SKC chek-mate Flowmeters

Handheld flowmeters for sampling pumps, 20 mL/min to 30 L/min

The chek-mate is a handheld differential-pressure flowmeter for checking the flow of air sampling pumps. Built-in sensors correct for air temperature and atmospheric pressure, so it reads volumetric flow without a piston-style meter. Three models cover 20 mL/min to 30 L/min; the medium and high flow models link directly to CalChek-ready pumps.



30 L/min	±1 %	About 30 h	8.2–8.6 oz	32–104 °F
Highest flow of the three models	Accuracy of reading in the certified ranges	Run time on one battery	Weight of any model	Operating temperature

Performance

Principle	Differential pressure across a fixed orifice; no moving parts
Correction	Built-in sensors correct for air temperature and atmospheric pressure
Accuracy [1]	±1 % of reading within the certified range of each model 2.5 % outside it, medium and low flow models
Resolution	High flow: 0.01 L/min; medium flow: 0.001 L/min Low flow: 0.01 mL/min up to 100 mL/min, 0.1 mL/min above
Display	Large display with a continuous moving-average flow reading; one-button operation

Operating conditions

Operating temperature	32–104 °F (0–40 °C)
Atmospheric pressure	20.7–32.2 inHg (700–1090 mbar)
Altitude	Sea level to about 10 000 ft (3050 m)

Mechanical

Dimensions	7.1 × 3.3 × 1.3 in (18 × 8.3 × 3.3 cm)
Weight	High flow: 8.6 oz (244 g); medium flow: 8.3 oz (236 g) Low flow: 8.2 oz (232 g); every model under 9 oz (255 g)
Inlet	Long barbed fitting that holds the tubing
Protection	Internal filter keeps dust away from the sensors
Orientation	Any; the meter has no moving parts

Electrical and communication

Battery	One 9 V alkaline battery (PP3/6LR61/1604A or equivalent) or a rechargeable 8.4 V NiMH battery (PP3/6HR1/8.4H5 or equivalent)
Run time	About 30 h, depending on the battery

Compliance

Calibration certificate [2]	Calibrated in an ISO 17025-accredited laboratory; certificate supplied
Conformity	CE marked

CalChek

Models	Medium and high flow models only
Pumps	Leland Legacy, or AirChek TOUCH in a standard cradle or e-Cradle
Connection	CalChek cable 375-200, direct between meter and pump or cradle
Function	Checks the flow at one point, or calibrates across the pump's flow range
Pulsation dampener [3]	Medium flow models: 375-100 High flow models: 375-150

Models and flow ranges

Model	Measuring range	Certified ±1 % range	Resolution	CalChek
High flow	5–30 L/min	5–30 L/min	0.01 L/min	Yes
Medium flow	0.5–5 L/min	750–5000 mL/min	0.001 L/min	Yes
Low flow	20–500 mL/min	50–500 mL/min	0.01 up to 100 mL/min, 0.1 above	–

Flowmeters and kits

Order code	Model	Calibration certificate	Contents
375-50300	High flow	UK standard	Flowmeter
375-50300N	High flow	NIST standard	Flowmeter
375-50300S	High flow	ISO standard	Flowmeter
375-50300K	High flow	UK standard	Flowmeter kit
375-50300-KN	High flow	NIST standard	Flowmeter kit
375-50300-KNS	High flow	ISO standard	Flowmeter kit
375-0550	Medium flow	UK standard	Flowmeter
Ask Analyt-MTC	Medium flow	NIST standard	Flowmeter
375-0550S	Medium flow	ISO standard	Flowmeter
375-0550K	Medium flow	UK standard	Flowmeter kit
375-0550-KN	Medium flow	NIST standard	Flowmeter kit
375-0550-KNS	Medium flow	ISO standard	Flowmeter kit
375-00205	Low flow	UK standard	Flowmeter
Ask Analyt-MTC	Low flow	NIST standard	Flowmeter
375-00205S	Low flow	ISO standard	Flowmeter

Order from Analyt-MTC with the order codes. High flow kits include pulsation dampener 375-150; medium flow kits include 375-100.

Accessories and spare parts

Pulsation dampener, medium flow models	375-100
Pulsation dampener, high flow models	375-150
CalChek communication cable	375-200
Replacement 9 V alkaline battery	P37500

Notes

1. The certified ranges are 5–30 L/min (high flow), 750–5000 mL/min (medium flow) and 50–500 mL/min (low flow).
2. Calibrated against UK, NIST or ISO national standards in an ISO 17025-accredited laboratory; the certificate is traceable to the standard ordered.
3. A pulsation dampener is required with the medium and high flow models.
4. Every flowmeter includes a 9 V battery.

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