



**Available in stainless steel**

88 lbs. of carbon / 882 CFM

Unit dimension.

27.6" x 27.6" x 79"

700mm X 700mm X 2000mm

Our **Indoor Air Quality System (IAQS)** ensures the air you breathe inside is actually cleaner than the air outside.



The **NEW GENERATION** of Environmentally Friendly **Air Purification Systems**

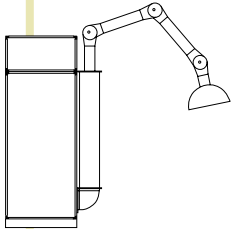


**THIS UNIT IS IDEAL FOR THE HEALTH SECTOR AND SPECIFICALLY...**

- ▶ Laboratories
- ▶ Plaster cast rooms
- ▶ Sterilization rooms
- ▶ Pathological anatomy rooms
- ▶ Operating preparation rooms
- ▶ Recovery rooms
- ▶ Eye laser surgery
- ▶ Anaesthesia zones
- ▶ Morgues / Autopsies
- ▶ Isolation wards
- ▶ Funeral homes
- ▶ Private clinics
- ▶ Dental clinics
- ▶ Emergency departments
- ▶ Veterinary clinics

**Medical Hygiene Division**  
designed in Italy

## AIR DEFENDER CLINICAL 1500 MEDICAL HYGIENE



### Medical Environments

Air quality improvements in health-care settings is a vital constituent of modern airborne hygiene procedures. It is also of great importance with regard to occupational health & safety requirements in medical institutions. Improved Air Quality not only helps to provide a healthier and more pleasant environment for patients, staff and visitors, it also makes economic sense due to its relevance as a preventative infection control measure.

### Air Quality Requirements

The air quality requirements in health-care settings vary from department to department and often even from room to room. Some areas will require high-efficiency filtration of airborne micro-organisms to protect patients, staff and visitors (e.g. in operation theatres, ICUs SARS/ TB isolation rooms), whereas other areas require the filtration of gaseous contaminants, chemicals and odors to provide a safer and more pleasant working environment. (e.g. in laboratories, autopsy rooms, dental surgeries and pharmacies)

The requirements for professional air filtration systems in medical settings can be broadly divided into the control of airborne micro-organisms and the control of chemical compounds & odors.

### Control of airborne micro-organisms (airborne infection control)

The control of airborne micro-organisms (e.g. bacteria, viruses, fungal spores) is of major importance in medical settings due to the fact that a great number of diseases and infections are caused by airborne pathogens and are transmitted via the air.

### Hospital acquired infections

Of particular concern of nosocomial (hospital acquired) infections. They can have serious consequences in terms of increased patient mortality, morbidity, length of hospital stay and overall costs. Especially immuno-compromised patients (such as organ & bone-marrow transplant recipients, oncology and haematology patients) are at risk as their immune systems are more vulnerable to infectious pathogens such as aspergillus.

### Control of chemical compounds & odors

By filtration of ambient air

By creation of pressure differentials  
Containment of chemical compounds & unpleasant odors (negative pressure areas)

By source capture

Filtration of chemical compounds & unpleasant odors at their source.

***An exceptional machine  
for investing in health.***

**Medical Hygiene Division**  
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### Code

902011243

### Description

Air Defender 1500  
( dim. 27.6" x 27.6" x 79" )  
( dim. 700mm x 700mm x 2000mm )

### Spare parts

Synthetic Filters (Pre-filter + filter)	(3 months)
Filter HEPA H 13	(9 months)
Activated carbon filter (22 lbs.)	(12 months)

### Technical characteristics

Weight (including carbon)	lbs.	330
Air capacity	CFM	882
Activated carbon	lbs.	88
Engine speeds	Nº	4
Electrical energy required	Kw	0,35
Motor rev.	RPM	1550

### Options for the Air Defender 1500 (on request)

### Code

BSM 01

BST 02

QD AST

D8 RLO

### Description

Articulated lever with metal hood

Articulated lever with transparent hood

Sparkproof panel

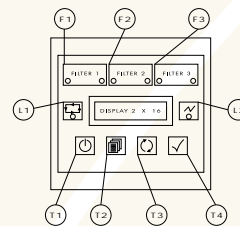
Air quality sensor (for machine auto-start)



### Air purification control panel option

The air purification control panel ensures a better operating control of the units main functions.

Weekly starting / stopping can be programmed • Filter operating hours can be verified as well as the remaining operating hours • Filter pressure can be verified • Fan's total operating hours can be verified • Unit starting / stopping by means of the air quality feeler (optional) • UV germicidal lamp notification



The control panel was designed in order to control the main functions of the purification system unit.

This electronic control card assures that the unit is functioning properly by scheduling fans starting operation, controlling the filters and UV lamp usage.

The control panel also allows easy and fast visibility to view the units condition.

### Control buttons:

- ▶ Four key buttons: T1, T2, T3, T4.
- ▶ Two LED lights for unit function: L1, L2.
- ▶ Tree labels representing the filters: F1, F2, F3, each of them having two LED lights. (Green & Red)
- ▶ A LCD display screen 2 x 16 cm.

The control panel also displays the air quality and enables you to start the fan depending on air pollution.

The control panel can read sensors placed on the filters inlet and the other placed on the outlet, in order to check by comparison the filters saturation.

Weekly starting can be programmed / Remaining filter functioning hours can be viewed / Fans total functioning hours can be viewed.