



Varian 979

Technical Specifications

| Specifications | 979 Helium Mass Spectrometer Versions | | | | | | | |
|---|---|---------|------------------|---------|-----------------------|---------|------------------|---------|
| System Sensitivity | Standard Sensitivity | | | | High Sensitivity | | | |
| High Vacuum Pump Type, Air-cooled, maintenance-free | Vacuum Technologies Turbomolecular Pump | | | | | | | |
| Rough/Fore Pump | Wet (Oil-sealed) | | Dry (TriScroll™) | | Wet (Oil-sealed) | | Dry (TriScroll™) | |
| Rough Pump Type | — | SD-451 | — | TS-620 | — | SD-451 | — | TS-620 |
| Free Air Displacement l/min, 60/50 Hz | — | 410/342 | — | 500/420 | — | 410/342 | — | 500/420 |
| Fore Pump Type | DS-302 | DS-302 | TS-620 | TS-320 | DS-302 | DS-302 | TS-620 | TS-320 |
| Free Air Displacement, l/min, 60/50 Hz | 285/237 | 285/237 | 500/420 | 250/210 | 285/237 | 285/237 | 520/420 | 250/210 |
| Minimum Detectable Leak, atm-cc/sec | 5 x 10 ⁻¹⁰ | | | | 5 x 10 ⁻¹¹ | | | |
| Leak Units | atm-cc/sec, mbar-l/sec, torr-l/sec, Pa-m ³ /sec | | | | | | | |
| Response Time | Less than 0.5 second, in accordance with AVS Standard 2.1. | | | | | | | |
| Amplifier Drift | Less than 5% of full scale of the most sensitive range, in accordance with AVS Standard 2.1. | | | | | | | |
| Noise Level | Less than 5% of full scale, peak-to-peak, in accordance with AVS Standard 2.1. | | | | | | | |
| Calibration | Fully automated tuning and calibration using the internal or external calibrated leak. The fast calibrate feature allows the standard version to calibrate in less than 20 seconds and the high sensitivity version to calibrate in less than 1 minute. | | | | | | | |
| Zero Control | Selectable mode background elimination with unique AUTOZERO<0 feature. | | | | | | | |
| Leak Indication | A 50-segment bar graph (linear or log) indicator displays leak rates automatically; alphanumeric indication on LCD display. A leak can also trigger an audible alarm frequency that varies in proportion to the size of the leak, dedicated volume control and programmable audio threshold. Analog voltage is proportional to the leak rate. | | | | | | | |



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Features & Benefits

- wide selection of mechanical pump sizes & mountain arrangements
- extensive protection from air inrushes & power failures
- extra high testing sensitivity & pressure tolerance
- high sensitivity testing at high test port pressures
- available in standard and dry versions
- flexible & easy to use
- maintenance free



Applications

- nuclear • aerospace • medical electronics • research & development
- refrigeration & air-conditioning • chemical plants & refineries
- semiconductors • automotive • drug & food packaging • thin film processing • rapid cycle evacuation testing • gas distribution systems • fast response sniff testing