

Ultracentrifuges



himac CP-WX Hitachi Ultracentrifuge SERIES

CP100WX/CP90WX/CP80WX

These general-purpose ultracentrifuges have the highest performance in their class* — 100,000 rpm (CP100WX) — making them ideal for the wide range of separation tasks used in cell biology, biochemistry and nano-material fields. For reliability and efficiency to match their speed and quiet operation, they incorporate automatic rotor-life management (RLM), a large color LCD display and positive-feedback (click-type) touch pad entry. Other standard features include RCF (x g) computation and display functions and real-time control (RTC) for direct entry of start/stop times and other parameters. A log options list permits connection with a PC (for simulations and logging of rotor and centrifuge operation histories), printer connection, user security functions and more.

*As of May 2009

Easy operation

Microcomputer control functions

The liquid crystal screen simultaneously displays set values and the actual operating conditions.

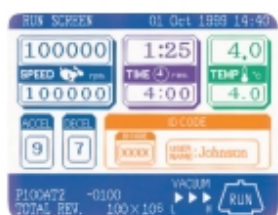
Color liquid crystal display and touch-sensitive panel

Keypad input is enhanced by gentle "click" feedback to confirm correct entry. Operation errors or faults are immediately indicated by means of an alarm display.



User name is shown on screen, linked to user ID code

The user name can be shown through ID code input. This function allows interactive verification of users.



Powerful customization functions

These functions can be selected through the interactive screen display.

- Setting of date
- Setting of time
- Identification number of the centrifuge unit
- Print-out function (optional)
- User time reservations
- User registration
- Screen contrast adjustment
- Setting of the zonal rotation speed (2,000 – 3,000 rpm)

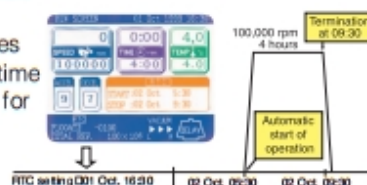
Low table height easier rotor handling

The operating height of the work top was lowered to 85 cm, making the large-sized rotors easier to load and unload.

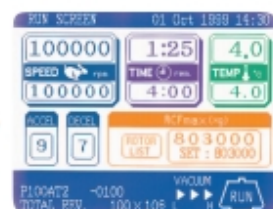


Real-time control (RTC) simplifies timer settings

Operators input desired start times directly and can input both start time and operating profile in advance for unattended operation.



Operating parameters are automatically computed and displayed, based on selected RCF. RCF max. and RCF avg. at the selected rotational speed are automatically calculated and displayed for a given rotor, reducing bothersome calculations. The rpm and operating profile are calculated simply by setting the desired RCF.



Specifications

Model	CP100WX	CP90WX	CP80WX
Max. speed (rpm)	100,000	90,000	80,000
Max. RCF (xg)	803,000 (P100AT2 rotor)	700,000 (P90AT rotor)	615,000 (P80AT rotor)
Speed control accuracy (rpm)	±10 (1,000 to maximum speed)		
Set speed (rpm)	1,000 to maximum speed in increments of 100		
Displaying and setting RCF	Applicable (RCF max. or RCF average)		
ω ² T run	Applicable		
Drive unit warranty	10 years		
Rotor temperature control accuracy (°C)	±0.5 (set temperature is from 0 to +40)		
Cooling method	Thermo-module cooling (CFC/HCFC/HFC-free)		
Operation panel	· Color liquid crystal display (256 color) and keyboard · Touch-sensitive panel (run screen only)		
Rotor life management	RLM rotor: automatic management, Rotor with optical adaptor: management by registration system		
Operation results management system / calculation & simulation system	Optional software (CD-ROM, OS: Windows® XP Professional / 2000 Professional) This option requires a PC and RS232C cross cable on the market.		
Vacuum system	Oil-rotary vacuum pump with moisture removal function and oil diffusion pump.		
HEPA filter	Option		
Operational noise (dB(A))	53		
Heat radiation into the room	1 kW or less		
Dimensions (mm)	790 (W) x 690 (D) x 1,000 (H), depth with safety cover: 890, height to the table: 850		
Floor area (m ²)	0.81 (900 x 900 mm)		
Weight (kg)	400		
Power requirements	Single phase, 50/60 Hz, AC 200/208/220 V ±10%, 20 A max. (normally 8 A) AC 230/240 V ±10%, 16 A max. (normally 7A)		
Conformity to EMC* standards	The CP-WX series ultracentrifuges conform to the following EMC standards: EN61326, EN61000-3-2, and EN61000-3-3		