PK7300 Automated Microplate System

Specifications

Electrical Requirements:
- Electrical Consumption: 3.0 KVA maximum
- Current: 30 Amp (with UPS)
- Circuit: Dedicated and Noise free
- Voltage: 208/240 VAC (±10%)
- Frequency: 60 Hz (±1 Hz)
- Ground Requirement: <100 ohms
- Location: Power cable length 30 ft (10m)

Water Requirements:
- Type: Deionized Cap Type II or better
- Supply: Continuous Flow
- Resistivity: >0.5 Mega Ohms
- Mechanical Filtration: <0.5μm (glycerol free) filter at discharge of deionizer
- Consumption: 60 liters/hour Max, instantaneous demand 3.5 liters/minute
- Pressure: 7.1-56.8 PSI
- Location: Shut off valve within 30 feet
- Tubing Diameter: 12mm (ID) x 18mm (OD)
- Connection: ½ inch barbed hose fitting

Drain Requirements:
- Gravity: Hazardous waste floor drain
- Maximum height = 1.5m
- Maximum distance form Analyzer=30 feet (10m)
- Tubing Diameter: 15mm (ID) x 22mm (OD)

Environmental Requirements:
- Average Heat Output: 6824 BTU Max
- Ambient Temperature: 18-32°C (fluctuations during measurement shall be within +/−2°C)
- Ambient Humidity: 20-80% Relative Humidity
- Noise Output (Decibels): Max 65 db or less

General Characteristics:
- Analytical method: Agglutination method on terraced microplates
- Channels: 12
- Throughput: 300 samples/hour with 4 dilution cups; 266 samples/hour with 5 dilution cups
- Sample Capacity: 12 racks or 120 samples; continuous addition
- Sample Tube Size: Diameter between 12 and 15 mm; height between 55 and 102mm
- Sample: Plasma; Serum; Red Blood Cells; Red Blood Cell Suspension
- Reagent Tray: Up to 16 reagents can be loaded
- Reaction Vessel: Terraced microplates
- Reaction Time: 60 minutes
- Assays: ABO grouping; Rh typing; Rh and Kell phenotyping; TP screening; and CMV screening
- Sample Bar-code: NW-7; CODE39; CODE128; ISBT-CODE128; and 2 of 5 Interleaved

Built upon industry-proven reliability and productivity.

PK7300 Automated Microplate System
The Beckman Coulter PK7300 Automated Microplate System builds on the industry established reliability and productivity of its predecessors and offers the very latest technological advances. The PK7300 delivers proven performance that for the past generation has tested over 90% of the North American blood supply.

Blood grouping results you can rely on

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Test Menu:
• ABO/Rh
• Weak D
• Rh Phenotyping
• Kell Phenotyping
• Cytomegalovirus Screening
• Syphilis Screening

Beckman Coulter PK Reagents...
simple and easy-to-use

Reagent Line:
Anti-A, Anti-B, Anti-A, B, Anti-D,
Anti-D (PK 1), Anti-D (PK 2), Control,
A1 and B Reagent Red Blood Cells.

No Prep Reagents:
Beckman Coulter reagents are ready-to-use, stable liquid formulations packaged in bar-coded cartridges for drop-in user convenience.

Advanced Bar-coding:
Bar-coded reagent cartridges enable on-board reagent management and provide greater operator convenience. The system allows for reagent placement verification, reagent tracking and information management — including reagent name, lot number, cartridge number and expiration dating — for secure, worry-free operation.
User-friendly Software:
Reduce training time with customized menus, icons and color-keyed graphics.

Graphical User Interface:
Features drop-down menus, easy-to-identify icons, full-color graphics and charts for simplified operation and easy training.

Single-screen System Check:
Color-keyed graphic display screen for immediate monitoring of system status, reagent inventories and temperature control.

Programmable Start-up:
Programmable, fully automated start-up mode saves time and money.

On-board Data Management:
Store and search test results. Data can also be saved for off-line analysis and archiving.

On-line Operator’s Manual:

### Remote Diagnostics:
PROService is an optional, remote management system that continuously monitors Beckman Coulter instruments to identify problems before they become evident in the laboratory. If a parameter goes out of normal range (e.g., temperature, power or vacuum pressure), PROService automatically alerts the Beckman Coulter Call Center. A Call Center agent may then contact your lab and, with permission, perform further diagnosis or actual system correction. If a service call is necessary, your Field Service Engineer is able to bring exactly the right parts and supplies needed to correct the problem.

### Training:
Beckman Coulter is dedicated to providing a comprehensive educational experience preparing laboratorians to adapt to the advancing technologies driving improvements in the healthcare industry. This is accomplished through innovative teaching methods designed to engage students through the use of instructor led training.
PK7300 System Overview

Reagent Handling
• Primary reagent vial sampling capabilities
• Reagent identification via bar-code verifies reagent placement, lot match and expiration information

Efficient Sample Area
• Allows continuous loading of samples
• Holds 120 primary sample tubes

User Friendly Windows Software
• Reduced training time with customized menus, icons and color-keyed graphics
• Mouse, keyboard and touch screen capabilities

Sophisticated Image Analysis
• High-resolution images
• Image storage capacity

Maximize Walk Away