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Veeco MS-50 **Technical Specifications**

Internal Calibrator

1 x 10-8 to 3 x 10-8 std cc/sec air equivalent Helium Mass 4 leak standard with integral solenoid valve and thermal sensor for temperature compensation. Traceable to NIST.

Ranging (Automatic)

Starts in the 10⁻³ range if **Gross Screening** is selected. If Gross Screening is not selected, the MS-50 starts at the least sensitive range (10⁻⁴ if MS-50 is in Automatic flow mode switching or locked into Reverse mode; 10⁻⁵ if MS-50 is locked into Direct flow mode). If a larger leak is detected, the unit ranges up to the appropriate decade. If a gross leak is not detected, the unit ranges downward until a leak is detected or until it reaches its most sensitive range.

NOTE:

If the unit is set for Automatic flow mode switching or Direct Flow only, the most sensitive range is 10^{-10} . If the unit is set for Reverse flow only, the most sensitive range is the 10^{-9} range.

Roughing Pump:

16-cfm dual stage rotary vane mechanical pump.

Turbo Pump:

52 liter/second hybrid turbo/drag pump. Magnetically suspended bearing.

Foreline Pump:

7-cfm dual stage rotary vane mechanical pump.

Sensitivity

3 x 10⁻¹⁰ std cc/sec air equivalent Reverse Flow Mode: 3 x 10⁻¹¹ std cc/sec air equivalent Direct Flow Mode:

10 x 100 to 3 x 10⁻¹¹ std cc/sec air equivalent Leak Rate Range:

Resolution

14 at Mass 4

Maximum Measurable Leak

10 x 100 std cc/sec air equivalent

Test Mode Maximum Crossover Pressure (Torr)

Gross Mode: 100.0 Reverse Mode: 10.0 Direct Mode: 0.2

Test Mode Leak Rate Ranges (std cc/sec air equivalent)

10 x 10-4 to 0.3 x 10⁻⁹ Reverse: $10 \times 10-5 \text{ to } 0.3 \times 10^{-10}$ Direct: $10 \times 100 \text{ to } 0.6 \times 10^{-4}$ Gross:

Dimensions:

Height: 35 1/4" (89.6 cm), to tabletop.

Width: 25 3/4" (65.4 cm). Depth: 30 5/8" (77.8 cm).

Shipping Weight:

475 lb. (216 kg), crated.

