

## AIRBIO® instructions | Introduction



The AIRBIO/APABIO process enables an airborne disinfection of surfaces in rooms between 10 and 300 m<sup>3</sup>. The process is therefore based on two parts, the AIRBIO machine and the APABIO agent. The AIRBIO machine sprays the APABIO agent into the atmosphere thanks to compressed air. Then, a nozzle mixes and sprays the product in micro-droplets in order to overflow the whole room to disinfect.

This disinfection system has a built-in control and safety disposal, developed by IBL SPECIFIK, which uses the **(RFID)** « **Radio-frequency identification** » technology, complying with the which the NFT 72-281 standard (may of 2009) about the non-dissociation of the biocidal product from the machine.

The AIRBIO machine weights around 18kg, so that it can be easily carried by hand or on a trolley.

## AIRBIO® Instructions | Conditions of use



The AIRBIO/APABIO process is entirely automated. The disinfecting operation has to be carried out without human presence. The volume of the room to disinfect must be hermetic (so that no trace of the product can penetrate the other rooms) and between 10 and 300 m<sup>3</sup>.

Besides, the user should make sure that the equipment and furniture inside the room is actually compatible with the APABIO disinfecting agent (list of compatibilities in appendix).

Required conditions for an optimum efficiency:

Temperature: 22 °C      Relative humidity: 70%

## AIRBIO® Instructions | Technical data



Weight	18 kg
Power	230V / 370W
Breakdown monitoring	Product level control Clogged up nozzle Clogged up pump
Product flow	20 mL / min
Max. room volume	300 m <sup>3</sup>
Max. spraying time	2h30
Structure	Stainless steel 316L 2mm

## AIRBIO® Instructions | The AIRBIO/APABIO use protocol

**Careful! The surfaces to disinfect must be cleaned before the use of this process.  
Using the AIRBIO/APABIO process must respect 4 steps:**

### •Step 1: Pre-conditioning

Place the machine inside the room to disinfect, according to IBL Specifik's prescriptions after a preliminary aerolic and thermic study.

Draughtproof the room's openings. Program the disinfecting cycle (see instructions).

Block the physical access to the room with a specific board « Disinfection in process, do not enter.

### •Step 2: Spraying

Spraying time depends on the volume of the room.

### •Step 3 : Contact time

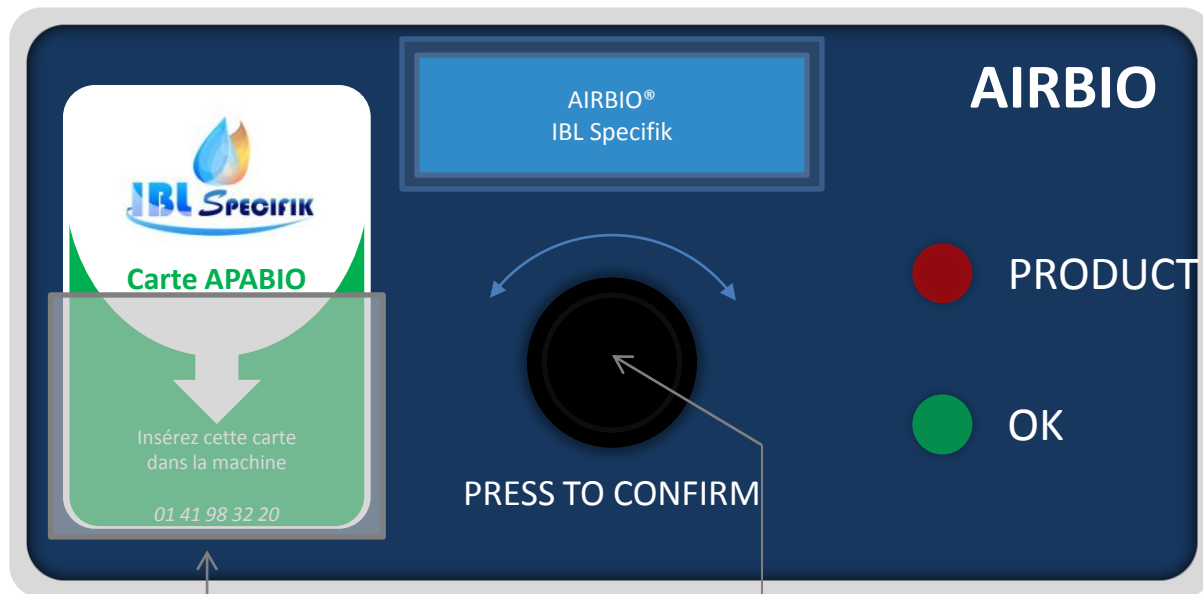
A 2-hour contact time is necessary in order to guarantee optimum results close to the ones obtained during our lab tests which comply with the NFT 72-281 standard requirements.

### •Step 4: Ventilation

The room must be ventilated until the occupational exposure limit is reached and the hydrogen peroxyde level is acceptable (under 1ppm of H<sub>2</sub>O<sub>2</sub>). Since the ventilation time depends on the disinfected volume and on the ventilation power, IBL Specifik undertakes a preliminary test during the first disinfection, in order to set up the duration of the ventilation.

## AIRBIO® Instructions | Front panel

LCD Screen / Instructions



PRODUCT



LACK OF PRODUCT



OK



SPRAYING IN PROCESS

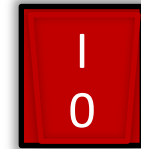
APABIO card space

Control button  
Right/left/enter

## AIRBIO® Instructions | Start up 1 and 2

*Careful! This machine runs only on 230V / 50Hz power.  
For any use with 110V / 60 Hz, please contact us,*

- 1 Plug the power cable on a 230V / 50Hz socket.
- 2 Switch the ON button.



*The LCD screen lightens and a first message appears :*



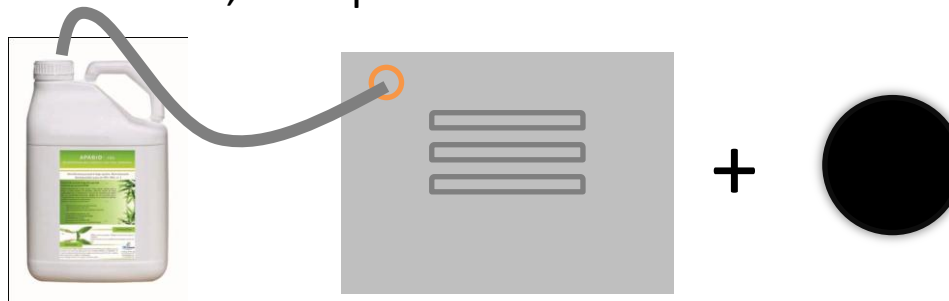
## AIRBIO® Instructions | 3.1 Connect to the disinfecting bottle

*Wait 3 seconds for the following message to appear on screen:*

```
Product pipe  
APABIO connected?  
-> YES
```

3

Connect the pipe from the disinfecting bottle to the back of the machine, then press enter with the black button.



## AIRBIO® Instructions | 3.2 Insert the APABIO card

You will find an APABIO card around the bottle handle. Take it off its pouch and insert it on the front face of the machine as below:





## AIRBIO® Instructions | 3.2 Insert the APABIO card



The APABIO card records the spare product level in the bottle (RFID system). When the user chooses the volume to disinfect, the machine calculates the quantity of product needed and checks if the product is in the bottle, thanks to the APABIO card.


This security system makes sure there is enough product to perform the entire disinfection cycle.

If the security system detects that the quantity is too short for the chosen cycle, the machine does not start up and the system suggests to the user to change the bottle of product and insert a new card.

## AIRBIO® Instructions | 4. Choose your mode, free or scheduled

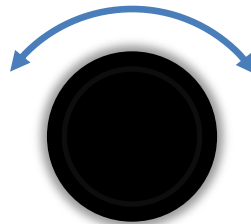
- Choose Volume : you select your volume manually (between 10 and 300 m3)
- Choose Room: you select your pre-programmed room with its matching volume

*A new message appears on the screen:*




Choose Volume ?  
-> YES  
Choose Room ?  
NO

1



2



Choose Volume ?  
NO  
Choose Room ?  
-> YES

3

4

Choose your mode by turning the black button right or left,  
then press enter

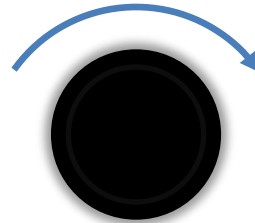
## AIRBIO® Instructions | 5.A) Choose your volume in the free mode

*If you choose « Choose Volume », a new message appears on the screen:*

R o o m V o l u m e ?

5 0 m 3

^



R o o m V o l u m e ?

6 0 m 3

^

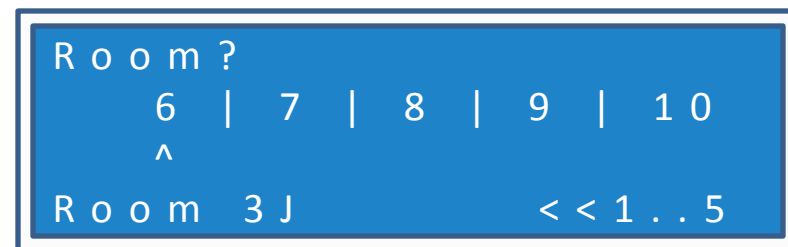
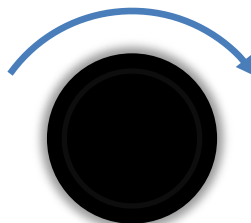
5 A

Select your volume by turning the black button right  
(to choose bigger volumes) or left (to choose smaller volumes).  
The slot goes from 10 to 300 m3.

Press to confirm

## AIRBIO® Instructions | 5.B) Choose the volume on the scheduled mode

*If you choose « Choose Room », a new message appears on the screen:*



5 B

Select your room by turning the black button right or left. To go from 1 to 5 rooms to 6 to 10 rooms, turn right after the room 5. To come back to the rooms 1 to 5, turn left after the room 6.

Once you have selected the room, press the black button to enter.

## AIRBIO® Instructions | 6. End of programming

*After you have chosen the room or the volume, a new message appears:*



Leave the room...  
30s

Leave the room...  
29s

- 6 You have finished to program the machine, you must absolutely quit the room before the disinfecting cycle begins. A 30-second time discount enables you to leave the premises quietly. We advise to hang up a board on the room's door « Disinfection in process, do not enter ».

## AIRBIO® Instructions | Disinfecting process initialization

Careful! This step is related to the program proceedings without human presence during the disinfection cycle

*At the end of the 30-second time discount, the initialization step begins and lasts 50 seconds.*

Initialization  
50 s




Initialization  
49 s

...

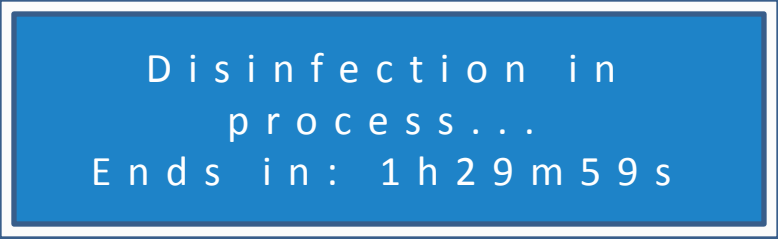
## AIRBIO® Instructions | Disinfection cycle

Careful! This step is related to the program proceedings without human presence during the disinfection cycle

*At the end of the 50-second time discount of the initialization step a new message appears on the screen:*



Disinfection in  
process...  
Ends in: 1h30m00s



Disinfection in  
process...  
Ends in: 1h29m59s

...

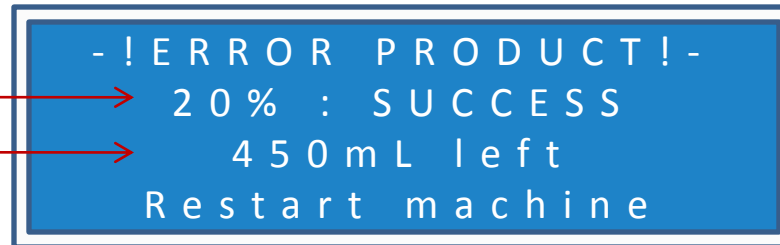
## AIRBIO® Instructions | Error message when lack of product

**Careful! This step is related to the program proceedings without human presence during the disinfection cycle**

*If, during disinfection, there is not enough product, or if the nozzle or the pump is clogged up, an error message and a red light appear and a buzzer rings out*

Indicates the rate of successful spraying

Indicates how much product (in mL) was not sprayed



**Careful! To enter back into the room, you must wear your Specific kit**

**||| Whole mask + hazmat suit + gloves |||**

**You must refill the product, insert a new APABIO card and then restart the machine to begin a new disinfection process.**



## AIRBIO® Instructions | End of the disinfecting cycle

Careful! This step is related to the program proceedings without human presence during the disinfection cycle

*When the disinfecting cycle is over, a message appears on the screen:*



Once the spraying is over, the disinfecting agent should act during 2 hours.  
This contact time is compulsory.

## AIRBIO® Instructions | Maintenance and guarantee

The AIRBIO machine and its spare parts are guaranteed during 1 year from invoice date. According to the frequency of use, IBL Specifik advises an annual number of returns of the machine to the factory in order to make sure it is running out smoothly and to replace wear items.

The AIRBIO machine should be stored in a dry place when the temperature stays 10 and 30°C.