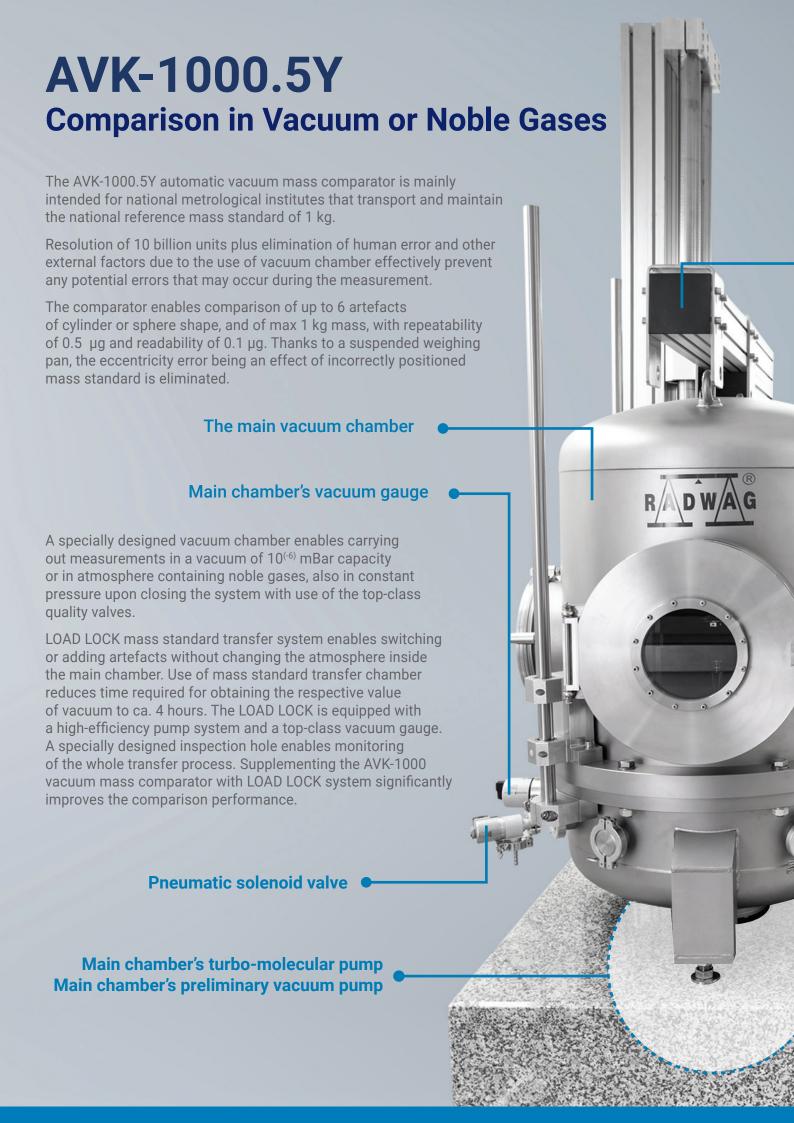
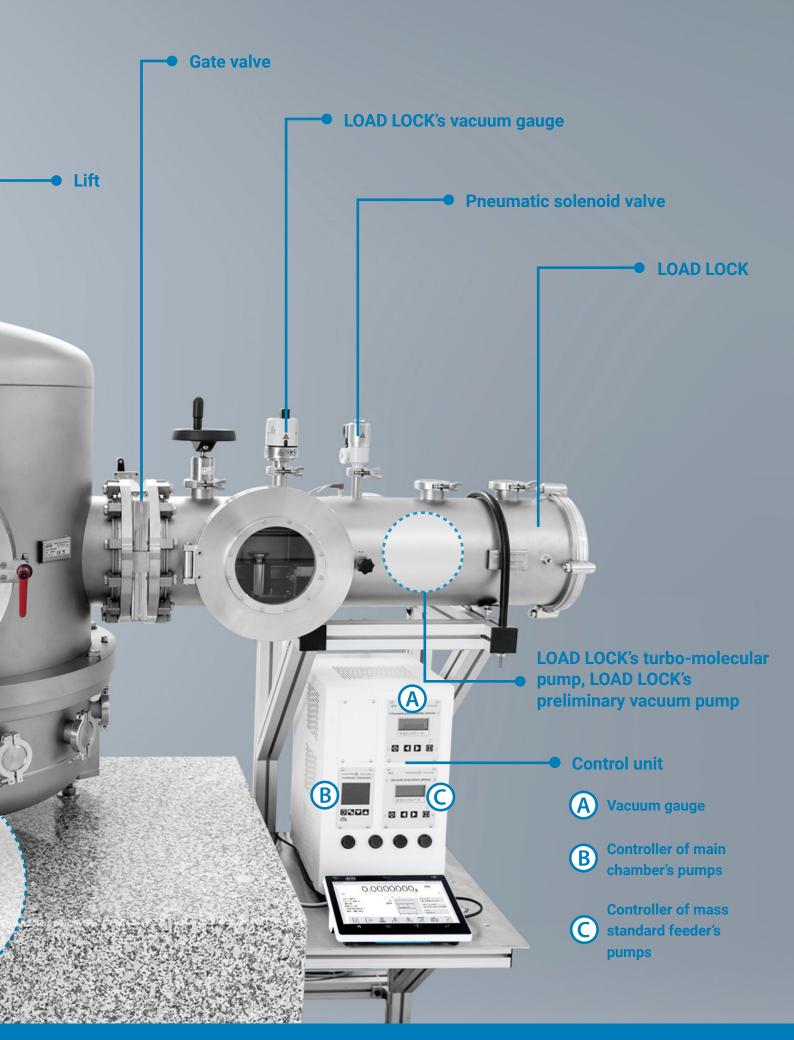


AVK-1000.5Y

Automatic Vacuum Mass Comparator

Comparison in Vacuum with the Highest Accuracy Measurement in a Vacuum of 10⁽⁻⁶⁾ mBar Suspended Weighing Pan for Elimination of Eccentricity Errors LOAD LOCK – Mass Standard Transfer System







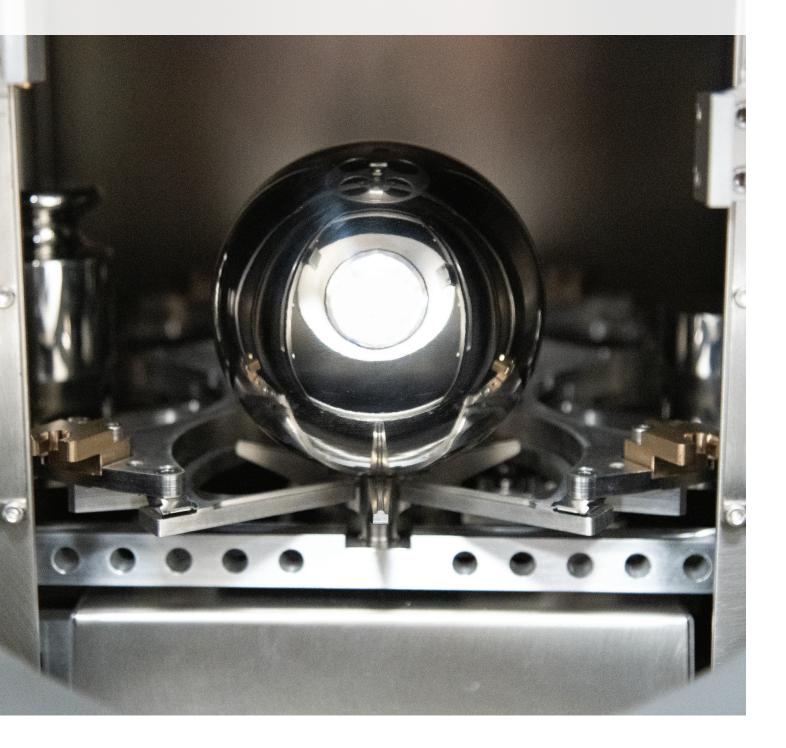
Used chamber enables comparison in vacuum of maximum $10^{(-6)}$ mBar or in noble gases such as argon.

The LOAD LOCK System



The LOAD LOCK system for transfer of mass standards enables switching and adding artefacts without changing the atmosphere inside the main chamber.

Magazine



The mass comparator features magazine for 6 cylindrical objects of Ø 22 - 95 mm x 110 mm or sphere objects of maximum diameter of Ø 100 mm.

Main Chamber



The main chamber of mass comparator is equipped with 8 flanges (DN 40 ISO KF) for connecting devices such as vacuum gauge, solenoid valves, CO₂ sensors, etc. LOAD LOCK chamber features 2 such flanges.

Pump System Controller



Controller set for operation of preliminary and turbomolecular pump of the main chamber and LOAD LOCK system, and vacuum gauge controller.

Vacuum Pump



Turbomolecular pump used to maintain vacuum at the level of $10^{(-6)}$ mBar.





Two Faces

Depending on your preference, AVK-1000.5Y Vacuum Mass Comparator enables light and dark mode.



Ambient Light

Innovative way of user-balance communication.







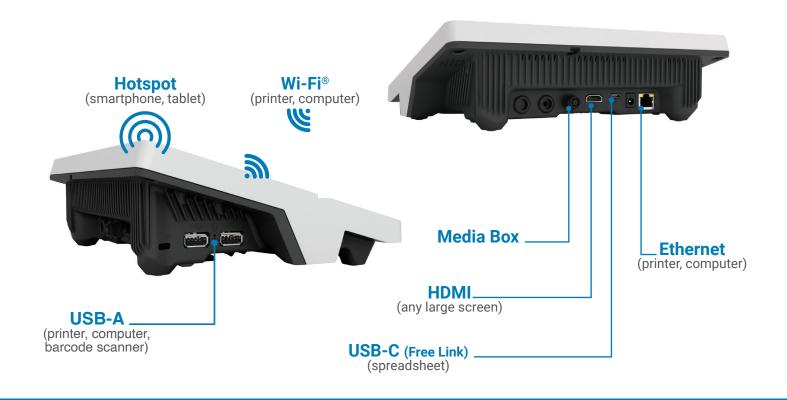


Hotspot



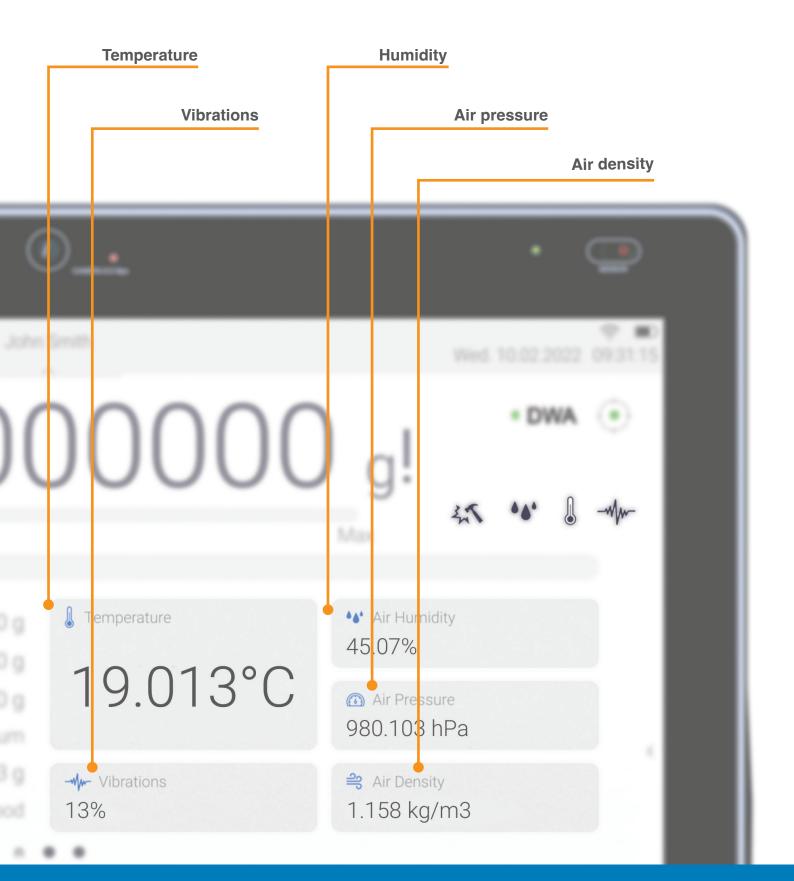
Safety First - Audited Login Methods





Are the Conditions in Your Laboratory the Best for the Balance You Have?

AVK-1000.5Y Vacuum Mass Comparator monitors temperature, humidity, pressure, and vibration. The results are displayed as graphs or a widget on the home screen. Unsuitable conditions for the balance are signalled by DWA. And all of this is recorded in a dedicated database.



Technical Specification

OIML calibration range	100 g - 1 kg
OIML calibration range	100 g – 1 kg
OIML calibration range	100 g - 1 kg
OIML calibration range	100 g - 1 kg
OIML calibration range	-
OIML calibration range	_
Maximum capacity [Max]	1002 g
Readability [d]	0.1 µg
Repeatability for nominal load *	0.5 µg
Stabilization time	60 s
Adjustment	External
Electric compensation range	-1 g - + 2 g
External supplementary weights	500 g; 800 g; 900 g
Comparison object dimensions	Cylindrical ø 22 - 95 mm × 110 mm; spherical ø 40 - 100 mm
Magazine positions	6
Display	10" colour touch screen
Communication interfaces	2×USB-A, Ethernet, USB-C, HDMI, Hotspot, Wi-Fi® ***
Operating temperature	+15 - +30 °C
Operating temperature change rate	±0.1 °C / 12 h
Pressure in the vacuum chamber	10 ⁻⁶ mBar
Relative humidity **	45 - 60%
Transport and storage temperature	-20 - +50 °C
Weighing pan dimensions	ø 100 mm
Indicator dimensions (L×W×H)	249 × 170 × 72 mm
Overall dimensions (L×W×H)	965 × 745 × 1700 mm

 $^{{}^{*}\}text{Repeatability in vacuum for model ambient conditions} \quad | \text{ ***Non-condensing conditions} \quad | \text{ ***Wi-Fi}{}^{@} \text{ is a registered trademark of Wi-Fi Alliance.} \\$

