INDUSTRY-PROVEN
RELIABILITY AND PRODUCTIVITY

PK7400 Automated Microplate System
Unmatched throughput. Simple to use. Reliable results.
Results you can rely on

Experience the reliability and efficiency of the industry-leading PK7400 Automated Microplate System—from your global partner in high-volume donor-center testing solutions. For over 30 years, Beckman Coulter’s PK systems have been synonymous with dependability. Today’s high-quality PK7400 system is no exception, offering the accuracy and workload capacity customers have come to know and respect.

› Experience how the terraced microplate—designed specifically for hemagglutination—increases the reliability of each test within the following menu:
  - ABO/Rh
  - Red blood cell screening
  - Cytomegalovirus (CMV)
  - Syphilis (TP)

› Boost testing efficiency with the highest throughput available of any high-volume donor-center system

› Benefit from the convenience and customer-focused care provided by knowledgeable service and support representatives
Simplicity and efficiency

**High throughput:**
Up to 300 samples per hour allows rapid analysis of large sample volumes as well as the ability to test multiple assays per sample.

**User-friendly software:**
Customized menus, icons and color-keyed graphics reduce training time.

**Graphical user interface:**
The new operating software provides improved access and visibility to the most common functional areas: reagent management, online maintenance and daily startup tasks.
A new submenu space can be used to display error messages, customized user menus, event details or serve as a blank notepad for operator notes.
And the new graphical user interface achieves a consistent and recognizable user experience across Beckman Coulter instrumentation product lines.

**Programmable start-up:**
Programmable, fully automated startup mode saves time and promotes workflow efficiency.

**Onboard data management:**
Store and search test results. Data can also be saved for off-line analysis and archiving or transmitted to a host LIS.

Quality and reliability

**Analysis process monitoring:**
Dispensed number of samples, reagents and diluents are continuously monitored. Anomalies are automatically detected, displayed and reported.

**Stable reaction environment:**
A constant reaction environment is maintained and monitored within the incubator to continuously assess system processes.

**Reliable analysis using a high-resolution color CCD camera:**
The reaction image and assessment results are displayed in color on the monitor, then stored as image data.

**Enhanced test reliability using ID management:**
Barcodes provide automated management of samples, microplates, reagents and diluents.

UNMATCHED THROUGHPUT
SIMPLE TO USE
RELIABLE RESULTS
### Electrical Requirements:

- **Electrical consumption:** 3.0 KVA maximum
- **Current:** 15~30 amp (with UPS)
- **Circuit:** Dedicated and noise-free
- **Voltage:** 200/208/220/230/240 VAC (±10%) Single phase
- **Frequency:** 50/60 Hz (±1 Hz)
- **Ground requirement:** <100 ohms
- **Location:** Power cable length 10 m (30 ft)

### Water Requirements:

- **Type:** Deionized
- **Supply:** Continuous flow
- **Resistivity:** >0.5 mega ohms
- **Mechanical filtration:** <0.5 μm (glycerol free) filter at discharge of deionizer
- **Consumption:** 50 L/hour max, instantaneous demand 3.5 L/minute
- **Pressure:** 0.49 x 10⁵ Pa to 3.92 x 10⁵ Pa (71–58.8 PSI)
- **Location:** Shutoff valve within 10 m (30 ft)
- **Tubing diameter:** 12 mm (ID) x 18 mm (OD)
- **Connection:** 0.5 in barbed-hose fitting

### Drain Requirements:

- **Gravity:** Hazardous-waste floor drain
  - Maximum height: 1.5 m (5 ft)
  - Maximum distance from analyzer: 10 m (30 ft)
- **Tubing diameter:** 15 mm (ID) x 22 mm (OD)

### Environmental Requirements:

- **Average heat output:** 7,200 KJ/H (6,824 BTU) max
- **Ambient temperature:** 18–28°C (fluctuations during measurement shall be within +/-2°C)
- **Ambient humidity:** 20%–80% relative humidity
- **Noise output:** Max 65 dB or less

### General Characteristics:

- **Analytical method:** Agglutination method on terraced microplates
- **Channels:** 12
- **Throughput:** 300 samples/hour with 5 diluted sample cups
- **Sample capacity:** Capacity of 12 racks or 120 samples; continuous sample-rack loading allowed
- **Sample tube size:** In primary or secondary tubes:
  - Diameter: 12–15 mm
  - Height: 75–100 mm
- **Sample:** Plasma; serum; red blood cells
- **Reagent tray:** Up to 16 reagents can be loaded
  - 12 positions for primary reagents (R1)
  - 4 positions for secondary reagents (R2)
- **Reaction vessel:** Terraced microplates
- **Reaction time:** 60 minutes
- **Assays:** ABO blood grouping, Rh typing, including weak D testing, red blood cell antigen screening, syphilis and CMV qualitative screening
- **Sample barcode:** NW-7; CODE39; CODE128; ISBT-CODE128; and 2 of 5 interleaved EAN-13

### Dimensions:

- **Analyzer**
  - (mm) 1,760 (width) x 920 (depth) x 1,380 (height)
  - (in) 69 (width) x 36 (depth) x 54 (height)
- **Console**
  - (mm) 800 (width) x 720 (depth) x 1,450 (height)
  - (in) 32 (width) x 28 (depth) x 57 (height)
- **Weight:** 750 kg (1,653 lbs)