



## Specifications

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### **PURPOSE**

The purpose of this memorandum is to record the specifications for a laminar flow clean bench to be procured in support of the SAGE III on ISS project.

### **PROCUREMENT REQUIREMENTS**

The following table contains the requirements for the equipment to be purchased.

<b>Attribute</b>	<b>Target Requirements</b>
Flow Direction	Horizontal
External Dimensions (Width X Depth X Height)	Not greater than 53" x 32" x 73" including base stand/cart
Internal Dimensions	Not less than 46 " x 24" x 22"
Internal Workspace	Not less than 7.96 sq ft
Average Airflow Velocity	Not less than 90 fpm
Air Volumetric Flow Rate	Not less than 645 cfm
ULPA Filter Typical Efficiency	>99.999% at particle size between 0.1 to 0.3 $\mu$ m
Sound Emission Per IEST-RP-CC002.2	Not greater than 57 dBA

Attribute	Target Requirements
Fluorescent Lamp Intensity at Zero Ambient	Not less than 1680 Lux (156 foot candles)
Cabinet Construction	Work Zone: minimal thickness 18 gauge stainless steel (1.2 mm (0.05")), grade 304, with 4B finish Side Walls: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent
Electrical	110-120V, AC, 60Hz, 1Ø
Additional Features/Support	<ol style="list-style-type: none"> <li>1. Integrated/matching adjustable base stand or cart to place the work area at a height from 28" to 39".</li> <li>2. Locking casters.</li> <li>3. On site delivery, assembly, placement, and checkout.</li> </ol>