

Test Report No.: 100085808

				FINA	AL AIR	FLOW VE	LOCITY		
Anemometer: Mfg	j. TSI	Model	962		:	S/N P0926	60017	Cal Due Dece	mber 26, 2017
Velgrid: Mfg.	NA	Model		NA	4	S/N	NA	Cal Due	NA
								Pass Average Veloci	ty/Airflow Uniformity
Number	r of Readin	igs Taken	8						
Maximum Veloc	ity Allował	ble/Actual	110	1	104	fpm		All readings within ±20%	of Avg.
Minimum Veloc	ity Allowal	ole/Actual	74	1	82	fpm	_		
	Averag	e Velocity			92	fpm	L	Fails Average Veloci	-
,	Acceptance	e Criteria	80	-	100	fpm	L	☐ Pass Average Veloci Uniformity	ty/Fail Airflow
Diagram of Veloc	city Profile	Taken at	6			inch(es)	from diffu	ser screen	
					Su	pply Filter	NA		
		83 94		83 100	94 104				

Differential Pressure: NOT FUNCTIONING

Blower Speed Required: Incre Velocity Conforms to: Man	Motor Parameters: & Owner's Requirements		NA 5			
All Readings - For Informatio	NOISE LEVEL					
Sound Meter: Mfg. NA	Model NA	S/N NA		Cal Due NA		
"A" Weighted Scale Total	NA dBA	Background NA	dBA	Corrected	NA	dBA
-		-				u DA
 Readings taken 12 in. in fi Readings taken on center 	ront and 15 in. a	bove the centerline pla	ne of wo	rk surface.	surface	
 Readings taken 12 in. in fi Readings taken on centerling 	ront and 15 in. a line of HEPA(S)	bove the centerline pla	ne of wo or units w	rk surface.	surface	
Readings taken 12 in. in fi	ront and 15 in. a line of HEPA(S)	bove the centerline pla 30 in. from filter face fo	ne of wo or units w	rk surface.		
 Readings taken 12 in. in fu Readings taken on centerl All Readings - For Information 	ront and 15 in. a line of HEPA(S) on Only Model NA	bove the centerline pla 30 in. from filter face fo <i>LIGHTING INTENSITY</i>	ne of wo or units w	rk surface. ithout a work s		

Test Report No.:	100085808			AEROSOL CH	ALLENGE INS	STALLATION LE	AK TEST
Photometer: Mf	-	•		-	10937	Cal Due	January 26, 2018
Diagram of repa			-				
A minimum of 10	ug/Liter PAO (CAS# 6864	19-12-7	Filters marked "100 separate passes m	ade on the surroundi eam concentration.	tested over the filter me ing frame/seal. Filter ac	
Supply Filter Leaks Repaired NA		EAKAGE DETEC	TED	/ - media leakage x - frame leakage BR - before repair AR - after repair ZAR - zero after re	NA	omments Below:	
As Found	d: 🗹 Pass	s □Fail	🗆 No Test	NA			
Fina	al: ⊻ Pass	s [□] Fail	No Test	NA			
Equipment: (See "Par	ticle Count Data"		INDUCT	ION LEAK/BA	CKSTREAMIN	IG TEST	
Device should not exhibit unsealed construction joints or any intrusion of particles from openings. ✓ Pass - Induction Leak/Backstreaming Test □ Fail - Induction Leak/Backstreaming Test □ Not Applicable Comments: NA							
			PART	CLE COUNT D	ATA		
Particle Counte Note: All partic Readings show	les n are in part	0.5 i cles per (ometer and lai eter of air.	_	unted.	⁻ ebruary 01, 2018
Sample Location	s are 12 inch	es from all	ituser screen				
	(1))		(3)	0	(2)	Particle Count locations are identified with sequential numbers, i.e. (1), (2), etc.
				0			Room ambient count is identified as (Room Ambient).
	(4))			0	(5)	
Particle Count Class Limit for							
	ISC) Class 5 0.	5 um & larger	(At-Rest) ISO 14	644-1:2015		
			✓ Pass	Fail 🗌 No To	est		
Supply HEPA Fi Pre Fi HEPA Filter(s	lter(s) Size:		3/8 x 1 30%		ced: No		

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CECS Inc. 5960 Heisley Rd Mentor, OH 44060 800-523-9852 (Customer Service) Ph: 610-867-5302 Fax: 610-954-7803 email: cecsmicroclean@steris.com

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OPERATIONAL NON-VIABLE PARTICLE COUNT USP<797>

Test Report No.: 100085808 Date: November 29, 2017 Client: THE COMPOUNDER Address: 340 MARSHALL AVE UNIT 100 AURORA, IL 60506 Attn: LYDIA LESNIAK Mfg./Model: Envirco #10166 ESM-4 Identifying No.: 89056814 Location: 1st Floor Room: IV Prep Other: NA MC

MCI#: AI5160

NON-VIABLE PARTICLE COUNT CONDITIONS OF TEST

Type of Clean Zone: UnidirectionalOdCleanroom or zone Cleanliness Classification:ISO Class 5Particle Class Limit In Particles Per Cubic Meter:3520Measures Paricle Size in Microns (and larger):0.5Number of Paricle Count Sample locations: (L): 1

ccupancy State of Test: Operational				
Type of Test: Verification				
Sample Time:	1	in Minutes		
Sample Volume:	28.3	Liters Per Minute		
Total Sample Volume:	84.9	Liters		

PARTICLE COUNT VALUES - REPORTED IN PARTICLES PER CUBIC METER

Particle Counter: Mfg. TSI

S/N 93101126005 Cal Due February 1, 2018

OPERATIONAL PARTICLE COUNTS: The particle counter isokinetic probe is positioned within six inches upstream of the product manipulation point.

For unidirectional flow applications the particle counter isokinetic probe shall be pointed into the airstream.

For nonunidirectional flow applications the particle counter isokinetic probe shall be pointed vertically towards the ceiling.

This sampling point is positioned near the arm convergence point, but not interfering with operator hand and arm movement. The isolator operator shall simulate compounding operations during the three (3) 1-minute sampling periods. Testing performed in Accordance with ISO Std 14644-1: 2015.

EACH READING must not exceed the particle count class limit.

Model 9310-02

	0	0	0	
sa	mple 1 (ppcm)	sample 2 (ppcm)	sample 3 (ppcn	n)
Particle Count Specifica		5 (3520ppcm @ 0.5um & large 1644-1: 2015	er) Operational per	🗹 Pass 🗌 Fail 🗌 No Test

Remarks: NA

AIRFLOW VISUALIZATION TEST - USP <797>

This test is performed to verify that airflow smoke patterns demonstrate unidirectional airflow and sweeping action over and away from the product under dynamic (operational) conditions within the unidirectional flow device. The smoke illustrates the importance of proper use of "First Air" in the Direct Compounding Area (DCA).

HORIZONTAL FLOW DEVICES Introduce smoke six inches upstream (15.2 cm) of the DCA and along the: a) Vertical axis of the DCA central point, begin at least 12" (30.5 cm) above and below the central point of the DCA.

- b) Horizontal axis of the DCA central point extending at least 12" (30.5 cm) to the left and right of the DCA.
- c) Perimeter of the vertical and horizontal axis points.

VERTICAL FLOW DEVICES

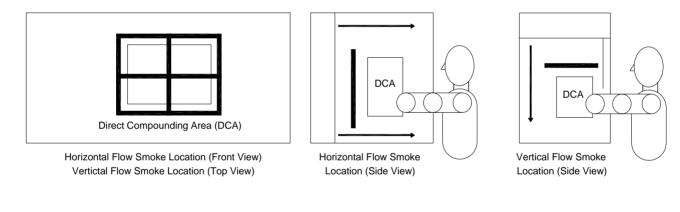
Introduce smoke six inches upstream (15.2 cm) of the DCA along the horizontal axis of the DCA central point, beginning at the IV bar and at least 12" (30.5 cm) to the front, rear, left and right of the DCA central point. Produce smoke along the perimeter of the DCA smoke pattern axes.

ACCEPTANCE:

Device demonstrates acceptable unidirectional airflow patterns for the proper use of "First Air".

HEPA Filter >> DCA >> IV material >> Hands >> Operator

Note: SOLID BAR inidicates smoke generation location.



Pass - Airflow Visualization

□ Fail - Airflow Visualization Test

No Test

Under operational conditions, airflow smoke patterns should demonstrate unidirectional airflow and sweeping action over and away from the product under dynamic (operational) conditions within the unidirectional flow device. The smoke illustrates the importance of proper use of "First Air" in the Direct Compounding Area (DCA).

Remarks: NA

Testing Performed In Accordance with Micro-Clean	SOP # LFCB-0616 MCI
\sim	and and CETA CAG-003-2006-13
Above Testing Work Performed By Taylor Schiering	Date: 29-Nov-2017
	Retest Date: MAY, 2018