

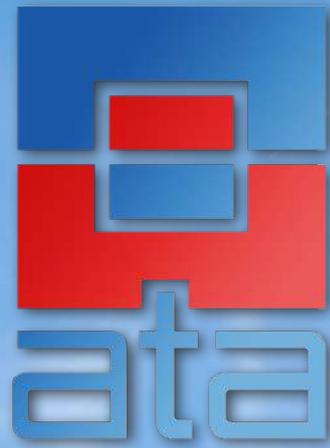


HYGIENIC AIR QUALITY EXPERT



DOPair

MOBILE UNIT FOR AIR DECONTAMINATION



HOW ARE WE ?

Since 1987 ATA has gained rich experience in designing and marketing air handling units for all areas where infection risk tends to occur. ATA proposes a range of hygienic products which corresponds to all requirements of hospital and industrial sectors.

ATA's solutions are developed by an engineering department having more than 20 years of expertise.

Continuous cooperation with university research centers in France keeps ATA on top of emerging technologies.

Services offered by ATA, such as audit, technical assistance and training, ensure its users get the most from their new equipment.

QUALITY

Our management and organization system is certified ISO 9001 version 2015.

We ensure that each product:

- ▶ Is tested at our factory before shipping.
- ▶ Consists of components carefully selected according to quality and performance requirements.
- ▶ Can be installed on the site by a qualified technician respecting all our protocols.
- ▶ Has a unique serial number allowing traceability during its life cycle International.

WORLDWIDE

ATA makes about 40% of its turnover abroad, with a network of distributors in more than **30 countries**, and thanks to the support of a **solid reputation** in the hospitals, clinics and archives of France



DOPAIR / COOL DOPAIR

This solution does not need any installation work to meet the requirements regarding air treatment of risk areas in hospitals. Instantly operational, Dopair can reach performances expected for ISO 6 and ISO 7 areas (NF EN ISO 14644-1)

CLINICAIR

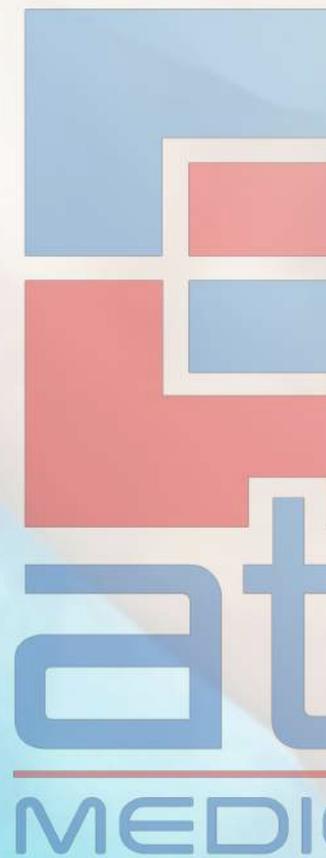
The Hygienic air handling units CLINICAIR are designed and developed to maintain, with **accuracy and continuity**, air quality conditions in terms of particles, **bacteriological class, temperature, humidity, pressure in areas** where air contamination control is a major issue.

LAMINAR AIR FLOW CEILINGS

The LAF Ceilings range provides **effective protection** against the risk of contamination during invasive acts, caused by **inert and live particles** suspended in the air.

CTMP

CTMP protects the patient or the external environment from any **cross contamination** that could occur during land or air transportation. It can operate with negative or positive pressure mode and thus can **be used more extensively within the hospital**.



DOPAIR® – GENERAL OVERVIEW



Dopair® is a **mobile solution for air purification**. With its high-performance filtration, it is excellent for air decontamination in hospital risk areas.

Instantly operational, it does not need any alteration work for its implementation and enables you to attain expected levels in sensitive areas, risk 2 or 3.

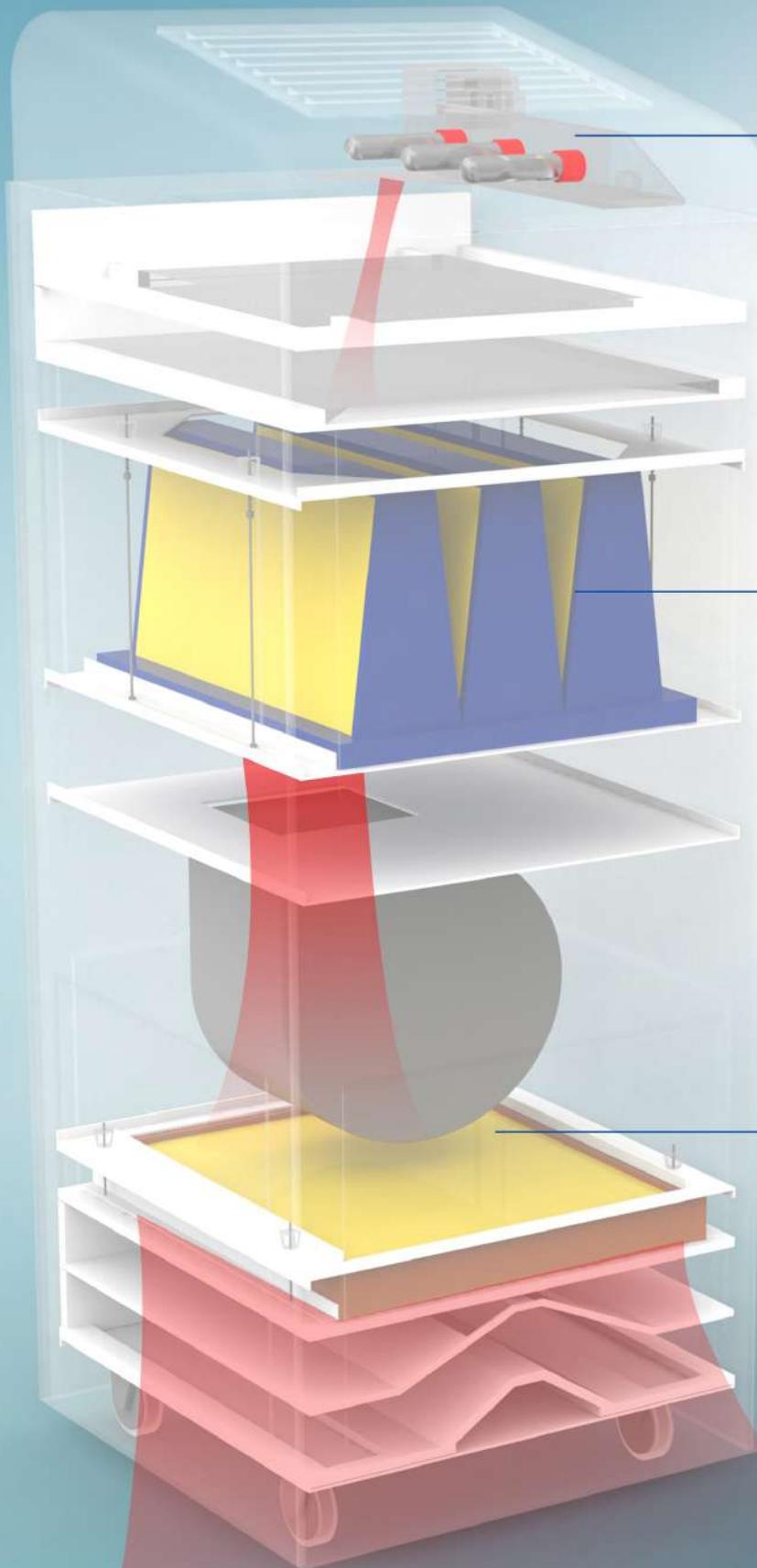
Dopair® helps **fight Hospital Acquired Infections (HAIs)** and has **bactericide, fungicide and virucide actions on living particles such as Aspergillus Niger**, thanks to the combined actions of HEPA filtration (up to H14, that is, a filtering capacity of 99.995% MPPS on the particles with sizes $>0.3\mu$ in accordance with EN 1822 standard) with Bioxigen® system.

As the **result of working in partnership with our clients**, Dopair was developed considering the observations of hospital staff - both users and hygienist medical teams.

It has been designed to include, as an option, a fresh air plenum to **generate overpressure in the room**.

If air cooling is requested, Cool Dopair can regulate the temperature through a cooling system **available with mains water, chilled water or direct expansion**.

The result is a **compact, mobile and silent** unit that offers an immediate solution for achieving the bacteriological and particle classification.



BIOXIGEN

- * BACTERICIDE ACTION
- * FONGICIDE ACTION

(SEE GRAPH)

H14 FILTRATION

- * PARTICULAR ACTION

>99.995% MPPS ACCORDING
TO EN 1822

F7 FILTRATION

* 0% < AVERAGE EFFICIENCY <90%

OVER PARTICLES OF 0.4 μ M

INACTIVATING MICROORGANISMS

Dopair is a very efficient solution to eliminate inert particles and microorganisms thanks to the combination of three high performance systems that act as presented below. The actions are presented according to airflow direction:

PRE-FILTERING-SYSTEM

F7 efficiency according to EN779:2012 by the action of a very low pressure drop polypropylene filter. Retention of particles is $>80\%$. It is efficient against most particles: between 80% and 90% of $0.4\mu\text{m}$ particles.

HEPA FILTERING SYSTEM

H14 efficiency according to EN1822 by the action of a very low pressure drop polypropylene filter. Retention is $> 99.995\%$ MPPS on the particles with sizes $>0.3\mu\text{m}$.

It will act as very efficient barrier to viruses, which are filtered when transported by larger particles.

BACTERIOSTATIC AND MICROBICIDE ACTION

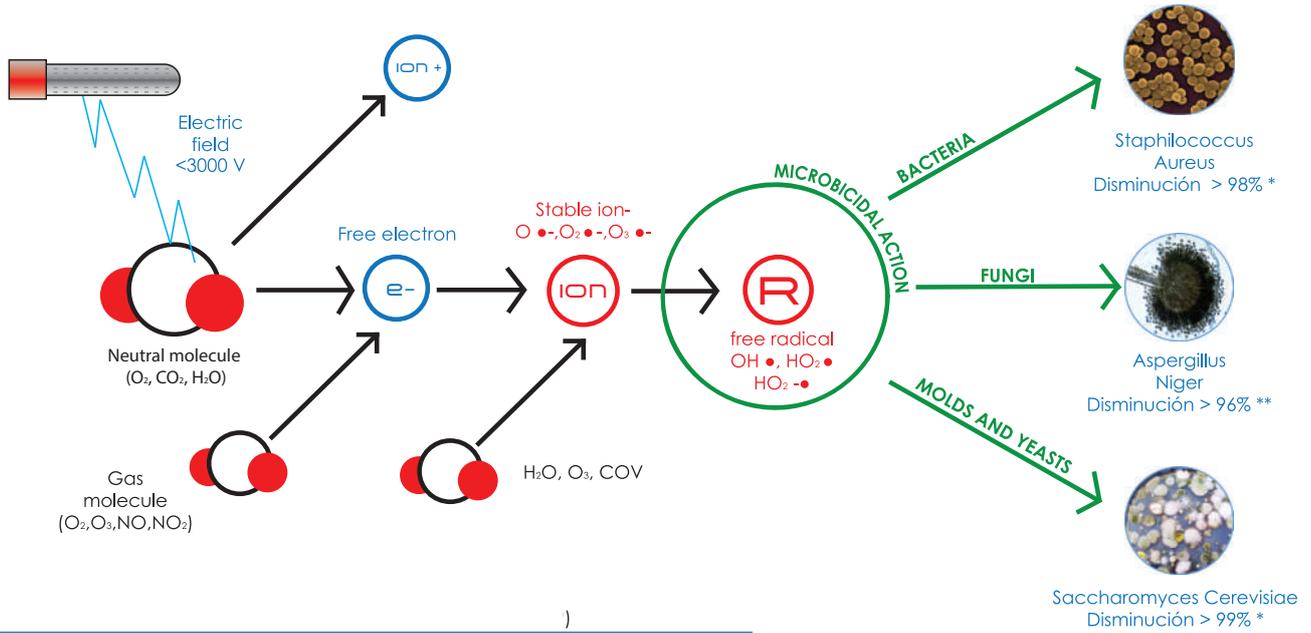
Bacteriostatic and microbicide actions (bactericide, fungicide, sporicide) are carried out by the Bioxygen system. (See pages 14 and 15).

ADVANTAGES OF THE DOPAIR TECHNOLOGY

DOPAIR is the only unit in the market that combines the following 5 actions:

- **Particular class ISO6** by using F7+H14 filters (@25 vol/h)
- **Decontamination particular kinetics smaller than 10mn**
- **Bacteriological class inferior of M10** (10 UFC/m³)
- **Decontamination of air and surfaces** - walls, floor, instruments – within the entire risk area, thanks to the free radical's radiation action. This radiation is not possible on other technologies like plasmarisation or photocatalysis.
- **Reduction of environment pollution**

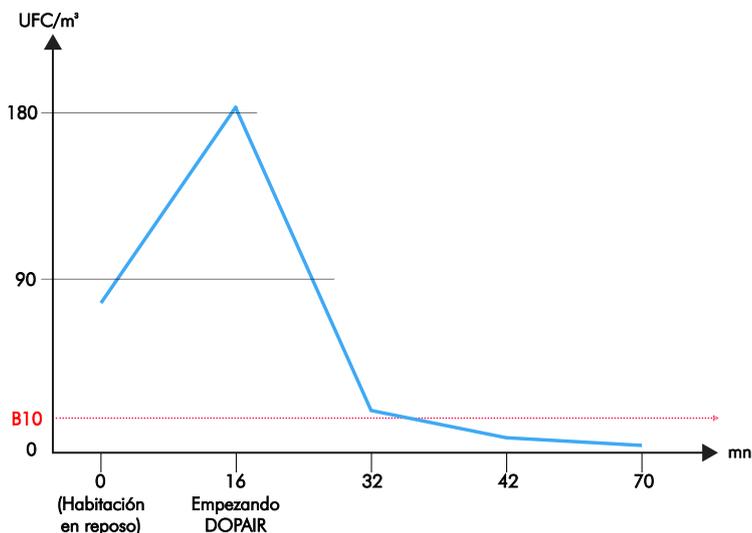
WORKING PRINCIPLE



REDUCTION OF BACTERIOLOGICAL CONCENTRATION

DOPAIR® ALLOWS THE DECONTAMINATION OF A CONFINED SPACE IN 5 MINUTES WITH AN EFFICIENCY OF:	
INFLUENZA H1N1	99.9929 %
ADENOVIRUS 5	99.905 %
BACILLUS SUBTILIS	95.234 %
PSEUDOMONAS AERUGINOSA	99.965 %
ESCHERICHIA COLI	99.925 %
STAPHYLOCOCCUS AUREUS	99.842 %
ENTEROCOCCUS FAECIUM	99.800 %
CANDIDA ALBICANS	99.973 %
ASPERGILLUS FUMIGATUS	99.467 %

BACTERIOLOGICAL DECONTAMINATION KINETICS



BIOXIGEN

Bioxigen ®

system is a patented technology that has bactericidal, fungicidal, sporicidal and virucidal effects (microbicide action), and that incapacitates steams, smokes and pollens (bacteriostatic action).

How does it work?

The ambient air, previously filtered thanks to the action of **the filters F7 and HEPA 14** (retention of 99.995% of the particles of $0.3\mu\text{m}$) has a reduced concentration of undesirable living particles in the hospital's ambient air (**bacteria, fungus and virus**). This concentration is reduced by 99.995%; that is, even if the virus is smaller than $0.3\mu\text{m}$, it is efficiently stopped by the filter barrier and the blockage of the vector needed to carry it, as its size is bigger than $0.3\mu\text{m}$.

The ambient air which has lost 99.995% of the bacteria, viruses, fungus and spores is then submitted to a set of condensers that produce a moderate power electric field, lower than 3000V.

The electric field takes away electrons from neutral molecules which are diffused in the air (O_2 , N_2 , H_2O). Numerous chain reactions occur (see chart) generating two main actions.

- **Microbicide action:** free electrons generate the production of stable negative ions which will cause $\text{OH}\cdot$, $\text{H}_2\text{O}_2\cdot$, H_2O_2^- . free radicals after interacting with H_2O and O_3 molecules and with VOCs (Volatile Organic Compounds). Those free radicals will oxidize and destroy bacteria, fungus, molds and yeasts by perforating their cellular membranes after another electronic exchange..
- **Bacteriostatic action:** Negative ions interact with the electrically neutral or positive suspended particles (pollution, pollens, steam, smoke). It causes contaminants to drop on the floor.

***Ozone production :** The action of the electric field produced by the Bioxigen system on the ambient air flow generates a very low production of ozone. This production is lower than $94\mu\text{g}/\text{m}^3$ for 24 hours of continuous operation in a closed ambience (laboratory of the University of Padua, tested on 2/19/2004 by the professors Rausa and Moretti).*

***Reminder about the European legislation regarding ozone :** The recommended threshold of information is set to $180\mu\text{g}/\text{m}^3$ on average per hour (decree n°2003-I 085 of 12 November 2003 based on the directive 2002/3/CE of the European Parliament and the European Council of February 12th/ 2002 concerning the air quality monitoring and its effects on health and on the environment, the objectives of air quality, the alert threshold and the limit values).*

MOBILITY

EASY INSTALLATION

Four wheels in thermoplastic rubber with precision ball bearings.

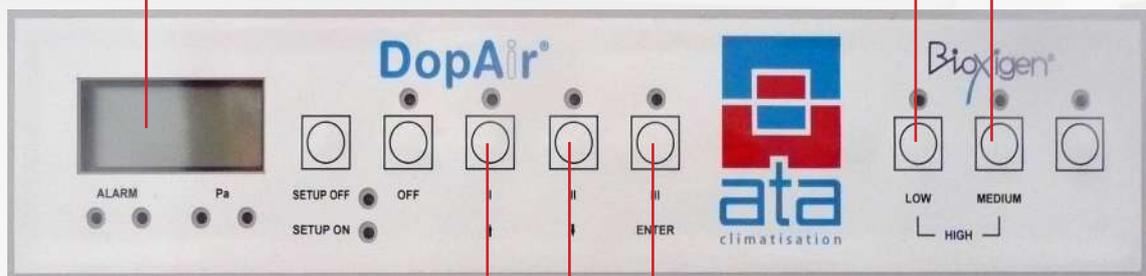
The wheels have a 360° rotation and **both rear wheels are lockable.**



AIR FLOW CONTROL

Control and display of parameters
in LCD screen

ON-OFF button for Bioxygen
Power variation is possible
(0%, 33%, 66%, 100%)



Dopair airflows are adjustable from 600 to 2000
m³/h. Three flow levels can be programmed.
Adjustment levels: every m³/h.



SOUND LEVELS

LOW SOUND LEVEL

The noise level of Dopair is reduced thanks to its internal isophonic structure. It is made of 20 mm thick double panels galvanized steel, white RAL 9010 paint and high-density glass wool (40kg/m³) for sound isolation.

Sound absorbers are mounted on slides at air intake and air supply



Sound absorbers at air intake



Sound absorbers at air supply

SOUND LEVELS CHART

Reference sound level (ambiance) :

30 dB(A)

Dimensions of the test lab :

5,50m x 6,80m x 2,60m (97 m³)

	1 m					
m ³ /h	600	800	1100	1200	1500	1700
dB(A)	39.6	42.0	48.1	51.3	55.5	59.0

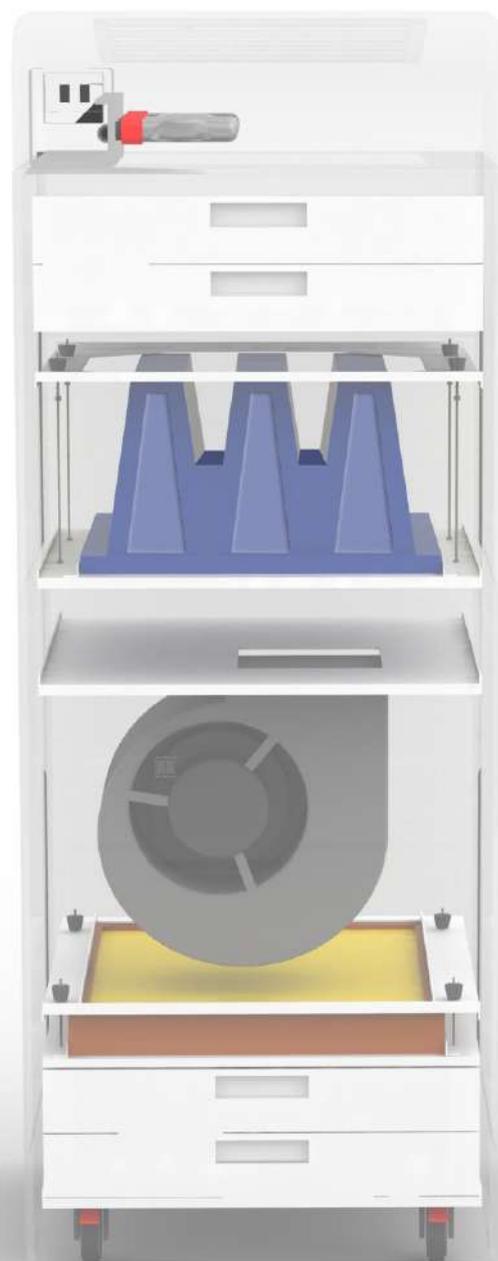
	2m					
m ³ /h	600	800	1100	1200	1500	1700
dB(A)	38.8	39.1	45.0	47.1	52.5	55.0

	4m					
m ³ /h	600	800	1100	1200	1500	1700
dB(A)	33.7	37.2	42.0	45.7	51.3	54.7

TECHNICAL DATA



AIR FLOW (m ³ /h)	600 TO 2000 m ³ /h
AIR SUPPLY	BY PLENUM AT THE TOP
CONTROL & DISPLAY PANEL	3 PRE-ADJUSTABLE AIRFLOWS
DIMENSIONS (L x l x H)	690 x 730 x 1838 mm.
WEIGHT	150 kg
INTAKE FILTER	F7 WITH LOW PRESSURE LOSS
AIR SUPPLY FILTER	H14 WITH LOW PRESSURE LOSS
BIOXIGEN	3 CONDENSERS
SOUND LEVEL AT 2 METRES	38.8 dB(a) @ 600 m ³ /h 39.1 dB(a) @ 800 m ³ /h 45.0 dB(a) @ 1100 m ³ /h
INTERNAL STRUCTURE	DOUBLE PANELS IN WHITE (EPOXY RAL 9010) PAINTED GALVANIZED STEEL
EXTERNAL STRUCTURE	THERMOFORMED PANELS
POWER SUPPLY	230 V / 50Hz
MOBILITY	4 PIVOTING WHEELS AT 360 °
OPTIONS	- RECTANGULAR OR CIRCULAR FRESH AIR KIT



COOL DOPAIR

For better temperature comfort



**COOL
DOPair**[®]
WWW.ATACLIMATISATION.COM

AIR FLOW (m ³ /h)	600 to 1500 m ³ /h
AIR SUPPLY	BY PLENUM AT THE TOP
CONTROL & DISPLAY PANEL	3 PRE-ADJUSTABLE AIRFLOWS
DIMENSIONS (L x l x H)	690 x 730 x 1838 mm.
WEIGHT	190 kg
INTAKE FILTER	F7 WITH LOW PRESSURE LOSS
AIR SUPPLY FILTER	H14 WITH LOW PRESSURE LOSS
BIOXIGEN	3 CONDENSERS
SOUND LEVEL AT 2 METRES	54.2 dB(a) à 1000 m ³ /h 59 dB(a) à 1200 m ³ /h 63.9 dB(a) à 1500 m ³ /h
INTERNAL STRUCTURE	DOUBLE PANELS IN WHITE (EPOXY RAL 9010) PAINTED GALVANIZED STEEL
EXTERNAL STRUCTURE	THERMOFORMED PANELS
POWER SUPPLY	230 V / 50Hz
MOBILITY	4 PIVOTING WHEELS AT 360 °
OPTIONAL EQUIPEMENT	COOLING WITH TAP WATER/CHILLED WATER/DIRECT EXPANSION - RECTANGULAR OR CIRCULAR KIT FOR POSITIVE PRESSURE



OPTION – POSITIVE PRESSURE KIT



Dopair With positive pressure kit
(Peupliers Private Hospital, Paris 15)

Detail of circular connection
(Also available in rectangular duct)
(Peupliers Private Hospital, Paris 15)



POSITIVE PRESSURE PLENUM



DOPair®
WWW.97ACCLIMATISATION.COM

NEGATIVE PRESSURE PLENUM



"COLLECTION" MODEL



SOME DOPAIR REFERENCES

HAUTE NORMANDIE

- *CLINIQUE BERGOUIGNAN (27)
3 DOPAIR – BLOC OPÉRATEUR

BASSE NORMANDIE

- *CH L'AIGLE (62)
2 DOPAIR – BLOC OPÉRATEUR
- *HTM MEDICARE À VIRE (14)
1 DOPAIR – LASER EXCIMER
- *CH CHERBOURG (50)
2 DOPAIR - STÉRILISATION

BRETAGNE

- *CLINIQUE LA SAGESSE (35)
1 DOPAIR – BLOC OPÉRATEUR
- *CH DOUARNENEZ (29)
1 DOPAIR – URC

PAYS DE LA LOIRE

- *CHU NANTES (44)
TRAVAUX
- *CHD LA ROCHE SUR YON (85)
3 DOPAIR – HÉMATOLOGIE
- *CLINIQUE VICTOR HUGO (72)
1 DOPAIR – URC
- *CLINIQUE JEANNE D'ARC (44)
1 DOPAIR - BLOC OPÉRATEUR

POITOU - CHARENTE

- *CH LA ROCHELLE (17)
1 DOPAIR - TRAVAUX
3 COOL DOPAIR - ENDOSCOPIE
- *CHU POITIERS (86)
6 DOPAIR – HÉMATOLOGIE
- *CH JONZAC (17)
2 DOPAIR – BLOC OPÉRATEUR
- *CH SAINTES (17)
1 DOPAIR – URC

AQUITAINE

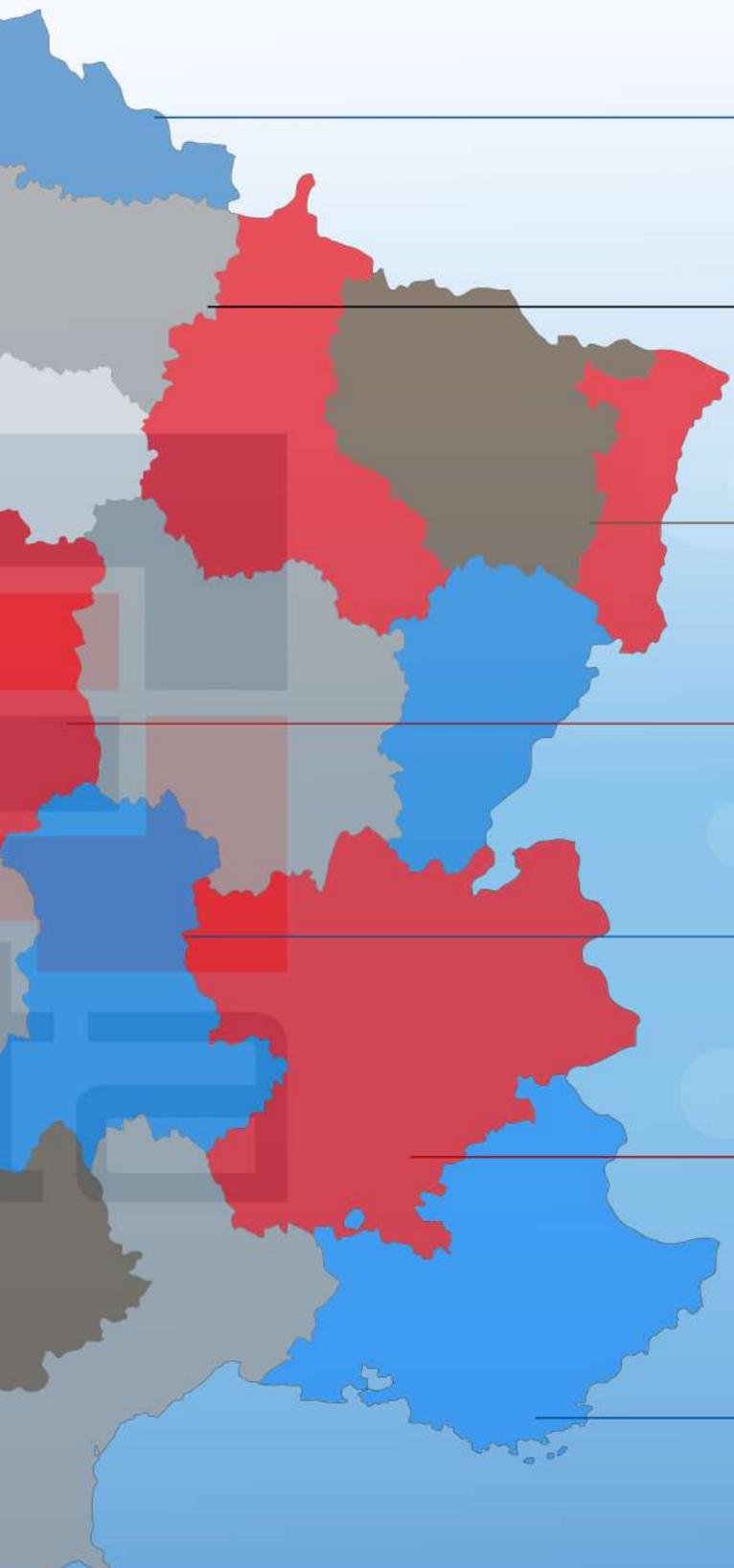
- *POLYCLINIQUE DES 4 PAVILLONS (33)
1 DOPAIR – BLOC OPÉRATEUR
- *CHU BORDEAUX – PELLEGRIN (33)
3 DOPAIR – BLOC OPÉRATEUR
- *CLINIQUE TOURNY (33)
4 DOPAIR – BLOC OPÉRATEUR
- *CLINIQUE CÔTE BASQUE SUD (64)
1 DOPAIR - BLOC OPÉRATEUR

MIDI-PYRENEES

- *CHU TOULOUSE (31)
TRAVAUX
- *CLINIQUE DE CHIRURGIE ESTHÉTIQUE (31)
2 DOPAIR – BLOC OPÉRATEUR

- *APHP/HOPITAL DE LA PITIÉ SALPÊTRIÈRE (75)
2 DOPAIR – STÉRÉOTAXIE
- *CLINIQUE DES MARTINETS (92)
1 DOPAIR – BLOC OPÉRATEUR
- *CLINIQUE PIERRE CHEREST (92)
2 DOPAIR – PONCTION FIV
- *HIA VAL DE GRÂCE (75)
5 DOPAIR – STÉRILISATION

- *CLINIQUE LA FRANCIENNE (77)
1 DOPAIR – STÉRILISATION
- *INSTITUT CURIE (75)
2 DOPAIR – SENOLOGIE
- *CLINIQUE GEOFFROY ST HILAIRE (75)
10 DOPAIR – RÉANIMATION / B.OPÉRATEUR
- *CLINIQUE CLAUDE BERNARD (95)
3 DOPAIR – BLOC OPÉRATEUR ET URC



NORD

- *CLINIQUE DU PARC (59)
- 5 DOPAIR – BLOC OPÉRATEUR ET CORONAROGRAPHIE
- *CH FOURMIES (59)
- 2 DOPAIR – ENDOSCOPIE

PICARDIE

- *CH ST QUENTIN
- 1 DOPAIR – SALLE D'AUTOPSIE
- *CH HIRSON (02)
- 2 DOPAIR – ENDOSCOPIE
- *CH SENLIS (60)
- 7 DOPAIR – BLOC OPÉRATEUR ET URC

LORRAINE

- *POLYCLINIQUE DE LA LIGNE BLEUE (88)
- 1 DOPAIR – BLOC OPÉRATEUR
- *CH VERDUN (55)
- 2 DOPAIR – URC
- *POLYCLINIQUE GENTILLY (54)
- 2 DOPAIR – BLOC OPÉRATEUR

CENTRE

- *CH MONTARGIS (45)
- 3 DOPAIR – RÉANIMATION / BLOC OPÉRATEUR
- *CH NOGENT LE ROTROU (28)
- 1 DOPAIR – ENDOSCOPIE
- *CH DREUX (28)
- 11 DOPAIR – BLOC OPÉRATEUR

AUVERGNE

- *CH MONTBRISON (42)
- 1 DOPAIR- CHAMBRE D'APLASIE
- *CH THIERS (63)
- 2 DOPAIR – BLOC OPÉRATEUR
- *CH ISSOIRE (63)
- 2 COOL DOPAIR – BLOC OPÉRATEUR

RHÔNE - ALPES

- *HCL / HFME (69)
- 12 DOPAIR – MATERNITÉ
- *CLINIQUE CONVERT (01)
- 2 DOPAIR – CORONAROGRAPHIE
- *HOPITAL PRIVÉ SAVOIE NORD (74)
- 7 DOPAIR – BLOC OPÉRATEUR
- *HCL / HOPITAL DE LA CROIX ROUSSE (69)
- 7 DOPAIR FIXES – BLOC OPÉRATEUR

PACA

- *CH MONACO (97)
- 1 DOPAIR – BLOC OPÉRATEUR

- *APHP/HOPITAL LARIBOISIÈRE (75)
- 1 DOPAIR – STOCKAGE STÉRILE
- *CH PROVINS (77)
- 1 DOPAIR – BLOC OPÉRATEUR
- *CH COULOMMIERS
- 2 DOPAIR – BOX RÉANIMATION NOURRISSONS
- *CLINIQUE HARTMANN (92)
- 4 DOPAIR – BLOC OPÉRATEUR
- *HOPITAL PRIVÉ PARLY II – (78) – TRAVAUX

- *CLINIQUE LA ROSERAIE (93)
- 3 DOPAIR – RÉANIMATION
- *HOPITAL AMÉRICAIN (92)
- 1 DOPAIR – BLOC OPÉRATEUR
- *CLINIQUE DE LA DÉFENSE (92)
- 3 DOPAIR – BLOC OPÉRATEUR
- *HOPITAL PRIVÉ DES PEUPLIERS (75)
- 8 COOL DOPAIR – ENDOSCOPIE
- *HPR BULLION (78) - 1 DOPAIR – URC

PRODUCT RANGE



Mobile units for air decontamination in risk areas of healthcare sectors.

Immediately operational and silent, the mobile units achieve performances expected in the ISO classification (NF ISO 14644-1) depending on the configuration of the premises.

Technical solutions for the hygienic air treatment and air conditioning. Horizontal, or vertical air handling units, such as Clinicair, and precision handling units:

- Air quality, according to particular class (ISO5/7/8)
- Temperature
- Bacteriological class
- Hygrometry
- Available pressure

Chassis type T2 / TB1, EN 1886

*Laminar air Flow Ceilings, single or double flow
LED operating lamps range 160 000 lux + 130 000 lux*



Distributor

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ISO 9001
certified since 2004



ISO 13485
certified since 2004