

PH: 410.363.9696 **FX:** 410.363.9695

11403 Cronridge Drive Owings Mills, MD 21117 info@atitest.com www.atitest.com

SERVICE REPORT 100X AUTOMATED FILTER TESTER

Customer	TGA	Customer ID#	NA
Purchase Order #	14783	Sales order #	A119790

100X Unit Information

Serial	Model	Reagent Type	Unit Type	Flow range	Local Exhaust Present	Base Storage Present
34962	100XS	Salt	Manual	Standard (0-120 SLPM)	Yes	Yes

COMPONENT	T	AS FOUND	AS LEFT	COMPONENT	1	AS FOUND			AS LEFT	
OPERATING HRS	Hr	212	213	PENETRATION HIGH LIMIT	Enabled	Disabled	0.0200	Enabled	Disabled	0.0200
AIR DRYER PRESSURE	PSI	74.3	72.7	PENETRATION LOW LIMIT	Enabled	Disabled		Enabled	Disabled	
STACK DILUTION	PSI	14.9	14.4	RESISTANCE HIGH LIMIT	Enabled	Disabled	25	Enabled	Disabled	25
CHUCK DIFFRENTIAL	mmH20	0	0	RESISTANCE LOW LIMIT	Enabled	Disabled 🖂		Enabled	Disabled 🗵	A-1
GENERATOR DILUTION	PSI	20.1	20.3	FLOW TOLERANCE	Enabled	Disabled		Enabled	Disabled 🖂	
LOCAL EXHAUST	In/wc	0.2	0.2	LSC OFFSET		0			0	Par .
MAXIMUM FLOW	LPM	120	120	LSC SENSTIVITY		85			94	
	0.			LSC ZERO (volts)		0.2057			0.0099	
MEASUREMENT MODE		SLPM	SLPM	CYCLES TILL CALIBRATION	Enabled	Disabled	1000	Enabled	Disabled	1000

COMPONENT		AS FOUND	AS LEFT	Nominal Value	Tolerance
VACCUM PUMP PRESSURE	PSI	70.4	68.7	70	10
GENERATOR NOZZLE	PSI	52.1	50.8	51	2
Generator Dilution	PSI	20.1	20.3	20	2
DILUTION FLOW	LPM	59	59	55	5
CYLINDER CLAMP	PSI	55.5	55.1	55	2
CYLINDER UP/DOWN	PSI	30.8	30.9	30	10
	⊠ Salt	17.8	17.4	15-25 ug/L	N/A
GRAVIMETRIC TEST	□ Oil			80-120 ug/L	N/A
	☐ Paraffin			15-25 ug/L	N/A

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РСВ		As Found		As Left				
РСВ	Board REV	Serial Number	Firmware	Board REV	Serial Number	Firmware		
MAIN CONSOLE (P/N: 40-00800-003)	Α	5493009	2.01.00B	Α	5493009	2.2.3B		
DP SENSOR (P/N: 0800207)	F	KE100370	1.2	F	33054	1.2		
FLOW CONTROL (P/N: 0800198)	Α	KE100261	1.2	Α	KE100261	1.2		
LSC INTERFACE (P/N: 0800200)	J	KEI00111	1.05	, J	KEI00111	1.05		
RELAY VALVE CONTROL (P/N:0800195)	Α	KE100348	1.1	Α	KE100348	1.1		
MISC I/O (P/N: 0800198)	В	100278	1.05	В	100278	1.06		
PRESSURE SENSOR 1 (P/N: 0800916)	С	33951	1.1	С	19210023	1.1		
PRESSURE SENSOR 2 (P/N: 0800916)	С	33962	1.1	С	19210042	1.1		
THERMOCOUPLE (P/N: 0800198)	E	33197	1.3	E	33197	1.3		

Alicat Mass flow	Į.	As Found		As Left
controller	Serial #	Calibration Due Date	Serial #	Calibration Due Date
Control and the control of the contr	250202	6/22/2021	280535	6/16/2022

UNIT FOUND: \square INOPERABLE \boxtimes OPERABLE UNIT LEFT: \square NOT SERVICED \boxtimes SERVICED & OPERABLE

Ambient Temperature: 21.2 °C Ambient Humidity: 36.1 %RH

Load time (secs)	8	Sample Time (secs)	2	Flow Rate (LPM)	85
	(4)			8	
# of filter sheets	Test	Lot Number	% Penetration	Resistance (Choose)	Flow (LPM)
2	Test # 1	511576	1.2198	55.3	84.9
	Test # 2	511576	1.1136	55.0	84.9
	A	verage			
	Test # 1	511576	0.2434	82.6	84.9
3	Test # 2	511576	0.2233	82.6	85.0
	Average				
	Test # 1	511576	0.0876	110.0	85.1
4	Test # 2	511576	0.0677	110.1	84.9

Load time (secs)	8	Sample Time (secs)	2	Flow Rate (LPM)	85
1111				10	
# of filter sheets	Test	Lot Number	% Penetration	Resistance (Choose)	Flow (LPM)
2	Test # 1	511576	1.0649	56.3	85.2
	Test # 2	511576	0.9729	56.3	85.1
	Α	verage			
	Test # 1	511576	0.1874	84.3	85.1
3	Test # 2	511576	0.1744	85.0	85.2
	Average				
	Test # 1	511576	0.0505	112.1	85.2
4	Test # 2	511576	0.0413	112.1	85.2

Protecting People, Products & Critical Infrastructure

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		MAINTENANO	E PER	FORMED	
Change Coalescence Filter	\boxtimes	Check HEPA filter In Local Exhaust		Replace ΔP filter elements	Power Up Test
Change HEPA Filter		Change Pre-Filter in Local Exhaust	\boxtimes	Clean & check Test fixture	Gravimetric Concentration Test
Change Reference Filter		Change Alicat Mass Flow	\boxtimes	Check Generator Tank	LSC Test
Change 5um (ZFC) Element Filter	×	Change the LSC		Check/Replace the O-rings	Pen Cal Test
Clean Mixing Manifold		Change the differential pressure sensor board		Leak Check	Greenline Verification Test
Clean tubing between mixing Manifold & Generator Tank	\boxtimes	Change the two pressure sensor boards		Tighten Loose hardware	Other (please use notes section)

NOTES

- · Customer replaced all filter parts in June, 2021; they were not replaced during this service; advised customer to replace according to their schedule
- · New Alicat mass flow controller was not set to SERIAL (Instructions in calibration manual did not apply)
- Customer replaced HEPA filter in local exhaust on 4/21/21; it was not replace during this service
- Rev info missing on the main board; looked up in original verification report

The 100X has been calibrated and serviced according to all the manufacture's (ATI) instructions and conforms to the standards to which the product was designed

 SERVICED BY:
 \$22
 SERVICE DATE:
 8/3/2021
 SERVICE DUE:
 8/3/2022