FluxPro UM-355 — Gel Card Centrifuge, 12/24 cards



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Overview

Micro column gel technology is extensively employed in blood serology, routine serum detection, red blood cell washing, microcolumn gel immunoassay experiments, and other applications due to its standardized operation and sensitive testing capabilities. The UM-355 blood gel card desktop low-speed centrifuge with a 12/24 card rotor meets the standard operation requirements for batch processing. The system features microcomputer control and automatic imbalance detection technology, ensuring easy operation and precise detection results. This instrument is essential for experimental hematology in hospitals and blood banks. Principle for Blood Gel Card(ID-Card) Centrifuge The principle behind the Blood Gel Card Centrifuge is based on the microcolumn gel immunoreaction, specifically the red blood cell agglutination test, also known as microcolumn gel hemagglutination assay (MGHA). Within the microcolumn gel tube, the red blood cells and their corresponding antibodies combine to form a clump of red blood cells. Through low-speed centrifugation, the clot is positioned either on the surface or within the gel, while the red blood cells that are not bound to the antibody settle at the bottom of the tube (the tip of the tube bottom). The advantages of Micro Column Gel Technology include its simplicity of operation, lack of washing and confirmation tests for negative results, which solves the problem of the Coombs test being difficult to routinely apply in clinical practice due to its complexity and time-consuming nature. It also promotes the incomplete antibody detection theory to become the clinical "gold standard". The system can process multiple specimens at once (12/24 cards), enabling the detection of a large number of clinical specimens. Additionally, it offers advantages such as accuracy, sensitivity, minimal specimen consumption, long-term storage of results, easy standardization, and safer operation. The Paternity Testing Method involves the use of ABO blood type positive and negative type and RhD blood type test cards to detect human ABO and RhD antigens. The column agglutination method (microcolumn gel method) is a commonly used immunological method for blood group identification, in which red blood cell antigens and corresponding antibodies agglutinate in a microcolumn gel medium. This method is standardized and quantified, ensuring the accuracy of the results. The following steps are involved in the process:

Key Features

- Blood sample collection (note: samples containing abnormally increased serum protein should be washed sufficiently before use).
- Blood sample processing:
- Blood type card operation:
- Microprocessor control with Brushless Motor. Accurate speed control.
- Easy operation. Colorful digital screen indicates all running parameters. Automatic lid -open alarm when the instrument is off.
- Professional programming design. No need for manual setting. Just run it.
- Automatic lid-locking and holding during rotor run.
- Self-diagnostic system with high-strength chamber-coating and protective.

Technical Specifications

Speed Range	0-3500 rpm adjustable
Max Speed	3500 rpm
Max Capacity	24 cards
RCF Range	0-1554 ×g adjustable
Max RCF	1554 ×g
Display	LCD
Noise	≤ 50 dB(A)
Dimensions (L × W × H)	430 × 320 × 250 mm(12 cards)440 × 400 × 230 mm(24 cards)
Net Weight	13 kg (with 12 cards)22 kg (with 24 cards)
Power Supply	AC220V,50Hz,5A,60W
Matched Rotors	Disk card rotors
Certification	CE, ISO13485,ISO9001:2015
Part Number	UM-355
Lead Time	4–6 weeks ARO

Rotors & Accessories

No.	Item	Capacity	Rotational speed	Max.RCF	Time
NO.1	Pre-centrifuge program group	12 cards	3500r/min	1232xg	1 minute
NO.2	Test program group	12 cards	900r/min	81xg	2 minutes
1500r/min	226xg	3 minutes			
NO.1	Pre-centrifuge program group	24 cards	3500r/min	1554xg	1 minute
NO.2	Test program group	24 cards	800r/min	81xg	2 minutes
1335r/min	226xg	3 minutes			

Standard Configuration

Rotor and accessories as quoted. Part number: **UM-355**.

Warranty and Service

Warranty terms are stated on the quotation. For service, calibration and spare parts contact support@uv-incure.com.