9 Technical Data

9.1 Technical data of components

9.1.1 Power supply

- Mains voltage and frequencies: 100 V…240 V, 50/60 Hz
- Power consumption: < 400 VA
- Protective system - basic device: IP20
- Protective system - control panel: IP40

9.1.2 Weight / dimensions

- Dimensions (L x W x H): 535 x 350 x 339 mm
- Weight: 30 kg
- Noise level dB(A): < 70
- Noise level dB(A): < 56
- Noise level dB (A) 0.5 m distance: < 56
- Audio alarm dB(A): 90
- Contamination level (to IEC 60664-1): 2
- Overvoltage category (to IEC 60664-1): II
- Mains connection line: 3 m

9.1.3 Characteristics

- Max. inlet pressure (Modul1000): 0.4 mbar
- Max. inlet pressure (Modul1000b): 3.0 mbar
- Minimum detectable Helium leak rates in vacuum mode (ULTRA): < 5×10^{-12} mbar l/s
- Minimum detection limit in sniff mode: < 5×10^{-8} mbar l/s
- Maximum allowed gas flow in the sniffer line: 25 sccm
- Maximum Helium leak rate which can be displayed: 0.1 mbar l/s
- Measurement range: 12 decades
- Maximum pumping speed (helium) at inlet ULTRA mode: 2.5 l/s
- Time constant of leak rate signal (63% of the final value): < 1 s
- Detectable masses: 2, 3 and 4
- Run-up time (after starting): ≤ 3 min.
- Mass spectrometer: 180° magn. Sector range
- Ion source (2-cathodes): Iridium/Yttrium oxide
- Inlet Port: DN25 KF
- Valves: solenoid
9.1.4 Environmental Conditions

For use within buildings
Permissible ambient temperature (during operation) +10° C … +40° C
50° F … 104° F

Permissible storage temperature
0° C … +60° C
32° F … 140° F

Maximum relative humidity
80% at 31°C / 88°F, linearly decreasing to 50 % at 40 °C / 104 °F

Max. permissible height above sea level
(during operation)
2000 m