



Molekule Air Mini+



A manual for home & healthcare use

PLEASE READ AND SAVE
THESE INSTRUCTIONS

For home use

Best practices

Try it in the bedroom.

Molekule Air Mini+ will work in any room, but giving it space in a central location, and on a shelf, stand, or table will help maximize air intake. It's designed for rooms under 250 sq. ft. We recommend running it in the bedroom, closer to your bed at night for a clean, sleep-breathing zone.

Run it 24/7.

Molekule Air Mini+ uses low energy to keep fresh air flowing.

For healthcare use

Indications for use

The Molekule Air Mini+ air purifier is a device intended for medical purposes that is used to capture 95% of particulate matter and destroy bacteria and viruses by exposure to ultraviolet radiation when operated in manual mode at fan speed 3, or higher.

The Molekule Air Mini+ air purifier has been demonstrated to destroy the following MS2 bacteriophage bioaerosol entrained on the filter of the subject device under the following exposure/working conditions:

Test items		Test results
Virus	MS2 bacteriophage	Average maximum log reduction /entrainment time (hours) at Fan Speed 5. Room temperature test. 5.09 ± 0.42 / 120 mins
	0.3 to 1.0 micronsize particles	Single pass mechanical filtration efficiency. 95% or greater according to ASHRAE 52.2

Placement

Air Mini+ can be utilized in any room. Recommended placement is within 3 feet of the user, preferably at or near table height. When placed in a room featuring positive or negative pressurization, Air Mini+ should be placed 6 feet from any inlets or exits.

For medical use, run the device at fan speed 3, or higher.

Not recommended in surgical suites or operating rooms.

Warning!

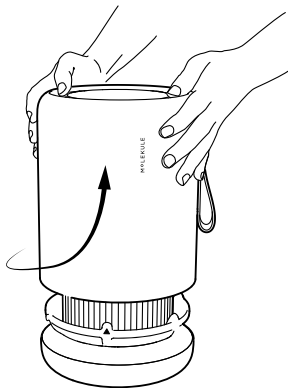
Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Portable RF communications equipment (including peripherals such as antenna cables and external antennae) should be used no closer than 30 cm (12 inches) to any part of the Molekule Air Mini+, including cables specified by the manufacturer. Otherwise, this could result in degradation of performance of this equipment.



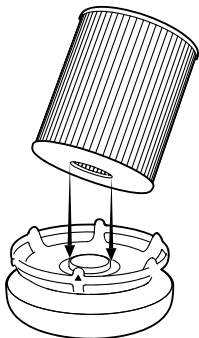


Setting up



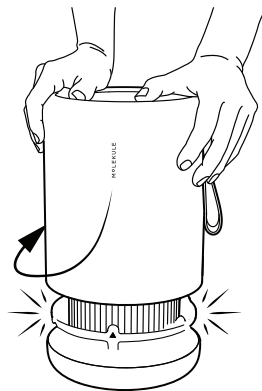
1

With the base on a steady surface, twist purifier shell counterclockwise and lift to open.



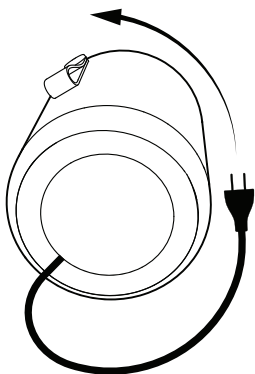
2

Unwrap filter and place on base.



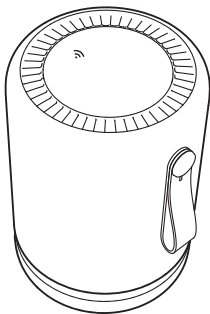
3

Align logo on shell with arrow on base. Push down firmly & twist clockwise to lock shell. Make sure you feel or hear a snap. Don't worry. It's sturdy.



4

Unwind cord and plug in.



5

Once the WiFi light is pulsing white, you're ready to pair to the app.

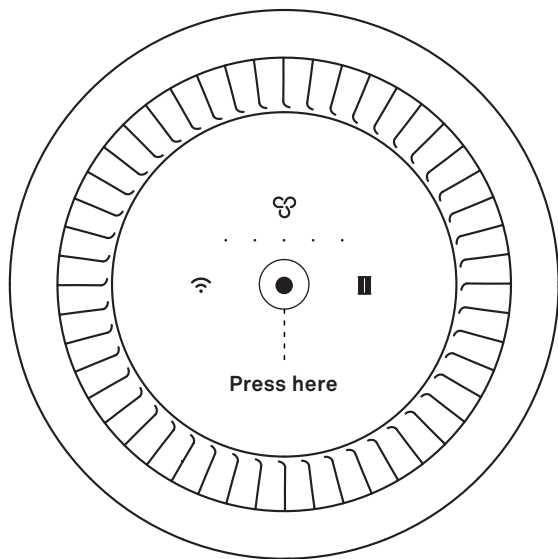


6

Download the app "Molekule" to complete setup and enable purifier control from your phone.

Controls & interface

There's just one button. It's on top, in the center of the display. Tap it to wake the purifier, and cycle through fan speeds and Auto Protect mode. A long press of 3 seconds puts it on standby, which deactivates the fan, UV-A lights, and display lights.



Auto Protect mode



Fan speeds



PECO-Filter status



Particulate matter levels



WiFi status

Modes & states

Auto Protect mode

Your Molekule Air Mini+ has a sensor to measure airborne particulate matter levels. Auto Protect mode uses these levels to regulate fan speed for optimal air purification.



Manual mode

Your purifier's five fan speeds correspond to the number of dotted white lights. Tapping the button cycles through speeds, and Auto Protect mode.

For medical use, run the purifier at fan speed 3, or higher.

Silent	•				
Low	•	•			
Medium	•	•	•		
High	•	•	•	•	
Boost	•	•	•	•	•

PECO-Filter status

The PECO-Filter status indicator helps you track the replacement schedule for your PECO-Filter.

Upon powering device or closing shell



Authentication

Each time you plug in your purifier or lock its shell into place, it checks the authenticity of the PECO-Filter. A pulsing white filter light indicates authentication has started.

A green filter light indicates it's confirmed as a certified Molekule PECO-Filter and will run normally.

A red filter light indicates the PECO-Filter has not been verified and the purifier will not start.

During use



Off

If the PECO-Filter status indicator is off, there's no need to replace your PECO-Filter.



Orange

An orange light indicates your PECO-Filter is nearing recommended replacement time.



Red

A red light indicates your PECO-Filter has reached recommended replacement time. Replace the existing PECO-Filter.



Red flashing + manual lights flashing

The purifier will go on standby and the flashing red light indicate your PECO-Filter should be replaced immediately as it has exceeded its recommended usage. To restart Air Mini+, tap the center button on top of your purifier. Air Mini+ will repeatedly go on standby after extended use until the PECO-Filter is replaced.

WiFi status

The WiFi status indicator helps you track the replacement schedule for your PECO-Filter.

After setup



Initial connection

Upon powering the purifier (after setup), this indicator will pulse white while it searches for a connection.

If it turns green, it has connected successfully.

A red WiFi status indicator means an issue with your WiFi is prohibiting your Molekule Air Mini+ from connecting.

During use



Off

If the WiFi status indicator is off, there are no issues with your WiFi.



Red

A red WiFi status indicator means an issue with your WiFi is prohibiting your Molekule Air Mini+ from connecting.

What Molekule Air Mini+ senses in the air

How the particle sensor works

The sensor in your Air Mini+ is designed to give you a window into the air quality of the room it's operating in. The sensor uses a light-sensitive detector to gauge the concentration of particles in the air that gets pulled into the sensor intake. At sufficient concentrations, it is sensitive to all forms of particulate matter, like dust, smoke, components of vehicle exhaust, soot, and many other airborne substances.

Particulate matter can be harmful for many people. But it's just one aspect of air pollution.

While Air Mini+ doesn't measure other types of pollution like viruses, bacteria, ozone, VOCs, and allergens, you can rest assured that the PECO technology at the core of your device is working to help destroy them.



**Particulate
matter sensor**



Particulate matter levels

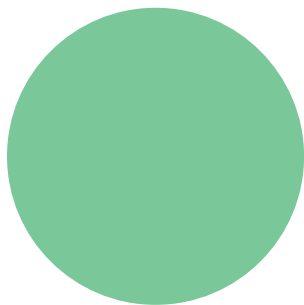
Understanding Auto Protect & particle levels

Auto Protect uses the particulate matter sensor to take automatic readings of the air that gets pulled into the sensor intake and adjusts fan speed for optimal air purification in the room in which it's running. Based on how much particulate matter it detects in that room, the sensor triggers a light to appear on the very center of your purifier's display. It's important to note that, while your device may show a low level of particles in the air entering the purifier, the presence of other pollutants would remain undetected by the particle sensor.

Molekule's particle levels

The scale and color levels on your Molekule Air Mini+ measure particulate matter concentration on a four-tiered scale. Your device sensor is designed only to reflect the presence of particulate matter in a cross section of your air, not the overall air quality, which would be based on measurements of many different types of air pollutants. A "Good" reading on your purifier may mean a low level of particles detected in the air, but the presence of other pollutants would remain undetected by the purifier's particle sensor, which could affect overall air quality. The recommendations below are based solely on the levels of particulate matter detected by the sensor.

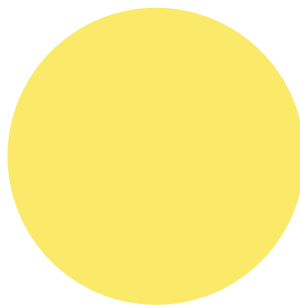
Particulate matter levels



Good

Your particle sensor is detecting a low level of particulate matter in the room.

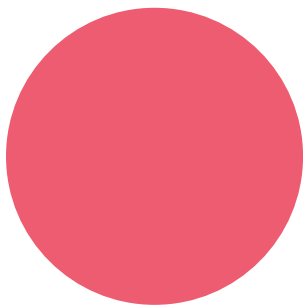
We suggest keeping your purifier in Auto Protect mode or running it on the lowest fan speed.



Moderate

Your particle sensor is detecting a moderate level of particulate matter in the room.

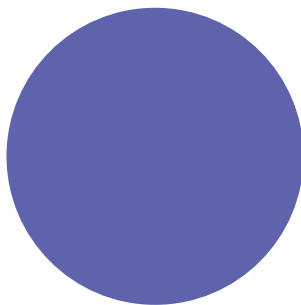
We suggest keeping your purifier in Auto Protect mode or increasing fan speed to continue cleaning the air in the room.



Bad

Your particle sensor is detecting a significant level of particulate matter in the room.

We suggest keeping your purifier in Auto Protect mode or increasing fan speed to continue cleaning the air in the room.



Very bad

Your particle sensor is detecting a high level of particulate matter in the room.

We suggest keeping your device in Auto Protect mode or increasing your fan to the highest speed to continue cleaning the air in the room.

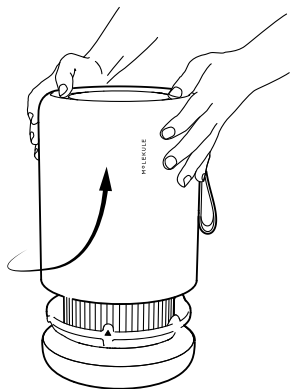




MOLEKULE

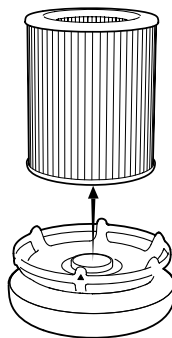
How do I replace the filter?

User servicing instructions



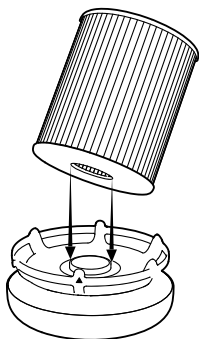
1

With the base on a steady surface, twist purifier shell counterclockwise and lift to open.



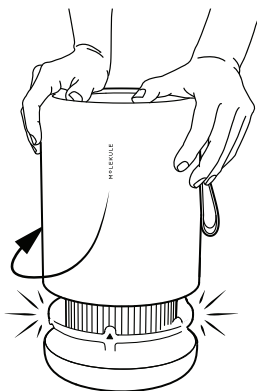
2

Lift used PECO-Filter off purifier base and discard.



3

Remove new PECO-Filter from packaging and place onto base with small hole face down, as indicated on PECO-Filter.



4

Align logo on shell with arrow on base. Push down firmly & twist clockwise to lock shell. Make sure you feel or hear a snap. Don't worry. It's sturdy.

Disposing of filters

Additional cleaning and disposal actions are required for closed quarantine areas and healthcare facilities in mitigating the risk of airborne virus transmission.

Discard the used filter per the biohazard removal process recommended by your healthcare provider. Contact your healthcare provider for biohazard bags and containment recommendations specific for your environment.

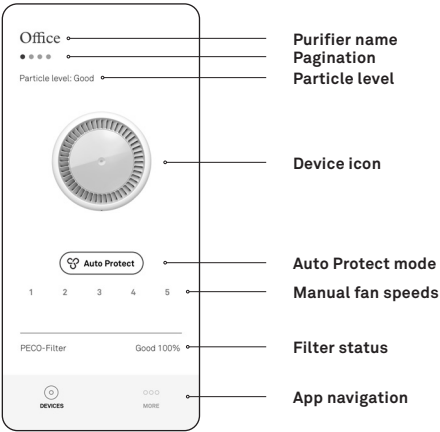
MOLEKULE



PECO-FILTER
Photo Electrochemical Oxidation

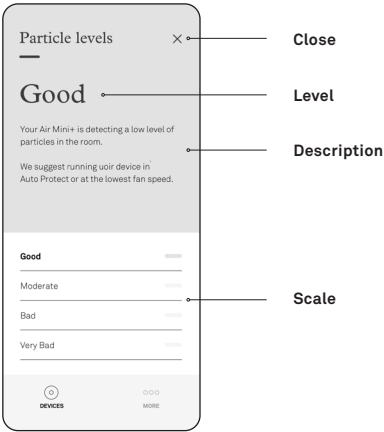
App

The Molekule app enables you to control the purifier, and have access to filter status, particle levels, and a host of additional features.



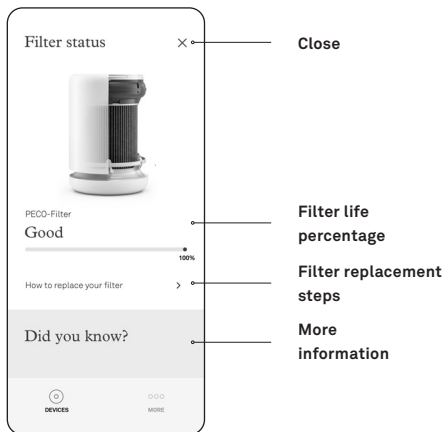
Device control screen

This is where you can control the fan speeds, access the PECO-Filter status, and the particle level details.



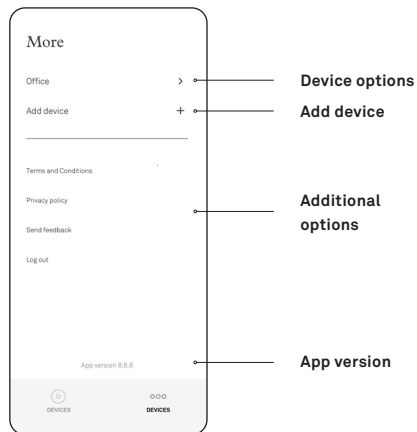
Particle levels

This screen shows the current particle level, offers access to more information on how Air Mini+ detects particles in the air, and offers access to blog content.



Filter screen

The filter status screen gives you more details on how to replace the PECO-Filter, information on the filter itself, and filter auto-refill services.



More

The more menu provides access to device-specific actions like renaming, WiFi settings, standby, and more.

How do I clean the device?

- Wipe external surfaces only per standard surface-cleaning procedures.
- Do not spray into the intake or outlet with cleaner.
- Wipe them down instead. Do not clean the interior.
- Do not clean or contact LED lights.

Warning!

Failing to follow these cleaning instructions can increase the risk for electric shock and/or damage to the device. To reduce the risk of electric shock, always unplug the device before performing any cleaning.

Help & support

We're here to help. If you have issues with your purifier, app, filter, or account:

Visit us

help.molekule.com

Call us seven days a week, 8am-5pm PT

+1 (855) 999-9069

Molekule Inc.

1301 Folsom Street,
San Francisco, CA 94103
USA

Frequently asked questions

How do PECO-Filter auto-refills work?

Molekule Air Mini+ ships with one PECO-Filter. We offer a PECO-Filter auto-refill plan to help ensure you have clean air when you need it. PECO-Filters are automatically shipped to your doorstep.

To start or manage your auto-refill plan, go to [Molekule.com](https://molekule.com)

Why does my purifier come with a bag of activated carbon on top and why does it have an odor?

Like any new product, your device encounters odors and volatile organic compounds (VOCs) during manufacturing and shipping. To reduce their initial presence in the air before you've plugged in your device and activated the PECO destruction process, each Molekule Air Mini+ ships with a small bag of activated carbon, which you can dispose of. While the bag acts mostly as a deodorizer during the shipping process, your device may still have a noticeable odor by the time it arrives. This initial odor should dissipate within 24-48 hours of continuous purifier usage.

Why is my purifier's filter status flashing red and purifier shutting down?

We understand that our customers lead busy lives and may forget to change the filter, which could prevent them from having the cleanest air possible. Once your purifier's PECO-Filter status indicator flashes red and the fan speed indicators flash white, this means the filter is beyond recommended usage and should immediately be replaced. If you don't yet have your replacement filter, order it now. In the meantime, you can temporarily restart the purifier by tapping the center button on top of the device.

Why is my purifier unresponsive and all lights are pulsing red?

Something has triggered a fatal error. Unfortunately, your purifier is no longer operational. Please contact Molekule Customer Support from 8am-5pm PT, seven days a week at +1 (855) 999-9069 to see if your purifier is under warranty and how to get a replacement unit.

Why won't my purifier power on?

If you touch the purifier button and the lights or fan don't turn on, follow these recommended steps:

- Make sure the purifier is plugged into a working outlet.
- Make sure the PECO-Filter inside the purifier is unwrapped.
- Make sure your PECO-Filter has been verified by inserting it into the purifier, twisting the purifier shell closed, and waiting for the PECO-Filter status indicator to turn green.
- Make sure the lid is on securely and clicked into place. If you're not feeling and/or hearing it click or snap into place, try setting the purifier on the floor in between your feet and turning the lid clockwise or to the right until you feel or hear a click.

Does Molekule Air Mini+ emit WiFi signals?

Yes, Molekule Air Mini+ has a built-in WiFi radio that emits WiFi signals.

How often do the UV lights need replacing?

The UV lighting system in Air Mini+ uses LEDs and has been designed to last the life of the device.

SAFETY PRECAUTIONS & WARNINGS

Never place any objects on top of the purifier. Do not place the purifier directly below a shelf or other objects that might hinder the exiting airflow. Never cover vents while the purifier is running. Avoid dropping the purifier or placing it on an uneven or potentially unstable location. To help ensure stable placement of the purifier and limit risk of tipping, only place on stable, flat floor surfaces and make sure the cord is fully clipped into the cord holder. Do not insert or drop any foreign objects or liquids into the purifier. If either happens, immediately unplug it and contact Molekule Customer Support. If the purifier is demonstrating unwanted or unexpected behavior, unplug it and contact Molekule Customer Support.

Do not alter, clean or tinker with the PECO-Filter. Changes or damage to the PECO-Filter may interfere with proper operation. The LEDs in your Molekule Air Mini+ are meant to last the lifetime of the product. Do not attempt to repair or replace these LEDs without explicit instruction and approval from Molekule. Do not clean the purifier with any liquid cleaning agents or water. These items pose a fire, electric shock or injury risk. The purifier should only be cleaned using a dry cloth. Do not operate any purifier with a damaged power cord or plug. Contact Molekule Customer Support for examination and/or repair.

Do not run the power cord under carpeting or cover the cord with throw rugs, runners, or similar coverings. Do not route the cord under furniture or appliances. Keep the cord away from high-traffic areas to avoid a tripping hazard.

This appliance may have a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, the 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. Contact Molekule Customer Support or an authorized service facility for examination and/or repair.

Disclaimer

Based on our internal testing, we believe the Molekule Air Mini+'s sensor is comparable in accuracy to similar commercially available consumer air quality sensors.

The levels of air quality it reports may not precisely conform to other methods of measuring particulate matter pollution. Rather, they are intended to be a close estimation of the particulate level in the room in which it's currently operating. External factors, however, can lead to inaccurate readings. As an example, excessive humidity is a cause of inaccurate readings, as moisture can change the size and shape of airborne particles. For more information about the difference between the equipment used in scientific laboratories to study the composition of the atmosphere and consumer air quality sensors, visit this blog page (<https://molekule.science/consumer-grade-air-quality-sensors-are-they-good-enough/>). The sensor in your Molekule purifier only detects particulate matter. All other types of pollution are not included in the levels reported.

People with sensitivities to air quality or any other health or medical conditions should always follow any action plans provided by their healthcare professionals regardless of the particulate levels reported by the Molekule sensor.

The data the sensor provides is used for informational purposes only. Consult your doctor if you are unsure what levels of particulate matter are acceptable for you, and visit www.airnow.gov for more information on particulate matter and all aspects of air pollution.

As with any product, your purifier uses new plastics and materials in its manufacture. We work hard to minimize off-gassing from these materials, including shipping each device with carbon filters to help absorb smells. Despite this, there may be a noticeable smell during the first 24-48 hours of use, which is to be expected. If these odors are produced by VOCs, the particulate matter sensor in your Molekule Air Mini+ will be unable to detect their presence or automatically adjust the fan speed to remove them. Nevertheless, this particular type of off-gassing is temporary. After the initial settling period, scents should significantly subside. At that point, your filter has reached full effectiveness.

Please see <https://molekule.com/legal> for additional terms and conditions and warranty information.





Limited warranty information

Molekule warrants that for a period of two years from shipment, the Product will be free from defects in materials and workmanship under normal use in accordance with the documentation provided with the Product. In the event of a defect, visit Molekule at molekule.com/contact for return instructions. Molekule's policy is to honor product warranties only on products purchased directly from Molekule or from authorized Molekule resellers, and only if accompanied by a receipt or proof of purchase. A list of Molekule's authorized resellers is available on Molekule's website. If you purchase a Molekule product from an unauthorized dealer or if the original factory serial number has been removed, defaced or altered, your Molekule product warranty will be deemed invalid. Shipping charges may apply except where prohibited by applicable law. Molekule's sole obligation under this warranty will be at its option to repair or replace the Product, and the replaced product will be warranted for the remaining period of the original warranty. Replacement products may contain new or refurbished parts. This warranty does not apply to Products damaged by misuse, accident, electrical disturbance or normal wear and tear. The Product is not designed for or warranted against damage from use in areas subject to extreme temperature, excessive moisture, or other inherently hazardous environments. ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THIS WARRANTY. EXCEPT FOR THE LIMITED EXPRESS WARRANTIES SET FORTH ABOVE, MOLEKULE DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary by jurisdiction.

FCC statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device and its antenna(e) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC radiation exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Responsible party: Molekule Inc. 1301 Folsom Street, San Francisco, CA 94103. Phone Number: +1 (855) 999-9069

IEC60601-1-2 Compliance

This device complies with IEC 60601-1-2 ed 4.0 (2014-02) Medical electrical equipment- Part 1-2: General requirements for basic safety and essential performance- Collateral Standard: Electromagnetic disturbances – Requirements and tests.

Based on the test results this device complies with Radiated Emissions, AC Mains Conducted Emissions, Harmonics, Flicker, Electro-Static Discharge Immunity, Radiated, Radio-Frequency, Electromagnetic Immunity, Immunity to Proximity Fields from FR Wireless Communications Equipment, Electrical Fast Transient/Burst Immunity Test, Immunity to Surges, Conducted, Radio-Frequency, Electromagnetic Immunity Test, Power Frequency Magnetic Field Immunity Test, Voltage Dips/Interruptions Immunity Test requirements.

IC statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

For products available in the USA/Canada market, only channels 1 to 11 can be operated. Selection of other channels is not possible.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage.
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC radiation exposure statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

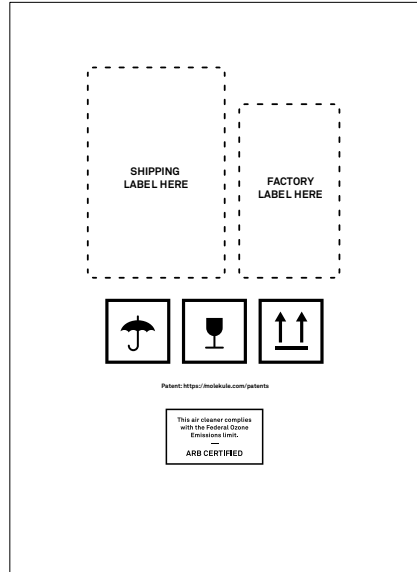
The transmitter module may not be co-located with any other transmitter or antenna.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

Label placement

Both shipping and factory labels are placed on the back panel of the device packaging.



426-0011-04-A

