

A



1



2



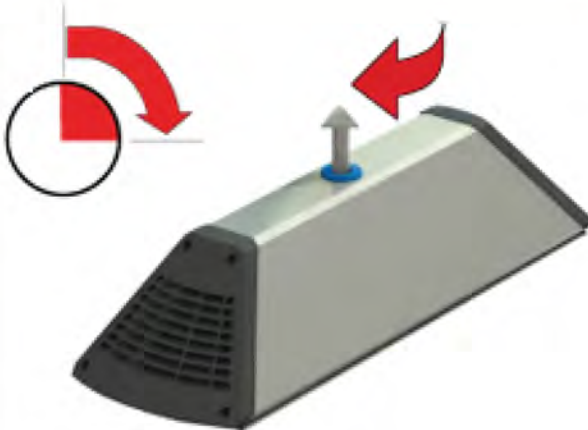
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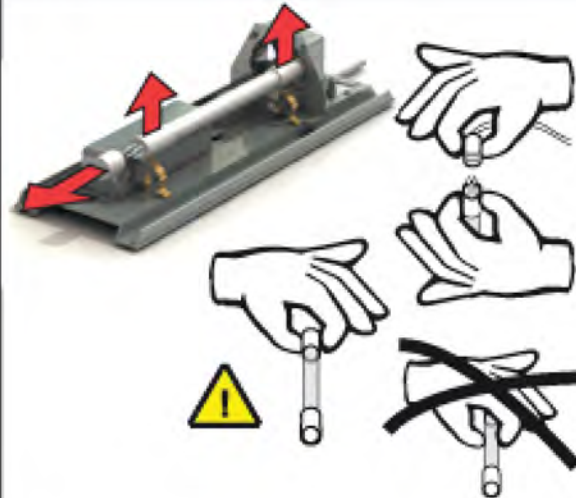
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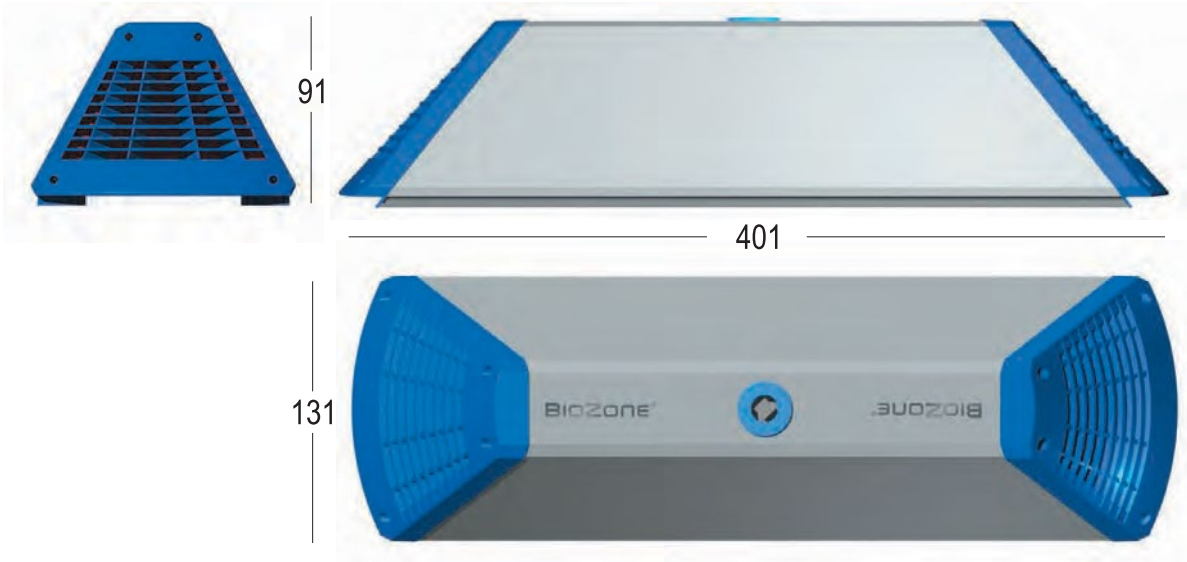


M





BioZone AC 05, 10, 20, 30



Specifications		Caractéristiques techniques	Spezifikation	Tekniset tiedot	Especificaciones	Especificações	Specifiche
ENGLISH		FRANÇAIS	DEUTSCH	SUOMI	ESPAÑOL	PORTUGUÊS	ITALIANO
Size	401 x 131 x 91mm (15.8X5.2X3.6 inches)	Dimensions	Größe	Mitat	Tamaño	Tamanho	Dimensioni
Weight	960g (2.5 lbs)	Poids	Gewicht	Paino	Peso	Peso	Peso
Power cord	4m(13ft)	Cordon	Stromkabel	Virtajohto	Cable de Alimentación	Cabo de Alimentação	Cavo di Alimentazione
Main connector	Country specific	Raccordement au secteur	Hauptleistungsstecker	Virtalaite	Conexión a La Red	Ligação à Rede	Connettore Principale
Power adapter	Not Available	Alimentation électrique	Stromadapter	Virta-adapteri	Adaptador de Corriente	Adaptador de Poder	Adattatore di Corrente
Power inlet	110-240VAC, 50-60Hz	Alimentation électrique	Stromeingang	Virransyöttö	Potencia de Entrada	Potência de Entrada	Alimentazione Elettrica
Power consumption	<16W	Puissance consommée	Stromverbrauch	Virrankulutus	Consumo de Energía	Consumo de Energia	Assorbimento
Operating temperature	20°C - 40°C (68°F - 104°F)	Température de fonctionnement	Betriebstemperatur	Käyttölämpötila	Temperatura de funcionamiento	Temperatura de Operação	Temperatura di Funzionamento
Humidity	0-90% RH non-condensing	Humidité relative	Feuchtigkeit	Ilmankosteus	Humedad	Umidade	Umidità
Air flow	20 lpm	Débit d'air	Luftfluss	Ilmavirta	Flujo de Aire	Fluxo de Ar	Flusso d'Aria
Lamp shelf life	3 years	Stockage de la lampe	Lampe: Lagerbeständigkeit	Lampun varastosäilytys	Vida Útil de La Lámpara	Vida Útil da Lâmpada	Durata di Magazzinaggio Lampada
Lamp life	1 year	Durée de fonctionnement de la lampe	Lampe: Betriebsdauer	Käyttöaika	Duración de Funcionamiento de La Lámpara	Duração de Funcionamento da Lâmpada	Durata di Funzionamento Lampada

Model Specific Data	BioZone AC05	BioZone AC10	BioZone AC20	BioZone AC30	Données spécifiques du modèle	Modellspezifische Daten	Laitekohtaiset tiedot	Datos Especificos del Modelo	Dados Especificos do Modelo	Dati Specifici per Modello
Lamp type	10-08010	10-08025	10-08050	10-08100	Type de lampe	Lampentyp	Lampputyyppi	Tipo de lámpara	Tipo de Lâmpada	Tipo di Lampada
Minimum room sizes (no ventilation)	31m³(333ft³)	42m³(452ft³)	66m³ (710ft³)	147m³ (1582ft³)	Dimension minimum de la pièce (sans ventilation)	Minimale Raumgröße (ohne Ventilation)	Huoneen vähimmäiskoot (ei ilmanvaihtoa)	Tamaño Mínimo de La Habitación (sin ventilación)	Tamanho Mínimo de sala (sem ventilação)	Dimensioni minime dell'ambiente (in assenza di ventilazione)
Standard room (8 air changes per hour*)	3.7m² (40ft²)	5m² (54ft²)	7m² (75ft²)	16m² (172ft²)	Pièce standard (l'air est remplacé 8 fois en 1 heure*)	Standardraum (8 Luftwechsel pro Stunde*)	Standardi huone (kahdeksan ilman vaihtoa tunnissa*)	Habitación Estándar (8 cambios de aire por hora)	Quarto Standard (8 trocas de ar por hora)	Ambiente standard (8 ricambi d'aria per ora)

\*Number of air changes per hour is calculated based on assumption of a restroom with three toilet seats, 90 dm³ per second exhaust ventilation, 16.2 m² floor space, and 2.5m room height.  
\*Die Anzahl der Luftwechsel wird mit den folgenden Annahmen berechnet : Ein WC mit drei Toilettensitzen, 90 dm³ örtliche Absaugung pro Sekunde, 16.2 m² Bodenfläche, und 2.5 m Raumhöhe.  
\*Le nombre de fois où l'air est remplacé est calculé sur une moyenne de sanitaires ( 3 wc assis, 90 dm³ /s, 16,2 m² de surface et hauteur de plafond 2,5 m)  
\*Ilman vaihtojen lukumäärä lasketaan oletus vessasta, jossa on kolme WC-istuinta, 90 dm³/s ilmanvaihto, 16,2m² lattiapinta-ala ja huoneen korkeus 2,5 metriä.  
\*Número de renovaciones de aire por hora se calcula con la suposición de baño con tres inodoros, 90 dm³/s de ventilación de escape, 16,2 m² de superficie y 2,5 m de altura de la sala  
\*Número de renovações de ar por hora é calculado com base no pressuposto de lavatório com três banheiros, 90 dm³/s de ventilação de exaustão, 16,2 m² de espaço, e 2,5 metros de altura da sala  
\*Il numero di ricambi d'aria per ora è calcolato in base a una stanza da bagno con tre water, ventilazione di scarico 90 dm³ per secondo, spazio a terra di 16,2 m² e soffitto da 2,5 m.

Manufacturing material/Materiaux/Herstellungsmaterialien/Valmistusmateriaali/Material/Material/Materiali: Aluminum/aluminium, ASA  
Design/Développement/Conseption/Suunnittelu/Diseño/Desenho/Progetto: BioZone Scientific International, Inc., Linnoitustie 4B, 02600 Espoo, Finland

Specifications and design are subject to change without notice.  
Conception et les spécifications sont sujettes à changement sans préavis.  
Spezifikations- und Designänderungen sind vorbehalten.  
Oikeudet teknisiin muutoksiin pidätetään.  
Las especificaciones y diseños son sujetos a cambios sin previo aviso.  
As especificações e desenhos são subeitos a alteração sem aviso prévio.  
Le specifiche sono soggette a modifica senza preavviso.



# BIOZONE AC OWNER'S MANUAL

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## General

When correctly installed and properly used, BioZone AC enables an odour-free, hygienic and altogether pleasant environment.

- BioZone AC does not mask odours with chemicals such as those utilized in deodorisers – it actually removes the odours
- BioZone AC significantly diminishes bacteria and other harmful microorganisms on surfaces and in the air

BioZone AC is the result of extensive research and sustained product development. Indeed, BioZone Scientific International Inc. has more than a decade of experience in designing and manufacturing its products.

- It has been demonstrated that BioZone AC is highly effective and safe to use and fully complies with the criteria of the world's most respected certification bodies. Certificates issued to this effect are listed in the Certifications section of this manual.
- Every BioZone AC unit has undergone a strict quality-control regime. However, should the unit malfunction, follow the instructions in the Troubleshooting section of this manual. If the problem persists, please contact your local distributor.
- BioZone products are designed to be user-friendly with a high degree of functionality ease of operation and simple installation the primary considerations. User feedback is important for the continuous development of our products. We value your opinion and would greatly appreciate your feedback at email address: [info@biozonescientific.com](mailto:info@biozonescientific.com)

For more information, visit our home page at [www.biozonescientific.com](http://www.biozonescientific.com) and discover

- BioZone solutions for other applications such as garbage rooms, ice-machines etc.
- Contact information for importers and distributors

## BioZone technology

As air enters the BioZone unit, it is channelled into the air purification chamber. In the chamber, the air is exposed to intense levels of germicidal, ultraviolet light that destroys micro-organisms. The powerful wavelengths contained in the UV-light react with the gaseous contents of the air to produce a purifying plasma that contains reactive oxygen species such as atomic oxygen, hydroxyl radicals and ozone, which destroy bacteria, viruses, fungi, yeast, mould, algae, and other harmful micro-organisms (as well as unpleasant odours).

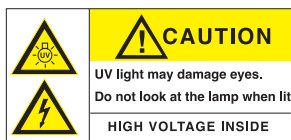
## Warranty

Please see the attached warranty card, if included, or contact your local distributor.

The provisions of this warranty are in lieu of any other written warranty, whether expressed or implied, written or oral, including any warranty of merchantability or fitness for a particular purpose. The manufacturer's maximum liability shall not exceed the actual purchase price paid by you for the product. In no event shall the manufacturer be liable for special, incidental, consequential or indirect damages. This warranty does not cover a defect that resulted from improper or unreasonable use or maintenance, accident, improper packing, or unauthorised tampering, alteration or modification as determined solely by us. This warranty is void if the label bearing the serial number has been removed or defaced.

## Operational Safety:

Operation and maintenance of this device should only be carried out by qualified technicians and persons appropriately trained or supervised in its use. It is not intended for use by persons under the age of 8 or by persons with reduced physical capabilities.



## Installation

ATTENTION! Installation must be carried out by a maintenance mechanic or appropriately qualified person only.

### Unit components (Illustration A)

- a. Cover
- b. Locking shank (also functions as an ON/OFF switch)
- c. Fan
- d. Lamp element
- e. Base-plate
- f. Power cord
- g. Key
- h. Screw (4)
- i. Rubber spacer (4)
- j. Power plug

### Before installation

Inspect the device for damage that may have occurred during transportation. If the unit has been damaged, do not connect it to the power supply or try to use it otherwise. In the event of damage, immediately inform the dispatcher or retailer. Check that the aforementioned components are included in the package (some are inside the device). In the event that something is missing, contact your supplier.

### Installation location

The BioZone AC device must be installed

- on a wall or ceiling at a height of approximately 2 metres (7 feet)
- in a place where the air moves freely into and out of the device
- in a place where it most effectively removes impurities from the air
- such that it does not blow directly onto the face
- such that it is within easy reach of the power-supply outlet

To gain maximum benefit from your BioZone AC device, install it close to a fan or to the incoming air vent. In this way the purifying plasma will be mixed most effectively with the air in the room.

### Installation instructions for versions with plugged cables

#### Step 1

Ex-factory, the device is locked by default. To open the cover, insert the key and rotate it a quarter turn in an anticlockwise direction. Remove the key.

#### Step 2

The cover is firmly attached to the base-plate. To remove it, insert a broad screwdriver or similar tool between the cover and base-plate and gently but firmly prise off the cover. The electronic components remain attached to the base-plate when the cover has been removed.

#### Step 3

It is important that the cable is connected to the device before mounting the unit and to ensure that the cord is within easy reach of a power-supply outlet. However, do not connect the power cord to the power outlet at this stage!

For mounting, there are four screw holes on the base-plate. The mounting kit comprises four screws and four rubber spacers to dampen resonance. Before fastening the screws, insert the spacers between the base-plate and the wall or ceiling.

To maximise efficiency, the outflow end (the one with the fan) of the unit should be installed as close as possible to the ventilation shaft for the incoming air flow. The arrow in the illustration indicates the direction of the air flow.

#### Step 4

Ensure that the lower end of the locking shank is lengthwise so that it fits neatly into the hole in the base-plate and press down the cover to close it.

#### Step 5

Insert the key, turn it a quarter turn in a clockwise direction and remove it.

#### Step 6

Connect the power cords grounded plug to an appropriate power supply outlet. The device will start-up and the indicator light will turn on.



# Installation instructions for versions with no plug

## Step 1

Ex-factory, the device is locked by default. To open the cover, insert the key and rotate it a quarter turn in an anticlockwise direction. Remove the key.

## Step 2

The cover is firmly attached to the base-plate. To remove it, insert a broad screwdriver or similar tool between the cover and base-plate and gently but firmly prise off the cover. The electronic components remain attached to the base-plate when the cover has been removed.

## Step 3

For mounting, there are four screw holes on the base-plate. The mounting kit comprises four screws and four rubber spacers to dampen resonance. Before fastening the screws, insert the spacers between the base-plate and the wall or ceiling.

To maximize efficiency, the outflow end (the one with the fan) of the unit should be installed as close as possible to the ventilation shaft for the incoming air-flow. The arrow in the illustration indicates the direction of air flow.

## Step 4

Ensure that the lower end of the locking shank is lenthwise so that it fits neatly into the hole in the base-plate and press down the cover to close it.

## Step 5

Insert the key, turn it a quarter turn in a clockwise direction and remove it.

## Additional Guidelines for no plug version direct mains installation

For Permanent Connection to the Mains Supply, NOTE that Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provides full disconnection under overvoltage category III must have a means for disconnection that is incorporated in the fixed wiring in accordance with the wiring rules.

Install the unit so the power can be disconnected before removing the cover for service.

The unit is not internally fused ,therefore, the mains supply circuit must be fused.

The unit is intended to operate continuously. Insure the power supply is continuous and cannot be unintentionally switched off.

The un-terminated AC power cord installed on the unit conforms to the following IEC standard wire color coding:

The unit's electrical connection to the mains supply must be done according to national and local electrical codes by a qualified electrician.

## Wire Guide



**Neutral**

**Blue**

**Protective Earth**

**Yellow-Green**

**Line**

**Brown**



**WARNING:** These procedures should only be performed by a qualified electrician according to national and local electrical codes. Supply power should be turned off when replacing components or checking connections. Never perform maintenance or cleaning while fixture is energized

## Maintenance instructions

**CAUTION!** Disconnect the device from the power-supply network before cleaning or servicing.

Maintaining the unit is easy. The only serviceable/changeable component is the UV-lamp. If the device is located in a dusty or smoke-filled area, it is recommended that the lamp be cleaned every three months. This will significantly lengthen the life of the lamp. The lamp must be changed once a year in order to ensure maximum functionality and efficiency.

**ATTENTION!** The UV-lamp must be allowed to cool down before cleaning.  
**ATTENTION!** The lamp must be replaced by a maintenance mechanic or appropriately qualified person.

**CAUTION!** When servicing, disconnect the unit from the power supply. Avoid touching the lamp's glass element.

Handle the lamp by its white end caps only

This UV-lamp is intended to produce photoplasma and is not suitable for illumination.

### Cleaning and changing the lamp

1. Disconnect the power supply to the device
2. Open the unit in accordance with the installation instructions in this manual
3. Ensure that the lamp has cooled down. Extract the lamp from its retaining clips (see illustration M). When handling the lamp, avoid touching the glass element with exposed fingers.
- 4a. Cleaning the lamp: Clean the lamp with a soft cloth and an appropriate cleansing solvent (i.e. isopropyl alcohol). Reinsert the lamp.
- 4b. Changing the lamp: Insert a new lamp (see technical specifications in this manual for correct lamp type). Use only a new BioZone Scientific International lamp (using other lamps will void the warranty).
5. Close the unit in accordance with the installation instructions in this manual.
6. Connect the power.
7. When the lamp has been replaced, dispose of the old lamp in accordance with local regulations pertaining to hazardous waste disposal. UV-lamps contain small traces of mercury.

### Troubleshooting

In the event that the undermentioned instructions do not solve the problem, contact your supplier.

1. The fan works, but the lamp is not on
  - a. Check that the lamp is properly inserted into its socket
  - b. The lamp may be defective. Replace the lamp with a new one
2. The lamp and the fan do not function
  - a. Check that the device is plugged in
  - b. Check that the power outlet functions properly
  - c. Check that the power chord is undamaged
  - d. Check to see if the locking shank (which also functions as an ON/OFF switch) is fully turned and properly engaged.
3. The airflow is weak
  - a. Check to see if the grill is clogged with dust or debris
  - b. Check for blockages to the incoming or outgoing air flow
  - c. Check that the fan functions properly

### Disposal/recycling

BioZone Scientific International is an ISO-14001:2004-compliant company and is committed to environmental sustainability.

#### Packaging

Packing materials can be recycled. In the interest of environmental protection, dispose of these materials properly.

#### The unit and UV-lamp

If your BioZone AC needs to be disposed of, do so in accordance with the instructions pertaining to standard electrical equipment. UV-lamps contain small traces of mercury. Old, defective or broken lamps must be disposed of in accordance with laws related to the disposal of hazardous waste.

### Certificates

230V version



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