

# Universal XR Series Sample Pumps

**Classic Workhorse from 5 ml/min to 5 L/min**

**Flows: 5 to 5000 ml/min**

- ⊙ Constant flows from 1 to 5 L/min
- ⊙ Low flows with holder from 5 to 500 ml/min
- ⊙ Long run times — 12+ hours at 4000 ml/min, 20 inches water back pressure
- ⊙ Heavy duty and lightweight — only 34 ounces (964 grams)
- ⊙ Built-in low flow pressure regulator for multi-tube sampling
- ⊙ Choose the automatic features that meet your requirements
- ⊙ Professionals' choice since 1982

Certifications		
 <b>UL LISTED</b> <i>intrinsically safe</i>	<i>ATEX-approved models available; contact SKC</i>	

**NiMH BATTERY**  
for longer run times



**Universal 44XR**  
The Economical Solution

**Turn on and sample!**

- ⊙ Economical
- ⊙ Basic operation
- ⊙ Convenient flow indicator
- ⊙ Designed for rugged industrial environments



**Universal PCXR4**  
The Compliance Solution

**Enhanced with additional features:**

- ⊙ **Automatic fault shutdown and time retention**
  - Pump shuts down and retains sampling time when battery is low or there is excessive back pressure to ensure sample integrity
- ⊙ **High-accuracy timer**
  - Built-in timer provides instant readout of sampling duration.
- ⊙ **Convenient HOLD feature**
  - Allows for breaks



**Universal PCXR8**  
The Programmable Solution

**Enhanced with programmability!**

- ⊙ **Built-in high-accuracy timer**
  - Sample duration readout
- ⊙ **Convenient HOLD feature**
- ⊙ **Automatic fault shutdown/time retention**
  - Ensures sample integrity upon low battery or excess back pressure
- ⊙ **Delayed start**
  - Set number of minutes to elapse until sample start
- ⊙ **Timed shutdown**
  - Set number of minutes of operation until shutdown
- ⊙ **Intermittent sampling**
  - Extend short-term samples over an extended period to meet TWA requirements with fewer samples
  - Extended intermittent sampling up to 7 days — ideal for fence line monitoring!





## Quick View

### Universal XR Sample Pumps

Performance Profile	
<b>Flow Control Accuracy</b>	Holds constant flow to $\pm 5\%$ of set point
<b>Timing Accuracy</b>	$\pm 0.05\%$ ( $\pm 45$ seconds per day)
<b>Typical Run Time</b>	<b>Battery:</b> 12 hrs minimum at 4000 ml/min and 20 inches water back pressure, dependent on media used <b>Battery Eliminator:</b> Pump provides extended runs. PCXR4 and PCXR8 display rolls over to 0 upon reaching 9999 min
<b>Charge Time</b> <i>(varies with battery capacity and level of discharge)</i>	6 to 8.5 hrs with PowerFlex charger
<b>Temperature Range</b>	<b>Operating:</b> 32 to 104 F (0 to 40 C) <b>Storage:</b> -4 to 113 F (-20 to 45 C) <b>Charging:</b> 50 to 113 F (10 to 45 C)
<b>Operating Humidity Range</b>	0 to 95% non-condensing
<b>Timer Display Range</b>	<i>PCXR4 and PCXR8 only:</i> 1 to 9999 min (6.8 days)
<b>Timed Shutdown</b>	<i>PCXR8 only:</i> User-selectable time of operation before automatic shutdown. Maximum setting is 9999 min (6.8 days)
<b>Delay On</b>	<i>PCXR8 only:</i> User-selectable time to delay test. Maximum setting is 9999 min (6.8 days)
<b>Intermittent Sampling</b>	<i>PCXR8 only:</i> User-selectable parameters to extend short-term samples over an extended period. Elapsed time maximum is 9999 min (6.8 days).
<b>Flow and Low Battery Fault</b>	<i>PCXR4 and PCXR8 only:</i> Pump shuts down, timing functions pause, time display is retained, and LCD indicates flow or low battery fault.
<b>Dimensions</b>	5.1 x 4.7 x 1.9 in (13 x 11.9 x 4.8 cm)

### Ordering Information

Universal XR Pumps require 1/4-inch ID tubing.

Universal XR Sample Pumps		Cat. No.
Sample pump with NiMH battery pack and screwdriver set. <i>Low flow (5 to 500 ml/min) requires adjustable tube holder.</i>		
PCXR8, requires charger		224-PCXR8
PCXR4, requires charger		224-PCXR4
44XR, requires charger		224-44XR
Universal XR Starter Kits		
Include pump with NiMH battery pack, single PowerFlex charger with cable, Tygon tubing (3 feet, 1/4-inch ID), and collar clip with cable tie		
PCXR8	100-240 V	224-PCXR8-S
PCXR4	100-240 V	224-PCXR4-S
44XR	100-240 V	224-44XR-S
Single High/Low Flow Pump Kits		
Include sample pump with NiMH battery pack, single PowerFlex charger with cable, adjustable tube holder, Type A protective tube cover, filter cassette holder, and screwdriver set, in a convenient soft-side nylon carry case†		
PCXR8	100-240 V	224-PCXR8KD
PCXR4	100-240 V	224-PCXR4KD
PCXR4 Single Pump Kit with IOM, does not include cassette holder	100-240 V	224-PCXR4PK
44XR	100-240 V	224-44XRKD
5-pack High/Low Flow Pump Kits		
Include 5 each sample pumps with NiMH battery packs, adjustable tube holders, Type A protective tube covers, filter cassette holders, and screwdriver sets, and one 5-station PowerFlex charger with 5 cables, in a Pelican case		
PCXR8	100-240 V	224-PCXR8K5D
PCXR4	100-240 V	224-PCXR4K5D
44XR	100-240 V	224-44XRK5D
Replacement Parts and Accessories		
Replacement Battery Pack		
Replacing batteries with non-approved battery packs voids any warranty and UL intrinsic safety approvals.		
	NiMH for XR models*	P21661MH*
<b>Battery Eliminator</b> , connects pump to line power for extended sampling	115 V	223-325
	230 V	223-325B

\* Not suitable for MSHA-approved models

† Single kits also available in hard-sided Pelican case. Contact SKC for ordering information.

<b>Flow Rate (ml/min)</b>	5 to 5000
<b>Weight in Ounces (grams)</b>	34 (964)
<b>Compensation Range (inches water)</b>	Up to 40 at 2 L
<b>Built-in Timer/Clock</b>	Timer — PCXR4 and PCXR8 only
<b>Constant Flow</b>	Yes
<b>Programmable</b>	PCXR8 only
<b>PC-compatible</b>	N/A
<b>Multi-tube Sampling</b>	Yes
<b>Flow Fault Feature</b>	PCXR4 and PCXR8 only
<b>RF/EMI Shielded</b>	Yes
<b>Intrinsically Safe — UL Listed</b>	Yes
<b>MSHA-approved Models Available</b>	Contact SKC
<b>ATEX Models Available</b>	Yes
<b>CE Marked</b>	Yes
<b>Corrects for Changes in Atmospheric Pressure</b>	N/A
<b>Corrects for Changes in Temperature</b>	N/A
<b>Battery Type</b>	NiMH (6.0 V, 3.5 Ah)
<b>Battery Check</b>	PCXR4 and PCXR8 only
<b>Tubing</b>	Requires 1/4-inch ID tubing

Recommended Accessories	
Chargers	
Battery Eliminator	
Adjustable Tube Holders	
Filter Holders	
Tubing	
Cases/Pouches	

### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skinc.com/warranty>.