

Version C
06/10/2016

NOCOMAX EASY



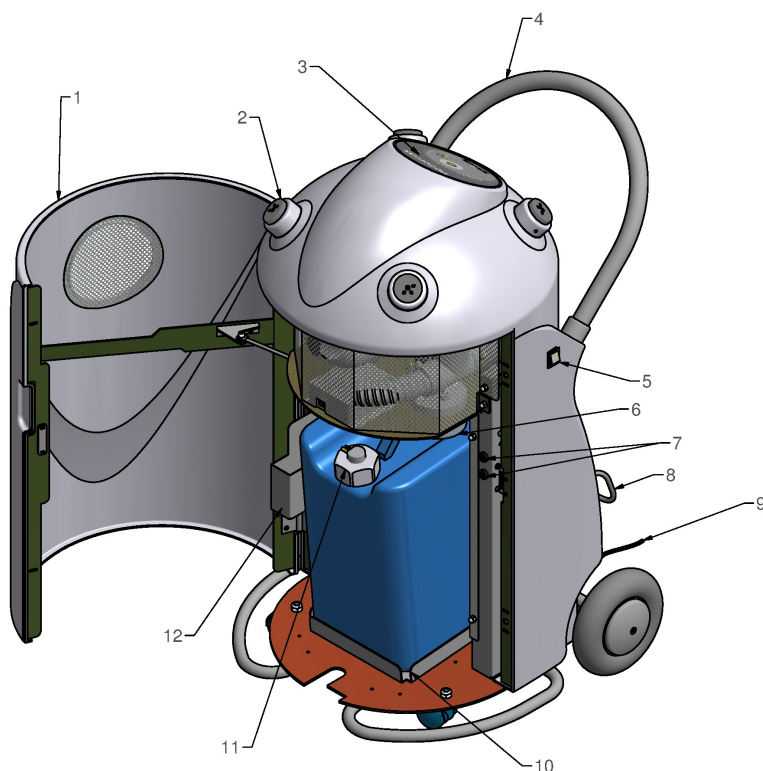
OXY'PHARM

829 rue Marcel Pau
94500 Champigny-sur-Marne
commercial@oxypharm.net
T: +33 1 45 18 78 70

www.oxypharm.net



I – PRESENTATION OF THE UNIT



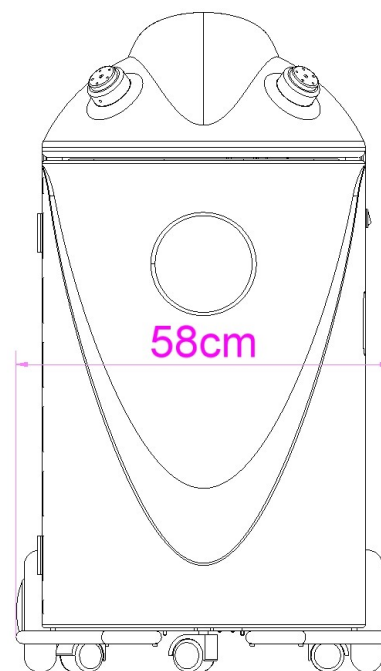
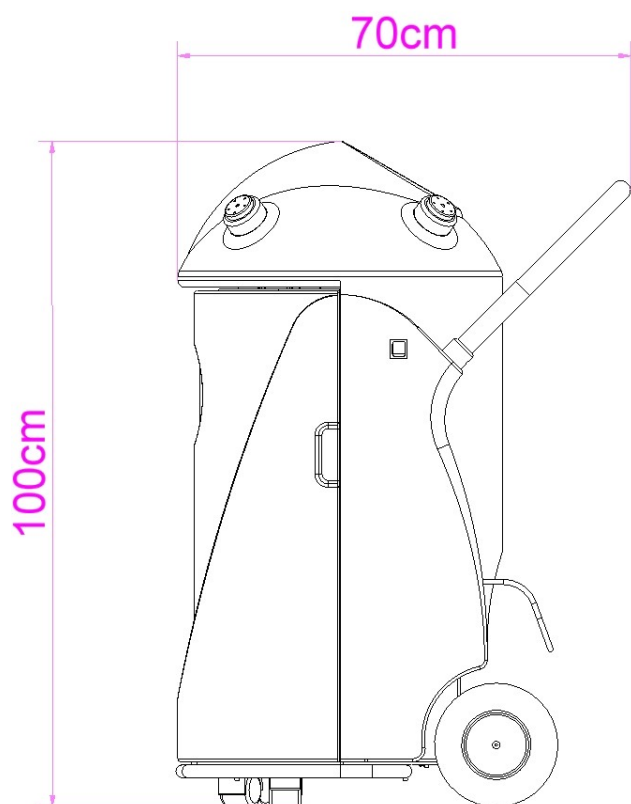
- 1 – Door
- 2 – Venturi nozzle
- 3 – Screen
- 4 – Handle
- 5 – On/Off switch
- 6 – Buffer tank
- 7 – 6.3x32 16A time-lag fuse
- 8 – Cable spooler
- 9 – Power cord (10m)
- 10 – Tank holder
- 11 – Tank cap
- 12 – Test mounting

CHARACTERISTICS

Power	2000 W
Voltage	230 V mono +E
Frequency	50 - 60 Hertz
Ampere rating	9.5A
Maximum current	16A
Impeller rotation speed	22000 rpm
Tank capacity	20 litres
Fully-loaded weight	64.4 kg
Weight empty	43.4 kg

PERFORMANCES

Air flow rate	80 m/sec
Maximum volume to be treated	20000 m ³
Average liquid flow rate	6 l/hr



GENERAL:

- Type: Diffuser
- Index of protection: IP10
- Storage temperature 0°C - 50°C
- Operating and storage humidity 25% - 75%
- Electrical classification: Class 1
- Do not use in presence of an inflammable anaesthetic mixture
- Intermittent service

SAFETY SYMBOLS:



Refer to instructions for use



Protective earth

II – PRECAUTIONS FOR USE



The manufacturer cannot be held liable for any material or bodily accident which may occur due to incorrect or abnormal use of the unit, including, but not limited to, the examples given below:

- failing to use only OXY'PHARM® products,
- “WARNING” To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- “WARNING” No modification of this equipment is allowed.

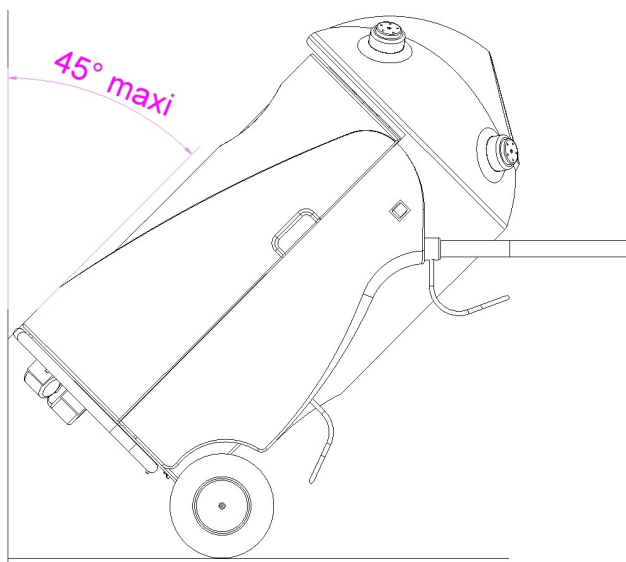
III - TRANSPORT AND HANDLING



When the unit is being used, **never tip it at more than 45°**. It contains hydrogen peroxide.

If this should happen, remove the tank and drain the buffer tank.

MAXIMUM ANGLE



This device diffuses a chemical. Consequently it is essential to:

- **Avoid inhaling the product,**
- **Avoid directing it towards an area of flame or red heat,**
- **Avoid smoking in its vicinity,**
- **Avoid remaining in the room during the diffusion**
- **Handle the tank with care.**

IV - USE

Installing the tank

Warning!!!

The product contains hydrogen peroxide, and this operation must be undertaken with care.

1. Open the door,
2. Place the tank firmly on the carriage,
3. Open the tank and screw the cap (11) down tightly,
4. Close the door.

Position in the room

The unit can treat rooms between 500 m³ and 20000 m³.

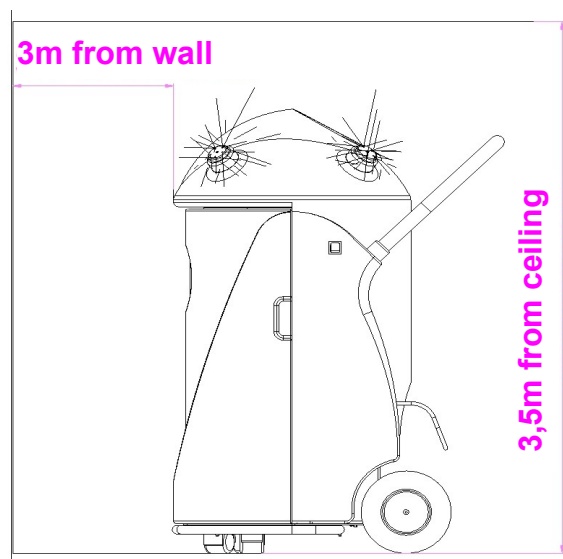
It should be positioned in the centre of the area to be treated as far as possible.

Warning!!!

Before starting a cycle, check that there are no obstacles within 3 metres of the machine (3.5 metres minimum ceiling height).


Over time the concentrated spray would drip on the obstacle.

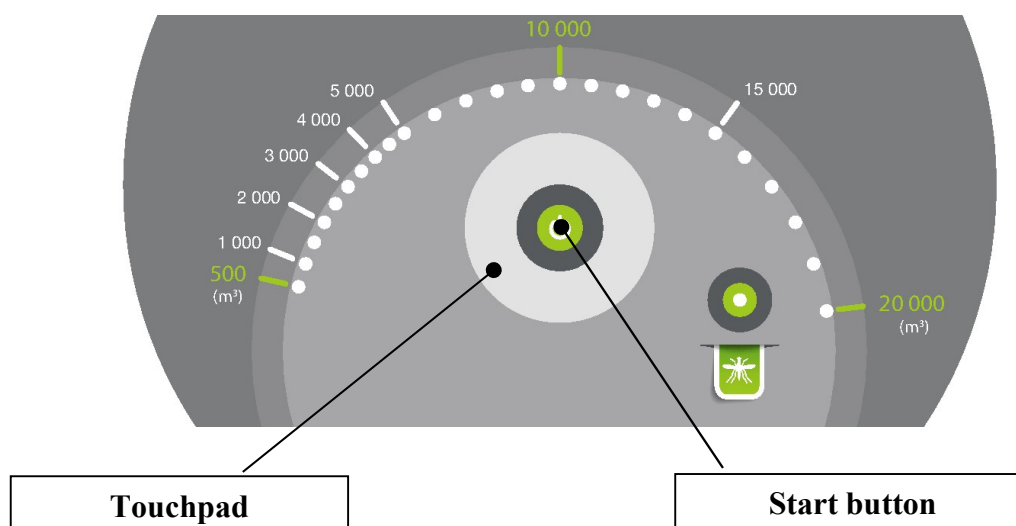
MINIMUM DISTANCES FROM WALLS AND CEILINGS



Operating in « manual » mode

**Before starting any treatment,
check that there is enough product in the can**

1. Turn on the main switch (5).
2. Set the volume to be treated using the touchpad located around the start button (cf. drawing) : turn with the finger in clockwise direction up to the volume to be selected.
Leds gradually light up.
3. Press 'start button' in the centre. 
4. The appliance starts after 30 seconds (there's a beep sound during these 30s so to have enough time to leave the room before diffusion)



NB :

The Leds turn off gradually as the treatment progresses.

If quantity of product is insufficient to treat the required volume, the Leds will flash where treatment stopped.

Operating in timer mode

This mode enables to use NOCOMAX EASY with a timer or a remote control plug.

1. Switch on the device- main switch (5) on position « I »
2. Set the volume using the touchpad and turning with the finger in clockwise direction up to 20 000m³ and continue with at least 3 full turns. 20000 Led stay lighted.
3. Then set the volume to be treated by turning in counterclockwise direction up to the required value.
4. Switch off the device – main switch on position « 0 ».

Timer mode is then activated.


NOCOMAX EASY will start as soon as main switch will be on position « I ».

Important :

If a timer is used, make sure that the duration set on the timer is bigger than the one set on the device.

Change of volume

To change the preset volume, you need to :

1. Switch on the device – main switch (5) on position « I ».
2. The device beeps. That means it will start in 1 minute.
3. Press on Start button to stop the bip A circular button with a green power symbol in the center.
4. Set the required volume a
5. Switch off the device – main switch on position « 0 ».

Insecticide treatment button:

For insecticide treatment use only

The running time increases by 20% when the insecticide treatment button is pressed (either before or after the volume setting)



In the event of problems, check:

6. That the cap (11) is in place
7. The leak tightness of the cap (11) tube: cuts or damage etc
8. The cleanliness of the nozzles in the buffer tank (6): using a needle or a 0.5mm Ø piano wire, check that they are not blocked.
9. That the buffer tank is screwed fully in place.

Warning!!!

The buffer tank (6) contains hydrogen peroxide and must be handled with care

If the unit does not start:

10. Check the mains plug connection (9),
11. Check that the on/off switch (5) is in position 1,
12. Check the fuses (7).
To do so, unplug the mains cable, open the fuse doors using a screwdriver by unscrewing a quarter turn while pressing.
Replace any blown fuses with identical fuses (6.3x32 16 amps time-lag fuses)

Contact your dealer if the problem persists.

V - SERVICING

The unit should be kept in a clean, dry place.

If necessary the filter foam should be cleaned or replaced.

VI – MAINTENANCE

Servicing includes:

13. Checking that the unit is operating correctly,
14. Check the filter status,
15. Cleaning of the buffer tank,
16. Inflate tires (2.5 bar max).

VII - SELECTOR OPERATION

With disinfection products and $1\text{ml}/\text{m}^3$
 → 1 hour diffusion = 6 litres of product = 6000 m^3 treated

Volume to be treated (in m^3)	Consumption (in L)	Duration of diffusion (in min)
500	0.5	0 :05
1000	1	0 :10
2000	2	0 :20
3000	3	0 :30
4000	4	0 :40
5000	5	0 :50
6000	6	1 :00
7000	7	1 :10
8000	8	1 :20
9000	9	1 :30
10000	10	1 :40
11000	11	1 :50
12000	12	2 :00
13000	13	2 :11
14000	14	2 :21
15000	15	2 :31
16000	16	2 :41
17000	17	2 :51
18000	18	3 :01
19000	19	3 :11
20000	20	3 :21

VIII - EMERGENCY STOP

The unit can be stopped at any time by pressing on the start button




INSTRUCTIONS FOR USE



EMC Compliance according to IEC 60601-1-2 (2007)			
The NOCOMAX is intended for use in the electromagnetic environment specified below.			
The customer or the user of the NOCOMAX should assure that it is used in such an environment.			
Emission test	Standard	Compliance	Electromagnetic environment
Emissions RF	CISPR 11	Group 1	The NOCOMAX uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Emissions RF	CISPR 11	Class A	The NOCOMAX is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonics emissions	IEC 61000-3-2	Class A	
Voltage/Flicker test	IEC 61000-3-3	Comply	
The NOCOMAX is intended for use in the electromagnetic environment specified below. The customer or the user of the NOCOMAX should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment
Electrostatic discharges IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical Fast Transients IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to ea	± 1 kV line(s) to line(s) ± 2 kV line(s) to ea	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5 s	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the system requires continued operation during power mains interruptions, it is recommended that the system be powered from an uninterruptible power supply or a battery. U_T is the a.c. mains voltage prior to application of the test level.
Magnetic field at power frequency IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

INSTRUCTIONS FOR USE

Conducted RF IEC 61000-4-6	3 Vrms 150kHz-80MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the NOCOMAX, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance : $d = 1,67.\sqrt{P}$
Radiated RF IEC 61000-4-3	3V/m 80MHz-2.5GHz	3V/m	$d = 1,67.\sqrt{P} \text{ 80MHz-800MHz}$ $d = 2,33.\sqrt{P} \text{ 800MHz-2,5GHz}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey (a) should be less than the compliance level in each frequency range (b)</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
(a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the NOCOMAX is used exceeds the applicable RF compliance level above, the NOCOMAX should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the NOCOMAX. (b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.			

Recommended separation distances between portable and mobile RF communications equipment and the NOCOMAX.			
The NOCOMAX is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the NOCOMAX can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the NOCOMAX as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150kHz to 80MHz	80MHz to 800MHz	800MHz to 2.5GHz
0.01	0.117	0.117	0.233
0.1	0.369	0.369	0.737
1	1.167	1.167	2.330
10	3.690	3.690	7.368
100	11.67	11.67	23.300
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

WARRANTY

The customer must keep a copy of this NOCOMAX EASY Diffuser warranty certificate.

It should be sent to the dealer or to OXY'PHARM (829 rue Marcel Paul – F-94500 Champigny-sur-Marne) as proof of the warranty.

The dealer must retain the other copy.

WARRANTY CLAUSES

The following provisions do not exclude the holder from benefitting from the legal guarantee provided by articles 1641 et seq of the French Civil Code regarding hidden defects.

SUBJECT OF WARRANTY:

The warranty consists in the supply without charge of parts which our technical services have recognised as defective.

The exchanged parts become the property of the Company.

The warranty cannot apply to repairs required following errors in handling, abnormal use, and negligence or overloading of the unit, or to repairs required due to variations in the electricity supply, voltage overloads or defective electrical installations etc.

In the same way, the warranty becomes void if persons not employed by company OXY'PHARM undertake repairs and/or work on the unit. The unit's seals must remain intact.







































Moreover, the warranty will also be void if abnormal corrosion of the flexible parts, hoses, seals etc is observed, meaning that another liquid has been used.

TRANSPORT:

The equipment travels at the user's own risk. If damage occurs during transport the recipient must make the required reservations to the haulier before taking possession of the unit.

PERIOD OF WARRANTY:

The NOCOMAX EASY diffuser is guaranteed for a period of **2 years**, with effect from the date of invoice.

MADE IN FRANCE														
														
             														
<div style="text-align: center;"> WARRANTY CERTIFICATE FOR NOCOMAX EASY DIFFUSER </div>														
<div style="text-align: center;"> CUSTOMER COPY </div>														
<div style="text-align: center;"> Type of unit: SN instabilities </div>														
<div style="text-align: center;"> Equipment manufactured by company OXY'PHARM is of best quality and of proven manufacture. We undertake to guarantee any equipment or manufacturing defect for a 2 year period. </div>														
                                                                                                               														



**829 rue Marcel Paul
94500 Champigny-sur-Marne
FRANCE
Tel : +33.1.45.18.78.70
Email : info@oxypharm.net**