

AirChek TOUCH

SAMPLE PUMP



Easy navigation on color touch screen



Full programmability – on PC or touch screen

Flows from 5 to 5000 ml/min

TOUCH screen for intuitive operation and flow rate verification — the easiest pump you will ever use

Powerful battery provides up to 20 hours of run time

Features to help you power through multiple sampling applications

Hands-free flow rate verification/calibration with SKC CalChek® Cable and Medium Flow chek-mate Flowmeter



Automatic flow rate verification/calibration with CalChek



The Leader in Sampling Solutions and Expertise for OEHS Professionals

www.skcinc.com

AirChek TOUCH

KEY FEATURES

Extended flows from 5 to 5000 ml/min

- 5 to 500 ml/min with low flow accessories
- Multi-tube sampling in low flow mode

High back pressure compensation

Automatic flow correction for changes in temperature and atmospheric pressure

Full programmability from easy-to-use color touch screen or from PC with DataTrac® Pro Software

CalChek automatic flow rate verification/calibration with chek-mate Flowmeter - see more on page 4!

Flow fault and auto-restart

Powerful Li-Ion battery lasts multiple shifts

Rugged and secure

Ultra quiet

Chainable charging cradles - use one power source

Advanced reporting from DataTrac Pro Software

Intrinsically safe

Designed to meet ISO 13137:2022



Selection Guide

AirChek	AirChek ESSENTIAL	AirChek ESSENTIAL+	AirChek TOUCH	AirChek CONNECT
Intrinsically Safe	•	•	•	•
Operation	Touch keypad	Touch screen	Color touch screen	Touch screen
Programmable			•	•
PC Compatible – Download History			•	•
Bluetooth® Connection with PC and Mobile				•
SmartWave Mobile App				•
Compensates for Changes in Temperature and Atmospheric Pressure	•	•	•	•
Flow Fault/Auto-restart	•	•	•	•
CalChek® Automatic Flow Rate Verification/Calibration Feature			•	



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5 to 5000 ml/min Sample Pump

PERFORMANCE PROFILE

Nominal Flow Range	Constant flow from 1000 to 5000 ml/min (5 to 500 ml/min requires low flow tube holder)
Nominal Range of Pressure Drop	5000 ml/min at 20 inches water back pressure 4000 ml/min at 30 inches water back pressure 3000 ml/min at 40 inches water back pressure 2000 ml/min at 50 inches water back pressure 1000 ml/min at 50 inches water back pressure
Flow Control System	Isothermal, corrects for changes in back pressure, temperature, and atmospheric pressure
Flow Fault/Auto-restart	If unable to compensate, pump goes into flow fault mode and tries restart 5 times.
Power	Removable rechargeable Lithium-ion (Li-Ion) battery, 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle
Operating Time	20 hours at 2000 ml/min [‡] 10 hours at 5000 ml/min [‡] Indefinite run from charging cradle
Charging Time/Charging Method (varies with battery capacity and level of discharge)	Approximately 3 hours/charge via cradle, available as a single unit using Single Cradle Power Supply Cat. No. 220-600; chainable up to 5 units using a Multi Cradle Power Supply Cat. No. 220-700
Accuracy	Flow control: $\pm 5\%$ of set-point Atmospheric pressure: ± 0.3 in Hg Temperature: ± 1 C
Temperature Ranges	Operating: 32 to 104 F (0 to 40 C) Charging: 32 to 113 F (0 to 45 C) Storage: -4 to 113 F (-20 to 45 C)
Humidity Ranges	Operating: $\leq 95\%$ RH, non-condensing Storage: $\leq 95\%$ RH, non-condensing.
Altitude	Corrects flow for changes in temperature (32 to 104 F [0 to 40 C]) and ambient pressure up to 15,000 feet (4,572 meters) above and down to 4,500 feet (1,372 meters) below sea level
Display/Parameters	Color LCD/real-time flow rate, ambient temperature, ambient pressure, accumulated volume, elapsed time
User Interface	Resistive touch screen with auto-dim and locking options
Sound Level	Avg. 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8- μ m MCE filter cassette
Tubing	Requires 1/4-inch ID tubing
Dimensions	4.1 x 3.7 x 2.8 in (10.4 x 9.4 x 7.1 cm)
Weight	19.4 oz (550 gm)
Certifications	<ul style="list-style-type: none">• Intrinsic safety: 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 when used with SKC battery pack Cat. No. P75718; T-Code T3C. Exia; Class I, Zone 0 Gp IIC (SKC Cat. No. 220-5000TC)• CE, UKCA• AirChek TOUCH is a type P pump for personal sampling of airborne particles and is designed to meet ISO 13137.2022
Case Material	Polycarbonate; rubberized anti-static overmolding

[‡] Results obtained using a new pump, new fully charged battery, and 37-mm, 0.8- μ m MCE filter. Pump and battery performance may vary

AirChek TOUCH 5 to 5000 ml/min Sample Pump

ORDERING

Available as Cat. No.

220-5000TC	AirChek TOUCH Pump only
220-5000TC-S	Starter Pump Kit
220-5000TC-K	Single High Flow Pump Kit
220-5000TC-KD	Single High/Low Flow Pump Kit
220-5000TC-K3D	3-pack High/Low Flow Pump Kit
220-5000TC-K5D	5-pack High/Low Flow Pump Kit



"Pump only" requires charging cradle and power supply that is included in kits.
See more at www.skcinc.com/touch-pumps.

Recommended Flowmeter[†]

375-0550N	chek-mate with NIST standard traceable calibration certificate
375-0550	chek-mate with UK standard traceable calibration certificate
375-0550-KN	Kit with chek-mate and pulsation dampener for CalChek full flow rate verification/ calibration and NIST certificate

[†] Flowmeters and Kit available with ISO standard traceable calibration certificate. Contact SKC for details.

Recommended Accessories

877-93	DataTrac Pro for AirChek TOUCH Hardware Accessory Kit (free software download)
210-500	Low Flow Adapter Kit
375-200	CalChek Communication Cable (required for CalChek automatic flow rate verification/ calibration with chek-mate)

For ordering details and additional accessories,
visit www.skcinc.com/touch-pumps



Standard Cradle

Charging and CalChek flow rate
verification/ calibration



e-Cradle

Charging, CalChek flow rate verification/
calibration, and PC communication

CalChek Automatic Flow Rate Verification/Calibration

Get fast, easy, and accurate field flow rate verification/calibration with the patented* CalChek feature in AirChek® TOUCH Sample Pumps and the Medium Flow chek-mate Flowmeter. CalChek is available for the Leland Legacy Sampling Pump with High Flow chek-mate too!

No manual adjustments

Verify flow rate at a single flow point pre
and post-sampling

Calibrate across a range of flows following
repair/maintenance

Document flow rate verification/calibration
with DataTrac Pro Software

See ordering above. Don't forget the CalChek
Communication Cable!



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MP1910 Rev2025.03