one way in a polarized outlet. 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.
19. A loose fit between the AC outlet (receptacle) and plug may cause overheating and a distortion of the plug. Contact a qualified electrician to replace a loose or worn outlet.
20. Do not use the KenkoAir Purifier where combustible gases or vapors are present.

21. Do not operate near a kitchen vent.
22. Do not expose the KenkoAir Purifier to rain, or use near water, in a bathroom, laundry area or other damp location.
23. Do not allow foreign objects to enter the ventilation or exhaust opening, as this may cause electric shock or damage to the product. Do not block air outlets or intakes. Keep these openings clean as specified in the instructions.
24. Do not sit, stand or place heavy objects on the KenkoAir Purifier.

OPERATING INFORMATION

Setup Instructions

Place the KenkoAir Purifier in an appropriate area (see precautions) and connect to a power source.

Operating Instructions

Activating the unit

When the KenkoAir Purifier is first turned on, the air quality indicator will change color several times to calibrate itself and stabilize after approximately 30 seconds. The blue end of the scale denotes a low level of airborne contaminants. Red signifies a higher concentration of pollutants. A sensor continually monitors the indoor air and any alteration is reflected in the color of this indicator.

Fan speed

Press the fan speed button to choose the desired speed. In auto mode the fan speed is controlled by the air quality sensor, and automatically adjusted as appropriate.

Timer

Pressing the timer button will set the KenkoAir Purifier to operate for three hours, and pressing it again while the unit is operating in timer mode will cancel this setting.

Filter life indicator

When the filter life indicator is flashing, the filters require immediate replacement. After new filters are installed, activate the unit, then depress and hold the indicator button for three seconds to reset this function.

Air quality sensor

The air quality sensor that controls the unit in automatic mode may be adjusted to increase or decrease sensitivity. The sensor switch is accessible when the front panel is removed. There are three settings: low, medium and high. Setting the switch to LOW will make the device more sensitive (reactive to a low concentration of air contaminants). A setting of HIGH reduces the sensitivity so that in automatic mode the KenkoAir Purifier is activated only when the airborne particle concentration is high.

MAINTENANCE

CAUTION: When performing any maintenance operation, make sure the KenkoAir Purifier is unplugged.

Never clean the unit by washing. Use a dry or damp cloth to wipe the exterior only. Do not allow water to enter the unit.

Cleaning the exterior

Use a soft, dry or damp cloth to wipe the unit. Do not use solvents, chemical cleaners or a stiff brush.

Cleaning the air inlet and outlet

Clean the air inlet and outlet with a soft brush.

Cleaning the prefilter

Be sure to unplug the unit before cleaning.

The reusable prefilter should be cleaned every two months, or when the filter life indicator on the control panel is flashing.

1. Remove the front panel of the KenkoAir Purifier as described below in the Replacing Filters section. Detach the prefilter as described.
2. Clean the prefilter by gently vacuuming or by immersion in warm water. If the prefilter is very dirty, wash the surface with warm water mixed with a small amount of dish soap.
3. If washed, allow the prefilter to dry completely before replacing it in the unit. Reinsert all filters and reattach the front panel.

FILTER REPLACEMENT

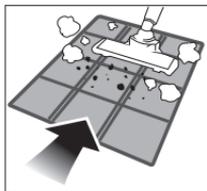
The deodorizing filter and ULPA filter require regular replacement. Inspect at least once every six months, or more often if used in an area with higher than average levels of air pollution. Replace filters immediately if the filter life indicator is flashing.

IMPORTANT: The prefilter is reusable. **Do not** discard – clean and reinstall as described above.

Do not operate the unit without filters in place.

Be sure to unplug the unit before replacing filters.

1. Remove the front panel of the unit by pulling this panel outward from the bottom and lifting it.
2. Remove all the filter elements and clean the reusable prefilter as described in cleaning procedure above.
3. Replace the deodorizing filter and ULPA filter with new components. Remove these from packaging. Assemble all filters in the correct sequence from front to back, and with the front side of the filter facing toward the front of the unit as illustrated on page 4. Place in filter enclosure.
4. Replace the front panel.



The replacement pack for this product is the KenkoAir Purifier deodorizing filter and ULPA filter, item #1444.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
<ul style="list-style-type: none"> • Unit will not operate. 	<ul style="list-style-type: none"> • Unit may be unplugged. • Front panel is not completely closed. • Power outlet is faulty. 	<ul style="list-style-type: none"> • Check to make sure the unit is plugged in. • Make sure the front panel is securely in place. • Try a different electric outlet.
<ul style="list-style-type: none"> • Odor is noticeable. 	<ul style="list-style-type: none"> • Significant pollution or smoke in air. • Filters require cleaning or replacement. 	<ul style="list-style-type: none"> • Reduce smoke in room before using. • Clean or replace filters.
<ul style="list-style-type: none"> • Filter life indicator continues to flash. 	<ul style="list-style-type: none"> • Indicator requires resetting 	<ul style="list-style-type: none"> • While unit is operating, press and hold indicator button for three seconds to reset.

WARRANTY

Standard three-year limited warranty on fan motor. General parts and labor warranted for one year.

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Appearance and specifications are subject to change without notice.