BioSense™

The smallest, quietest, lowest cost solution for today's airborne threats

THE RECIRCULATOR II

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BIOSENSE

Portable HEPA Filtration Unit

Competitive Product Analysis

Features	*BIOSENSE Recirculator II*
Portable	**Yes**
Size	39" H x 19" W x 13" D
Weight	**55 lbs.**
Output	**575 CFM**
Air changes per hour 13' x 15' x 8' room	**Approximately 22**
Noise level	**53 dB**
Performance monitoring	**Minihelic gauge**
Exhaust: Recirculate & negative pressure	**Both**
Exhaust duct size	**8" diameter**
99.97% effective HEPA	**Yes**
HEPA filter replacement cost	**$123 each**
Warranty	**1 year parts and labor**
Price	**$2,800**

• Price List •

PART NO.	Description	Price
9431	Recirculator II	$ 2,800
9405	Negative Pressure Adapter	$ 199
9402	HEPA Filter	$ 123
9403	Pre-Filter	$ 49

Shipping: FOB San Jose, CA USA 95121
Terms: net 30 days
Prices subject to change

RISK OF CONTRACTING AN AIRBORNE INFECTION IS MOUNTING. Consider implementing Risk Management Controls in accordance with CDC Guidelines, which may include Engineering Controls, such as the Recirculator II by Biosense.

Call Biosense today and see how easy it is to get the air quality management equipment you really need.

YOU CAN CONTROL THE SITUATION NOW!

Recirculator II with negative pressure adapter & duct attached

Minihelic gauge

BIOSENSE Inc.
San Jose, CA 95121
800-941-2844
www.recirculator.com

Made in USA

THE RECIRCULATOR II

BioSense

PORTABLE HEPA FILTRATION UNIT
an important part of any INFECTION CONTROL PLAN

• Description and Operation •

Biosense has the lowest cost solution for the control of today's airborne threats. The Recirculator II was specifically designed to combat the resurgence of Tuberculosis and the control of SARS, Avian Flu, SwineFlu H1N1, and new threats like COVID-19. All products exceed OSHA regulations and provide a way to constantly monitor their effectiveness.

The Recirculator II air purification system can convert standard patient rooms into CDC compliant negative pressure or positive pressure Protective Environments (PE) and Airborne Infectious Isolation Rooms (AIIR) at a fraction of the cost of traditional methods. You also have the flexibility to relocate the Recirculator II to another room quickly, adding isolation wards or patient isolation surge capacity to new or existing facilities easily.

• Features •

- Smallest – 55 lbs., 13" D x 19" W x 39" H
- Quietest – 53 dB
- Lowest cost & lowest disposables cost
- Dual HEPA filters certified 99.97% effective at 0.3 micron
- Minihelic gauge constantly monitors airflow effectiveness
- Dual speed settings (high 575 cfm, low 450 cfm)

• Adaptability • Engineering Controls • Negative Pressure •

The Recirculator II complies with enforcement policies for TB! In part, "Individuals with suspected or confirmed infectious TB ***must be placed immediately*** in a respiratory acid-fast bacilli (AFB) isolation room...A negative pressure area that exhausts room air directly out side or through HEPA filters if recirculation is unavoidable. All high hazard TB procedures must be performed in AFB treatment rooms, isolation rooms, booths or hoods."

..."HEPA filters can be used in a number of ways to reduce or eliminate infectious droplet nuclei from room air or exhaust...in exhaust ducts... in ducts discharging room air into the general ventilation system and in fixed or portable room-air cleaners," and "Portable HEPA filtration units should be designed to achieve the equivalent of equal to or greater than 12 ACH." ***— CDC***

CPL 2.106 "Enforcement Procedures and Scheduling for Occupational Exposure to Tuberculosis", reads in part:

"Since 1985, the incidence of TB in the general US population has increased approximately 14%, reversing a 30-year downward trend."..."Outbreaks have occurred in hospitals, correctional institutions, homeless shelters, nursing homes and residential care facilities for AIDS patients"..."(any) decrease in the number of TB cases since 1994 has likely been due to increased awareness and efforts in the prevention and control of TB, including the implementation of TB control measures recommended by the CDC and required by OSHA."

The Recirculator II can make virtually any room into an AFB isolation room!

GENERAL SPECIFICATIONS

• Standard Features •

RECIRCULATOR II, Part No. 9431

- Height: 39", 40.5" including handle
- Width: 18.5", 18.75" including wheels
- Depth: 13", 16" including wheels
- Weight: 55 lbs. / Shipping weight: 70 lbs.
- Aluminum cabinet design with powder coated permanent finish.
- Maximum noise level 53 dB

• Performance •

- Blower operates on 115v, 60hz at <53 db and produces: 575 cfm on high speed @ 3.2 amps, and 450 cfm on low speed @ 2.07 amps.

AIR CHANGES PER HOUR

How to determine number of air changes per hour (ACH):

- First, determine volume of the area in cubic feet (cf) by multiplying length x width x ceiling height of room in question. Example: 20' long x 12' wide x 8' high ceiling equals 1,920 cubic feet.
- Second, divide the volume of the room by the capability of the Recirculator II to determine rate of air change. Example: 1,920 cf divided by 575 equals one complete air change every 3.3 minutes.
- Last, divide 60 (min/hr) by the rate of air change in minutes deter mined above (3.3) to derive the number of complete air changes per hour (ACH), which in this case is 60/3.3=18.2.

Approximate number of air changes per hour (ACH) using Recirculator II

Application	Room Size Example	Hi-Speed	Low-Speed
Patient or Waiting room	12' x 20' x 8'	18	14
Treatment room	10' x 12' x 8'	36	28
Minim um required by OSHA	12 ACH per CPL 2.106		

• HEPA & Pre-filters •

- 24" x 12" x 3.25" with 0.25" seating gasket
- Extruded aluminum frame, enhanced performance
- Certified and laser tested 99.97% effective @ 0.3 microns particle size
- Also available: laser tested 99.999% effective @ 0.3 microns particle size

- Metal-faced fiberglass, adhesive coated pre-filters at air intake trap gross particulates, thereby protecting component parts and extending the HEPA filter's life.

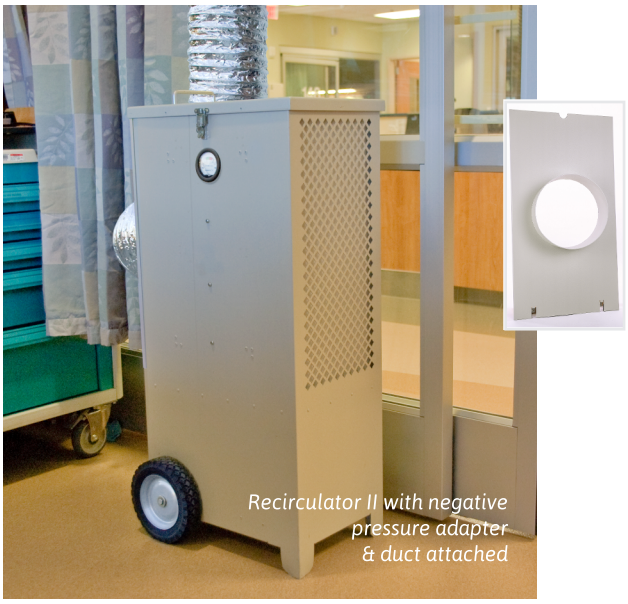
• Continuous Performance Monitoring •

Minihelic gauge measures pressure differentials between plenum and ambient air. Higher readings in dicate loaded or contaminated filters, resulting in impaired airflow and necessity for HEPA filter replacement.

minihelic gauge

Your infection control specialist will determine, in accordance with OSHA and CDC regulations and the hospital's protocol, the required number of ACH for each situation.

• Options •



Recirculator II with negative pressure adapter & duct attached

NEGATIVE PRESSURE ADAPTER (Part No. 9405)

- 8" diameter exhaust duct connects to rigid or flexible ductwork or directly through wall to outside. *(See insert at left)*
- 23.25" x 12.38" x 3.5"
- weight: 2.0 lbs.
- shipping weight: 4.0 lbs

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