

**Read carefully the instructions contained in this sheet before using your new SunBox device.**

This SunBox device needs an atomizer and one li-ion battery in order to work. Ask your trusted dealer to know which atomizers and battery size are required.

## **GET YOUR SUNBOX DEVICE PREPARED AND HOW IT WORKS**

### **1 – INSTALL THE ATOMIZER**

SunBox device is not equipped with atomizer. Regarding the atomizer use, please refer to the atomizer producer instructions.

**BF AND TANK DEVICES:** Put one of the supplied o-rings into the central compartment of the catch cup. Screw the atomizer into the catch cup. If necessary, adjust the catch cup pin height before installing the atomizer: use the supplied hex key or a flat screwdriver, depending on the pin type, and screw the pin clockwise to lower it, counterclockwise to raise it.

**NOTE:** do not adjust the pin height when the battery is in the device: it could cause short circuits.

**BORO DEVICES:** Remove the front door. Insert the Boro tank with bridge atomizer into the special compartment and reposition the front door. Screw the drip-tip, but not too tight to avoid damaging the contacts.

**FOR BF DEVICES ONLY:** Take out the bottle by sliding it through the bottom opening. Unscrew the bottle cap and fill the bottle with personal vaporizer liquid. Do not fill to the top, leave some space. Screw the bottle cap again and insert the bottle. The correct positioning is when you can hear a light “clack” sound.

**NOTE:** Do not insert into the bottle any liquid which is not for personal vaporizer. Use personal vaporizer liquid only.

### **2 – INSERT THE BATTERY**

SunBox device is not equipped with battery. Regarding the use and the battery charge, please refer to the producer instructions.

To install the battery in the device, unscrew the battery cap and insert one 18650, 18500 or 18350 battery, depending on the SunBox version. The correct position is when the battery negative pole is in contact with the battery cap, and the positive pole is in the opposite position than the battery cap. Screw the battery cap until it makes contact to the negative battery pole. Do not screw too tight.

**ATTENTION: do not insert the battery in the opposite way. Unscrew one turn the battery cap if you will not use the device in the next hours. Do not use batteries that are different from the intended ones. Check that the battery skin is not broken before inserting it into the device.**

### **3 – HOW TO USE THE DEVICE**

Press and keep pressed the fire button during inhalation. Release the button at the end of inhalation.

We suggest to use the fire button lock mode when you carry the device in your pocket or handbag to avoid pressing it accidentally.

**FOR OMEGAVAPER BOMBER DEVICES:** 3 fast clicks to lock/unlock the fire button.

**FOR EVOLV DNA DEVICES:** 5 fast clicks to lock/unlock the fire button.

**FOR DICODES DEVICES:** please refer to the instructions on the brochure you get when you purchase the device.

**NOTE: do not press the fire button if you are not using the device. The device must not be used in any other way than intended.**

## **WARRANTY**

SunBox cannot be held responsible for any damage to property or people caused by use or misuse by user.

Warranty is void if an attempt is made to disassemble, modify or tamper the device in one or more of its parts.

This warranty is valid only for original SunBox products, and before 90 days from the final user purchase date.

Please consult SunBox distributors for further information about warranty.

Warranty is not valid for parts that are not SunBox products, like the circuit or the electronic board. Therefore, SunBox cannot be held responsible for any damage to property or people caused by the use of this device.

## **WARNINGS AND CONTRAINDICATIONS**

Keep the device out of the reach of children and pets.

This product is not recommended for use by minors, non-smoking, pregnant and breastfeeding women, people allergic to nicotine or to other substances contained in personal vaporizer liquids.

This device must be used by experienced users only.

Do not install in the device atomizers or components that are not planned to be used with this device.

Please have this product repaired by official SunBox technicians only. Do not attempt to repair the device by yourself because it can cause damages or injuries.

Do not expose the device to high temperature or humidity because it could get damages. The appropriate operating temperature is between -10° C and 60° C. Keep away from water.

The use of this product can cause damage to health. It is recommended to discontinue use in case of adverse reactions.

Nucleo is the new electronic board completely designed and made in Italy by OmegaVaper. It represents the evolution of its predecessor Aulus and incorporates new important features. It can be used in different operating modes: vari-Watt (from 5 up to 60), vari-Volt (from 1 up to 8), mech simulation and temperature controlled.

## TECHNICAL SPECIFICATIONS



- 0.91" white OLED display - 128x32 pixels
- "soft" button on board (FIRE)
- On board predisposition for external FIRE, UP e DOWN
- Permanent storage of user data
- Three different operating modes:
  - \* Volt-Control: Range from 1.0V to 8.0V with 0.1V step
  - \* Watt-Control: Range from 5.0W to 60.0W with 0.1W step
  - \* Mech-Simulator: Output Volts = Input Volts
  - \* Herb: Range °C (100 - 300) or °F (212 - 572) with 1° step
- Temperature-Control:
  - > Range °C (100 - 300) or °F (212 - 572) with 1° step
  - > 24 coil materials handled + custom TCR configurable by user
- Maximum supply to 22A
- Automatic and manual atom detection from 0.10Ω to 3.0Ω with decimal precision
- Adaptive Booster in 90 configurations
- Supply time limit from 5 to 20 seconds
- Battery Cut-off from 2.7V to 3.5V
- Automatic standby
- Over current protection
- Short out protection
- Reverse battery protection
- Possibility to reset to factory defaults

## MENU

### **1 Power increase**

Select "Power increment". Increase the VOLT or WATT value, depending by operation mode, with step of 0.1 (V/W).  
If the operation mode is MECH this item will not be allowed.

### **2 Power decrease**

Select "Power Decrement". Decrease the VOLT or WATT value, depending by operation mode, with step of 0.1 (V/W).  
If the operation mode is MECH this item will not be allowed.

### **3 Coil monitor and calibration**

Select "Atom Calibration". Wait the coil calibration after a short animation.

### **4 Adaptive Booster®**

Select "Booster". Choose "Enable" to activate the Booster and then choose other options:

- With "Choose the booster intensity" choose a value from 1 to 10.
  - With "Choose the percent of puff time" choose the Booster duration from 5% to 45% of supply time limit.
  - With "Choose Boost Delay in seconds" you select a pause from 0 to 10 seconds between two or more activations.
- Choose "Disable" to turn off the Booster.

### **5 Operation mode**

Select "Operation mode". Choose "WATTS" to supply in WATT. Choose "VOLTS" to supply in VOLT. Choose "MECH" to supply in mechanic emulation. Choose "HERB" for continuous temperature control.

### **6 Temperature control (TC)**

As we explain in the overview, Nucleo allows to stop supply when a specific temperature is reached, independently of the active operation mode.  
Select "Temperature control". Choose "Enable" to activate the TC. Choose "Disable" to turn off the TC.

### **7 Increase the temperature control limit**

Select "Degrees increment". Increase the Celsius or Fahrenheit value with step of 1°. If the TC is inactive, this value will be saved even in memory.

### **8 Decrease the temperature control limit**

Select "Degrees decrement". Decrease the Celsius or Fahrenheit value with step of 1°. If the TC is inactive, this value will be saved even in memory.

### **9 Temperature unit (°C / °F)**

Select "Temperature unit". Choose "CELSIUS" to view values in Celsius (°C). Choose "FAHREN" to view values in Fahrenheit (°F).

## 10 Coil material (TCR)

Select "Coil material". Choose one of them:

Ni200	0.00620	SS430	0.00138
Ni DH	0.007036	NiFe30	0.00320
NiN60	0.00180	NiFe52	0.00400
NiN80	0.00220	NiFe70	0.00520
Tita01	0.00350	Copper	0.0040
Tita02	0.00360	Invar	0.0011
SS304	0.00105	Tungst	0.00450
SS316	0.00088	Platin	0.00392
SS316L	0.00092	NichrM	0.00040
SS317	0.000875	Gold	0.00340
SS317L	0.00094	Iron	0.00500
SS410	0.00155	Silver	0.0038

Choose "OTHER" to setup a custom TCR from 0.0009 to 0.0099.

## 11 Battery protection (Cut-off)

Select "Battery cutoff". Choose the under load safe limit voltage, from 2.7V to 3.5V, below that the MCU need to stop the supply, saving the battery duration.

## 12 Supply time limit

Select "Usage time limit". Choose the supply time limit from 5 and 20 seconds.

## 13 Display brightness

Select "Display brightness". Choose a brightness percentage from 20% to 100%.

## 14 Display orientation

Select "Display orientation". Choose "Left" or "Right" depending by your needs.

## 15 User interface language

Select "User language". Choose one option: "ENGLISH", "ITALIAN" or "FRENCH".

## 16 Factory defaults

Select "Factory defaults". Choose "CONFIRM" to restore Nucleo to factory settings:

Volts limit = 3.5V Watts limit = 13.0W

Cut-off = 2.7V Supply time limit = 16 sec.

Brightness = 100% Temperature control = Disabled

TC limit = 180°C Coil material = Ni200

Booster = Disabled TC unit = Celsius

Booster intensity = 1 Booster time = 5%

Booster pause = 0 sec. Display orientation = Right

Operation mode = WATTS Language = English

Choose "CANCEL" to exit from Menu.

## ERRORS AND NOTIFICATIONS

### ATOMIZER NOT COMPLIANT

No coil was detected or the coil used was outside the range of detectable values (from 0.10  $\Omega$  to 3.0  $\Omega$ ). This notification may also appear even if the coil is connected properly, for example if it is damaged internally, broken or not connected correctly.

### SHORT OUT PROTECTION

This situation is quite serious. It indicates that the system has gone into protection mode after detecting an output short circuit. Check the wiring and the connection of the atomizer.

### PUFF TIME EXCEEDED

This is not just a serious error, but indicates that the output time limit has expired.

### BATTERY LOW PROTECTION

This notification indicates that the battery under load voltage drops below the set safety limit.

### MAX WATT EXCEEDED

This notification occurs in Voltage-Control mode when calculating between set voltage and atoms exceeding the limit of 50W.

### WATTAGE TO LOW

This notification occurs in Voltage-Control mode when the calculation of set voltage and atoms is below the limit of 5.0W.

### MAX VOLT EXCEEDED

This notification occurs in Wattage-Control mode when the calculation between set wattage and atom exceeds the limit of 9.0V.

### VOLTAGE TO LOW

This notification occurs in Wattage-Control mode when the calculation between the set wattage and atom is below the limit of 1.0V.

**TEMPERATURE REACHED**

This protective measure is activated, in temperature-control mode, on reaching the set temperature which, as a result, may indicate a shortage of fluid.

**AMPERAGE EXCEEDED**

This protective measure is effective, in all modes, when the calculation of all the parameters exceeds the maximum output allowed.

**NO  $\Omega$** 

This notification usually switches on your device when no atoms are detected.

**WEAK**

This notification indicates that the battery cannot deliver the power required to achieve the set voltage or wattage.

**Note: by holding down FIRE during the error screen it will be possible to access the service menu directly, without having to make the classic 3 clicks.**

**RECOMMENDATIONS**

In order to preserve the features of this product and to protect the warranty validity, OmegaVaper recommends following these simple instructions:

- Do not supply Nucleo with voltages higher than 5.0 volts.
- Use a single battery, or two in tandem. Do not use two batteries in series, the circuit will be irreparably damaged.
- Do not place the power supply board on metal or conductive surfaces.
- Take extra care to weld cables on suitable surfaces.
- Only use rechargeable Li-Ion batteries purchased from specialized stores.
- Do not keep the power supply card if it has been left unused for long periods.
- The high density of soldered components on the card does not allow for repairs by anyone other than qualified personnel.
- Do not use solvents or water-based liquids to clean the board.
- Any welding operation or removal of the protective layer on the card will invalidate your warrant on the product.
- The use of sub-ohms is recommended only for experienced users, because the use of batteries with less than optimum features may cause the product to become unstable.
- OmegaVaper is not responsible any damage caused by improper use of the product.