

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					

COMPONEN	Т	AS FOUND	AS LEFT	COMPONENT		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	
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		
MAXIMUM FLOW	LPM	120	120	LSC SENSTIVITY	85			94		
				LSC ZERO (volts)	0.2057			0.0099		
MEASUREMENT MODE		SLPM	SLPM	CYCLES TILL CALIBRATION	Enabled	Disabled	1000	Enabled	Disabled	1000

COMPONENT	T I	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 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







Protecting People, Products & Critical Infrastructure

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РСВ		As Found			As Left		
FCB	Board REV	Serial Number	Firmware	Board REV	Serial Number	Firmware	
MAIN CONSOLE (P/N: 40-00800-003)	Α	5493009	2.01.00B	A	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)	L	KEI00111	1.05	, J	KE100111	1.05	
RELAY VALVE CONTROL (P/N:0800195)	А	KE100348	1.1	A	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	C	19210042	1.1	
THERMOCOUPLE (P/N: 0800198)	E	33197	1.3	E	33197	1.3	

Alicat Mass flow	ŀ	As Found	As Left		
controller	Serial #	Calibration Due Date	Serial #	Calibration Due Date	
	250202	6/22/2021	280535	6/16/2022	

UNIT FOUND:
INOPERABLE
OPERABLE

UNIT LEFT: NOT SERVICED SERVICED & OPERABLE

Ambient Temperature: <u>21.2</u> °C

Ambient Humidity: <u>36.1</u> %RH

	GF	REENLINE VERIFICATION	TEST RESULTS (As F	ound)	
Load time (secs)	8	Sample Time (secs)	2	Flow Rate (LPM)	85
# of filter sheets	Test	Lot Number	% Penetration	Resistance (Choose)	Flow (LPM)
	Test # 1	511576	1.2198	55.3	84.9
2	Test # 2	511576	1.1136	55.0	84.9
	A	lverage			
	Test # 1	511576	0.2434	82.6	84.9
3	Test # 2	511576	0.2233	82.6	85.0
	Α	Verage			
	Test # 1	511576	0.0876	110.0	85.1
4	Test # 2	511576	0.0677	110.1	84.9
	A	Average			

Load time (secs)	8	Sample Time (secs)	2	Flow Rate (LPM)	85
# of filter sheets	Test	Lot Number	% Penetration	Resistance (Choose)	Flow (LPM)
	Test # 1	511576	1.0649	56.3	85.2
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
	A	verage			
	Test # 1	511576	0.0505	112.1	85.2
4	Test # 2	511576	0.0413	112.1	85.2





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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		Clean & check Test fixture	Gravimetric Concentration Test
Change Reference Filter	\boxtimes	Change Alicat Mass Flow		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		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:	s22	SERVICE DATE:	8/3/2021	SERVICE DUE:	8/3/2022