

PERSONAL AIR PURIFIER AND MONITORING SYSTEM

Eteria is a smart system that monitors and purifies the indoor air and is designed to create a monitoring network within indoor spaces. It captures and eliminates Volatile Organic Compounds (VOCs), viruses, odors and bacteria present in the environments. By constantly monitoring the air quality, the system is able to accurately suggest where to move the air purifier. Compact and light, Eteria is versatile and adapts to any place.



YOUR HOME BECOMES SMART

Eteria is a modular system that combines an air purifier and an air quality module. Thanks to this configuration, the system can be expanded throughout the home or office, monitoring and purifying the air you breathe.

TWO-STEP PURIFICATION SYSTEM

The Eteria purification technology uses an innovative two-step purification system. The first is a pre-filter made from a warp-knit technical fabric, designed to retain large particles. The second is an innovative photocatalytic ceramic filter treated with WO₃ (tungsten trioxide) that eliminates VOCs, viruses, odors, and bacteria.

Photocatalysis is a natural process that breaks down organic matter at a molecular level. These two filters have a longer lifetime compared to other filters as they don't need to be replaced. The ceramic filter should be washed under running water about every 2 months, making sure to handle it only with clean gloves.

CUTTING-EDGE SENSORS

Eteria has the most advanced sensors that accurately measure temperature, humidity, concentrations of Volatile Organic Compounds (VOCs), and levels of equivalent carbon dioxide (CO₂).

REAL-TIME AIR QUALITY MONITORING

Thanks to the Vitesy Hub app you can control in real-time the quality of the air you breathe every day in a simple and

easy way. You can choose between different purification speeds while you are sleeping, working, or cooking. Place more than one module in your home or office to have a complete mapping of the air in your indoor spaces.

CONNECTED TO YOUR HOME

You can connect Eteria to your favorite Smart Home devices, it works with Amazon Alexa and Google Assistant. Easily interact with your smart assistant through voice commands to control Eteria and the values of your air.

POWER SUPPLY WITH USB PORTS

Eteria can also be powered through any standard USB port, using a USB-C type cable. This makes it even easier to place it on any desk where a computer is used, even if there's no available power outlet nearby. For more details, please check below the section "Electrical Specification".

EASY INTERACTION

Eteria is equipped with a practical and easy magnetic plug system. This will help you to pair the air purifier to its air quality module.

EXCELLENT PERFORMANCE, COMPACT DESIGN

Eteria is a light and compact purification system, easy to move from one room to another. Despite its compact size, Eteria guarantees excellent performance.

Functions

- ① Diffused air quality monitoring
- ② Two-step purification system
- ③ It works with Google Assistant and Amazon Alexa
- ④ Different and adjustable fan speed modes
- ⑤ Real-time and remote control with the Vitesy Hub app
- ⑥ Charts reports, chronology of air quality, mapping of the environment
- ⑦ Air quality module - air purifier magnetic pairing
- ⑧ Air quality feedback with LED signaling

Codes → TARIC: 8421392590

COLORS

EAN

COMMERCIAL CODE

PLUG TYPE



WHITE

8054314920938
8054314920945
8054314920952
8054314920969
8054314921065

ETE K1
ETE K1
ETE K1
ETE K1
ETE AP

Type A
TypeC
Type G
Type I



BLACK

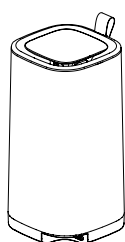
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8054314920907
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8054314920921
8054314921058

ETE K1
ETE K1
ETE K1
ETE K1
ETE AP

Type A
TypeC
Type G
Type I

Depending on what you have purchased, you will find in the package one or more of the following components.

① Air purifier
“ETE AP”



② Air quality monitor
“ETE AM”



③ Power supply USB-C



④ Setup-guide



Specification

AIR PURIFICATION

See detailed **Test Report** on our website by clicking on the following link: <https://vitesy.com/research>

AIR QUALITY MODULE SENSORS

→ Temperature accuracy

Higher than $\pm 0.1^{\circ}\text{C}$

→ Humidity Accuracy

$\pm 3.5\%\text{RH}$ at 20 ~ 80%RH / $\pm 5.0\%\text{RH}$ at 0 ~ 100%RH

→ VOCs gas range::

0 ppb ~ 6000 ppb of TVOC

→ CO₂ equivalent

CONNECTIVITY

AIR QUALITY MODULE B2C

→ Wi-Fi 802.11 b/g/n compatible (2.4GHz)

Supported security: Open/WEP/WPA/WPA2-personal (TKIP e AES)/WPA/WPA2-enterprise (contact support for compatible authentication methods)

→ Bluetooth Low Energy (BLE)

ELECTRICAL SPECIFICATION

→ Power supply: USB type-C, 5Vdc, 2.0A or 2.1A, 10.0W or 10.5W exit.

→ Voltage on the board: in addition to the + 5V provided by the USB-C, two other voltages will be generated on the main board, 3.3V and 1.8V, respectively for MCU + radio modules and sensors. On the air purifier board a voltage of + 12V will be generated to power the fan and LED.

→ Absorption: case of realistic use with everything in action it will be less than 1.3A.

→ Power: In the same condition described in the previous point, the system consumes a power of about 7.5W

→ Ratings: module ETE AM: 5Vdc, 0.3A, 1.5W

module ETE AP: 5Vdc, 1.0A, 5W;

→ Power Supply through USB port (*cable not supplied*): in order to use this function, it is necessary that the USB port power delivery isn't limited by negotiation rules, otherwise the electrical current won't be powerful enough. In addition, depending on the type of USB port, only some of the device settings may be useable – details below (in order of

power consumption):

→ “Silence” and “Off” modes can be managed with port types USB 1.0 or higher.

→ “Standard” mode can be managed with port types USB 3.0 or higher.

→ “Performance” mode can be managed with port types USB-C, USB 3.1 or higher or USB 3.0 charging.

MATERIALS

→ Air purifier: ABS recycled Chemiran

→ Air quality module: ABS recycled Chemiran

→ Filter: ceramic, treated with tungsten trioxide, washable

→ Pre-filter: 3D warp-knit fabric, 100% polyester, washable

LEDS LIGHT

ACTIVATION OF PHOTOCATALYTIC FILTER:

→ 4 polarized LED lights at 15mA of current, 6.5 lumens of maximum brightness (for single led), peak wavelength is 450nm.

AIR QUALITY MODULE LIGHTS:

→ LEDs light: 155124M173200

CONNECTORS

→ Magnetic connector: 4pin, HTP-CON-M417

→ Pogo pin: Spring-loaded Pin with a Standard Tail - 0908-0-15-20-75-14-11-0

→ USB-C - UJC-HP-3-SMT-TR

DIMENSIONS AND WEIGHT

Height: 245 mm

Length: 162 mm

Weight: 1 Kg

APP VITESY HUB

→ Languages: English – Italian – German – Spanish – French

→ iOS requirements: 14.0 minimum required, compatible with iPhone, iPad, and iPod touch

→ Android requirements: OS version 6.0 or higher

→ Device connection B2C + small office: each module connects to WiFi through a simplified flow by Bluetooth connectivity

REGULATORY

In conformity with the essential requirements of the following EU Directive or other normative documents.

This declaration is based on the full compliance of the products with the following European standards:

EMC Standards:

- EN 55014-1:2017 + A11
- EN 55014-2:2015
- EN IEC 61000-3-2:2019
- EN 61000-3-3:2013 + A1

Safety Standards:

- EN 62233:2008
- EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019
- EN 60335-2-65:2003 + A1:2008 + A11:2012
- IEC 60335-2-65:2002 + C1:2004 + A1: 2008 + A2: 2015 (Second Edition) in conjunction with IEC 60335- 1:2010 (Fifth Edition) incl. C1:2010 + C2:2011 + A1:2013 + C1 2014 + A2 2016 + C1 2016

- RoHS Directive (EU) 2015/863 amending Annex II to Directive (2011/65/EU)
- REACH Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH")

In accordance with the following Directive(s):

- 2014/30/EU (EMC – Electromagnetic Compatibility)
- 2014/35/EU (LVD – Low Voltage Directive)
- 2014/53/EU (RED – Radio Emission Directive)

This equipment has been tested and found to comply with:

- Fans and Ventilators [CSA C22.2#113:2018 Ed.11]
- Electric Fans [UL 507:2017 Ed.10+R:27May2020]
- FCC [CFR 47 part 15 subpart B]

Operating Instructions

INTENDED APPLICATION ENVIRONMENTS

Eteria can be placed in every indoor environment. Don't place it on the floor, near heat sources, or in rooms with high levels of humidity. We recommend to place it at least 30cm from the wall.

POWER SUPPLY BY CABLE

The monitoring modules are powered by cable: make sure to place each module near an electrical outlet, in order to ensure proper functioning and continuous monitoring of the air quality. The air purifier is not powered by cable, you need to activate it by pairing it with the *Air Quality Module*.

DON'T OBSTRUCT THE AIR FLOW

Don't place Eteria in a corner or near objects that may interfere with its air flow, both in and out.

ROOM INSULATION

We recommend closing the windows and the doors during operation in order to avoid polluted air coming in and clean air going out.

POSITIONING - MAXIMUM AIR FLOW

Eteria is a personal purifier designed to be used close to the user. It can provide a maximum air flow of 34 m³/h. In order to make desk placement simpler for computer workers, the product can also be powered through an USB port (see dedicated section "Electrical Specification" for more information on this topic).

