

MICROSPIN CENTRIFUGES

Range of High Speed Low volume centrifuges for Micro Tube Centrifuging.

Micro Haematocrite head & reading device



TC 481



Microspin Centrifuge - TC 4815 D



TC 482



Microspin Centrifuge - TC 4815 F



TC 487



Refrigerated Microspin Centrifuge - RC 4815 F



TC 497



Refrigerated Microspin Centrifuge - MP 300 R

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
- Stainless steel centrifuge chamber
- TC 4815 F/ RC 4815 F/ MP 300 R provided with Hydraulic lid lifting and holding
- TC 4815 F/ RC 4815 F/ MP 300 R provided with Auto-Rotor Identification.
- TC 4815 F/ RC 4815 F/ MP 300 R 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 programming 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	TC 4815 D	TC 4815 F	RC 4815 F	MP 300 R
Drive Motor	AC/DC Universal	Brushless AC Induction	Brushless AC Induction	Brushless AC Induction
Control System	Digital programmable	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable	Microprocessor with VFD Programmable
Program Memory	Last used Program	25 Program	25 Program	99 Program
Programmable Parameters				
Speed Range- depending on rotor head	200 to 16000 RPM	200 to 16000 RPM	200 to 16000 RPM	200 to 16000 RPM
Timer	1 to 99 minutes & infinite mode	1 to 120 Minutes & infinite mode	1 to 120 Minutes & infinite mode	1 to 120 Minutes & infinite mode
Rotor Head Selection	From System Library	From system Library	From System Library	From System Library
Acceleration / Deceleration time	12-510 seconds	12-510 seconds	12-510 seconds	12-510 seconds
Temperature control	N.A.	N.A.	-20 to + 40 °C	-20 to + 40 °C
Working Temp. range	N.A.	N.A.	-10 to + 40 °C with standby cooling facility	-10 to + 40 °C with standby cooling facility
Displays on Control Panel				
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
Temperature	N.A.	N.A.	Working Chamber Temperature	Working Chamber Temperature
Imbalance	Auto Switch off + Error Message	Auto Switch off + Error Message	Auto Switch off + Error Message	Auto Switch off + Error Message + Indication
Lid Open	Error Message	Error Message	Error Message	Error Message + Safe lid open indication
Alarm on completion	Audible	Audible	Audible	Audible

CHOICE OF FIXED ANGLE ROTOR HEADS FOR USE WITH TC 4815 D/TC 4815 F/ RC 4815 F/ MP 300 R

Centrifuge Model			TC 4815 D		TC 4815 F/ RC 4815 F/ MP 300 R		
	No.tube x ml	Tube Type	Rotor Type	Max.RPM	Max.RCF	Max.RPM	Max.RCF
TC 481	24 x 1.5 / 2	Eppendorf	Angle	12000	13500	16000	20600
TC 482	24 x PCR(0.2)	Eppendorf	Angle	12000	9800	14000	13320
TC 483	30 x 0.4	Eppendorf	Angle	12000	12300	13500	15560
TC 484	16 x 1	Eppendorf	Angle	12000	11700	13500	14790
TC 485	8 x 3	Eppendorf	Angle	12000	12500	13500	15810
TC 486	6 x 5	5 ml RIA	Angle	12000	11700	13500	14790
TC 487	8 x 5	5 ml RIA/ 2/3/4/ 5 ml Vacutainer	Angle	12000	11700	13500	14790
TC 491	10 x 1	RB Glass	Angle	16000	17500	16000	17500
TC 492	12 x 0.5	RB Glass	Angle	16000	17500	16000	17500
TC 495	24 x Micro Haematocrite Capillary		Plate	12000	15500	12300	16270
TC 495 R	Reading Device for capillary			N.A.	N.A.	N.A.	N.A.
TC 496	Micro Haematocrite capillary 12 x QBC		Plate	12000	15500	12300	16270
TC 497	4 x (8x2)PCR Strip	8x2 PCR Strip	Angle	12000	11910	12000	11910

Technical Data:

Model	TC 4815 D	TC 4815 F	RC 4815 F	MP 300 R
Width x Depth x Height (mm)	320 x 410 x 290	320 x 410 x 290	760 x 490 x 475	760 x 490 x 475
Max. Speed (RPM)	16000	16000	16000	16000
Max. RCF (g)	17600	17600	17600	17600
Weight (Kgs.)	16.5	16.5	75	75
Connected Load (kVa)	0.30	0.30	0.9	0.9

* Optional: F Series and 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.