Site Preparation Checklist

Purpose of Procedure
To ensure that the installation site is properly evaluated and prepared with the appropriate utilities, consumables and supplies for the successful installation of Agilent instruments and systems.

Customer Responsibilities
Customers should ensure that all necessary operating supplies, consumables and usage dependent items such as columns, vials, syringes, solvents and buffers required for successful installation of the instrumentation are available. Installation sites should be prepared in accordance with the following specifications. An Agilent customer engineer will call approximately 2 weeks prior to installation to confirm site readiness.

Important Information
This checklist is designed to be used in conjunction with the Agilent LC/MSD TOF Site Preparation Manual. If you have problems providing any of the site preparation requirements, please contact your local Agilent sales office for assistance. Assistance with user specific applications may be provided but should be contracted separately. Users of the instrument should be present throughout the installation and familiarization otherwise important operational, maintenance and safety information may be missed.

Procedure Checklist

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Weight</th>
<th>Height</th>
<th>Depth</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1969A LC/MSD TOF:¹</td>
<td>132 kg</td>
<td>135.0 cm</td>
<td>63.5 cm</td>
<td>89.5 cm</td>
</tr>
<tr>
<td>E2M28 Mechanical Pump:²</td>
<td>40.0 kg</td>
<td>25.6 cm (56.6 cm)</td>
<td>58.3 cm</td>
<td>17.0 cm</td>
</tr>
<tr>
<td>Agilent G3251A Dual Spray ESI Source:</td>
<td>1.7 kg</td>
<td>17 cm</td>
<td>9.5 cm</td>
<td>18.0 cm</td>
</tr>
<tr>
<td>Agilent G3252A TOF APCI Source:</td>
<td>1.7 kg</td>
<td>23 cm</td>
<td>13.0 cm</td>
<td>18 cm</td>
</tr>
</tbody>
</table>

¹ G1969A dimensions include the height of the flight tube. At least 30 cm (1 ft) to the left of the LC/MSD TOF is required for installing & removing ion sources.

² Values in parenthesis include height of the oil mist filter accessory and exhaust tubing.
Environmental Conditions

Temperature: 15 to 35 °C (59 to 95 °F) at constant temperature. (Variations ≤ 3 °C).

Humidity: < 90% relative, non-condensing

Power

G1969A LC/MSD TOF:

Voltage: 200 VAC +/- 10% (U.S. & Japan)
240 VAC +/-10% (Europe)

Power: 15A, 1100 to 2200 VA

50Hz Power: 1116 VA @ 216VAC; 2300 VA @ 264VAC
60Hz Power: 1100 VA @ 180VAC; 1190 VA @ 220VAC

One 15A outlet needed. Power cord is 2.5 meters (8 feet) long. See Site Preparation Manual for additional details.

Heat Dissipation

Output: 2000 Watts (6800 BTU / hour)

Approximately 600 Watts (2047 BTU/hr) are removed with the source exhaust.

Nitrogen Gas Supply

Purity: 99.5% or better - Gas Cylinder
97.0% or better - N₂ gas generator or liquid N₂ Dewar.

Balance of impurity should consist of oxygen and/or argon. Gas must be hydrocarbon free (< 0.1 ppm).

Outlet Pressure: 85-100 psi. A 1/4” Swagelok outlet (male) fitting is required to connect the LC/MSD TOF.

Volume: Up to 18 liters/min.

Exhaust Venting Requirements

Capacity: Up to 16 liters/min.

Connections: Separate 1/2” hose barbs required for rough pump and ion source (ES, APCI, etc).

A 6 meter (20ft.) length of 1/2 inch i.d. PVC/vinyl tubing is included for venting source exhaust (drain bottle) and rough pump. (Sufficient for two, 10-foot lengths.)
### Laboratory Supply Requirements

**Mobile Phases:** Water, Methanol, Isopropanol, Acetonitrile<sup>1</sup>

**Purity:** HPLC-grade or better

**Buffers:** Ammonium Formate<sup>2</sup>

**Acids:** Acetic or Formic Acid<sup>2</sup>

<sup>1</sup>High purity solvents supplied for installation/checkout. HPLC-grade mobile phases & buffers required for routine operation.

<sup>2</sup>Recommended purities:
- Ammonium formate: 97% or better
- Acetic acid, 99.7% or better
- Formic acid, 97% or better

### Remote Diagnostics

**Phone:** A LAN connection for the control PC is recommended to provide remote diagnostics capability for the LC/MSD TOF.

A second phone line is also strongly recommended for communication with the system operator.