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AVK-1000.5Y

Constant-Pressure Automatic Mass Comparator

Airtight chamber allowing comparisons under constant pressure
6-position storage for mass standards
Precision self-centring pan to eliminate off-centre errors

1

Constant pressure mass comparator

- Six-position mass standards magazine
- Self-centring hanging weighing pan
- Modern 10" terminal



Calibration range E0	100 g – 1 kg
Calibration range E1	100 g – 1 kg
Calibration range E2	100 g – 1 kg
Calibration range F1	100 g – 1 kg
Calibration range F2	100 g – 1 kg
Max capacity [Max]	1002 g
Readability [d]	0.1 µg
Standard repeatability [5% Max]	0.7 µg
Standard repeatability [Max]	1 µg
Permissible repeatability	1.5 µg
Electric compensation range	-1 g – +2 g
Stabilization time	60 s
Adjustment	External
Magazine positions	6
Weighing pan dimensions	ø100 mm
Pressure range	Constant pressure

2

Vacuum mass comparator expanded with pumps

- Turbomolecular pump for pressure level of 10^{-6} mBar
- Precision vacuum meter
- Pump control cabinet



Calibration range E0	100 g – 1 kg
Calibration range E1	100 g – 1 kg
Calibration range E2	100 g – 1 kg
Calibration range F1	100 g – 1 kg
Calibration range F2	100 g – 1 kg
Max capacity [Max]	1002 g
Readability [d]	0.1 μ g
Standard repeatability [5% Max]	0.4 μ g
Standard repeatability [Max]	0.5 μ g
Permissible repeatability	1 μ g
Electric compensation range	-1 g – +2 g
Stabilization time	60 s
Adjustment	External
Magazine positions	6
Weighing pan dimensions	ϕ 100 mm
Pressure range	10^{-6} mBar

3

Vacuum mass comparator expanded with pumps and Load-Lock

- Load-Lock for changing mass standards without changing pressure in the main chamber
- Vacuum case for the transport of mass standards under reduced pressure
- System for working in a noble gas atmosphere



Calibration range E0	100 g – 1 kg
Calibration range E1	100 g – 1 kg
Calibration range E2	100 g – 1 kg
Calibration range F1	100 g – 1 kg
Calibration range F2	100 g – 1 kg
Max capacity [Max]	1002 g
Readability [d]	0.1 µg
Standard repeatability [5% Max]	0.4 µg
Standard repeatability [Max]	0.5 µg
Permissible repeatability	1 µg
Electric compensation range	-1 g – +2 g
Stabilization time	60 s
Adjustment	External
Magazine positions	6
Weighing pan dimensions	ø100 mm
Pressure range	10 ⁻⁶ mBar