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CASE STUDY FILE: RABS & C-RABS SYSTEM

RABSPHERE

FULLY ENCLOSED, CUSTOMIZABLE MODULAR
ASEPTIC FILLING SUITE

CUSTOMER: REI AUTOMATION INC.

APPLICATION:

Robotics Design Engineering for Aseptic process

FEATURES:

- Open RABS provides an enclosed self-contained modular system built around robotics filling equipment.
- 316 Stainless steel construction with tempered glass.
- Fully customizable and modular system.
- Have both Fixed, guillotine and Alpha/Beta doors with interlocks system & access doors for service.
- Have oval aseptic and safe glove ports.
- Fan filtration units with intelligent motors that provide 90' /min.
- Allen Bradley HMI/PLC interface system.
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SPECIFICATIONS:

- Fully customizable and modular restricted access barrier system.
- ISO 5 & unidirectional air flow for cGMP compliance.
- Can be customized around filling equipment, process equipment and robotics using a preassembled 316 stainless steel wall sections with top structural sections to support the FFU.
- Turnkey solution with design engineering, integration, start-up, training, and validation for full cGMP compliance.
- Allen Bradely HMI interface to control the RABS, doors and the FFU.
- Can be decontaminated with H2O2.
- Can be designed to be CRABS.
- Can be exhausted to a BIBO exhaust system for hazardous Aseptic processing.



14x HEPA Filter Unit (2' x 4')

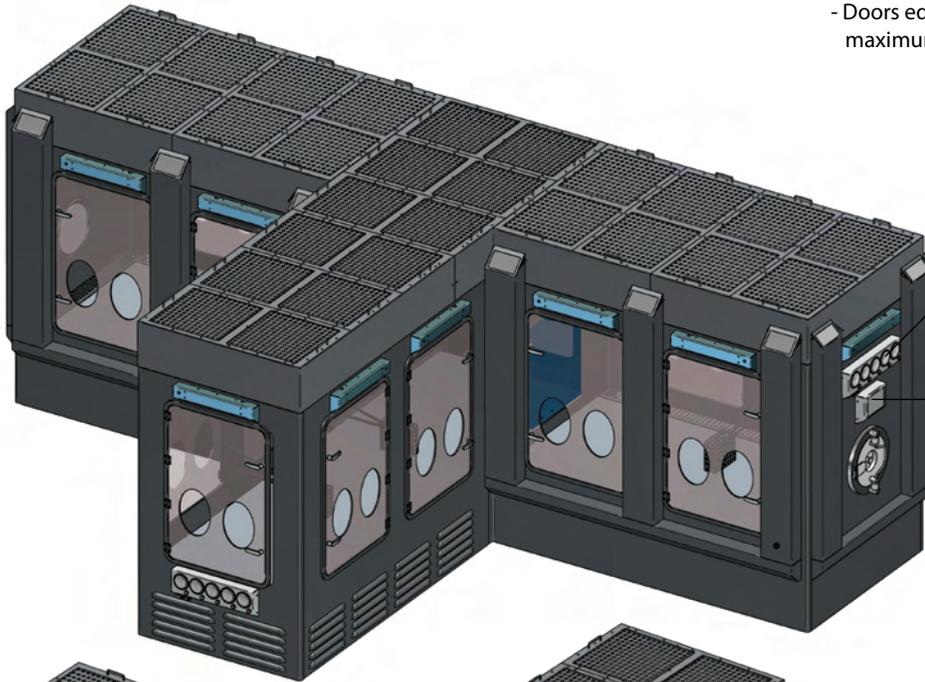
- 90 Feet/Min.@ 12 inches
- Meeting IEST& FDA standards
- Equipped with ports allowing integrity testing.
- Motorize Fan providing Vertical Unidirectional Airflow meeting EU GMP Grade A requirements (ISO 5)
- Chamber with positive pressure at 25Pa u5Pa
- Air quality meeting ISO 4.8 (EU Grade A)
- Air velocity not less than 0.45m/s +/- 10%

Lightning installed on both side of chamber over each door

- Total of 14 Lighting Sets disposed on both side of RABS
- Doesn't radiate in the UV spectrum.
- Individual and Overall On/Off Switch

Doors with Laminated/Tempered 3/8" Thick Glass Window

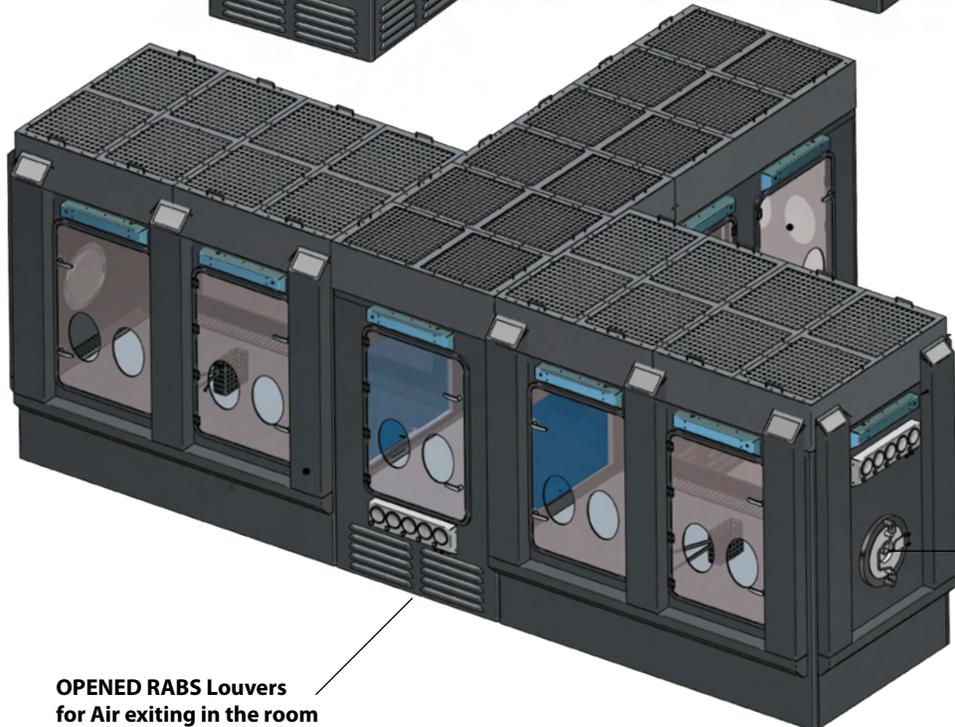
- Ready for Glove Ports installation
- Doors equipped with position switches and automatic inter-locking system
- Doors equipped with stoppers for 90 degrees maximum opening.



Magnehelic Gauge for each Fan Filter Unit and Chamber pressure monitoring

Allen-Bradley HMI Touch Screen Interface:

- Pressure adjustment and monitoring
- Temperature and humidity monitoring
- Doors status; Open / Close; Doors Locking
- Alarms for out of range reading



Alpha-Beta Door Ø8" on Left and Right sid

OPENED RABS Louvers for Air exiting in the room