












by **CONCEPT'COMM**

CONCEPT CLIM 3000
STEAM CLEANER
SPECIAL AIR CONDITIONING

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PRESENTATION

Innovative company, IBL designs, makes and markets under its Brand: IBL SPECIFIK © specific machines allowing to realize operations of cleaning and disinfection. Its three main materials are: the foam gun, the steam cleaner dries saturated, the machine of disinfection by air traffic.

French designer and manufacturer: www.iblspecifik.com

We design and make a range of devices of cleaning and disinfection intended for the professionals and the industrialists. We work only with European suppliers. All our components were selected, tested then validated by our engineers, to guarantee one very high quality of manufacturing and devices 100 % French Manufacturing.



Search and Development - Customer service quality

We invest massively in the innovation, the research and development: the technologies of IBL are patented at the world level.

We assure the marketing of our products without intermediaries, to stay in the closest to the expectations of our customers and to guarantee an after-sales service quality manufacturer.

A respectful initiative of the man and his environment

We have the will to supply a reliable equipment while respecting the man and his environment. Our purpose is to bring less consumer innovative technology solutions of chemistry, water and energy. With our devices, we use only ecological and biodegradable products.

IBL'S TECHNOLOGY

Dry saturated steam effects and advantages

The steam, as a source of heat, has numerous effects on the viability of microorganisms. The vapor, which is a gas, brings together, at a single time, a detergent activity and biocide (combined effects of the temperature and the pressure). Furthermore, it also possesses a very important cleaning power because it acts as a surfactant which dissolves fats and cleans in depth. The steam dry technology under pressure is a relatively dry jet (approximately 5 % of water), thrown under pressure on the surface to be cleaned and this at high temperature. So, it is going to cause a denaturation of proteins, a disintegration of nucleic acids and can destabilize walls and cellular membranes ... Furthermore, it possesses a spectre of very wide activity and microorganisms will not develop mechanisms of resistance because this method brings in no chemical molecule.

The cleaning / disinfection steam is an attractive solution, because contrary to the conventional chemicals, this process presents no toxicity and allows to avoid the use of cleaner or disinfectant by using the quality naturally degreasing some hot water, the mechanical effect of the pressure of ejection of the vapor and the effect biocide of the heat.

The devices of the range of professional and industrial steam cleaners of IBL allow to clean and to disinfect surfaces such as grounds, walls and equipment (in particular in hospitals and communities). The steam dry technology under pressure is a dry jet thrown under pressure of at least 6-8 bars on the surface to be cleaned, in a temperature furthermore of 160°C. The combined effects of the temperature and the pressure will have then a detergent activity and biocide on surfaces.

In conclusion the steam cleaner CLIM 3000 allow:

- To obtain an excellent pre-disinfection
- To decrease the use of chemicals
- To reduce the consumption to water
- To move away the risks of contamination

Mecanisms

Visual cleanliness

Steam cleaners are going to produce some high-temperature steam (of 120°C in 190°C in boiler) and at high pressure (≥ 7 bars). These two properties can also facilitate the cleaning. Useless to make the demonstration of the superiority of the hot water on the cold water to dissolve the dirt. As for the high pressure of vapor got out of it from buzzard, she allows to blow spots and to handle hidden recesses and inaccessible harshness by surface finishing.

Disinfecting

In terms of disinfection, it is not only the wet heat and the pressure that confer a power biocide in steam cleaners (Hilaire, on 2011). By liquefying, the steam gives up some energy which produces some latent heat of condensation (enthalpy). This change of state causes the irreversible denaturation of bacterial proteins by hydrolysis of connection. So that a steam cleaner disinfects correctly a surface, it is thus necessary that it produces the least wet possible and the most gaseous possible water in a way that a maximum of water in the gaseous state has to condense at the level of the buzzard of exit.

The temperature of the produced vapor also determines the power biocide of the process. Yet, there is only a way to produce some steam in a superior temperature in 100°C: by increasing the pressure beyond the atmospheric pressure. That is why, steam cleaners are capable of producing of the vapor in more than 5 bars so as to reach a nearby temperature of 150°C. However, it is not desirable to produce a too hot vapor "not so as to cook" the handled surface. Thus the good compromise seems to be to use a steam cleaner producing of the vapor between 5 and 8 bars between 150 and 180°C. When the boiler produces of the vapor between 6-8 bars thus between 150-165°C, it allows to have a vapor around 100°C got out of it from buzzard on the condition of having accessories, in particular tips or flexible hoses, correctly calibrated and sized (Hilaire, on 2011).



GENERAL DATA CLIM 3000

*Non contractual photo



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CLIM 3000 | OVERVIEW

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The Clim 3000 allows to clean and decontaminate the most inaccessible surfaces. Its versatility facilitates the work of the operator which wins in mobility and efficiencies.

CLIM 3000

- Pressurized steam and very high-temperature (7 bars and 175°C)
- **Powerful and mobile, it is easy to handle**
- Its hull in stainless steel assures it a very important robustness
- With only one button, it is very easy to use it
- Anti calcareous integrated system
- Water pump overheat
- Multi choice Flexible hose
- 1/Steam, 2/Steam + Water, 3/Water
- «Saver» Reduction of the electric power

*Non contractual photo



Steam cleaner's advantages

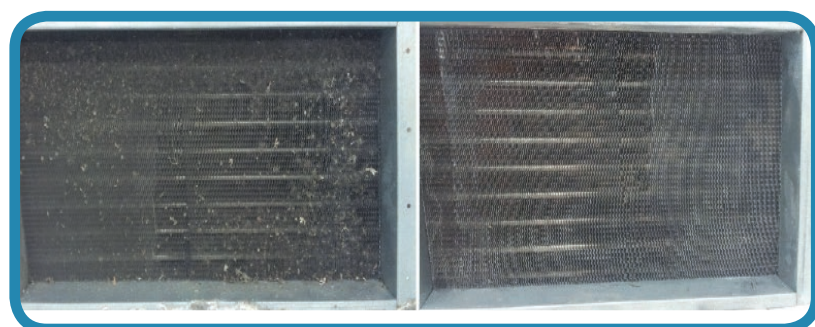
Faster cleaning on every plane surfaces and with complex forms

- Air conditioners
- Fins
- Capacitor
- Coolers
- Condensate bin
- Pipings of the air conditioner
- Air filters
- Drainage cases
- Air vents

Fields of application :

- Air conditioners
- Air treatment station
- System split
- Fan-coil unit
- Heat-pump

Degreasing and cleaning of the indepth surfaces



Before (left) and after (right) steam cleaning

CLIM 3000

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Pack 3 wheels in option.



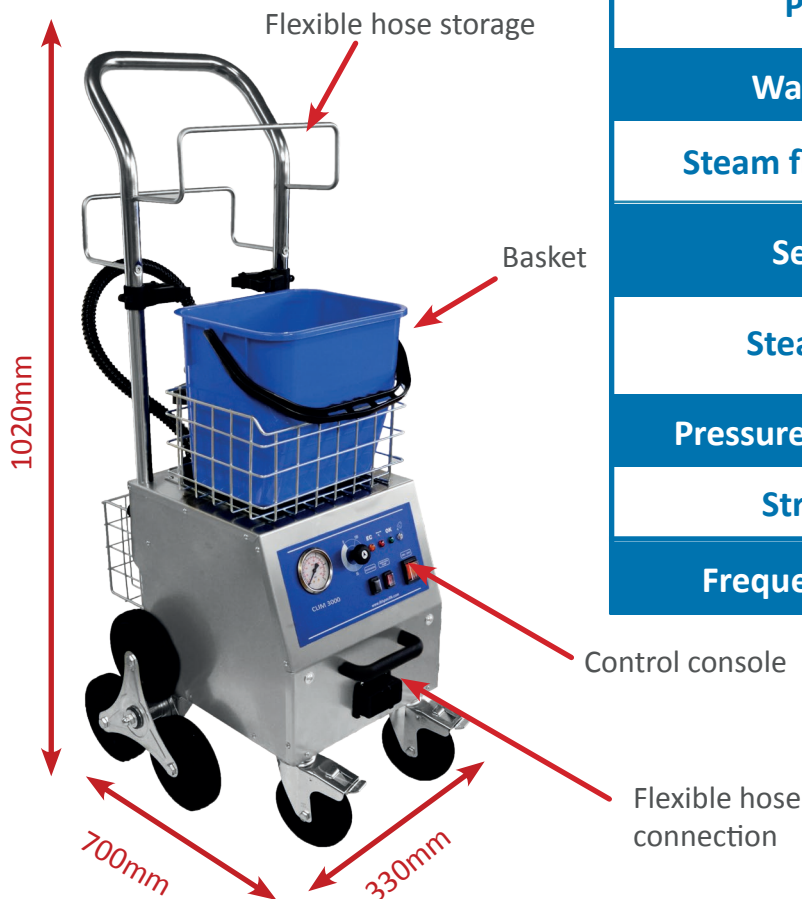
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CLIM 3000 | OPERATION

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Technical Characteristics

Weight	28kg
Power	3400 W (230 V)
Water tank	5 liters
Steam flexible hose	4 metres
Security	Overheat boiler
Steam flow	85 g / min
Pressure / T°C steam	7 bars/ 175°C
Structure	INOX AISI 304L 1,5MM
Frequency of use	7h / day



*Non contractual photo

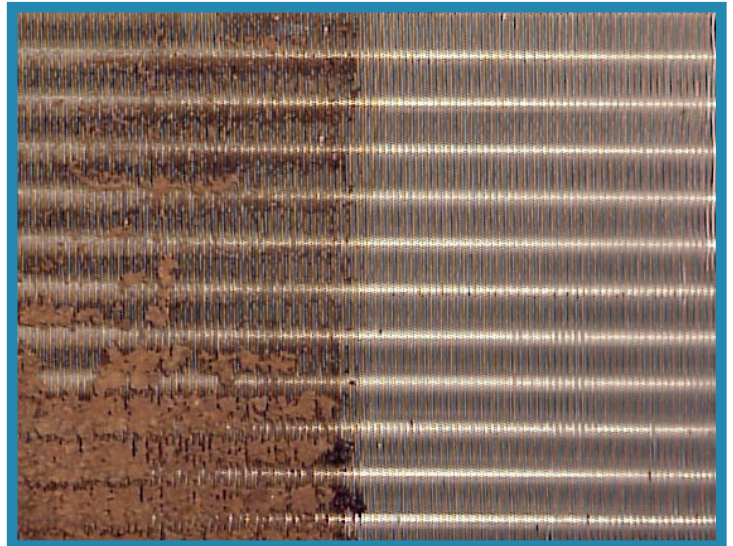
CLIM 3000's operation

- 1 ONLY use water in the tank behind of the machine.
- 2 Turn on the machine, wait appoxiately 5 minutes that the green light bliking.
- 3 Pass with flexible hose and cranny by respecting the following rules:
 - Go futhermore cleaner to the dirtiest.
 - Of the top upward for the vertical surfaces.
 - Always of the most distant in the most central.

CLIM 3000 | APPLICATIONS

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AIR CONDITIONING



CLIM 3000 | STEAM ACCESORIES

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1



2



3



4



5

6



7



1 Steam flexible hose 4m with metal tips

2 Strengthened long steam lance metal

3 Strengthened curved steam lance metal

4 Shortsteam nozzle carry comb

5 Brush/comb in brass (Ø 50 mm) x2

6 Connector tubes (500mm) x2

7 Sensor of smoother surfaces (glass)

KIT CLIM 3000



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COMPOSITION KIT CLIM 3000 COMPLET

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VACUUM CLEANER CLIM

Vacuum cleaner prompter for water and wet dust, light, very resistant and powerful. It can be used with or without paper bag. Its washable filter is antimicrobial treaty. It is useful for a professional use.



Accessories Ø36 - VACUUM CLEANER CLIM



Type	Water and Dust
Power (Watts)	1200 W
Voltage	220/240
Flow (in m3 /h)	256
Depression column water	1800 mm
Number of engine	1
Capacity of the tank (litre)	15
Carriage	Caster
Noise level (dB)	70
Size (lxLxh cm)	38x38x50
Weight (kg)	7
Kit ACC INCLUDE	Ø 36

	Description
1	Suction hose 2,5m
2	Connector tubes
3	Ground sensor
4	Long nozzle
5	Flat nozzle
6	Paper bag (en option)

COMPOSITION KIT CLIM 3000 COMPLET

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KIT CLIM 3000 Accesories	Description
	<p>Flexible hose of blower 3,5m</p>
	<p>Aspiration hose with reducer 3,5m</p>
	<p>Supple flexible hose of aspiration</p>
	<p>Swab</p>
	<p>Atomizer with adjustable pressure 1,5l</p>

COMPOSITION KIT CLIM 3000 COMPLET

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CLIM 3000 KIT Accesories	Description
	<p>Cotton cloth x1kg</p>
	<p>Microfiber x5</p>
	<p>Total facial protective mask</p>
	<p>Special cleaner for plastic (hull air conditioner)</p>

COMPOSITION KIT CLIM 3000 COMPLET

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CLIM 3000 KIT Accesories	Description
	<p>Desinfecting Desogerme Virex 50 ml</p>
	<p>Dégreaser CLEAN D+ 5L</p>
	<p>Comb with fins</p>
	<p>Cover with eyelet + bungee cords</p>
	
<p>Recovery container</p>	



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CLIM 3000 REVIEW

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STEAM AND AIR CONDITIONING REVIEW

This review is dedicated to the specialists of the sector of the air conditioning.

In France, in recent years many home, companies and industries are outing of the air conditioning systems. The regular and adapted maintenance of air conditionness is essential to guarante to the customers a quality and sanitary control.



The air conditioning development is connected firstly to the increase of the comfort in buildings, factor of productivity in the tertiary sector, and the research for comfort for private individual:

The heat wave of 2003, boosted the development of the air conditioning in the residential sector. In 2007, almost 1 million housing were equipped, or three times more than in 2001 (CEREN, 2009);

Besides developping quickly in the residential sector, the park of air conditioned buildings is in constant increase in the tertiary sector (Clim'Info);

An upward trend which will continue in the coming years in the construction sector and whiwh risks to be acceslerated by the effects of climate change.

Although air conditioning systems participate widely in the thermal comfort, it is important to remind that they can come along with some sanitary, environmental and economic inconveninces. Indeed, the air conditioning can be connected to the development of certain pathologies and to the energy overconsumption.

To guarantee the preservation of the performances of the installation, thus it is recommended to make her maintain regularly even if from a statutory point of view, there is no obligation at the national level.

Legionella, allergies, biofilms... So many terms wich return more often in the media and whiwh the increasing importance shows which take on the problems of safety and hygiene in our society. To answer these greater requirement, the specialists of the sector of heating and the air conditioning are obliged to develop and to guarantee a regular and quality maintenance of installations organized at their customers' home.



Legionella



Aspergillus

STEAM AND AIR CONDITIONED REVIEW

HEALTH RISKS

A poor maintenance of the devices of air conditioning, as well at the private individuals as in business premises, can be at the origin of the development of more or less severe diseases.

The affection can be due to microorganisms (bacteria, viruses, molds...) which colonize the water which stagnates in conduits or on the internal surfaces of devices before being put back in circulation and pulverizing in the ambient air.

Symptoms most often indicated:

Respiratory problems, whistling, congestion of the sine, eye embarrassment, difficulty to wear contact leases, unusual taste in the mouth, narrow-minded nose, oppressed breast, sneezes, dry throat, headaches...

A single badly maintained device will be enough to cause the emergence of these various symptoms.

We list 4 big types of pathologies stemming from installations badly maintained today:

PATHOLOGIES	DANGERS ET RISKS
Legionella	<i>Legionella proliferates easily and quickly in badly maintained conduits (between 25° and 34°C). Bacterium at the origin of lung infections, of respiratory failures, of pneumothorax... and can lead to the death (10% of cases).</i>
Mushrooms - Molds	<i>Most of the time found: Aspergillus. A high rate of humidity combined in an inadequate maintenance of the systems of heating, ventilation and air conditioning contributes to the growth of molds.</i>
Allergies	<i>Asthma, allergic rhinitis, repeated sneezes... The air conditioning can lead to the worsening of allergies to the most fragile because the recycled air can concentrate the present allergens in the air.</i>
Syndrome of the unhealthy buildings	<i>Overall of symptoms mainly owed to a bad quality of internal air. A high concentration of molds associated with a humidity or with an excessive condensation, or the presence of organic matters can be the sources of the inflammatory answers and lung problems.</i>

STEAM AND AIR CONDITIONED REVIEW

ENVIRONMENTAL AND ECONOMIC RISKS

A well maintained air conditioning system be more economic and more ecological:

- A rate of high fouling is going to cause a considerable increase of consumption in electricity.
- A no maintained or badly maintained device can consume until 30% more in electricity.
- According to certain manufactures of air conditioning, 8 grams of dust can cause 25 to 30% of electric consumption in more.

The devices of air conditioning are also very “energy-consuming”: 5% of the consumption of electricity of buildingd is connected to the air conditioning, in particular in the tertiary buildings. The consumptions connected to the air conditioning of the industrial premises remain lower than the total consumptions of the sector, but are five times superior to those of the sector of the residential buildings.



A regular and meticulous maintenance realized by a professional is going to allow the private individuals and the companies having air conditioning systems to master their energy expenditure and to save money.

The maintenance of air conditioning installations with adapted, ecological and effective procedures will be thus essential to guarantee to the customers a quality and sanitary and energy control.

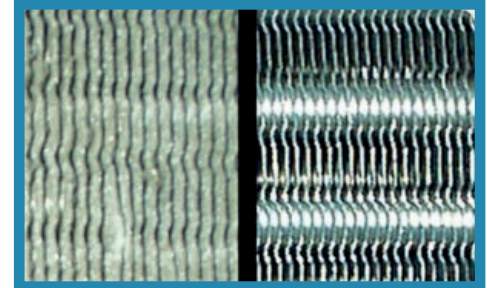


STEAM AND AIR CONDITIONED REVIEW

STEAM SOLUTION

The steam in more of 16°C is going to have a powerful detergent action by dissolving the dirt and the fats. Associated with pressure from 6 to 8 bars, the steam is going to clean in depth and to dislodge the present spots in the inaccessible zones in particular between fins.

The pressure is going to allow a mechanical action, by moving and removing the dirt but without lining surfaces to clean nor to twist the often fragile fins. Furthermore, the heat can have a lethal effect on microorganisms and so allow to disinfect condensers, coolers, fins.



Before Steam After Steam

The efficiency of the IBL concept's dry steam was proved on the cleaning of air conditionings and filters air treatment station:

During tries realized at COFELY GDF-SUEZ (SOCCRAM Île-de-France) in 2013, we were able to estimate the efficiency of the vapor on the cleaning of a air treatment station:

- On the air treatment station
- The dirtied filters were unsettled then a simple steam passage was made (photo below)



Before Steam

Visually we noticed a very effective dust removal from filters.

Furthermore, measures of speed of blowing were realized after cleaning:

- Before steam cleaning : **19700 m³/h**
- After steam cleaning : **40700 m³/h**



After Steam

The steam cleaning of air treatment station is really effective, it allow to clean well filters and to clean minutely fins and this without twisting them or damaging them.

STEAM AND AIR CONDITIONER REVIEW

PROFESSIONAL'S TESTIMONIES...

... Who trust the IBL's steam.

"During tests realized on our air treatment station of municipal swimming pool, we noticed a real efficiency of the steam: few water, a fast cleaning and a simplicity of use. This steam cleaner respects the integrity of fins and improves considerably the speeds of blowing of air treatment stations."

M. Dos Santos - Technician in energy system - SOCCRAM GDF-Suez



"I have a IBL machine since 2 years, in majority at private individuals and ERP The steam machine is really efficient and allows to clean and to disinfect in depth the air conditioners and to find the performances of origin."

M. Bertet - Installer - Climclean-30 -

THE STEAM : FOR A PURER AIR...