

soloHIFlow Containment Isolator



ISO 5 Environment. Nanogram Containment Performance. Cost Effective.

Meet the soloHIFLOW, a clean air handling closed barrier system with the capability of obtaining both low particle counts (ISO 5, Grade A) as well as providing OEB 5 levels of containment. The soloHIFLOW creates 25 to 30 air changes per hour inside the main chamber ensuring fresh, clean air is always circulating around your working process. The system is capable of bio-decontamination via VHP cycles or the film enclosure can be gamma irradiated and delivered sterile. Using the same containment principals and SOP development as our other high performing isolators an OEB 5 containment level can be guaranteed with ease.



Closed-Barrier system for various controlled environments

FEATURES

- Fully Disposable Assembly
- Possible to interface process equipment
- Positive or Negative pressure operation
- Double sided version available
- Mobile, height adjustable platform
- ISO 5 Particle count guaranteed (at rest)
- VHP Interface possible
- Pre-Sterilized, Gamma irradiation available
- High Containment performance guaranteed
- Onboard power connections available

Clean Air Handling

Utilizing powerful fan systems we can create a high rate of air changes inside the working chamber meaning a higher rate of removing unwanted airborne particulate around the critical process.

Flexible Use

The Hi-Flow concept can be developed around many applications and tailored to fit many processes. From simple weigh and dispense operations through to Micronization or Lyophilization activities.

Positive or Negative Pressure Airflow

soloHIFLOW has the capability of operating with both negative pressure and positive pressure airflows. If handling potent compounds the negative pressure system would be recommended, if handling a non-potent sensitive product, the positive pressure system would be advised. It is also possible to offer a system which can work in both positive and negative pressure modes – simply changed at the press of a button.

ISO Classification at >0.5µm

ISO Classification Number	Maximum allowable concentration of particles equal to or greater than the considered size shown below		
	>0.5 µm	>1.0 µm	>5.0 µm
ISO 8	3,520,000	832,000	22,930
ISO 7	352,000	83,200	2,930
ISO 6	35,200	8,320	293
ISO 5	3,520	832	d.e.f.

Particle count results from soloHIFLOW testing (December 2020)

Test 1 - At rest, no airflow in the isolator

Flow Rate	97.5 LPM
Sample Time	15 Mins
Volume	1447.500 L

Particle Size	Cumulative Count
0.5 µm	126,068
1.0 µm	26,607
2.0 µm	7,630
3.0 µm	3,656
5.0 µm	935

Test 2 - At rest, fans running at normal speed

Flow Rate	97.5 LPM
Sample Time	15 Mins
Volume	1449.635 L

Particle Size	Cumulative Count
0.5 µm	274
1.0 µm	34
2.0 µm	8
3.0 µm	2
5.0 µm	1

Test 3 - At rest, fans running at normal speed

Flow Rate	97.2 LPM
Sample Time	15 Mins
Volume	1448.79 L

Particle Size	Cumulative Count
0.5 µm	331
1.0 µm	59
2.0 µm	16
3.0 µm	8
5.0 µm	5

Test 4 - At rest, fans running at normal speed

Flow Rate	96.6 LPM
Sample Time	15 Mins
Volume	1447.084 L

Particle Size	Cumulative Count
0.5 µm	337
1.0 µm	76
2.0 µm	28
3.0 µm	16
5.0 µm	7



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