

# Discover your Natede Smart

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# 01. Thank you

We would like to personally thank you for choosing our products. We are truly grateful for your support!

**Thanks to Eden Reforestation Projects, with your purchase you have planted 7 mangroves in Madagascar.**

We have been fighting against deforestation and air pollution since 2016, and there are now hundreds of thousand new trees in the world!

Together we can make a difference, even with our smallest gestures.

Enjoy your Natede Smart!

Thank you so much,  
Team Vitesy

**edenprojects.org**



## 02. Breathe healthy, live better

Did you know that the indoor air is up to 5 times more polluted than the outdoor one? The indoor air can also contain over 900 different types of chemicals and particulates below 2.5 microns (PM 2.5). Breathing clean air both outdoors and indoors is important for living a healthy and happy life. The benefits for the mind and body are countless: sleeping better, increasing productivity, reducing respiratory problems and allergies, and many others.

The main indoor air pollutants are products of combustion, mold, animal hair, pollen, Volatile Organic Compounds (VOCs), bacteria, and dust. Natede Smart is designed to help you live healthier and easier. Breathe fresh, clean air every day and you no longer have to worry about air quality.

### **MUCH MORE THAN AN AIR PURIFIER**

Natede Smart is a natural and intelligent air purifier designed for the home and office. It has a minimal design and an innovative technology that captures and destroys Volatile Organic Compounds, viruses, odors, and bacteria.

With Natede Smart, our goal is to improve the quality of your life with a simple, easy-to-use device that is both a natural air purifier and a real-time monitoring system for indoor air quality. It's equipped with cutting-edge technology and has an elegant design. It's also sustainable, as it works thanks to the power of nature.

#### **THE PERFECT SYNTHESIS BETWEEN TECHNOLOGY AND NATURE**

We created Natede Smart starting from the concept of circular economy and circular design. We have designed it to be completely green and sustainable, thinking about our future with a global approach.

Natede Smart is a sustainable product since it is made with recycled materials and we don't use any glue to assemble it. This also makes the disposal at the end of its life cycle sustainable.

## 03. How it works

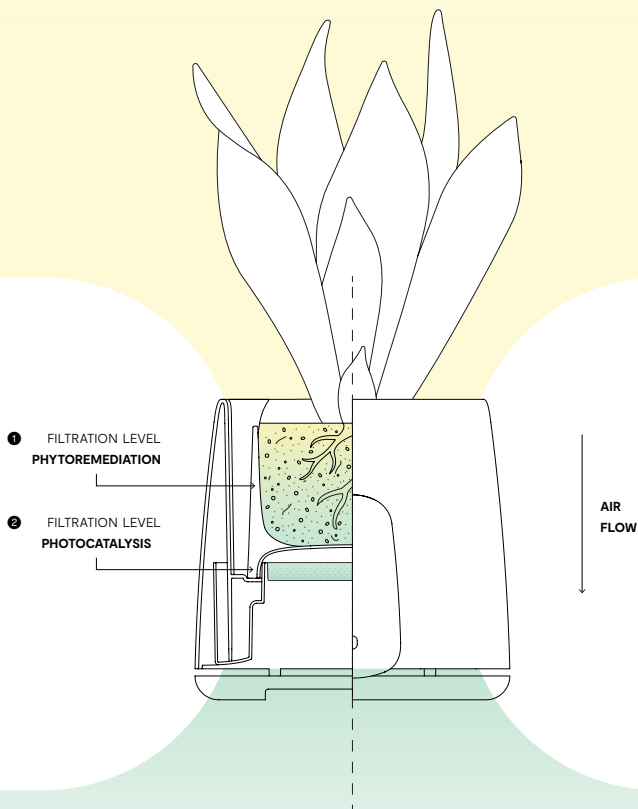
The technology behind the action of Natede Smart is the enhancement of the phytodepuration principle: it amplifies the natural power of plants to remove harmful substances in the air, eliminating the pollution present in closed spaces.

### **THE POWER OF NATURE TO THE NTH DEGREE**

By placing a plant inside the Natede Smart, it metabolizes significantly greater quantities of pollutants than a plant placed in a normal pot, since the air purification process takes place through the roots. Natede Smart is equipped with a new and improved technological unit that increases the power of plants. We have combined the power of constructed wetlands with an incredible new air-filtering process: photocatalysis.

### **IT ABSORBS AND DESTROYS EVEN THE SMALLEST POLLUTANTS**

Photocatalysis consists in the acceleration of a reaction in the presence of a photocatalyst mineral. The reaction takes place when the correct light energy interacts with the catalyst, transforming atmospheric pollutants into harmless substances. Our technology uses the latest generation photocatalyst based on visible LEDs and WO<sub>3</sub>, tungsten trioxide, deposited on

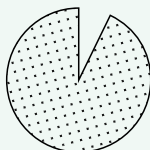


a ceramic structure.

Natede Smart is extremely efficient thanks to the photocatalytic ceramic filter as the design that characterizes it aims to maximize surface contact and the efficiency of photocatalysis. The modified WO<sub>3</sub>-based nanotechnology, which is activated with visible light, significantly increases the effectiveness of the photocatalytic technology in Natede Smart, and solves the problem of UV light, commonly used in this type of technology, but harmful to the eyes and characterized by higher energy consumption.

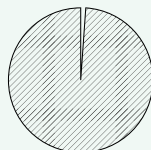
**NATEDE SMART SUCCESSFULLY REMOVES**

- VOCs (MEK, Benzene, Xylene, Ammonia, Formaldehyde)
- PM 2.5
- Bacteria
- Bad odors



**95%**

VOC



**99.5%**

BACTERIA



The photocatalysis process happens when the LED light hits the special photocatalytic filter.

Here's how the process works:

1. When the light rays coming from the LED lights of your Natede Smart radiate on the  $\text{WO}_3$ -based filter, elementary charges are created that can react with the oxygen and water present in the air.
2. From these reactions free radicals are generated (superoxide ion and hydroxyl radical), which are highly reactive and therefore tend to react within thousandths of a second with the particles they encounter.
3. Thanks to the ventilation system, Natede Smart conveys the air to be purified into the reaction chamber. When free radicals come into contact with pollutants in the air, they can break down the chemical bonds of harmful molecules and transform them into harmless substances.

This process is called photocatalytic oxidation.

**The combined action of phyto-purification and the latest generation photocatalysis allows Natede Smart to break down pollutants such as fungi, bacteria, viruses, Volatile Organic Compounds (VOCs), odorous compounds, and fine dust.**

**PHYTODEPURATION AND PHOTOCATALYSIS WORK IN PERFECT SYNERGY**

Polluted air is retained by the plant from top to bottom, passing through the roots. Here the air is filtered by retaining larger compounds, such as dust and animal hair. Through the photocatalytic filter, the air is filtered further where even the smallest polluting particles are destroyed.

Thanks to the photocatalytic filter, **Natede Smart can effectively reduce the odors of pets, cigarettes and cigars, kitchen odors, mold, etc.** And the best part is that the photocatalytic filter does not require any replacement over time, you can easily wash it under running water, leave it to dry, and reposition it. No filter replacement means less pollution and zero maintenance costs over time.

**ADVANCED SENSORS**

Natede Smart is equipped with the latest generation sensors, extremely accurate in measuring temperature, humidity, pollutants (VOC), fine dust (PM 2.5), and equivalent carbon dioxide (CO<sub>2</sub>e).

**INTERACT EASILY WITH YOUR NATEDE SMART**

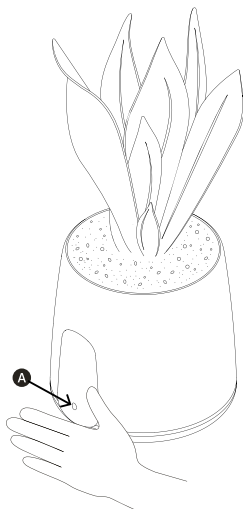
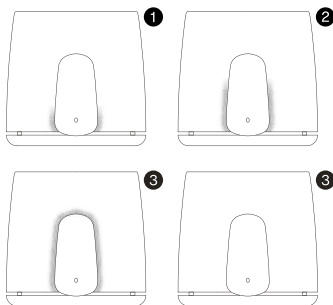
To turn on Natede Smart, just keep your hand still in front of sensor A. After a double blink of the LEDs you will enter the change mode illustrated on the next page. Every second the mode is changed in the following order: silent, standard, performance, off.

If you want to turn off the product or change the fan mode, you must keep your hand still in front of the sensor and the sequence will start again from silent mode.

To change the fan mode, keep your hand steady in front of sensor A.

- ① Silent: the lowest band of LEDs lights up as indicated (**fan at 25%** and **LEDs off**);
- ② Standard: the low and mid-range of the LEDs light up as indicated (**fan at 50%** and **LEDs on**);
- ③ Performance: the whole LED band is on as indicated (**fan at 100%** and **LEDs on**);
- ④ Off: **fan** and **LEDs** are **off**.

Once you remove the hand, the LEDs flash 2 times to confirm the selection. To see the currently selected mode, just pass your hand in front of sensor A and the LEDs will flash for 1 second.



### **BRIGHT INTERFACE**

Natede Smart has a luminous heart that beats indicating it is working.



## 04. Recommended Plants

Natede Smart works with several recommended plants. Each of them has specific air purification abilities and is more effective with certain pollutants. Choose your favorite and follow the instructions to take care of your plant in the best way.



Chamaedorea



Epipremnum Aureum



Spathiphyllum



Ficus Benjamina



Aloe Vera



Sansevieria Trifasciata





Dracaena Reflexa



Nephrolepis Obliterata



Phoenix Roebelenii



Anthurium Andraeanum



Chlorophytum Comosum



Aglaonema Modestum



#### PLANTS FOR YOUR PETS

Some houseplants can be toxic for your cat or dog. Choose a plant that is pet-friendly! Here's a list of non-toxic plants that you can use with your Natede Smart: Bamboo Palm, Boston Fern, Spider Plant, Pygmy Date Palm, etc.

#### PLANT'S NEEDS



bright light



low light



water it often



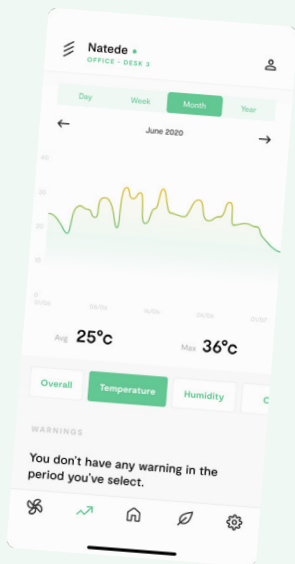
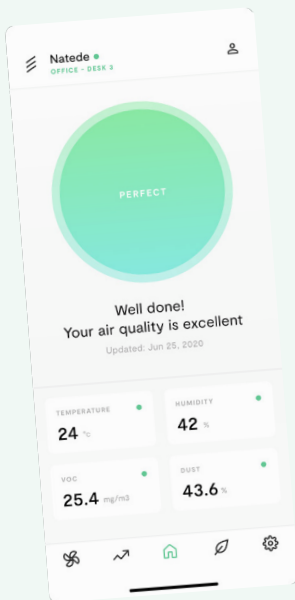
water it occasionally

## 05.Vitesy Hub App

Natede Smart can be connected via the Vitesy Hub app to be able to control air quality and remotely manage multiple devices at the same time, wherever you are. Natede Smart allows you to monitor air quality in real-time and also provides you with healthy advice on your habits and lifestyle. It is possible to check the general air quality day by day and consult the history for each sensor to obtain more specific data.

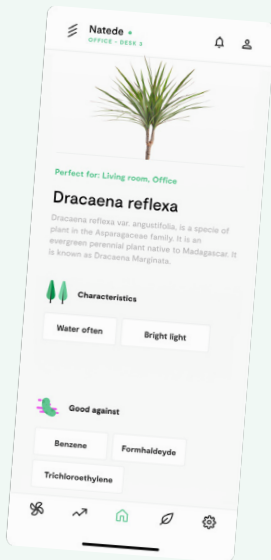
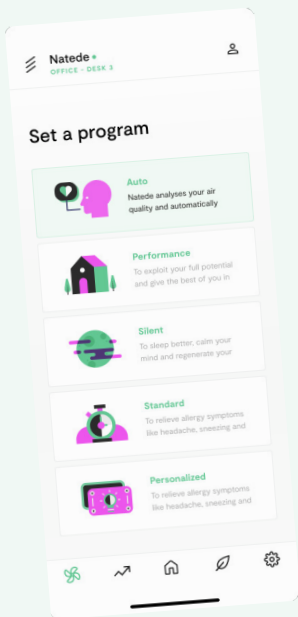
AVAILABLE ON





**CHECK YOUR INDOOR AIR QUALITY WHEREVER YOU ARE**  
Monitor your air in real-time with a simple touch.





### SET YOUR GOAL BASED ON YOUR NEEDS

Improve your everyday life by choosing your favourite setting.

# 06. Maintenance

## HOW TO WATER YOUR PLANT CORRECTLY

Natede Smart has a self-watering system that makes it easy to know when you need to water your plant. As soon as the plant is inserted into the Natede Smart, we recommend watering the plant directly from the soil for the first 2 days with 0.5L (0.2 gal) per day and filling the tank at the same time. To make sure your plant gets the right amount of water over time, follow these simple steps:

1. Check the float inside the water tank, when the yellow line on the float is visible the tank is full.
2. When the green line is visible the tank is half full.
3. Fill a small watering can with water and pour it a little at a time into the tank through the special spout.
4. Fill the tank slowly to allow the float to rise and show the correct water level.
5. Make sure you don't cross the red line.



#### HOW TO TAKE CARE OF THE CERAMIC FILTER

The photocatalytic filter is washable and made to last forever. It's important to apply some precautions to have greater performance over time. **To maximize the effects of the filter, we recommend washing every 6 months and replacement every 5 years.**

#### MAINTENANCE

**It is not recommended to handle the photocatalytic filter with bare hands:** your hands, even if clean, are oily and this inhibits the active sites of photocatalysis, lowering the efficiency of the reaction. For this reason, we recommend the use of gloves while washing it.

1. Remove the dust with a vacuum cleaner or by using a compressor. The dust decreases the photocatalytic efficiency because it blocks the reactive sites for the chemical reaction.
2. Wash the photocatalytic filter under running water to remove any residual dust accumulated in the pores. **DO NOT use tools to scratch the surface of the filter.**
3. If the dirt is stubborn, soak the filter in room temperature water for 10–15 min.

4. After washing it, gently shake the filter to remove excess water and dry it on a cloth. **DO NOT rub and DO NOT dab.**

When it is completely dry, replace the photocatalytic filter.

**NOTE**

Natede Smart does not work properly with a dirty filter. In fact, it cannot effectively remove pollutants in the air as the reactive sites, where chemical abatement occurs, are covered with dirt.



**TIP**

every time you clean the filter, clean the water tank of any dirt residue.

### **RESET THE DEVICE**

To reset Natede Smart, press and hold the button on the bottom of the device with a stick for 10 seconds.

The LEDs will then begin to flash quickly. When the reset process is completed, the LEDs begin to pulsate with a frequency that depends on the quality of the air you are breathing.

#### **WARNING:**

Before resetting your Natede Smart you should delete your Natede Smart from the app. If not, you won't be able to connect it properly.



**TROUBLESHOOTING**

Some problems that seem complex can often be solved easily. Follow this simple guide:



PROBLEM	CHECK	SOLUTION
The device does not turn on	Power cable and mode set in the app	Plug the power cord properly under the base. Check that the Natede Smart is not set to automatic or custom mode
No air comes out of the device	Power cable and fan mode in the app	Plug the power cord properly under the base. Check that the Natede Smart is not set to automatic or custom mode
The speed of the air flow is weak	Photocatalytic filter	Make sure the photocatalytic filter is clean and there are no soil residues
I filled the tank but the float does not mark the water level	The float could be stuck	Loosen the float, move it up and down to unlock it
The outer pot does not get stuck on the base	The cord on the bottom of the outer jar	Make sure that the cord is correctly positioned in the appropriate groove on the bottom of the external pot

Visit our website for additional issues:




**[vitesy.com/FAQ](https://vitesy.com/FAQ)**

## 07. LED light signals

This short guide helps you understand the meaning of the LEDs from the installation phase to reset:

 x 1	1 quick flash	The device is connected to the mains
	Pulsing - Breathing	The frequency depends on the quality of the air
—	They stop throbbing	The device is off, is in automatic, silent or custom mode with LEDs off
•	Lit and steady	Device selection when connecting

Follow the LED lights pattern while connecting:

	Flashes intermittently	Firmware is not installed on the device. Contact support.
	Flashing from bottom to top	Connecting the device to the WiFi network via the app
	High LEDs blink	The device is downloading the firmware (happens once a day or after a new connection)



