SKC AirChek Connect

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



The AirChek Connect holds the set flow as back pressure rises and corrects it for temperature and atmospheric pressure. A touch screen sets and programs the pump. Over Bluetooth low energy, the SmartWave app on a mobile device or DataTrac Pro on a PC operates and monitors a pump within range.

5–5000	50 inH_2O	40+ h	±5 %	24 Wh
Flow range, mL/min	Back pressure held at 2000 mL/min	Run time at 2000 mL/min, 37 mm filter	Flow control around the set point	Battery energy, Li-ion

Performance

Flow range [1]	Constant flow: 1000–5000 mL/min Low flow: 5–500 mL/min with a low flow holder
Flow control	Set point ±5 %; corrects for temperature and atmospheric pressure
Flow fault	Automatic restart after a flow fault
Low flow sampling	Several tubes at once in low flow mode
Reading accuracy	Temperature: ±1 °C Atmospheric pressure: ±0.3 inHg

Mechanical

Sound level	51.7 dB average at 3 ft (1 m), with a 37 mm, 0.8 µm MCE filter cassette
Case	Polycarbonate with rubberised anti-static overmoulding
Ingress protection	IP6x, dust-tight enclosure
Inlet	For 1/4" ID tubing
Size and weight	4.1 × 3.7 × 2.8 in (10.4 × 9.4 × 7.1 cm), 19.4 oz (550 g)

Electrical and communication

Battery	Removable Li-ion pack, 7.2 V, 3.3 Ah, 24 Wh; or mains power through the cradle
Run time [2]	2000 mL/min: 40 h or more 5000 mL/min: 15 h or more In the charging cradle: unlimited
Charging cradles	Up to 5 cradles chained on one cable
Link	Bluetooth low energy, for pumps within range
Mobile	Free SmartWave app for operation and monitoring
PC	DataTrac Pro software; USB Bluetooth adapter 877-94 (software is a free download)
Download history	Run history downloads to the PC

Compliance

Intrinsic safety [3]	UL913, CAN/CSA C22.2: Class I, Groups A–D; Class II, Groups E–G; Class III, T4 Class I, Zone 0: AEx ia and Ex ia IIC T4 Ga; −20 °C ≤ Ta ≤ 45 °C ATEX: Ex II 1G Ex ia IIC T4 Ga; DEMKO 19ATEX 2288 IECEx UL 19.0100; UKEX: UL22UKEX2351
Conformity	cULus Listed, E62011; CE 0539; UKCA 0843; RoHS compliant Type P pump for personal sampling of airborne particles, designed to meet ISO 13137:2022

Display and operation

Display	Backlit high-contrast LCD with auto-dim
Shown on screen	Time, date, battery status, flow, volume, temperature, atmospheric pressure, back pressure, remaining and elapsed run time
Control	8-area capacitive touch screen; lock-out feature and protective cover
Programming	Set and program from the touch screen
Status LEDs	Bright running and status LEDs

AirChek pump selection guide

AirChek ESSENTIAL	Touch keypad Intrinsically safe; compensates for temperature and atmospheric pressure; flow fault with auto-restart
AirChek ESSENTIAL+	Touch screen Intrinsically safe; compensates for temperature and atmospheric pressure; flow fault with auto-restart
AirChek TOUCH	Colour touch screen; programmable; PC compatible, download history Intrinsically safe; compensates for temperature and atmospheric pressure; flow fault with auto-restart CalChek automatic flow rate verification and calibration
AirChek Connect	Touch screen; programmable; PC compatible, download history Intrinsically safe; compensates for temperature and atmospheric pressure; flow fault with auto-restart Bluetooth connection with PC and mobile; SmartWave mobile app

Pressure drop (back pressure held) by flow rate

Flow rate, mL/min	1000	2000	3000	4000	5000
Back pressure held, inH_2O	60	50	40	30	20

Pump and kits

Order code	Description
220-4000	Pump only
Ask Analyt-MTC	Starter pump kit
Ask Analyt-MTC	Single high flow pump kit
220-4000-K3	3-pack high flow pump kit
Ask Analyt-MTC	5-pack high flow pump kit

Order from Analyt-MTC with the order codes. The pump alone needs a charging cradle and a power supply; the kits include them.

Flowmeters and accessories

chek-mate flowmeter, UK standard traceable certificate	375-0550
chek-mate flowmeter, NIST standard traceable certificate	Ask Analyt-MTC
Low flow kit, 5–500 mL/min, All-in-One holder and Type A cover	210-500
Constant pressure controller (CPC) for multiple tubes	224-26-CPC
Protective pouch, black nylon, waist belt and shoulder strap	224-911
DataTrac Pro USB Bluetooth adapter (free software download)	877-94
Standard charging cradle	220-800
Single-cradle power supply	220-600
Multi-cradle power supply, 2 to 5 cradles	220-700
Replacement battery pack, Li-ion	P75718

Notes

1. 5–500 mL/min needs a low flow holder.
2. Run times were measured with a 37 mm, 0.8 µm MCE filter, a new pump and a new, fully charged battery; pump and battery performance may vary.
3. Intrinsic safety holds only for pump 220-4000 operated with SKC battery pack P75718 or P75718A.
4. There is also a chek-mate with an ISO standard traceable certificate; ask Analyt-MTC.

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