



**PHARMA DEVILS**  
**QUALITY CONTROL DEPARTMENT**

**USER REQUIREMENT SPECIFICATION (URS)**

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**USER REQUIREMENTS SPECIFICATIONS**  
**FOR**  
**SARTORIUS SEMI MICRO ANALYTICAL**  
**BALANCE**



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#### 1.0 INTRODUCTION:

This document is generated for the purpose of specifying the user requirements for a Sartorius semi analytical balance.

The URS shall be recognized as the integral part of the procurement agreement with the selected equipment vendor. The equipment supplier or vendor shall abide by the information and condition set forth by this document as well as purchasing and delivery terms and conditions.

The semi micro analytical balance shall be interfaced with the built in motorized calibration by touch of key using external weights.

The semi micro analytical balance requires certain environmental conditions.

1. Temperature
2. Relative Humidity

#### 2.0 OVERVIEW DEFINITION:

##### 2.1 The semi micro analytical balance shall have the following features:

- 2.1.1 The balance shall have updated with operating touch screen.
- 2.1.2 The balance shall be designed for the maximum weighing capacity 220 gram.
- 2.1.3. The semi micro analytical balance shall be designed to provide the list count 0.1 mg.
- 2.1.4 The semi micro analytical balance shall be provided with triangular pan with side sides of 95 mm & inner circle diameter of 80 mm.
- 2.1.5 The semi micro analytical balance shall be provided in built in motorized calibration by touch of key using external weights.

##### 2.2 Sartorius semi micro analytical balance shall be used for:

For the weighing of all type of analysis

##### 2.3 Technical Specifications:

- 2.3.1 **Weighing capacity** : 0.1 mg to 220 gm
- 2.3.2 **Readability** : 0.1 mg



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**2.3.3 Repeatability** : 0.1 mg

**2.3.4 Pan size** : 95 mm & inner circle diameter  
80 mm

**2.4 The machine is to be used at the following environmental conditions:**

Temperature: Ambient

Relative Humidity: Ambient

**2.5 Base Utilities Available:**

**2.5.1 Touch operating screen**

**2.5.2 In built motorized calibration**

**2.5.3 Stand by automatically after certain time**

**2.5.4 Touch screen unit selection**

**2.5.5 Touch key for tare the weights**

**2.5.6 Touch key for zero weight setting**

**2.6 Control system requirements:** Automatic

**2.7 Language requirements:** English

**3.0 OPERATIONAL REQUIREMENTS**

**3.1 OPERATION:**

The semi analytical balance shall have touch screen operating system.

**3.2 POWER FAILURE/RECOVERY:**

In the event of a power failure, the balance shall shut off automatically. The balance will starts after pressing the start key and balance display ready over screen after calibrating automatically. The previous data can be seen by pressing the memory key.

**3.3 EMERGENCY ALARM:**

The semi micro analytical balance shall not have emergency alarming facility.



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#### 3.4 DATA AND SECURITY:

The analytical balance shall have twenty last weighing details in its memory.

#### 3.5 INTERFACES:

The balance shall be provided with different unit facility.

#### 4.0 SALIENT FEATURES:

##### 4.1 COMPATIBILITY AND SUPPORT

###### 4.1.1 Touch screen Controllers

The supplier shall utilize touch screen controller

###### 4.1.2 Utilities

The Supplier shall specify utility requirements. The User shall ensure that the utilities are available.

##### 4.2 MATERIAL OF CONSTRUCTION:

**All metallic parts:** Stainless Steel 304

**Pan platform:** Stainless Steel 304 Mirror Polish

**Weighing pan:** Aluminium with mirror polish

#### 5.0. MAINTENANCE

Do's and don'ts to be provided

- Preventive maintenance system and checks to be provided (maintenance and operation manual of vendors equipments)
- A comprehensive recommended maintenance (regular recommended inspection )
- Supplier shall supply 2 Copies of Operation, Installation, and Maintenance manuals.
- The supplier should provide one year free service.



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#### 7.0 DELIVERY:

The analytical balance, with all options, equipment, and the documentation listed below, shall be delivered. Delivery should be confirmation of the purchase order.

#### 8.0 DOCUMENTATION:

The Supplier shall provide the documentation for preliminary review. The Supplier shall provide documentation reflecting “as-built” condition with final delivery.

All final documents shall be shipped with transmittals that identify them as contractually required documents. All final documents and drawings shall reflect “As-Built” condition.

All documents shall be in English language and supplied with hard copies and supplied in the format identified for each document:

- Installation Qualification
- Operational Qualification
- Operator, Maintenance and Service Manuals
- Instrument Listing
- Control Schematics
- Bill of Materials
- Test certificates
- Material of construction