SKC AirChek TOUCH

Personal air sampling pump with colour touch screen, 5 to 5000 mL/min

The AirChek TOUCH samples with sorbent tubes, filters, size-selective particulate samplers and impingers. Its isothermal flow control corrects for changes in back pressure, temperature and atmospheric pressure. It is programmed on its touch screen or from a PC, and CalChek verifies its flow rate with a chek-mate flowmeter.



1000–5000	5–500	50 inH_2O	20 h	±5 %
Constant flow, mL/min	Low flow with holder, mL/min	Back pressure at 2000 mL/min	Run time at 2000 mL/min	Flow control

Performance

Pump type	Type P for personal sampling of airborne particles according to ISO 13137:2022
Flow range [1]	Constant flow: 1000–5000 mL/min Low flow: 5–500 mL/min, with a low flow holder
Back pressure (pressure drop)	5000 mL/min: 0–20 inH_2O (0–5 kPa) 4000 mL/min: 0–30 inH_2O (0–7.5 kPa) 3000 mL/min: 0–40 inH_2O (0–10 kPa) 2000 and 1000 mL/min: 0–50 inH_2O (0–12.5 kPa)
Flow control system	Isothermal; corrects for changes in back pressure, temperature and atmospheric pressure
Accuracy	Flow control: ±5 % of set point Atmospheric pressure: ±0.3 inHg Temperature: ±1 °C Time: ±0.002 %
Flow fault and auto-restart [2]	If the pump cannot compensate, it goes into flow fault mode and tries to restart 5 times
Sound level	Average 51.7 dB at 3 ft (1 m), with a 37 mm, 0.8 µm MCE filter cassette

Operating conditions

Temperature	Operating: 32–104 °F (0–40 °C) Charging: 32–113 °F (0–45 °C) Storage: −4 to 113 °F (−20 to 45 °C)
Humidity	Operating and storage: ≤ 95 % RH, non-condensing
Altitude	Corrects flow for changes in temperature (32–104 °F, 0–40 °C) and ambient pressure Up to 15000 ft (4572 m) above and down to 4500 ft (1372 m) below sea level
Media	Sorbent tubes, filters, size-selective particulate samplers and impingers

Mechanical

Dimensions	4.1 × 3.7 × 2.8 in (10.4 × 9.4 × 7.1 cm)
Weight	19.4 oz (550 g)
Case material	Polycarbonate with rubberised anti-static overmoulding
Tubing	Requires 1/4 in ID tubing
Ingress protection	Not rated

Electrical and communication

Power [4]	Removable rechargeable Li-ion battery, 7.2 V, 3.3 Ah, 24 Wh, or AC using the charging cradle
Operating time [3]	8+ h at 2000 mL/min against 16 inH_2O (4 kPa); 8+ h at 5000 mL/min against 20 inH_2O (5 kPa) 20 h at 2000 mL/min; 10 h at 5000 mL/min Indefinite run from the charging cradle
Charging method [4]	Cradle, as a single unit with Single Cradle Power Supply 220-600 Chainable up to 5 units with Multi Cradle Power Supply 220-700
Charging time	Approximately 3 hours; varies with battery capacity and level of discharge
Charge input	Maximum charge input voltage Um = 12 V
PC connection	Through the e-Cradle (USB), with the manufacturer's free DataTrac Pro software download

Compliance

Intrinsic safety [4]	UL: Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G Class III, Div. 1 hazardous locations, with SKC battery pack P75718 or P75718A; T-Code T3C Exia; Class I, Zone 0, Gp IIC (220-5000TC); cULus Listed, E62011 Only SKC-approved parts maintain the UL listing for intrinsic safety
Marks	CE, UKCA; RoHS compliant; designed to meet ISO 13137:2022
Li-ion battery	Tested to the UN Manual of Tests and Criteria, Part III, subsection 38.3 Rated below 100 Wh; special shipping regulations, UN 3480 and UN 3481

Display and data

Display	Colour LCD; real-time flow rate, ambient temperature, ambient pressure, accumulated volume, elapsed time
User interface	Resistive touch screen, auto-dim, locking options
Status LEDs	Dual LED; blinking green = running pump, blinking red = flow fault
History	Up to 1042 history records
Auto power-off	A non-running pump powers off after 5 minutes of inactivity

Programming

Features	Real-time clock, manual and PC programmability, on-screen battery status, secure clip
CalChek	Automatic flow verification at one flow point, before and after sampling Calibration over a range of flows after repair or maintenance; documented in DataTrac Pro
Timed sampling	Continuous or intermittent runs; up to 4 saved presets, P1 to P4

Pump and kits

Order code	Item	Pumps	Charging cradles	Sampling accessories
220-5000TC	Pump with Li-ion battery, manual, screwdriver kit	1	Order separately	–
220-5000TCK	Basic kit	1	1 e-Cradle	–
220-5000TCK5	Basic kit	5	4 standard, 1 e-Cradle	–
220-5000TCKP	Dust kit	1	1 e-Cradle	IOM sampler, 5 cassettes, foams, Calidaptor
220-5000TCK5P	Dust kit	5	4 standard, 1 e-Cradle	5 IOM samplers, 10 cassettes, foams, Calidaptor
220-5000TCKV	Vapour kit	1	1 e-Cradle	All-in-One tube holder, tube cover, tube breaker
220-5000TCK5V	Vapour kit	5	4 standard, 1 e-Cradle	5 tube holders, 5 tube covers, tube breaker
220-5000TCKC	Combined kit	1	1 e-Cradle	Dust and vapour accessories as above
220-5000TCK5C	Combined kit	5	4 standard, 1 e-Cradle	As above, for 5 pumps
Ask Analyt-MTC	Starter, High Flow and High/Low Flow kits	1, 3 or 5	Standard or e-Cradle	Cassette holders, tube holders, covers

Order from Analyt-MTC with the order codes. Each 220-5000TCK kit adds a power supply with cord, 1 m tubing per pump and a carry case.

Accessories and spare parts

Standard Charging Cradle; requires a power supply	220-800
Charging e-Cradle with USB cable; requires a power supply	220-900
Single Cradle Power Supply, one cradle, 100–240 V	220-600
Multi Cradle Power Supply, 2 to 5 cradles, 100–240 V	220-700
DataTrac Pro Hardware Accessory Kit: e-Cradle, power supply, USB cable	877-93
Low Flow Kit, 5–500 mL/min: All-in-One tube holder, Type A tube cover	210-500
Protective pouch, black nylon, waist belt and shoulder strap	224-911
Medium Flow chek-mate with CalChek, 0.50–5 L/min, UK traceable certificate	375-0550
Medium Flow chek-mate with CalChek, ISO traceable certificate	375-0550S
CalChek Communication Cable	375-200
Pulsation Dampener, for CalChek full calibration	375-100
Replacement battery pack, Li-ion	P75718A or P75718

Notes

1. Low flow, one tube: All-in-One adjustable tube holder, pump set to 1.5 L/min. Several tubes: Constant Pressure Controller with a Dual, Tri or Quad holder, at most 500 mL/min per tube.
2. A flow fault longer than 15 s stops the pump, which tries to restart every 15 s. Typical causes: insufficient battery charge, overloaded sample media, kinked tubing.
3. Tested using a 37 mm, 0.8 µm MCE filter with a new pump and battery. Pump performance may vary.
4. Use only battery pack P75718 or P75718A and cradle 220-900, 220-800 or 220-850; substitution of components may impair intrinsic safety. In hazardous areas, do not charge or change batteries or run the pump in the cradle.
5. Heated above 212 °F (100 °C) or incinerated, the battery may present a risk of fire or explosion; replace it only with P75718 or P75718A.
6. Spare parts: belt clip P51824, inlet P20423, inlet filter and O-rings (pack of 3) P4001, screen cover P20422.
7. chek-mate with NIST traceable certificate: ask Analyt-MTC. Kit of the Medium Flow chek-mate and Pulsation Dampener 375-100: 375-0550-KN (NIST certificate), 375-0550-KNS (ISO certificate).

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Sales, service and calibration

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