

Ace Lab Systems 1550 S. Kingshighway St. Louis, MO 63110 Tel: (314) 771-7272 Fax: (314) 771-6956 WWW.AceLabSystems.Com

Test Report : 9-170124-1

Work Order #: ___117743__

Next Test Due Jan 2018

Institution:	ion: Datarecovery.com		Service Reresentative:		Darryl Brooks	
Department: n/a		and and a second	Date Tested:		24Jan17	
Address:	Address: 110 North Research Dr		Instrument Manufacturer:		Envirco	
City, State, ZIP:	Edwardsville, IL 62025	- constructive control field of the control of the	Model:	111-Z04-UL		
Contact:	Michael KA Tich	and an information of the confirmation of the	Serial #:	S09-120V-00790		
Phone Number:	800-237-4200 ext 263	SISSA CANAMARIA MANDO (ALIA	Location:		ARRORI VIII VANTONI IN MOTE A STATA O SECULUTE VARIANTA A SECULUTE	
This unit meets the requirements of the	e following standards of specification ne National Sanitation Foundation, Sta			ance with the criteri	a established by	
Tests C	onducted		Final Test	ing Results	PARTICULAR TO THE TOTAL SECURITY CONTRACTOR	
Particle Count	✓ Electrical Safety	☑ Unit Ce	rtified	☐ Unit Not Ce	rtified	
HEPA Filter Leak Test	Decontamination	Domeston	Final Test Satis	factory		
▼ Velocity Profile and Volume	Federal Standard 209E	Remarks:	I mai I cot oatio	ractory		
	President		where 0.5 - procedy nate per 45 times containing the decimal containing and a state of a second new containing and a second new contain	co designation certa-recolors solicidencia con control to control to proceed and procedure forming of the control to the contr		
Face Velocity	NSF No. 49	Mag Gauge	тот-гонивно пладония подожал доста сторог то подоржаний компет - от неиздения	etaatuvatuutaetaanaksi viiseen sta _{kee} en siinoaaataantarisi. Yhtiövisi etiivateetaaateeta puhut	PRE20001014500 PRE200 PRE200010 PRO 10 A PRO 10	
Airflow Smoke Patterns	▼ Manufacturer Specifications	Reading	2000000000000000000000000000000000000			
Lighting Intensity		n/a	is well as using the equation of the equatio	rokusiakan hisusuun vastabkassatui valkamanne eyynvisuviinisuvin ovokamen		
Other			Place of the Contract of the Section Contract of the Contract	n kasilian nyaétra nahakan sahaka ngagapatka halililang ito nahin lengula apita sayat nahan sabab	600 ft 600 ft fill at 600 ft 600 ft far fan it earlie aft. Lathaum en wenn an trick te	
		Base n/a	n/a		Profesional and a second	
	85 82 76 85 80 84	81 Rear: II/a	III / AL		<u> </u>	
	90 76 81 95 96 78	77 Center: n/a	n/a		TTTX	
 + + + + + +		91 Front: n/a	n/a +	+++-	+ + - h	
 	75 78 86 78 82 84		with the contract of the contr	+++-	+ + - a	
		Sash			i lu	
	- + + + + + +	Opening: 1	n/a	T T T	TTTS	
} + + + + + +	- + + + + + +		+ +	+ + + -	+ + - t	
		PRINCIPAL MARKET PRINCIPAL				
Supply		Average Exhausi		t Per Minute	n/a	
Average Downflow Velocity:	83 Feet Per Minute 55-65	Effective F		iare Feet	Range	
indiago sommon volcony.	Range	Exhaust Air	r Volume: n/a Cul	oic Feet Per Minute	n/a Range	
Smoke Airfl	ow Patterns		Work Access Ope	ning Airflow		
This test insures that airflow is inwar	rd along the entire perimeter of the wo	ork Area of Access	Area of Access Opening: n/a Square Feet			
access opening, that airflow within the work area is downward with no dead		ad	(t Per Minute	n/a	
spots or refluxing, that outside air does not pass on or over the work surface, and there is no refluxing or escape of smoke from the biological safety cabinet		inet	a venuery.		Range	
	•	Measure	d Velocity: n/a Fee	t Per Minute		
Inside Cabinet	Meets Specifications		HEPA Filter	Leak Test		
Centerline of the work surface, 4 inche		No leaks	s above 0.01% 🔲 Le	sks Found 🔲 Lea	ks Repaired	
above the top of the work access ope	ning.	Acceptan	ce: 🗹 Aerosol pena	tration shall not exc	eed 0.01%	
One inch behind window, 6 inches ab the top of the work access opening.	ove ☐ Yes ☐ No 🗹 N	/A	Lighting Inte	ensity	Heidensteigenbeite Anderstein von den Anterstein von der Stat (der State Anderstein die State State Anderstein	
		Visible Lighti	ng Intensity: 23 F	oot Candles at worl	k Surface	
Outside Cabinet		U.V. Lighti	ng Intensity: π/a ι	W/cm sqr. at work s	surface	
Along the entire Perimeter of the work access opening, 1.5 in. from opening.		A		and makesives to continuous, sense when, were related as the continuous areas in mission, and	reaktoressusoremuseinus eineskehintalaistikkissi koterinny vaktalaistikki	
access opening, the introductions.			Electrical S			
If Sliding Window Present			Pass .	Fail		
Inside Cabinet below the wiper gasket	t. Yes No 🗹 N	'A	Equipment l	Jsed		
		on the field of the contract o	Make and Model	Serial #	Cal Date	
		Aerosal Photomete	Proposition memory and understand of the state of the sta	1929	10/16	
Darch	Bent	Air Velocity Mete	and the shark and a state of the same and th	1545007	12/16	
Field Service	e Engineer	Particle Counte	r: n/a	n/a	n/a	

ISO 14644-1:1999(E)

Report for Area: S09-120-00790 Report Date: 1/24/2017

ACE ELECTRIC LAB SYSTEMS 1550 KINGSHIGHWAY ST. LOUIS, MO 63110 USA

Test Start: 1/24/2017 3:40:09PM Occupancy State: Operational Clean Zone Area: 1.00 Sq. Meters Test End: 1/24/2017 3:50:10PM

Target Class: 4

Minimum Number of Locations: 1

Counter: MetOne A2400

Serial Number: 000100515

Location /	Averages	0.3 µm	No. Samples User
1	<u></u>	141.26	1
2	}	105.94	1
3		0.00	. 1
4	*	141.26	1
5	}	105.94	1

Mean of Averages	98.88
Standard Deviation	58.03
Standard Error	25.95
95% UCL	153.38
ISO Class 4 Limit	1,020.00
Test Result	PASS

Overall Test Result: PASSES for ISO Class 4

ISO 14644-1:1999(E)

Report for Area: S09-120-00790 Report Date: 1/24/2017

ACE ELECTRIC LAB SYSTEMS 1550 KINGSHIGHWAY ST. LOUIS, MO 63110 USA

Test Start: 1/24/2017 2:55:09PM Occupancy State: Operational Clean Zone Area: 1.00 Sq. Meters

Test End: 1/24/2017 3:07:09PM

Target Class: 5

Minimum Number of Locations: 1

Counter: MetOne A2400

Serial Number: 000100515

Location	n Averages	0.5 µm		No. Samples	User
1		0.00		1	
2	}	0.00		1	
3		176.57	F	1	
4	160	0.00		1	
5	}	35.31		1	

Mean of Averages	42.38
Standard Deviation	76.56
Standard Error	34.24
95% UCL	114.28
ISO Class 5 Limit	3,520.00
Test Result	PASS

Overall Test Result: PASSES for ISO Class 5