Ticket No. 1476398 Page: **1 / 2** 

## **Validation Report**

Instrument Location S-A-LE BV			N P	stomer Contact ame: Kerkdijk Henk none: +31 6 53198879 Mail: info@s-a-le.nl											
		22		Flo	or / Buil	ding / Room	1								
De Stoven		loor:													
7206 AX Zutphen	В	uildin	<i>g:</i> grou	nd fl											
NL	R	oom:													
Ticket Information Ticket Type: Service Contract No.:	S	ervice	e Engine	er		Twar	n van de	Ver	ı						
Purchase Order No. Henk	D	Purchase Order Date 22/09/2023													
Instrument Details	F	ruicilase Older Dale 22/08/2023													
Description MSC-Al Material No.: 510254 Tech. ID:	Μ	Serial No.: 42594916 Manufacturer SN: ################################ Inventory No.:													
Installation Date: 28/11/2	022														
Decontamination filled in				Y	Yes: Not required:										
installation				m	ainter	nance								~	
Description											te	ste	d / re	marks	5
Description													n.a.		
Boards, relays, connections,	wiring					check					Ŀ	2			
Function test alarm						check									
Flow indicators / sensors						check									
Light workspace						check									
UV-light															
Fan day-/nightfunction			check												
Front window			check					Ī	7	Ħ					
		1 14	1 1 /					\							
INFLOW VELOCITY TEST	air inflow ve	elocity	test (	per	sona	i prote	Ctio	n)							
METHOD 1: Measuring air s	peed at exhaust	filter fro	ont par	nel in	worki	ing posi	tion								
Record Front opening width	mm		1		m/s		3		m/s		5		m/s		
Record normal workheight of fro		mm		2		m/s		4		m/s		6		m/s	
Mean air speed related to height	of working open	ing acc.	to EN	1246	9				Avera	ge inflow	velo	city	' =	0.00	m/s
										-					
METHOD 2: Measuring air s	peed at reduced	I front pa	anel												
Record Front opening width		1200	mm												
Record normal workheight of fro	200	mm	Rec	ductio	n		Mean air speed related to height of working						orkina		
Front aperture reduced to	80	mm	Fa	ctor =	2.50			ening acc. to EN 12469				5		5	
1 1.20 m/s 2 1.26 m/s	3 1.26 m/s	4 1.1	6 m/	s 5	1.1	8 m/s			Avera	ge inflow	velo	city	' =	0.48	m/s
METHOD 3: Measuring air s	peed in the wor	k apertu	re												
Record Front opening width		mm			Left side	e			Middle				Right	side	
Record normal workheight of fro		mm		1		m/s		4		m/s		7	1	m/s	
					2		m/s		5		m/s		8		m/s
		3		m/s	1	6		m/s	1	9		m/s			
Mean air speed related to height	1246	Average inflow velocity = 0.00							0.00	m/s					
Average value inflow.	The mean air	flow velo	ocitv ir	ward	d of th	e used r	netho	od ti	hroua	h the wo	rkind	1		_	
EN 12469:			ard of the used method through the working 0.40 m/s.										PASS		

Unity<sup>®</sup>Lab Services Part of Thermo Fisher Scientific Notification no. 1476398

## Notification date

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Validation report - BSC Type II																					
DOWNFLOW VELOCITY TEST / Low turbulence repression flow (product protection)																					
DOWNFLOW VELOCITY Minimum average downflow velocity authorized = 0.25 m/s																					
target value acc. to Maximum average downflow											velocity authorized = 0.50 m/s										
Standard EN12469: No individual measurement should differ from the mean by more than 20%.																					
				abov	/e wor	kir	ng ope	ening	1		()	neight	acc.	to EN	5010	0mm)					
	2	/8	_	• •	- 2	2/8	8			- 2/8			1/8	•	_						
	↑ 1/4 + 1						2					3			3						
								2						4					-		
	1/2																				
	+							6			_	7	7					-			
	iße 9	90 cm													-						
		9 120 cm																			
	<ul> <li>4 18,75 cm → Baugröße 150 cm</li> <li>4 22,50 cm → Baugröße 180 cm</li> </ul>																				
testing	arid	1	0.34	-	T	2	-	0.32	m/s	Ι	3	0.	33	m/s	4	0.3	5	m/s			
measuring		5	0.33	_	_	6	_	0.31	m/s		7	0.	32	m/s	8	0.3		m/s			
											rage down flow velocity measured 0.3									Р	ASS
Min. downf					0.2	-										0.31	m/s		ASS		
Max. down				d	0.5		m/s		M	ax	. dowi	n flo	w ve	elocity n							
									Penetration < 0,01 %							Aerosolconcen PASS					
	Exhaust filter: Efficiency > 99,999%						1 %									PAS					
	Prefilter: Efficiency > 99,99%								]		H13 ·	< 0.1	%		N.A	۱. L	] F	PASS 🔲 🛛 FAIL 🔲			
Smoke visu	ualizatio	on tes	t																		
Front aperture: smoke should be inward over Work surface: smoke should go downward w																		PASS 🗹 FAIL			
Work surfac				shoul	d ç	go d	own	ware	d with	101	ut un	due	tur	bulenc	е		F	PASS	⊻	FAIL	
measuring e	quipme	nt data	l:														<u> </u>				
description:	nt N	No.:		Last	calibr	ration: N				ext calik	C	Calibration label:									
Anemo meter	Anemo meter 9535 T95352						2109008 01 A							01 A		WA2317673					
			_																		
																	-+				
													╋				+				
Protective Conductor Resistance R <sub>SL</sub> < 0.3Ω Check																					
Insulation R	Insulation Resistance $R_{ISO} > 1.0M\Omega$												eck					$\mathbf{\nabla}$			
	Equivalent Leakage current I <sub>EA</sub> < 3.5mA										Check										
Main Voltage UNETZ 229 V~																					
Remarks: There is no						safe	ty ca	abin	et.												
						low l	ow	52,0	% in	flo	ow lov	v 48	8 %								
Date / Name Fiel 10/04/2	Downflow 63.0 % inflow 54,0 % downflow low 52,0 % inflow low 48 % Date / Name Field Service Engineer																				
10/04/2023 Twan van de Ven       The microbiological safety cabinet       Yes ☑ No[												No 🗌									