

The RowZone™ IVC System



- Zone 1:** The Animal Cage Zone.
This Zone operates in the same way as The Standard BioZoneGlobal SmartRacks™.
- Zone 2:** The Surrounding Row Containment Zone.
This Zone surrounds each row of cages in a Ventilated cabinet with a hinged glass door.

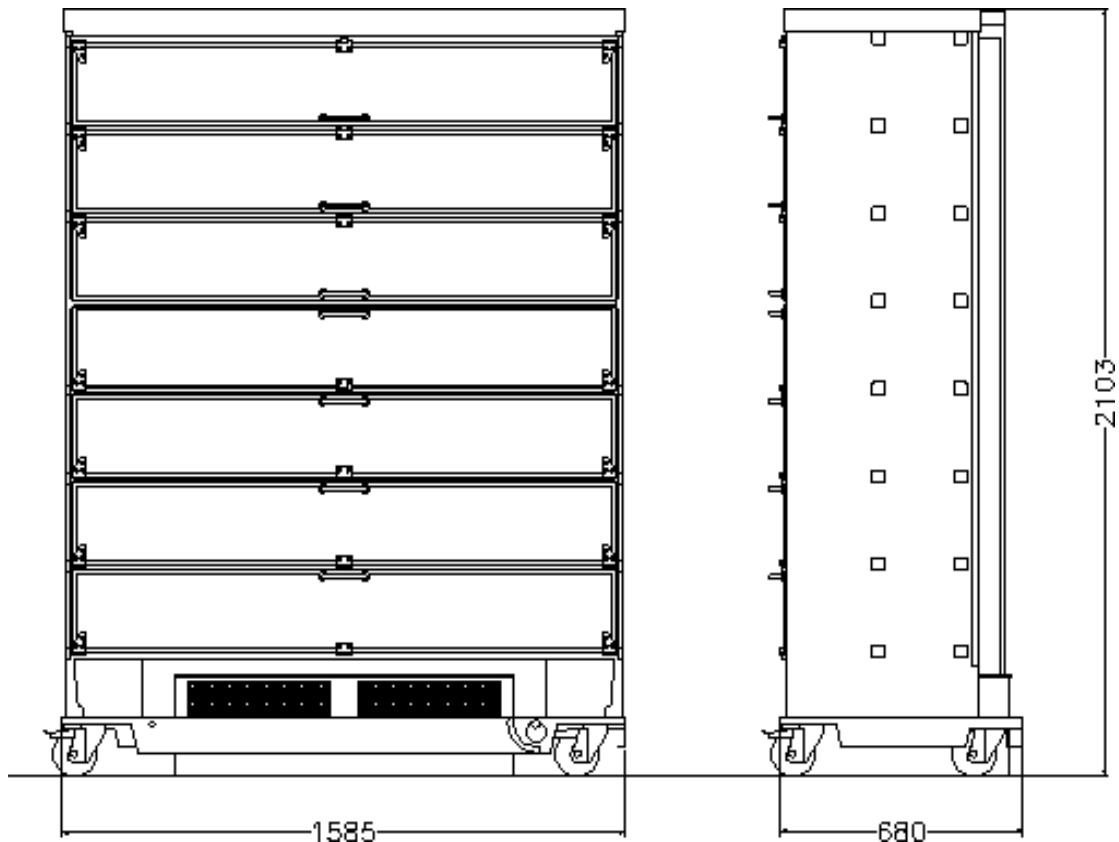
The RowZone™

The RowZone™ Rack is a unique BioZoneGlobal development in IVC Rack Systems. It uses DuoZone™ technology to provide both Protection & Containment within a single unit.

Zone 1: The Animal Cage Zone.
This Zone operates in the same way as The Standard BioZoneGlobal SmartRacks™.

Zone 2: The Surrounding Row Containment Zone.
This Zone surrounds each row of cages in a Ventilated cabinet with a hinged glass door.

When combined, these two Zones provide an IVC Rack with 2 levels of protection between the animals and the room environment. This means that, with the correct configuration, The RowZone™ can be used in areas requiring BSL4 containment levels.



RowZone™ Rack with capacity for 42 Type 34 Cages



RowZone™ Configurations

Zone 1	Zone 2	Benefits
Positive Pressure	Positive Pressure	Prevents air movement from the Room to the Zone 2 Cabinet or from the Zone 2 Cabinet to The Zone 1 Cages
Positive Pressure	Negative Pressure	Prevents air movement from the Zone 2 Cabinets into either the Room or the Zone 1 Cages
Negative Pressure	Negative Pressure	Prevents air movement the Zone 1 Cages to the Zone 2 Cabinet or from the Zone 2 Cabinet to the Room
Negative Pressure	Positive Pressure	Prevents air movement from either the Zone 1 Cages or the Room into the Zone 2 Cabinet

Specifications:

Electrical: Supply: 100-240 vac, 50/60 Hz, 1Ø
 Power: 150 Watts, 1.3 Amp @ 120 vac
 Plug: Standard straight three prong, grounded, 3 meter length

Heat Load: Mechanical: 135 Watts (465 BTU/hr)
 Animal: Animal Heat Load can be provided on request with species, weights and quantities supplied by client.

Animal Environment: Supply of up to 120 Air Changes per Hour (Controllable)
 Air HEPA filtered to 99.999% @ 0.3 micron
 Differential pressure between interior of cage and surrounding DuoZone is +/- 1.0-2.0 Pa (Controllable)

DuoZone Environment: Differential pressure between DuoZone and surrounding facility room is +/- 0.5-1.0 Pa Controllable

Facility Room Environment: Noise level in Facility Room is less than 42 dBA at 1.0 meter from Air Handler
 Approximately 60% of heat load is rejected to the Facility Room 40% direct to HVAC exhaust.
 Varies +/- 10% based on Animal Environment and DuoZone pressure settings and air flow rates.

Supply Air: Supply Air is taken from the facility room through prefilters and HEPA Filter

Exhaust Air: Exhaust Air is passed through HEPA Filter and Prefilters before being sent to either the Facility Room or, if connected, the building HVAC System



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