

HIGH SPEED REFRIGERATED RESEARCH CENTRIFUGES

(HIGH SPEED COOLING CENTRIFUGES) TABLE TOP MODELS.

Range of High Speed Refrigerated Centrifuges for Research And Analytical Applications, with a wide range of Rotor Heads



High Speed Refrigerated Research Centrifuge - RC 4100 F



TC 4105



High Speed Refrigerated Research Centrifuge - MP 400 R



TC 4109

Technical Data:

Model	RC 4100 F	MP 400 R
Width x Depth x Height (mm)	860 x 580 x 520	450 x 570 x 510
Max. Speed (RPM)	20000	20000
Max. RCF (g)	37000	37000
Weight (Kgs.)	114	114
Connected Load (kVa)	1.75	1.75

General Features:

- Sturdy and safe steel body
- Anti vibrator mounting of motor assembly and the whole centrifuge
- Specifically designed drive motor and electronics manufactured in house
- Double walled lid with see through window for observation and calibration. Electrical/ Electronic/ Mechanical lid lock
- Corrosion resistant stainless steel centrifuge chamber
- Provided with Hydraulic lid lifting and holding
- Provided with Auto-Rotor Identification.
- Provided with Short-Spin.
- Control panel with soft touch key pad for ease of operation
- LCD Display of setting and working parameters
- Speed Programmable by setting required RCF value
- Display of Working speed / Working RCF value
- Remaining Time
- Rotor Head selection from system library and programmable
- Over speed protection by selecting and programing required rotor
- Imbalance detection & Auto safety switch off with error message on screen
- Programmed electronic lid lock release in case of power failure
- Safety soft start programmed to start / restart for drive motor
- At start programmed to start count down when the set speed attained
- Safety Lid lock programmed which allows the centrifuge to start only when lid is locked and prevent lid opening during centrifugation with 'Lid Open' error message when lid not locked.
- CFC Free cooling system with provision for fast cooling and standby cooling centrifuge chamber.

Technical Specifications and Programmable features:

Specifications	RC 4100 F	MP 400 R
Drive Motor	Brushless AC Induction	Brushless AC Induction
Control system	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable
Program Memory	25 Program	99 Program
Speed Range- depending on rotor head	200 to 20000 RPM	200 to 20000 RPM
Timer	1 to 120 Minutes & infinite mode	1 to 120 minutes & infinite mode
Acceleration / Deceleration time	40 to 450 Seconds	40 to 450 Seconds
Temperature control Range	-20°C to + 40°C (CFC Free cooling)	-20°C to + 40°C (CFC Free Cooling)
Working Temperature Range	-10°C to + 40°C	-10°C to + 40°C
Pre cooling / Standby Cooling	Fast Pre cooling and standby cooling Offered	Fast Pre cooling and standby cooling Offered
DISPLAYS		
Rotor Head Speed/ RCF Value	Working Speed/ Working RCF value	Working Speed/ Working RCF value
Time	Remaining Time	Remaining Time
Rotor in motion Indication	LCD Display of working speed	Display of working speed & Rotor in motion LED display. Also safe lid open LED indication
Temperature	Working Chamber Temperature	Working Chamber Temperature
Imbalance	Auto Switch off + Error Message	Auto Switch off + Error Message + LED Indication
Lid Open	Error Message	Error Message + Safe lid open LED indication
Alarm on completion	Audible	Audible

CHOICE OF ROTOR HEADS FOR USE WITH CENTRIFUGE MODEL RC 4100 F / MP 400 R

Model	RC 4100 F / MP 400 R				
	Rotor Model	No.tube x ml	Tube Type	Type	Max.RPM
TC 4101	4 x 100	P. P. Tube	Angle	14000	22110
TC 4102	8 x 50	P.P. Tube	Angle	13500	22100
TC 4103	6 x 50	P.P. Tube	Angle	14500	23000
TC 4104	4 x 50	P.P. Tube	Angle	17000	28600
TC 4105	8 x 25	P.P. Tube	Angle	15000	24000
TC 4106	6 x 25	P.P. Tube	Angle	17000	28700
TC 4107	12 x 15	P.P. Tube	Angle	15000	23670
TC 4108	8 x 15	P.P. Tube	Angle	16500	27200
TC 4109	6 x 15	P.P. Tube	Angle	20000	37000
TC 4110	4 x 10	P.P. Tube	Swing Out	12500	16100
TC 4111	24 1.5 / 2	Eppendorff	Angle	20000	30500
TC 4113	24 x 0.5	Eppendorff	Angle	20000	29000
TC 4114	4 x 25	P.P. Tube	Swing Out	12000	16000
TC 4115	18 x 15	P.P. Tube	Angle	12000	17600
TC 4116	192 x 0.5	Eppendorff	Angle	14000	24000
TC 4117	48 x 1.5 / 2	Eppendorff	Angle	15000	22100
TC 4118	24 x 3 / 4	Vacutainer	Angle	10000	10400
TC 4119	4 x (8x0.2)	PCR Strip	Angle	11000	12180
TC 41120	6 x (8x0.2)	PCR Strip	Angle	11000	12810

Note: Rotor Heads for specific application tubes can be designed, manufactured and supplied. Rotor Heads for Vacutainer tubes of 2ml, 3 ml, 4 ml, 5 ml, 6ml offered.

CHOICE OF CONICAL (FALCON) TUBE ROTOR HEADS

MODEL	RC 4100F / MP400R				
	Rotor Model	No. of tube X ml	Tube type	Type	Max Rpm
TC 4201	12 X 15ML	Conical (Falcon)	Angle	15000	23670 x g
TC 4203	8 X 50ML	Conical (Falcon)	Angle	13500	22100 x g
TC 4204	12 X 50ML	Conical (Falcon)	Angle	13500	22100 x g

* Optional: F Series & MP Series model can be provided with Data Downloading through computer software using RS 232/485 port Interface & Automatic lid opening after completion of run.