

REFRIGERATED RESEARCH CENTRIFUGES

(COOLING CENTRIFUGES) TABLE TOP MODELS.

Range of Refrigerated Centrifuges for Research Applications, with a wide range of Swing Out and Angle Rotor Heads.



Refrigerated Research Centrifuge - RC 8100 F / RC 8100 SF



TC 8110



TC 8101 & TC 8114



TC 4117



TC 8104



Refrigerated Research Centrifuge - MP 800 R / MP 800 RS



TC 8108

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 stain less 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 timer 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.

Technical Specifications and Programmable features:

Specifications	RC 8100 F	MP 800 R	RC 8100 SF	MP 800 RS
Drive Motor	Brushless AC Induction	Brushless AC Induction	Brushless AC Induction	Brushless AC Induction
Control system	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable
Program Memory	25 Program	99 Program	25 Program	99 Program
Speed Range- depending on rotor head	200 to 10000 RPM	200 to 10000 RPM	200- 20000 RPM	200-20000 RPM
Timer	1 to 120 Minutes & infinite mode	1 to 120 minutes & infinite mode	1 to 120 minutes & infinite mode	1 to 120 minutes & infinite mode
Acceleration / Deceleration time	12 to 510 Seconds	12 to 510 Seconds	12 to 510 Seconds	12 to 510 Seconds
Temperature control Range	-20°C to + 40°C (CFC Free cooling)	-20°C to + 40°C (CFC Free Cooling)	-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	-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	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	Working Speed/ Working RCF value	Working Speed/ Working RCF value
Time	Remaining Time	Remaining Time	Remaining Time	Remaining Time
Rotor in motion Indication	LCD Display of working speed	LED Indication + LCD Display of working speed	LCD Display of working speed	LED Indication + LCD Display of working speed
Temperature	Working Chamber Temperature	Working Chamber Temperature	Working Chamber Temperature	Working Chamber Temperature
Imbalance	Auto Switch off + Error Message	Auto Switch off + Error Message + LED Indication	Auto Switch off + Error Message	Auto Switch off + Error Message + LED Indication
Lid Open	Error Message	Error Message + Safe lid open LED indication	Error Message	Error Message + Safe lid open LED indication
Alarm on completion	Audible	Audible	Audible	Audible

CHOICE OF SWING OUT ROTOR HEADS FOR USE WITH RC 8100 F / MP 800 R / RC 8100 SF & MP 800 RS

Model	No.tube x ml	Tube Type	Type	RC 8100 F / MP 800 R Max.RPM	RC 8100 SF / MP 800 RS Max.RCF	RC 8100 SF / MP 800 RS Max.RPM	RC 8100 SF / MP 800 RS Max.RCF
TC 8101	4 Place Swing Out (Horizontal) Rotor Head suitable to carry different carriers listed below. To be ordered with the required carrier from below list.						
Tube carriers suitable for use with TC 8101 Rotor Head (To be ordered with the Rotor Head)							
TC 8101 A	4 x 200	P.P. Tube	Swing Out	5200	5050	5200	5050
TC 8101 B	4 x 100	P.P. Tube	Swing Out	6100	6600	6100	6600
TC 8101 C	4 x 18-RIA (5)	P.P. Tube	Swing Out	5200	4200	5200	4200
TC 8101 V	4 x 9 -2/3/4 ml	Vacutainer	Swing Out	5200	4200	5200	4200
TC 8101 VL	4 x 9 -5/6 ml	Size 12x82 mm	Swing Out	5200	4200	5200	4200
		Vacutainer size12x102 mm	Swing Out	5200	4200	5200	4200
TC 8101 J	4 x 15	P.P. / Glass	Swing Out	4500	2780	4500	2780
TC 8101 D	4 Place Swing Out (Horizontal) Rotor Head suitable to carry different carriers listed below. To be ordered with the required carrier from below list.						
Tube carriers suitable for use with TC 8101 D Rotor Head (To be ordered with the Rotor Head)							
TC 8101 E	4 x 27 RIA	5 ml RIA/ 2/3/4 ml	Swing Out	5200	4200	5200	4200
TC 8101 F	4x 21	Vacutainer size 12x82 mm	Swing Out	5200	4200	5200	4200
		size 12.5 x82 mm	Swing Out	5200	4200	5200	4200
TC 8101 I	4 x 15	6 ml Vacutainer	Swing Out	5200	4200	5200	4200
TC 8109	4 x250	P.P. Bottles	Swing Out	5200	4200	5200	4200
TC 8107	2 x 1 MTP	96 well MTP 85x127 mm & 96 well PCR Plate	Swing Out	3400	1700	3400	1700
TC 8108	2 x 2 MTP	96 well MTP 85x127 mm	Swing Out	3400	1700	3400	1700
TC 8024	2 x 4 MTP	96 well MTP 85x127 mm	Swing Out	3400	1700	3400	1700

CHOICE OF FIXED ANGLE ROTOR HEADS

TC 8102	12 x 25	P.P. Tube	Angle	7000	7100	7000	7100
TC 8103	6 x 200	P.P. Bottle	Angle	7000	7250	7000	7250
TC 8104	8 x 100	P.P. Tube	Angle	7000	7100	7000	7100
TC 8105	12 x 50	P.P.Tube	Angle	7000	7100	7000	7100
TC 8106	36 x 15	P.P.Tube	Angle	7000	7100	7000	7100
TC 8110	4 x 250	P.P. Bottle	Angle	7000	7250	7000	7100
TC 4115 F	18 x 15	P.P.Tube	Angle	10000	10500	12000	16000
TC 4111 F	24 x 1.5/2	Eppendorf	Angle	10000	10500	20000	30500
TC 4118 F	24 x 3 / 4	Vacutainer	Angle	7000	5000	10000	10400
TC 4119 F	36 x 3/5/6	Vacutainer	Angle	7000	7100	7000	7100
TC 8146	46x3/4/5	Vacutainer	Angle	7000	7100	7000	7100

Note: Wide range of Reduction adaptors increase the versatility of the rotor heads. Rotor Heads for special application tubes can be designed, manufactured and supplied.

Technical Data:

Model	RC 8100 F	RC 8100 SF	MP 800 R	MP 800 RS
Width x Depth x Height (mm)	900 x 640 x 585			
Max. Speed (RPM)	10000	20000	10000	20000
Max. RCF (g)	10500	30500	10500	30500
Weight (Kgs.)	132	132	132	132
Connected Load(kVa)	1.75	1.75	1.75	1.75

* 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.