GTEK AUTOMATION A Division of Pacific Air Engineering, Inc.	Technical D	Data for:	M00194-27A-6A, Micro 2 Air Pump	
26212 Dimension Drive, Suite 150, Lake Forest, CA	92630	Revision		1.0
Ph 9/9-680-12/2 Fax 9/9-680-12/3 www.atek-at	iomation com	Effective F)ate:	11/18/2013

1. Application:

* These specifications apply to the DC Micro Air Pump M00194-27A-6A.

2. Test Environment:

- 2.1 The standard for environment test is the ambient temperature of 20°C and relative humidity of 65%RH. If no disputes occur, the test can be conducted under the following circumstance: the ambient temperature of 5-30°C and relative humidity of 40-85%RH.
- 2.2 Position: Horizontal
- 2.3 Load: Air pressure is 300 mmHg.
- 3. Rated condition:
 - 3.1 Rated voltage: DC 6.0 V
 - 3.2 Operating voltage range: DC 3.0 V \sim 7.2 V
 - 3.3 Rated current: The highest current is less than 410 mA while pressurizing with DC 6.0 V from 0 to 300 mmHg.
 - 3.4 Inflation time: It takes less than 10 seconds to pressurize from 0 to 300 mmHg in a 500CC tank.
 - 3.5 Leakage: Pressurizing from 0 till 300±30 mmHg in a 500CC tank, then holding for 30 seconds. After that, measuring the dropped pressure value, which shall be less than 3 mmHg/min.
 - 3.6 Noise: Putting a 5 cm sponge under the pump, and placing it about 30 cm away from the noise meter. The evaluated noise level shall be less than 52 dB while pressurizing with DC 6.0 V from 0 to 200 mmHg. (See Figure 1)
 - 3.7 Maximum pressure: The maximum pressure value shall be more than 350 mmHg while pressurizing with DC 6.0 V in a 500CC tank.
 - 3.8 Re-start voltage: It needs at least DC 4 V to re-start to pressurize pump to 300 mmHg while pressurization is stopped at 200 mmHg.
 - 3.9 Operation temperature range: The temperature have to be between 5°C and 45°C and humidity must be between 30% and 80% RH to function the pump well.
 - 3.10 Preservation temperature range: The temperature has to be between negative 20°C and positive 70°C and humidity has to be between 30% and 80% RH to keep the pump in a good condition.

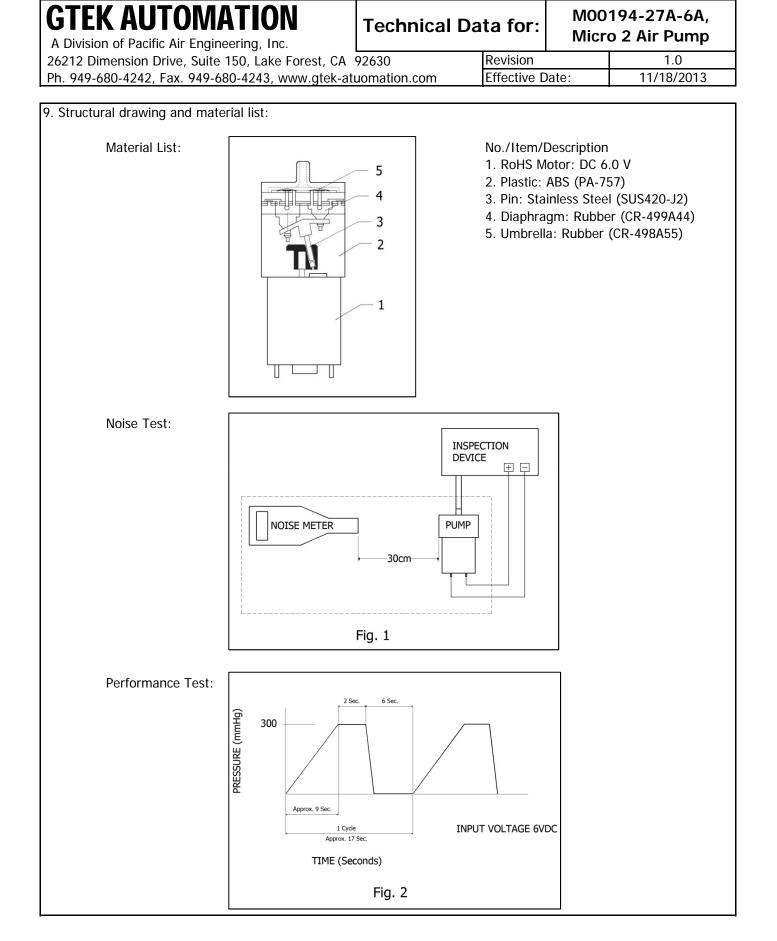
4. Guaranteed performance:

* After running through from test 4.1 to test 4.5, the leakage value shall be less than 18 mmHg/min. and noise level shall be less than 71 dB.

- 4.1 Low-temperature characteristic: Putting the pump in the temperature at negative 20°C for 72 hours; then taking it out and putting it in a room temperature at 20°C±5°C for two hours. Under this circumstance, running through test 3.3, 3.4, 3.7, 3.8 and finding out that the pump still performs to specifications.
- 4.2 High-temperature characteristic: Putting the pump in the temperature at 60°C for 72 hours; then taking it out and putting it in a room temperature at 20°C±5°C for two hours. Under this circumstance, running through test 3.3, 3.4, 3.7, 3.8 and finding out that the pump still performs to specifications.
- 4.3 High-temperature & High humidity: Putting the pump in the temperature at 60°C and the humidity at 90%-95% for 72 hours; then taking it out and putting it in a room temperature at 20°C±5°C for two hours. Under this circumstance, running through test 3.3, 3.4, 3.7, 3.8 and finding out that the pump still performs to specifications.
- 4.4 Temperature & humidity cycle test: After doing the temperature and humidity cycle test, -20°C x 2Hr \rightarrow +25°C x 1Hr \rightarrow +60°C 85%RH x 2Hr \rightarrow 25°C x 1Hr, for twelve times, the pump shall still perform the same functions proved by running through test 3.3, 3.4, 3.7, and 3.8.

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Ph. 949-680-4242, Fax. 949-680-4243, www	.gtek-atuomation.com	Effective D)ate:	11/18/2013	
 4.5 Performance test: In a 500CC tank seconds as one cycle. Doing it for a figure out that the pump is still in a 5. Thermal test performance: * After the pump has been tested through test 	30,000 times, then exam a good function. (See Fig est 5.1 and 5.2, it must b	nine the pump by gure 2) be suitable the ba	y test 3.3, 3	3.4, 3.7, and 3.8 and mance required by	
item 3.1 to 3.8. However the current is allowed	ed lower than 480mA an	d the noise perfo	ormance ca	an not be	
guaranteed.					
 5.1 Low-temperature environment test test 3.4, 3.5, 3.6, 3.7, and 3.8 and 5.2 High-temperature environment test by test 3.4, 3.5, 3.6, 3.7, and 3.8 and 	finding out it still perfor t: Under a temperature	m well. of 45°C for 5 hou		. .	
6. Other:	and minding out it still per	nonn wen.			
 6.1 The lead tension: No abnormality of the lead wire for one minute. 6.2 Unusual test: There is no burning a continuously. 6.3 Appearance: The appearances of t 6.4 Label: 	and smoking occurrence	while the power	is on with		
Vendor:	GTEK AUTOMATION				
Phone No.:	Ph. 949-680-4242				
Part No.:	P/N M00194-27A-6A				
Description/Voltage:	Micro 2, 6VDC				
Serial No.:	S/N 000000				
 6.5 Motor terminal for Soldering proce only. 6.6 Do not use PVC tubing to plumb th to use polyurethane or silicone tub 7. In case, any modifications, additions, or eli 	ne air outlet. When ABS ing. iminations on this specifi	connects to PVC	it gets brit	tle easily. We advise	
through the negotiations between our custom	ners and GTEK AUTOMA	TION.			
8. Acceptable standard: Acceptable standard	is according to the MIL-	STD-105D.			
SPECIAL INSPECTION LEVEL	S				

SPECIAL INSPECTION LEVELS					
LOT SIZE	S4				
2-8	А	2			
9-15	А	2			
16-25	В	3			
26-50	С	5			
51-90	С	5			
91-150	D	8			
151-280	E	13			
281-500	E	13			
501-1200	F	20			
1201-3200	G	32			
3201-10000	G	32			

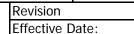




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1.0 11/18/2013

