



FailSafeTM
Air Safety Systems

FASSTM Air Purification & Mobile Containment



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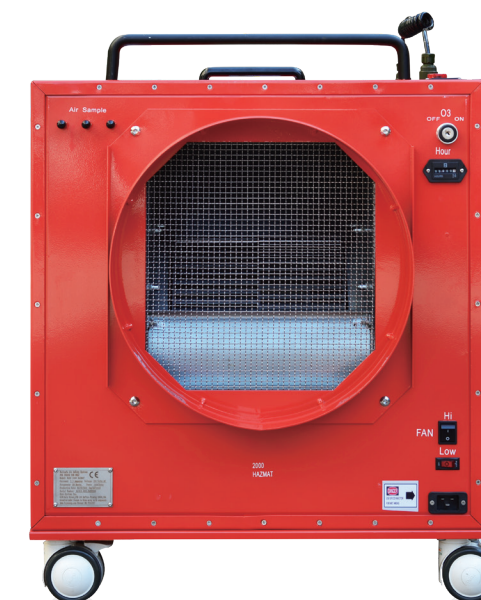
FASSTM Air Purification & Mobile Containment

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Airborne Pathogen Reduction • Odor Abatement • Surface Decontamination • Staff Protection
Hospital Acquired Infections • Temporary Negative and Positive Pressure Environment • Transportaion of infectious Patients



FASS 2000



FASS 1000



SALLI

FailSafeTM
Pure Air

Capture, Contain and Neutralize Airborne Hazards

FailSafeTM
Air Safety Systems

The FailSafe Air Safety Process is a unique and patented air purification technology that integrates HEPA filtration, Ultraviolet light and Ozone.

Air management

The WHO in a fact sheet about "Air quality and health" stated that "Indoor air pollution is estimated to cause approximately 2 million premature deaths mostly in developing countries. Almost half of these deaths are due to pneumonia in children under 5 years of age."

source: WHO fact sheet N°313
<http://www.who.int/mediacentre/factsheets/fs313/en/index.html>



Air Quality & Health Factors

There are many factors affecting air quality around us. Outdoors, air is affected by vehicle and industrial congestion. Indoors, where it matters most, the factors range from ventilation levels, to mold, chemicals, waste and bacteria presence. These factors are easy to detect and notice most of the time, however, "Hospital-Acquired Infection" ranks among the most lethal and least suspected factors.



Hospital-Acquired Infection

Hospital-acquired infection (HAI), also known as a nosocomial infection, is an infection acquired by a patient during hospital care not present at the time of admission.

- According to the WHO, approximately 1.4 million patients per day are affected by HAI throughout the world. Nosocomial infections are responsible for about a million deaths per year in hospitals.
- Depending on the agents involved, an infection starts in any part of the human body and requires three main elements to enter the patient body:
 - A source of the infectious agent
 - A mode of transmission
 - A susceptible host.

Source: MOH Malaysia HAI - Overview Malaysia

Country	HAI Prevalence (%)
Taiwan	1 to 2
Japan	2 to 4
South Korea	3 to 4
Singapore	3 to 4
France	5.4
USA	5.4
Italy	5 to 7
Thailand	7.3
Australia	6 to 8
Spain	8
UK	8.2
Finland	8.5
Malaysia	13.9



FailSafe Solution

- Patented air safety process with >10-4 kill rate on single pass
- Proactive solution for reducing the spread of airborne pathogens
- Proven technologies - HEPA, UV and Ozone
- Mobile/portable solution vs. stationary engineered infrastructure (rooms)
- Low cost of operation & maintenance
- Easy to implement
- Positive & negative pressure or recirculation capability

Create negative or positive pressure environments for:

- Temporary patient isolation
- Temporary staff or patient protection
- Food, drug and manufacturing preparation

FASS 1000 HAZMAT - Specifications

1000 CFM (28.31CM/M) airflow capability at 1-inch water column (249 pa)
Greater than 180 mg/hour Ozone production option
Front and rear 12-inch (305mm) duct adapters
Variable speed fan
1 12X24X11.5-inch (305X610X292mm) HEPA 99.99@ 0.3uM (Microns)
2 dust pre-filters 5 high power UVC lamps
Dimensions W/O HEPA filter:
Length 26"(659mm) Width 14"(350mm)
Height 30"(758mm) Weight 54 lbs. (24.49kg)
Max power consumption 3.4 Ampere, 750 watts 220 Volts 50Hertz
1.5 Meter IEC Power Cord



FASS 2000 HAZMAT - Specifications

2000 CFM (56.63CM/M) airflow capability at 1-inch water column (249 pa)
Greater than 360 mg/hour Ozone production option
Front and rear 16-inch (406 mm) duct adapters
Dual speed fan
1 24X24X11.5-inch (610X610X292mm) HEPA 99.99@ 0.3uM (Microns)
2 dust pre-filters 11 high power UVC lamps
Dimensions W/O HEPA filter:
Length 34" (860mm) Width 26" (667mm)
Height 32" (801mm) Weight 111.7 lbs. (50.7kg)
Max power consumption 7 Ampere, 1550 watts 220 Volts 50 Hertz
1.5 Meter IEC Power Cord



FASS SALLI - Specifications

500 CFM (14.1CM/M) airflow capability at 1-inch water column (249 pa)
Greater than 105 mg/hour Ozone production option
Optional Front and rear 10-inch (254mm) duct adapters
Variable speed fan
1 12X12X11.5-inch (305X305X292mm) HEPA 99.99@ 0.3uM (Microns)
1 dust pre-filters 5 high power UVC lamps
Dimensions with HEPA filter:
Length 26.3" (670mm) Width 14" (350mm)
Height 15.35" (390mm) Weight 53 lbs. (24kg)
Max power consumption 1.22 Ampere, 270 watts 220 Volts 50 Hertz
1.5 Meter IEC Power Cord



Use Ozone and our patented air purification process to:

- Decontaminate a room or structure from surface resident pathogens
- Deodorize a room or structure from such things as cigarettes, smoke, paint, glue, effluent odors and other contaminants

Current recirculation methods are not viable for highly contagious or deadly pathogens which can endanger staff and patients. Our patented air safety process provides $>10^4$ kill rate on any micro organism passing through the system on a single pass.