DECONTAMINATION

ata
Air Quality Expert

AIR CONDITIONING & FILTRATION

ClinicAir®

Air Quality Expert

ENERGY SAVING

Air Quality Expert

Over 20 years of experience in Air Handling
Reliability and Performance

Since 1987 **ATA** has gained rich experience in designing and marketing of 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. Services proposed by ATA, such as audit, technical assistance and training, ensure its customers to get the most from new equipment.

Fields of activity

Hospital

Laboratories

Aerospace

Microelectronic components production

Quality

Our management system is certified ISO 9001: 2008.
Therefore, ATA's products are all CE marked.
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.**

Worldwide

Having a solid reputation in hospitals and clinics in France, **ATA** also carries almost 40% of its turnover for export in nearly 30 countries . An extensive network of partners around the globe guarantees fast and flexible after-sales service to users worldwide.

CLINICAIR® Range

Hygienic Air Handling Units CLINICAIR® are designed and developed to ensure, with accuracy and continuity, the quality of air in terms of particulate and bacteriological class,temperature, humidity, pressure in areas where air contamination control is the major issue.

ATA offers 3 ranges (CLN1b, CLN3 and CLN4) including more than 100 models with partial recycling or 100% fresh air operation mode, duct connections placed at the top, bottom, front, side. Sound traps on option depending on models, etc...

ClinicAir 1b

CLINICAIR® 1b is an attractive "plug & play" solution dedicated to control air quality in operating theatres or other risk areas.

Top of class in reducing airborne diseases, **CLINICAIR® 1b** will prove its efficiency by the combined action of **BIOXIGEN decontamination system** and **HEPA H14 filtration** (99,995% particle reduction up to 0,3 microns (MPPS). They provide fast bacteriological and particle decontamination kinetics. The PCO3 control system permanently regulates working parameters, in particular providing accurate temperature control.

Appreciated for its assembling quality and performance level, **CLINICAIR® 1b** complies with high-level requirements for a setup within the operating theatre and, therefore, represents an ideal solution to fight against airborne infections.

Principle of operation

Version with plenum

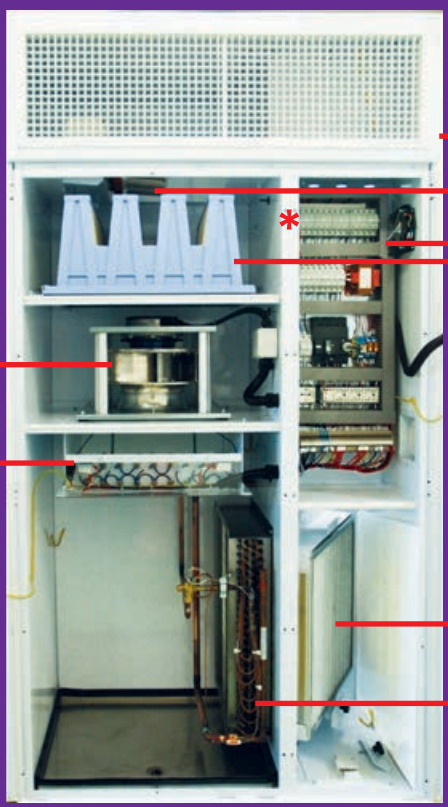
Version with Laminar Flow Ceiling

Advantages

- Air flow: 1500 to 2500m3/h.
- Air supply plenum.
- Filtration : G4 + F7 at air intake - H14 at air supply.
- Bioxigen® decontamination system having bactericidal, fungicidal, virucidal effect on living particles.
- Regulation system providing constant air flow.
- High performance microprocessor.
- Remarkable sound insulation.
- Reduced dimensions : 1200mm x 700mm x 1950mm (2400mm with plenum) /500 kg.
- Can be completely integrated into the wall (fresh air supply possible at the top, at the side or at the back).
- Single inlet motorised impeller module with low power consumption (EEF1).
- Front access for maintenance.

For more details see:
Technical Data p.16

Detailed description



Air supply plenum

Bioxigen

Decontamination system having bactericidal, fungicidal, virucidal effect on living particles.

Switch cabinet and controls

- Power supply 400V N+T 50Hz.
- Switch cabinet contains:
  - Switches and thermal cut-offs.
  - Regulation with microprocessor - LCD display on control panel.

Air supply filtration

HEPA H14 filtration (low pressure drop filter made of polypropylene).

Air intake filtration

- Integrated pre-filtration.
- 2 steps of G4 + F7 type (low pressure drop filter made of polypropylene).
- Filters placed before cooling and heating coils.

Frame and casing

- Tight self-supporting metallic structure.
- White painted (RAL 9010) interior.
- White painted (RAL 9010) double skin panels made of 15/10 stainless steel with high density (40 kg/m3) glass wool providing heat and noise insulation.
- RAL 9010 cover panels on 4 sides.
- Fresh air connection Ø200mm at the top, side or back.
- Adjustable feet.

Heating (9 kW)

3-step electric heater.

Fans

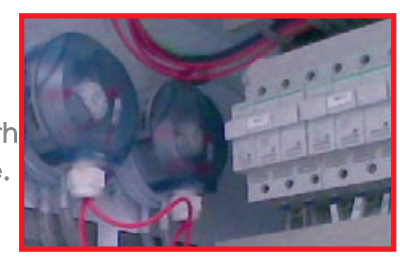
- Speed regulator maintaining constant air flow in line with filter clogging degree.
- Single inlet motorised impeller module with low power consumption (EEF1).

Cooling coil (11 kW)

- Copper tubes and aluminium fins with 2.5 mm minimum spacing.
- Multiple venturi circuits.
- Condensate tray made of 316L stainless steel.
- Condensate drain pipe (Ø 1'') to the outer casing (front, side or back).

* Control

- Filter clogging controlled by air pressure switches.
- Integrated probes.
- PCO3 control system with "energy economy" mode.



Options

- Remote assistance
- Fresh air fan
- Laminar flow ceiling

ClinicAir 3

CLINICAIR® 3 range meets high-level requirements of hyper aseptic environments offering nominal air flow from 1000 to 20000 m3/h and external pressure up to 1500 Pa (for more details see Technical Data p. 16).
Various models are available: with chilled-water, hot-water coils or electric heaters.

CLINICAIR® 3 range offers innovative hygienic airconditionning solutions for operating theatres and other sensitive areas within the hospital. It complies with the most demanding standards: NFS 90-351 july 2003 and EN 1886. **CLINICAIR® 3** concept allows installation close to the area and offers significant savings in terms of construction, installation and operating costs. **CLINICAIR® 3** is a compact hygienic air handling unit which integrates all necessary components: control system, electrical cabinet, humidifier, condensate drain pipe, etc...

Hyper aseptic room (angiography)

Implementation in the sterilisation room

Implementation in the corridor

Applications

ATA has equipped with CLINICAIR® 3 the following departments in public and private hospitals and clinics classified as "risk zones":

- operating theatres,
- intensive care units,
- hemodialysis services,
- cardiac intensive care units,
- induction rooms,
- MRI rooms,
- coronarography rooms,
- tomography rooms,
- angiography rooms,
- endoscopy rooms,
- delivery rooms,
- recovery rooms,
- ophthalmologic laser,
- cytotoxic products,
- cell therapy laboratories,
- hospital sterilisation.

ATA has also installed CLINICAIR® 3 in the following industrial sectors:

- electronics,
- food-processing,
- pharmaceutical,
- aerospace.

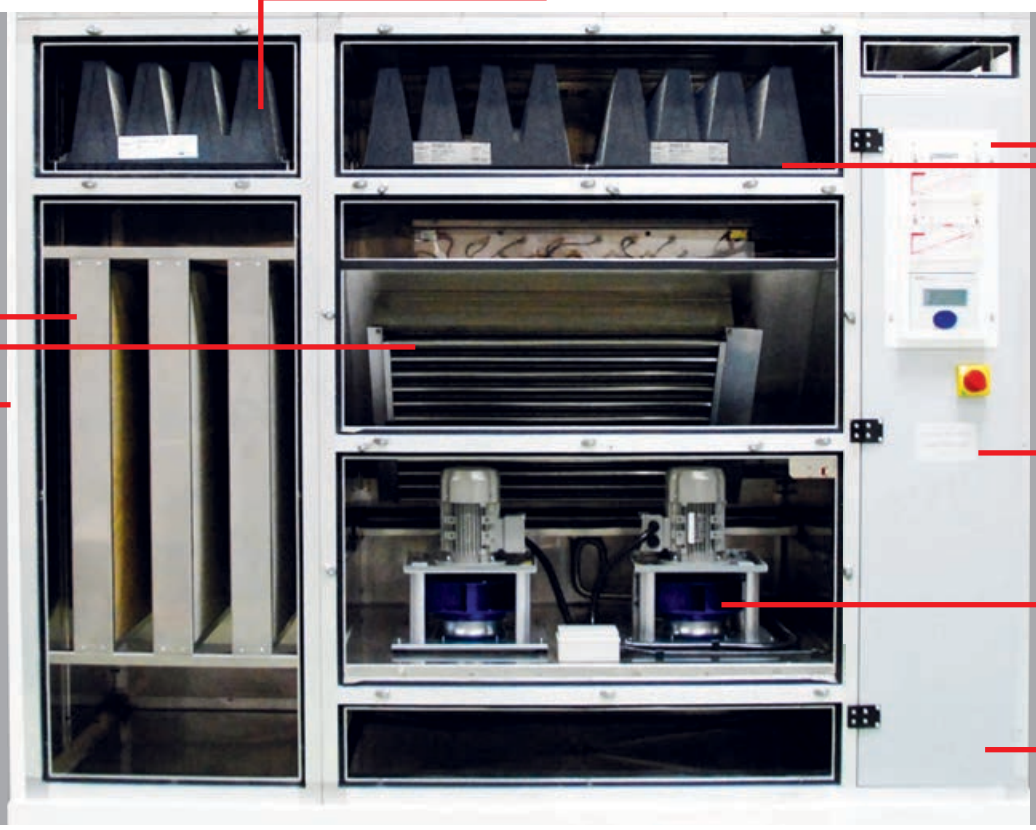
Detailed description

Sound traps

Noise level control often involves the installation of sound traps at air intake and air supply (on request).

Air intake filtration

- Integrated pre-filtration.
- One or two-stage filtration (on request): G4 + F5/F7.
- Filters positioned before cooling and heating coils.
- G4 filter with antifreeze damper installed at fresh air supply (on request).



Frame and casing

- Frame made of 40mm aluminium profiles assembled with aluminium corner joints.
- Double skin panels made of 15/10 - 8/10 stainless steel with high-density (40 kg/m3) glass wool providing heat and noise insulation.
- Panel locking with high compression self-wedging system and seals.
- Soundproof RAL 9010 panels, satin finish on all 4 sides with high efficiency foam.
- Removable condensate tray made of 316L stainless steel with rigid siphon.
- 316L stainless steel diamond-shaped bottom.
- Adjustable feet (Ø40mm).

Cooling & Heating coils

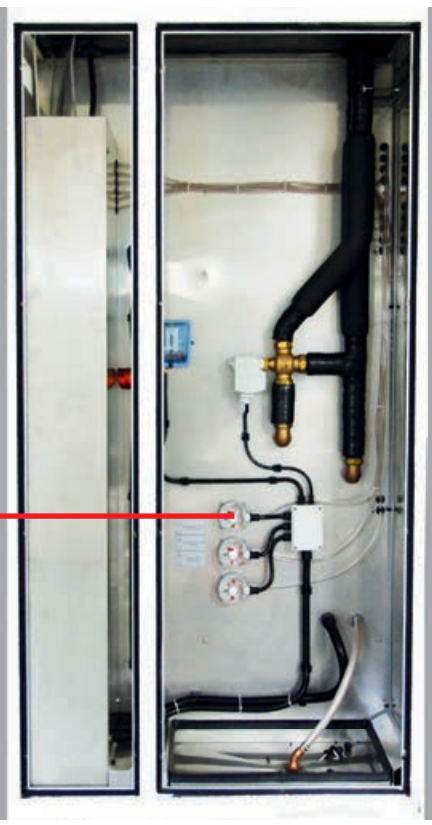
- Copper tubes and aluminium fins with a minimum spacing of 2.0 mm.
- Multiple venturi circuits.
- 2 or 3-way proportional control valve (water chilled coil).
- Condensate droplet separator preventing any water priming.
- Removable condensate tray made of 316L stainless steel.
- Condensate drain pipe to the outer casing (Ø 1'').
- Electric heater with stainless steel heating rods and 2 safety thermostats.

Pressure gauges

Pressure gauges for monitoring of filter clogging at the air intake and air supply.

Pressure switches

- Filter clogging controlled by air pressure switch.
- Detection of low air flow by alarm pressure switch.



Air supply filtration

- F9 filtration.
- H13 filter on request.

Humidifier

- Electrode steam humidifier for automatic steam generation.
- Microprocessor control providing:
  - Overall performance
  - Proportional steam control
- Stainless steel steam ramp.

Fans

- Speed regulator maintaining constant air flow in line with filter clogging degree.
- Single inlet motorised impeller module with low power consumption (EEF1).

Switch cabinet and controls

- 3-phase power supply: 400 V N+T 50Hz.
- Switch cabinet contains:
  - Switches and thermal cut-offs.
  - Regulation with microprocessor. LCD display on control panel.
  - 3, 4 or 5 probes according to the model (recycling or fresh air) and regulation type.

Options

- Remote assistance
- Electric heater in place of or in addition to hot water coil
- Water filter with drain cock to protect control valve (chilled-water or hot-water models)
- Manual or motorised dampers
- Condensate pump
- Water sensor alarm
- Low pressure drop filters made of polypropylene
- Recovery coil

ClinicAir 4

CLINICAIR® 4 is a compact hygienic air handling unit, integrating all the components necessary for high-quality air handling for all hospital departments.

The unit can either be installed in technical premises or outside the building allowing substantial savings in terms of installation, maintenance and operating costs.

CLINICAIR® 4 range offers innovative air handling solutions for operating rooms and other risk areas within the hospital and complies with NFS 90-351 July 2003 standard. Appreciated for its assembling quality and performance level, **CLINICAIR® 4** represents an alternative solution in fighting against airborne infections in operating rooms.

Applications

Robert Debré Hospital in Paris. Bone marrow transplant center

ATA has equipped with CLINICAIR® solution 100% of high risk departments within public and private hospitals and clinics:

- operating theatres,
- intensive care units,
- hemodialysis services,
- cardiac intensive care units,
- induction rooms,
- MRI rooms,
- coronarography rooms,
- tomography rooms,
- angiography rooms,
- endoscopy rooms,
- delivery rooms,
- recovery rooms,
- ophthalmologic laser,
- cytotoxic products,
- cell therapy laboratories,
- hospital sterilisation.

ATA has also installed its air treatment units in the following industrial sectors:

- electronics,
- food-processing,
- pharmaceutical,
- aerospace.

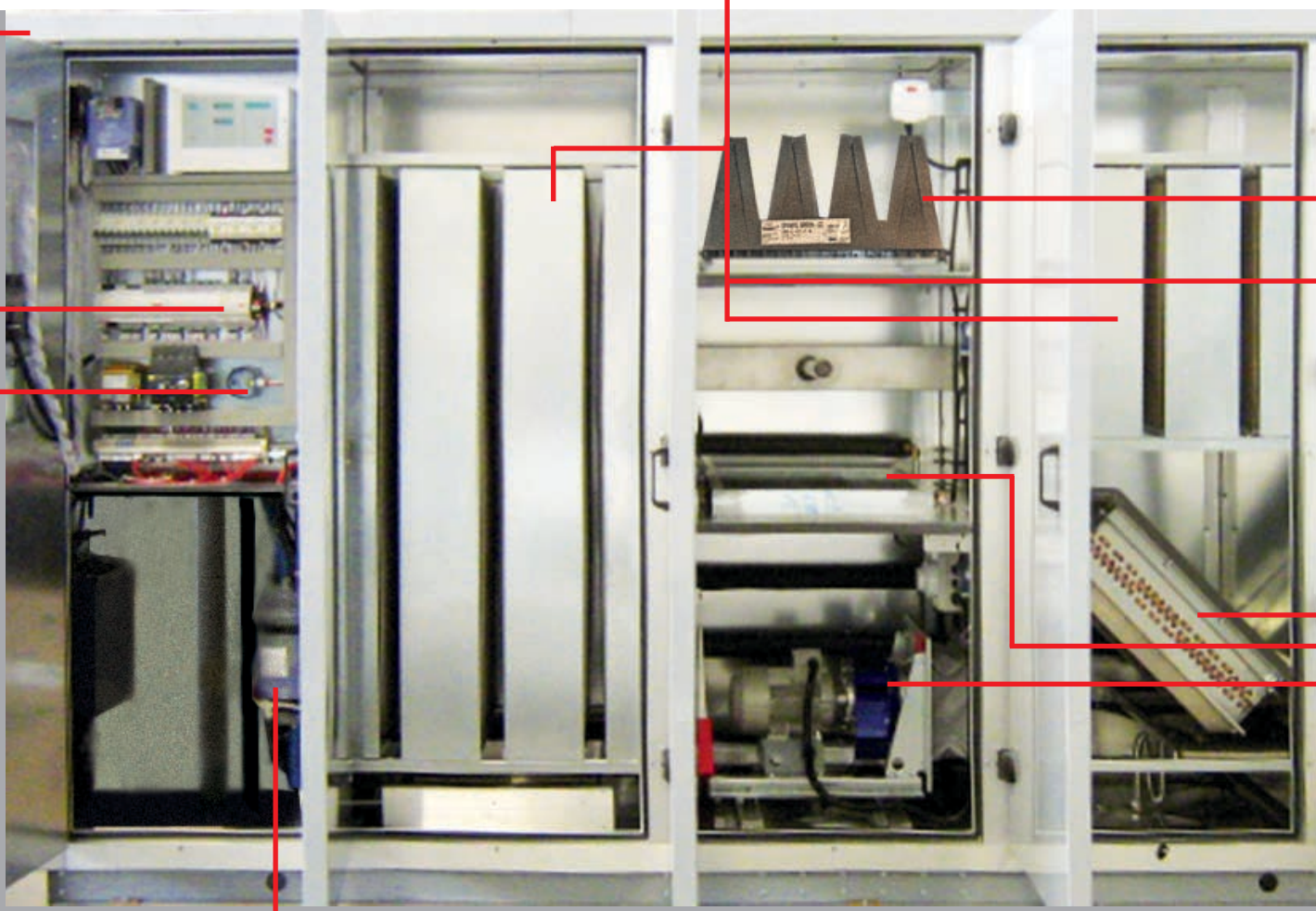
Detailed description

Frame and casing

- Frame made of 70mm aluminium profiles assembled with aluminium corner joints.
- Double skin panels made of 15/10 - 8/10 stainless steel with high-density (45 kg/m3) glass wool providing heat and noise insulation.
- Panel locking with high compression self-wedging system.

Sound traps

Noise level control often involves the installation of sound traps at air intake and air supply. Noise level at 1,5 meters: 40 dB (A) +/- 3dB (A).



Pressure switches

- Filter clogging controlled by air pressure switch.
- Detection of low air flow by alarm pressure switch.

Humidifier

Electrode steam humidifier for automatic steam generation.

- Microprocessor control providing:
  - Overall performance.
  - Proportional steam control.
- Stainless steel steam ramp.
- Heating of technical compartment in the winter to avoid freezing.

Switch cabinet and controls

- 3-phase power supply: 400 V N+T 50Hz
- Switch cabinet contains:
  - Switches and thermal cut-offs.
  - Regulation with microprocessor. LCD display on control panel.
  - 3, 4 or 5 probes according to the model (recycling or fresh air) and regulation type.

Pressure gauges

Pressure gauges are used for the monitoring of filter clogging at the air intake and air supply.

Options

- Remote assistance
- Electric heater in place of or in addition to the hot water coil
- Water filter with drain cock to protect control valve (chilled-water or hot-water models)
- Water sensor alarm

Air supply filtration

- F9 filtration.
- H13 filter on request.

Air intake filtration

- Integrated pre-filtration.
- One or two-stage filtration (on request): G4 + F5/F7.
- Filters located before cooling and heating coils.

Cooling coil

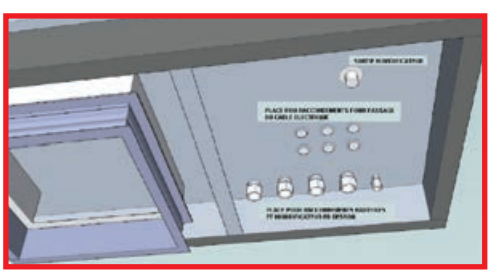
- Copper tubes and aluminium fins with a minimum spacing of 2.0 mm.
- Multiple venturi circuits.
- 3-way proportional control valve (standard) or 2-way valve on request.
- Condensate droplet separator made of 316L stainless steel preventing any water priming.
- Removable condensate tray made of 316L stainless steel.
- Condensate drain pipe to the outer casing (Ø 1'').
- Integrated condensate pump (option).

Heating coil

- Copper tubes and aluminium fins.
- Multiple venturi circuits.
- 3-way proportional control valve (standard) or 2-way valve on request.
- Electric heater in place of or in addition to hot water coil (option).

Chilled / hot water connection

- Male connectors.
- Connection at the bottom.



Damper with servo motor

Integrated motorised dampers at the air intake, air supply or fresh air.

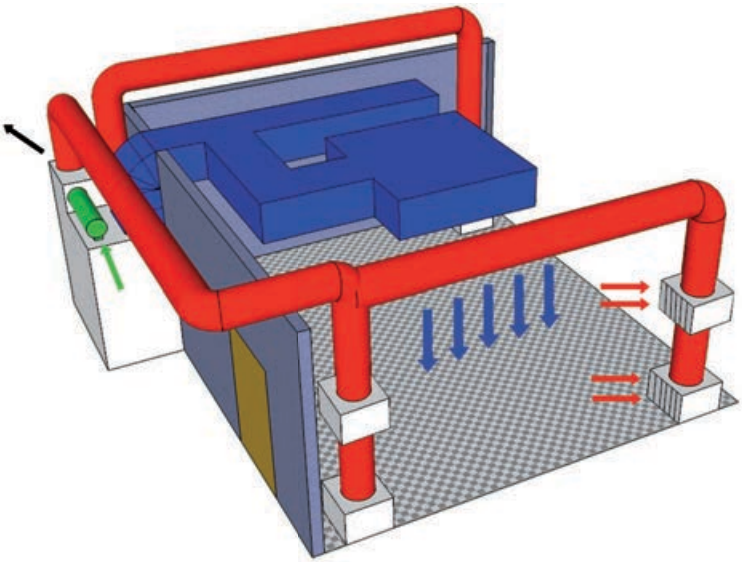
Fans

- Speed regulator to maintain constant air flow in line with filter clogging degree.
- Single inlet motorised impeller module with low energy consumption (EEF1).

Technical Data & Advantages of CLINICAIR® Range

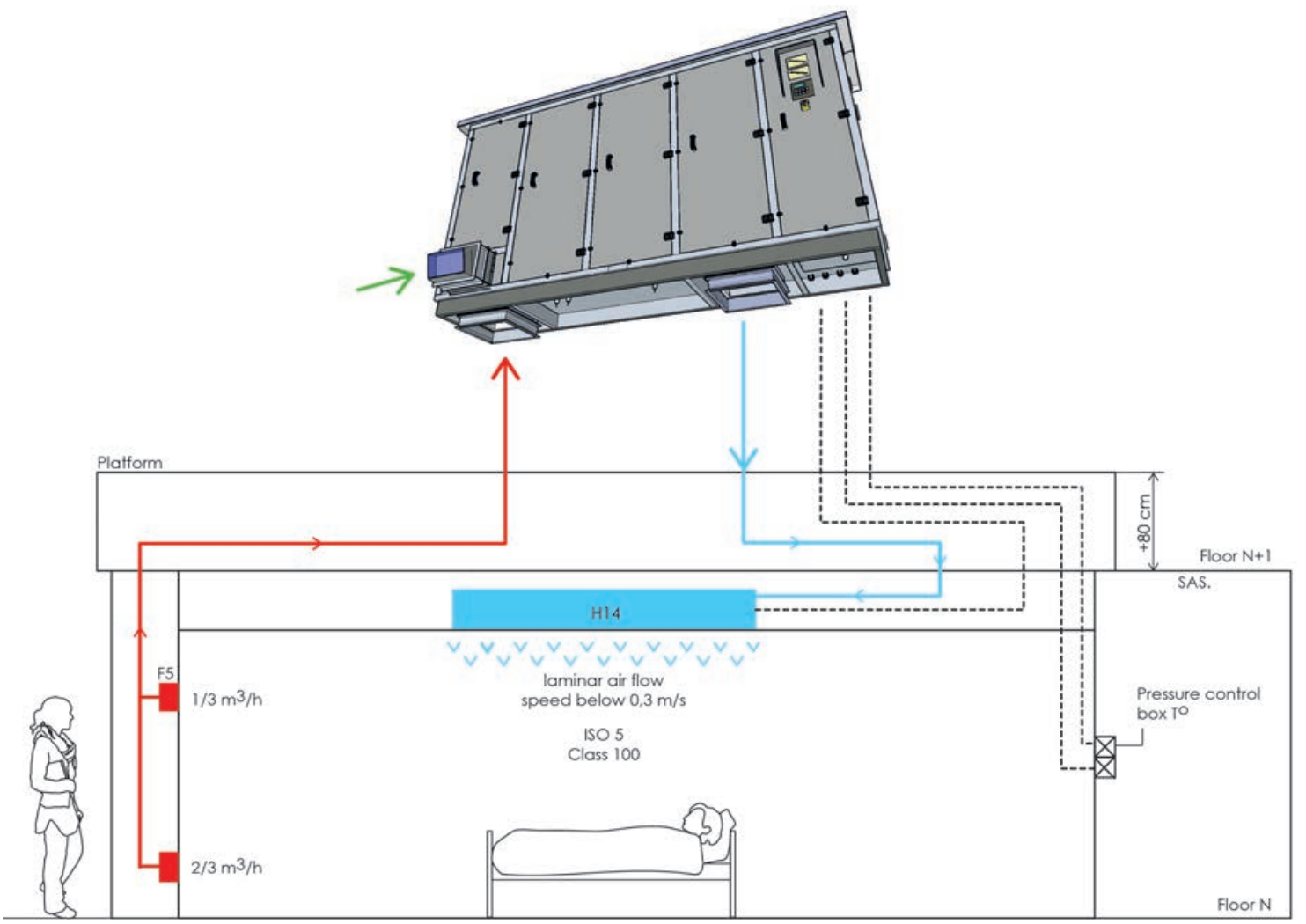
Principle of operation CLINICAIR® 3

- Air supply
- Air intake
- Fresh air
- Outgoing air



Principle of operation CLINICAIR® 4

- Air supply
- Air intake
- Fresh air
- Outgoing air



Advantages of CLINICAIR® Range

Selection of the best equipment to optimize energy consumption

- Single inlet motorised impeller unit with low energy consumption (EEF1).
- Polypropylene filters with low pressure drop (for CLINICAIR® 1b and as an option for CLINICAIR® 3 and 4).
- Free-cooling regulation.
- Optimized coil and frame sizing to reduce air pressure drop.

Low construction and installation costs

- Up to 75% technical floorspace reduction compared to an equivalent air handling unit.
- Reduction of duct network.
- "Plug & Play" solution.
- Allows construction phasing (e.g: frame height of the CLINICAIR® 3 enables the fitting through a standard door).
- Adapts to specific constraints of any type of the building.

Health and Safety

- Cross contamination reduction due to double skin casing with remarkable tightness (e.g: CLINICAIR® 3 is classified L1 for negative pressure and L2 for positive pressure according to EN 1886 standard).
- Diamond-shaped stainless steel condensate tray to avoid water stagnation.
- CLINICAIR 1b or 3 can be lifted upon the baseboard to prevent dust accumulation.
- Batteries with no risk of water carry-over.

User comfort

- Remarkable noise level control (e.g: double panels with sound attenuation of -31 dBA and -21 dBA for the CLINICAIR® 3).
- Easy access to working parameters.
- Easy filter clogging control with external pressure gauges.

Minimized inconvenience

- Quick return to activity due to reduced installation time.
- Allows refurbishment of the area without stopping activity.

Easy maintenance

- Easy access from front panels allowing quick maintenance.
- Building management system.
- Internet connection for ATA remote technical assistance.

Technical Data

(models with horizontal motorised impeller module - type B)

		Clinicair 1B	Clinicair 3 (BD)			
		CLN1B	CLN3X 2BD/CLNW 3W 2BD	CLN3X 3BD/CLNW 3W 3BD	CLN3X 4BD/CLNW 3W 4BD	CLN3X 6BD/CLNW 3W 6BD
NOMINAL AIR FLOW						
Air flow	m^3/h	2500	2000	3000	4000	6000
External Static Pressure	Pa	100 (plenum version)	600	800	900	1000
COOLING/DIRECT EXPANSION - 4 rows						
CLNX VERSION						
Refrigerating capacity (T 50°C)						
Intake T +27°C/46% RH- total/sens.	kW	9,1/8,1	10/7,5	13,5/10,6	18,1/14,3	28,1/21.6
Refrigerant		R407C	R407C	R407C	R407C	R407C
COOLING/COLD WATER - 4 rows						
CLNW VERSION						
Cooling capacity (water in/out T 7/12°C)						
Intake T +27°C/46% RH- total/sens.	kW	NO	8,7/7	12,1/10	16,5/13,5	24,8/20.3
Cold water flow rate	m3/h		1,49	2,06	2,81	4,25
Water pressure drop	kPa		18,4	19,6	22,8	20,5
Cold water valve	DN		20	20	20	25
FAN MOTOR UNIT						
Type		Plug fan	Plug fan	Plug fan	Plug fan	Plug fan
Number		1	1	1	1	1
Motor type		External motor	External motor *	External motor	External motor	External motor
Impeller diameter	mm	350	280	310	350	400
Motor power input	kW	2,5	1,5	2,2	4	5,5
Max nominal current	A	4	3,25	4,36	7,48	10,2
Speed	1/min	1663	2860	2840	3087	2917
HUMIDIFYING						
Type		NO	Steam	Steam	Steam	Steam
Max quantity			1	1	1	1
Max.steam output	kg/h		8	10	15	45
Power input	kW		6	7,5	11,25	33,75
Current input	A		8,7	10,9	16,3	48,8
Water supply	bar		0-2	0-1,7	0-1,7	0-2,3
Water conductivity	µS/cm		350-750	350-750	350-750	350-750
HEATING / ELECTRICAL HEATING						
Heating output	kW	9	7,5	12	15	22,5
Max stages		3	3	3	3	3
Current input	A	13	10,8	17,3	21,7	32,5
Electrical connected load	kW	9	7,5	12	15	22,5
HEATING / HOT WATER - 1 row						
Heating capacity (Intake T +15°C)	kW	NO	7,29	10,9	14,1	22,4
Hot water flow rate (T 60-80°C)	m3/h		0,32	0,48	0,62	0,99
Water pressure drop	kPa		26,3	12,4	23,3	27,4
Hot water valve	DN		10	10	10	10
DIMENSIONS						
Width	mm	1200	1750	2030	2230	2760
Depth	mm	700	880	880	880	1090
Hight	mm	1950	1995	1995	1995	1995
Weight	kg	500	700	800	850	1200

Technical data of models with centrifugal motor fan (Type A) or vertical motorised impeller module (Type R) on request.

Technical data of models CLN3X 15 BD/CLN3W 15 BD (15 000 m3/h) and CLN3X 20 BD / CLN3W 20 BD on request.

* CLN3X 2BD and CLN3W 2BD models are equipped with vertical freewheel fan.

CLN 3G X 2 A D

D - Air intake / Air supply configuration
- D - Top air intake and air supply
- S - Bottom air intake and top air supply
- Front air intake on request

A - Fan type
- A - Centrifugal motor fan
- B - Horizontal single inlet motorised impeller module
- R - Vertical single inlet motorised impeller module

2 - Air flow index
- 2 for 2000 m3/h max
- 3 for 3000 m3/h max, etc

X - Cooling mode
- X - Direct Expansion
- W - Chilled Water

CLN 3G - Clinicair 3
CLN 4G - Clinicair 4

Clinicair 4 (BS-PAS)				
CLN3X 8BD/CLNW 3W 8BD	CLN3X 12BD/CLNW 3W 12BD	CLN4X 3BD/CLNW 4W 3BD	CLN4X 6BD/CLNW 4W 6BD	CLN4X 8BD/CLNW 4W 8BD
8000	12000	3000	6000	8000
600	800	500	500	500
39,7/30,1	58/44	13,5/10,7	29,5/22,4	39/29,6
R407C	R407C	R407C	R407C	R407C
34,4/27,8	47,5/39,9	12,1/10	24,5/20,3	35,3/28,2
5,89	8,14	2,06	4,2	6,05
19,2	20	19,6	13,3	33
32	32	20	25	32
Plug fan	Plug fan	Plug fan	Plug fan	Plug fan
1	1	1	1	2
External motor	External motor	External motor	External motor	External motor
400	500	310	400	2*310
5,5	11	2,2	5,5	2*3
10,2	20,7	4,36	10,2	2*5,73
2930	2373	2840	2849	3523
Steam	Steam	Steam	Steam	Steam
1	1	1	1	1
45	45	10	15	25
33,75	33,75	7,5	11,25	18,75
48,8	48,8	10,9	16,3	27,1
0-2,3	0-2,3	0-1,7	0-1,7	0-2,3
350-750	350-750	350-750	350-750	350-750
30	45	12	22,5	30
3	3	3	3	3
43,4	65,0	17,3	32,5	43,4
30	45	12	22,5	30
27,7	40,8	10,9	22,6	30,3
1,21	1,8	0,48	1	1,34
21,2	13,3	12,4	14	28,7
15	20	10	10	15
3250	3420	4020	4320	4320
1090	1340	875	1250	1500
1995	1995	2210	2210	2210
1350	1550	950	1400	1700

ATA Air Flow Ceiling

The range of **ATA Laminar Air Flow Ceilings** ensures efficient protection against contamination which can occur during invasive acts and caused by airborne inert or living particles.

ATA Laminar Air Flow Ceilings are available in **square, rectangular, octagonal or round shapes** in order to suit any room layout and answer specific requirements to create a clean zone around the patient, medical staff and medical devices. The ceilings are **mainly used with CLINICAIR Air Handling Units**, but can be also adapted to another AHU.

The units are dedicated to operating rooms in order to **fight airborne infections and meet ISO 5 standard** (compliance with EN ISO 14644-1) as well as to the pharmaceutical industry.

ATA has developed **two ranges** which correspond to different standards:
- **NFS 90-351 Range:**
rectangular, square, octogonal ceilings (on request)
- **DIN 1946 Range:**
rectangular, round, octogonal ceilings


Round

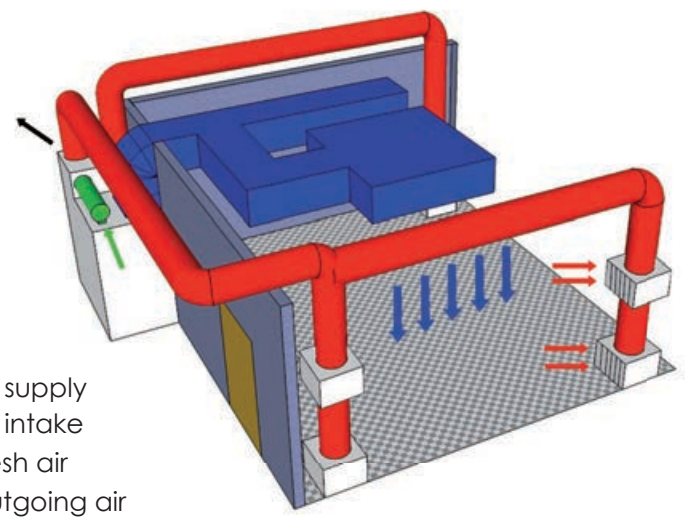

Octogonal


Rectangular / Square

Advantages

- Easy installation and filter replacement
- Easy fitting
- Various shapes
- Adaptable with all types of Air Handling Units

Example: CLINICAIR® 3 with ATA Laminar Air Flow Ceiling



Technical Data

NFS - 90 - 351 range

L x W mm	Airflow m3 @ 0.25 m/s	Filtration area	Height mm			Height mm			Nbr of filters *
			150	280	300	350	400	450	
1263x1310	1350	1,49 m^2	■	■	■	X	X	X	2
1263x1960	1675	1,86 m^2	■	■	■	X	X	X	4
1263x2269	2000	2,23 m^2	■	■	■	X	X	X	4
1959x1959	2680	2,98 m^2	■	■	■	X	X	X	6
1959x2525	3690	4,1 m^2	■	■	■	X	X	X	6
2200x3000	3680	4,09 m^2	■	■	■	X	X	X	8
2421x3179	4690	5,21 m^2	■	■	■	X	X	X	8
2612x2569	5020	5,58 m^2	■	■	■	X	X	X	10
3000x3179	6700	7,44 m^2	■	■	■	X	X	X	10
3000x4000	8040	8,93 m^2	■	■	■	X	X	X	10
3600x3600	8040	8,93 m^2	■	■	■	X	X	X	14

X horizontal filter integrated to LAF, air distribution through perforated metallic grille or stretched fabric
* 70 mm thickness for 350 mm height and above - initial pressure drop 100 Pa @ 0.25m/s
■ air distribution through stretched fabric, sideway filtration

- Frame made of 15/10 electro galvanized metal sheet with epoxy RAL 9010 or stainless steel (AISI 304L or AISI 316L).
- Air distribution through metallic grille or stretched fabric.
- Lateral duct connections.
- HEPA H14 filtration (ULPA 15 optional).
- Metal lateral apron to stop induction (height 100 mm) with epoxy paint (transparent apron optional).
- Central passage for surgical light.
- Measuring connection for Emery testing and/or filter pressure drop measuring.
- Possibility to add Bioxigen ionisation system: bactericidal, fungucidal, virucidal action.

DIN 1946 range

Zone type		Rectangular			Round							Octogonal					
		1.4x2.4	1.6x2.4	1.8x2.4	ø 2.2	ø 2.4	ø 2.8	ø 3.0	ø 3.2	ø 3.5	ø 3.8	2.4x2.4	2.8x2.8	3.0x3.0	3.2x3.2	3.5x3.5	3.8x3.8
Dimensions	A	2.506	2.506	2.506	2.306	2.506	2.906	3.106	3.306	3.606	3.906	2.506	2.906	3.106	3.306	3.606	3.906
	B	1.506	1.706	1.906								2.506	2.906	3.106	3.306	3.606	3.906
	H	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420
Protection zone	m2	2,6	3,1	3,5	3,1	3,8	5,3	6,2	7,0	8,6	10,2	4,2	5,7	6,4	7,4	8,9	10,9
Number of filters		3	3	3	3	3	4	5	6	7	8	4	5	5	6	7	8
Initial filter pressure	Pa	140	160	175	160	185	185	175	165	170	175	155	160	180	170	175	185
Nominal volume flow	m3/h	3.025	3.460	3.890	3.420	4.070	5.550	6.360	7.250	8.660	10.200	4.490	5.830	6.560	7.500	8.950	10.920

- Metallic frame made of aluminum with Epoxy Ral 9010 white paint.
- Air distribution through double stretched fabric.
- Lateral duct connections.
- HEPA H13 filtration.
- Transparent anti-induction lateral apron.
- Central passage for surgical light.
- Measuring connection for Emery testing and/or filter pressure drop measuring.
- LED or standard lighting.

ATA Commitment

In hospital field, the fight against airborne diseases remains the priority for all health actors around the world.

For over the last 25 years ATA has made it a priority to become one of the main actors in this market and to be recognized today as one of the leading experts in risk area air handling.

In order to obtain suitable air quality it is important to take into account the specifities of the area and the objectives in terms of particulate and bacteriological cleanliness class, and to define the following parameters:

- **Air diffusion method,**
- **Filtration efficiency,**
- **Air flow rates and conditions (temperature and humidity) at the air supply, air intake, fresh air and outgoing air,**
- **Noise level allowing users to work in comfortable conditions.**

Despite the fact that various individual approaches exist as to the choice of air handling units to be installed, everyone agrees that only the performant "hygienic" equipment will be efficient in eradication of microorganisms (bacteria, viruses, mold, yeast...) using inert air particles to move around and develop.

Therefore, designers, manufacturers and users, as well as maintenance teams will ensure, at their respective levels, that performant "hygienic" equipment is selected to achieve the objectives; that it is installed respecting good practices; that it is commissioned and maintained in good operating conditions according to the supplier protocols.

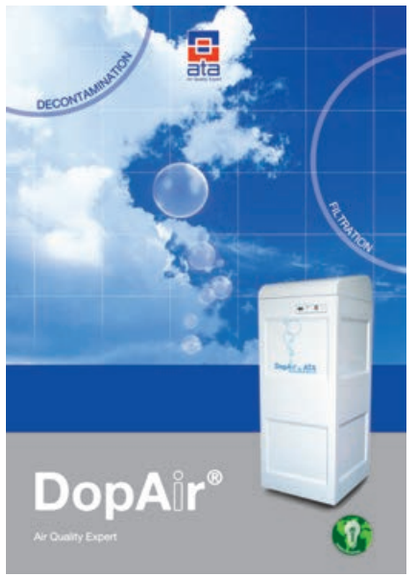
ATA commits to design and deliver the best solution according to the building characteristics and the activities concerned.

ATA is **an Expert in Air Quality** who will provide you with:

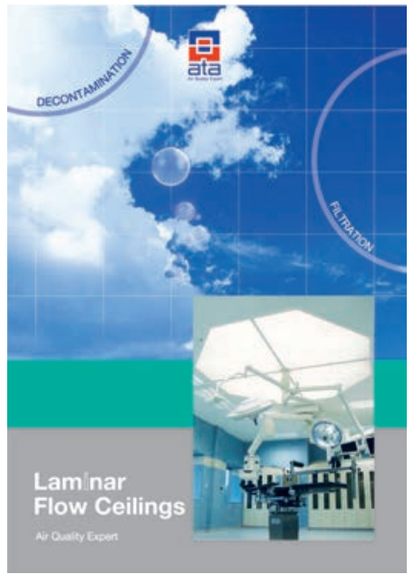
- **an objective recommendation as to the solution to implement,**
- **a strong commitment to select performant hygienic equipment,**
- **an assistance of a qualified technician in equipment commissioning,**
- **a technical training (ATA is an approved training center),**
- **a remote assistance to provide problem-free operation.**

Other products in ATA Range:

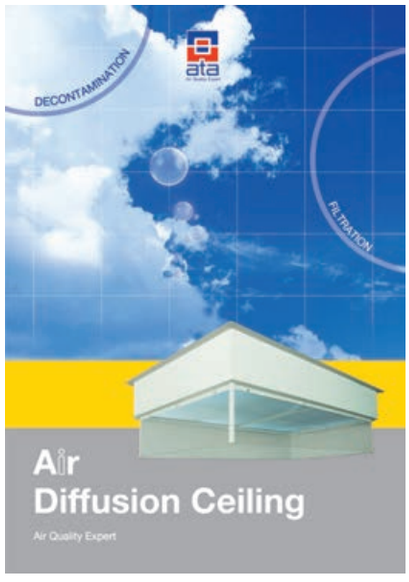
Mobile Air Treatment Units:



Laminar Air Flow Ceilings:



Air Diffusion Ceilings:



Protected Environment Transport Chambers:

SOME REFERENCES

In France:

Victor Provost Hospital, Roubaix - Operating theatres and intensive care unit ISO 5 / ISO 7
Robert Debré University Hospital, Paris - Pediatric oncology rooms ISO 5
Antony Private Hospital - Isolation room ISO 8
Steri Service, Clichy - Sterilisation ISO 7
Rothschild Fondation - Cardio vascular operating rooms ISO 5
Val d'Or Clinic, St Cloud – Cardiac operating rooms ISO 5
University Versailles, St Quentin - CNRS Laboratory ISO 5
The Americain Hospital, Paris - Vascular operatings rooms ISO 5
Jacques Cartier Hospital, Massy - Hybrid operating room ISO 5
Nantes University Hospital - Operating rooms, recovery rooms ISO 7

Worldwide:

TURKEY	Ankara Yükses Ihtisas Hastanesi - Operating rooms ISO 5
ROMANIA	Virusology Timisoara - Operating rooms ISO 5
LITHUANIA	Silute Hospital - Orthopedic room ISO 5
MOROCCO	Hassan II University Hospital, Fes - ISO 7
ALGERIA	Mustapha University Hospital, Alger - ISO 7
PAKISTAN	ICU and Urology, Lahore - ISO 7/ ISO 5
TUNISIA	Djerba la Douce Clinic - Cardiac surgery ISO 5
NIGERIA	Cardiac center, Lagos - ISO 5
CAMEROON	Sanmelima Hopistal - Operating rooms ISO 5, ICU ISO 8

And many others...

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Our range of products:

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