



CONTROLLED ATMOSPHERE GLOVEBOX



bizSAFE₃



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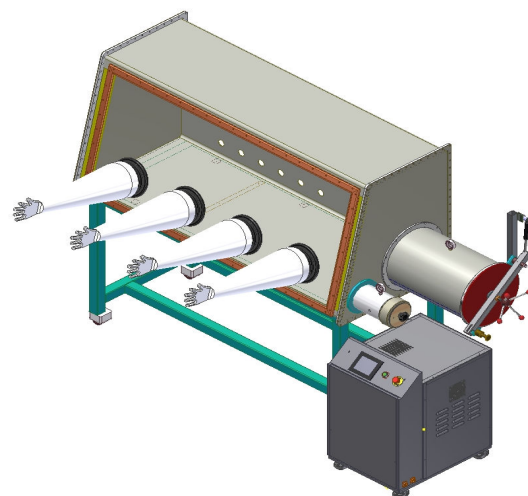




CONTROLLED ATMOSPHERE GLOVEBOX

VORTEX-I

A complete controlled atmosphere glovebox system for your standard process.



A highly durable and sophisticated process tool providing a controlled atmosphere for numerous applications.

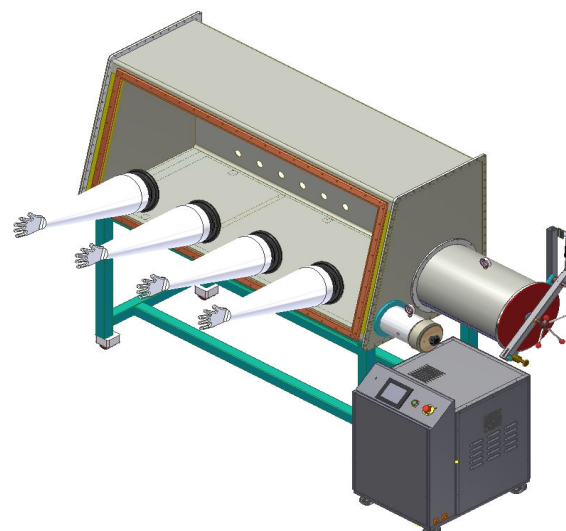
The closed loop circulation and purification system sustains ultra-low oxygen and moisture levels below 1PPM.

Features:

- Stainless Steel work chamber
- PLC Control
- Large and small Antechambers
- Vacuum system
- Automatic regeneration system
- Closed loop circulation system
- Stainless steel piping
- Integrated high vacuum feedthroughs

VORTEX- PRO

A complete controlled atmosphere glovebox system for more highly sophisticated processes.



The Vortex-Pro takes the standard controlled environment system to the next level.

A highly durable and sophisticated process tool providing a controlled atmosphere for numerous applications.

The single or dual column closed loop circulation and purification system sustains ultra-low oxygen and moisture levels below 1PPM.

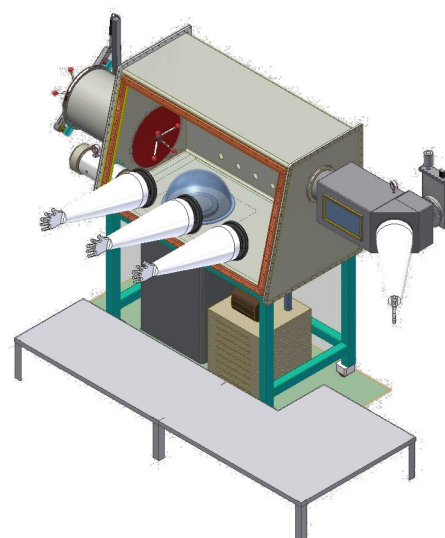
Numerous control and automation options for highly efficient process output.

Features:

- Stainless Steel work chamber
- PLC or PC Control
- Large and small Antechambers
- Vacuum system
- Automatic regeneration system
- Variable Speed Closed loop circulation system
- Stainless steel piping
- Integrated high vacuum feedthroughs
- Advanced circulation and purification options

VORTEX- PRIME

When a single system is not enough the Vortex Prime provides a complete process solution.



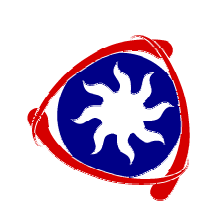
A highly durable and sophisticated process tool providing a controlled atmosphere for numerous applications.

The single or dual column closed loop circulation and purification system sustains ultra-low oxygen and moisture levels below 1PPM.

With numerous control, automation and integration options- the Vortex Prime provides a complete turnkey process solution.

Features:

- Stainless Steel work chamber
- PLC or PC Control
- Large and small Antechambers
- Vacuum system
- Automatic regeneration system
- Variable Speed Closed loop circulation system
- Stainless steel piping
- Integrated high vacuum feedthroughs
- Interfacing with multiple process tools
- Advanced circulation and purification options



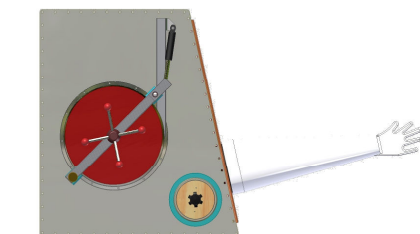
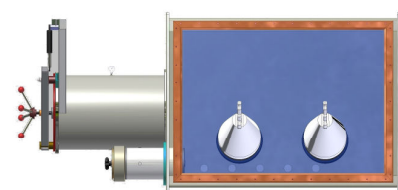
CONTROLLED ATMOSPHERE GLOVEBOX

	Vortex-I	Vortex Pro	Vortex Prime
Main Chamber	Material	SS 1.4301 (304)	SS 1.4301 (304)
	Feedthrough	NW40 Feedthroughs	NW40/NW25 Feedthroughs
	Particle Filter	Class H13 HEPA Filter (inlet and outlet)	Class H13 HEPA Filter (inlet and outlet)
	Windows	Polycarbonate	Polycarbonate/Glass
	Gloves	Butyl or Hypalon (various sizes)	Butyl or Hypalon (various sizes)
	Glove Port	220mm (circular/oval)	220mm (circular/oval) or special size
	Box Lighting	Fluorescent Lamp (front mounted)	Fluorescent Lamp (front mounted or internal)
	Leak Rate	< 0.05 vol%h Class 1 (ISO 10648-2)	< 0.05 vol%h Class 1 (ISO 10648-2)
Gas Purification	Modular System	No	Yes
	Purifier Column	Single	Single/Multiple
	Regeneration	Automatic Regen and Start up	Automatic Regen and Start up
	Capacity	30L O2 Removal 1350g H2O Removal	30L – 200L O2 Removal 1350g – 3000g H2O Removal
	Blower	Single Speed 55 m3/h at ΔP= 60 mbar	Variable Speed 85 m3/h at ΔP= 60 mbar
	Attainable Purity	O2 < 1ppm; H2O < 1ppm	SS 1.4301 (304)
	Vacuum Pump	10 cfm Rotary/Dry Pump	10 cfm Rotary/Dry Pump or larger
	Piping	SS 1.4301 (304)	SS 1.4301 (304)
Control & Interface	Valves	Electro-Pneumatic	Electro-Pneumatic
	Electrical	230 V/50-60 Hz, 10 A 115 V / 50-60 Hz, 20 A 100 V/ 50-60 Hz, 20 A	230 V/50-60 Hz, 10 A 115 V / 50-60 Hz, 20 A 100 V/ 50-60 Hz, 20 A
	Controller	Programmable Logic Controller	Programmable Logic Controller or PC
	Interface	Touchscreen	Touchscreen or Keypad + LCD
	Box Pressure Control	Auto pressure control- includes foot switch (+15mBar, -15mBar)	Auto pressure control- includes foot switch (+15mBar, -15mBar)
	Trending Data	Optional	Yes
	Type	Cylindrical with Sliding Tray	Cylindrical with Sliding Tray
	Size	390mm x 600mm	390mm x 600mm
Large Antechamber	Door	Aluminium	Aluminium/SS
	Vacuum System	Manual	Manual/Automatic
	Leak Rate	< 10 ⁻⁵ mbar l/s Class 1	< 10 ⁻⁵ mbar l/s Class 1



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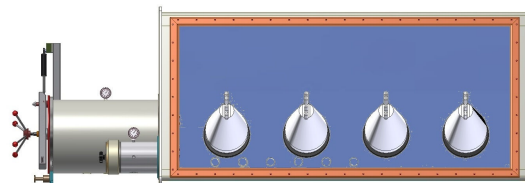
GLOVEBOX – STANDARD CHAMBER SIZES



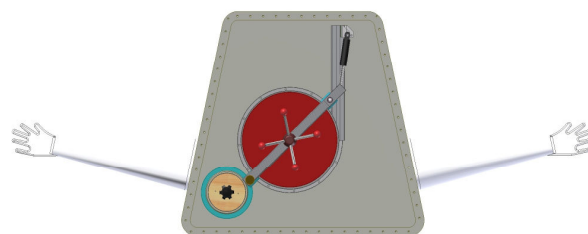
2 Glove Port
Single Sided System
1250(L) x 800(W) x 960(H)



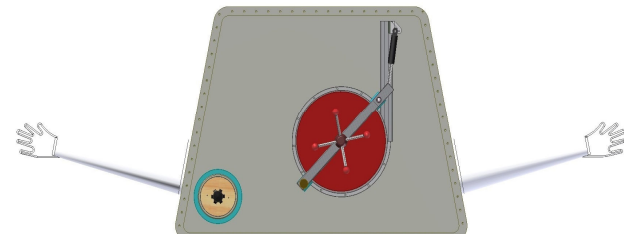
3 Glove Port
Single Sided System
1500(L) x 800(W) x 960(H)



4 Glove Port
Single Sided System
1800(L) x 800(W) x 960(H)



4 Glove Port
Double Sided System
1250(L) x 1000(W) x 960(H)



4 Glove Port
Double Sided System
1250(L) x 1200(W) x 960(H)

6 Glove Port
Double Sided System
1500(L) x 1000(W) x 960(H)

6 Glove Port
Double Sided System
1500(L) x 1200(W) x 960(H)

8 Glove Port
Double Sided System
1800(L) x 1000(W) x 960(H)

8 Glove Port
Double Sided System
1800(L) x 1200(W) x 960(H)

GLOVEBOX CONFIGURATIONS

