

## MEDICAL GAS SYSTEM INSTALLER PERFORMANCE TESTING RECORD

Testing is done per the requirements of ASSE Standard 6010 and NFPA 99. All installer testing shall be performed by credentialed medical gas installers. The test gas used shall be nitrogen (NF).

*CSA: The test gas shall be oil-free dry air or oil-free dry nitrogen.*

**FACILITY NAME:** \_\_\_\_\_ **AREA:** \_\_\_\_\_

### 1. Initial Blow Down Test – See Section 10-4.12

Intermittent flow of oil-free, dry nitrogen (NF) through piping

Medical Gas System	Date	Tested By	Pass/Fail	Test Accepted By
Oxygen	_____	_____	_____	_____
Medical Air	_____	_____	_____	_____
Nitrous Oxide	_____	_____	_____	_____
Carbon Dioxide	_____	_____	_____	_____
Nitrogen	_____	_____	_____	_____
Instrument Air	_____	_____	_____	_____
Medical/Surgical Vacuum	_____	_____	_____	_____
WAGD	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

### 2. Initial Pressure Test (Joints/Pipe Integrity) – See Section 10-4.13

Pressure test of 1½ times the working pressure, 1035 kPa (150 psig) minimum, nitrogen at 1655 kPa (240 psig) minimum using nitrogen (NF).

Medical Gas System	Date	Tested By	Pass/Fail	Test Accepted By
Oxygen	_____	_____	_____	_____
Medical Air	_____	_____	_____	_____
Nitrous Oxide	_____	_____	_____	_____
Carbon Dioxide	_____	_____	_____	_____
Nitrogen	_____	_____	_____	_____
Instrument Air	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

### 3. Initial Pressure Test for Vacuum Systems – See Section 10-4.13

Pressure test of 415 kPa (60 psi on copper - 15 psi on PVC) minimum using nitrogen (NF)

Medical Gas System	Date	Tested By	Pass/Fail	Test Accepted By
Medical/Surgical Vacuum				
WAGD				

### 4. Cross Connection Test (Initial) – See Section 10-4.14

Determine that each outlet is connected to the appropriate line by flowing gas through each system. Test one system at a time using nitrogen (NF).

*CSA: The test gas shall be oil-free dry air or oil-free dry nitrogen.*

Medical Gas System	Date	Tested By	Pass/Fail	Test Accepted By
Oxygen				
Medical Air				
Nitrous Oxide				
Carbon Dioxide				
Nitrogen				
Instrument Air				
Medical/Surgical Vacuum				
WAGD				

### 5. Piping Purge Test – See Section 10-4.15

High flow through assembled outlets.

Medical Gas System	Date	Tested By	Pass/Fail	Test Accepted By
Oxygen				
Medical Air				
Nitrous Oxide				
Carbon Dioxide				
Nitrogen				
Instrument Air				
Medical/Surgical Vacuum				
WAGD				

**6. Standing Pressure Test for Positive Pressure Piping – See Section 10-4.16**

Twenty-four (24) hour standing pressure test at 20% above normal line pressure using nitrogen (NF) with outlets and other components assembled.

<b>Medical Gas System</b>	<b>Date</b>	<b>Tested By</b>	<b>Pass/Fail</b>	<b>Test Accepted By</b>
Oxygen	_____	_____	_____	_____
Medical Air	_____	_____	_____	_____
Nitrous Oxide	_____	_____	_____	_____
Carbon Dioxide	_____	_____	_____	_____
Nitrogen	_____	_____	_____	_____
Instrument Air	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**7. Standing Pressure Test for Vacuum Systems**

Twenty-four (24) hour standing vacuum test at 300 mm (12 inches) gage HgV with inlets and other components assembled.

<b>Medical Gas System</b>	<b>Date</b>	<b>Tested By</b>	<b>Pass/Fail</b>	<b>Test Accepted By</b>
Medical/Surgical Vacuum	_____	_____	_____	_____
WAGD	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____