



ESCH-T190R

Benchtop High Speed
Refrigerated Centrifuge



LABORATORY



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The benchtop high speed refrigerated centrifuge ESCH-T190R provides you with the most cost-effective convenient solution.

With EP tubes rotor (0.2ml), the centrifugal speed reaches his maximum, up to 25100xg(19000rpm). Multiple rotors and adapters are available as optional, from 0.2ml tube to 250ml bottle, MTP, PCR and deep-well plates.

- 7 inch HD touch screen, setting and running parameters
- Super large capacity data storage, can store months of operation datas, fault records, etc., convenient for tracking operation information.
- Directly input the setting value like speed, time, RCF, ACC and DEC and so on, more convenient and accurate than knob operation.
- Automated lid locking system and automatic rotor identification for over-speed protection.
- Multiple programs can be saved for fast operation. It can support 5-steps centrifugation to meet the several experimental needs.
- The running records and diagnostic records can be checked directly on the screen.
- Featuring 10 acceleration and 11 deceleration profiles to prevent second emulsion or turbid and achieve the best centrifugal effect.
- Multiple self-diagnostic protection functions against door interlock malfunction, over-speed operation, motor overheating, misoperation and communication fault etc. to ensure user's safety.
- Optional:
12 angle rotors and 4 horizontal rotors, to accomodate 0.2 ~ 250ml tubes/bottle and microplates.
It can work in two different ways: high speed or large capacity.

TECHNICAL SPECIFICATIONS

MaxSpeed	19000r/min
MaxRCF	31006xg
Max Capacity	4x250ml
Speed Accuracy	±10r/min
Time Setting Range	1min - 99h59min
Temperature Setting Range	-20~ 40°C
Temperature Accuracy	±1°C
Compressor Unit	High performance compressor unit, environment-friendly refrigerant
Noise	<65dB(A)
Power Supply	AC220V±22V 50Hz
Power Consumption	1500W
Dimension (WxDxH)	710x560x450mm
Packing Dimension (WxDxH)	1022x712x630mm
Net Weight	95kg

OPTIONAL ACCESSORIES

0301805020 Rotor N°1


Rotor Type: Angle rotor
 Max Capacity: 12x1.5/2.2ml
 Max Speed: 19000r/min
 Max RCF: 25100xg
 Adapter: 0.2ml, 0.5ml

0301891142 Rotor N°2


Rotor Type: Angle rotor
 Max Capacity: 12x15ml (conical)
 Max Speed: 14000r/min
 Max RCF: 21912xg
 Adapter: 5ml

0301805310 Rotor N°3


Rotor Type: Angle rotor
 Max Capacity: 12x1.5/2.2ml
 Max Speed: 19000r/min
 Max RCF: 25100xg
 Adapter: 0.2ml, 0.5ml

0301805420 Rotor N°4


Rotor Type: Angle rotor
 Max Capacity: 6x50ml
 Max Speed: 13000r/min
 Max RCF: 17938xg
 Adapter: 1.5ml, 5ml, 10 ml, 15ml, 20ml, 25ml, 30ml

0301805930 Rotor N°5


Rotor Type: Angle rotor
 Max Capacity: 6x50ml (conical)
 50ml round bottom adapter as gift
 Max Speed: 12500r/min
 Max RCF: 16585xg
 Adapter: 15ml (conical)

0301805710 Rotor N°6


Rotor Type: Angle rotor
 Max Capacity: 4x100ml
 Max Speed: 12000r/min
 Max RCF: 15471xg
 Adapter: 5ml, 10ml, 15ml, 25ml, 50ml (round/conical)

0301812510 Rotor N°7


Rotor Type: Angle rotor
 Max Capacity: 30x1.5/2.0ml
 Max Speed: 16000r/min
 Max RCF: 28917xg
 Adapter: 0.2ml, 0.5ml

0301812830 Rotor N°8


Rotor Type: Angle rotor
 Max Capacity: 48x1.5/2.0ml
 Max Speed: 16000r/min
 Max RCF: 28061xg
 Adapter: 0.2ml, 0.5ml

0301891097 Rotor N°9


Rotor Type: Angle rotor
 Max Capacity: 6x85ml
 Max Speed: 12000r/min
 Max RCF: 15805xg
 Adapter: 5ml, 10ml, 15ml, 25ml, 50ml (round/conical)

0301891144 Rotor N°10


Rotor Type: Angle rotor
 Max Capacity: 40x15ml
 Max Speed: 5500 r/min
 Max RCF: 4904xg

0301855600 Rotor N°15


Rotor Type: Swing Rotor
 Max Capacity: 60x1.5ml
 Max Speed: 15000r/min
 Max RCF: 18826xg

0301805520 Rotor N°16


Rotor Type: Angle rotor
 Max Capacity: 24x1.5/2.0ml
 Max Speed: 18000r/min
 Max RCF: 31006xg
 Adapter: 0.2ml, 0.5ml

Rotor N°14

0302852310

Max Speed: 4500r/min
 Max RCF: 2784xg
 Max Capacity: 2x2x96well


0303852351
 Microplate bucket

 2x6
 ELISA microplate

2x6x96

 2x2
 Deep-well plate












2x2x96










 2x1
 Filter plate reagent kit

2x1x96

can be customized



Rotor N°11					
Rotor	Bucket	Adaptor	Capacity/Order NO	Adaptor	Capacity/Order NO
 <p>0302891099 Rotor Type: Swing Rotor Max Speed: 4200r/min Max RCF: 3450xg Max Capacity: 4x250ml</p>	 <p>0303891081 Oval bucket</p>		4x26x1.5ml 0304891454		4x10x5ml 0304891456
			4x14x5/7ml 0304891459		4x13x10ml 0304891461
			4x9x15ml (conical) 0304891463		4x9x15ml 0304891465
			4x6x20ml 0304891467		4x4x50ml (conical) 0304891469
			4x4x50ml 0304891471		4x2x100ml 0304891473
			4x1x250ml 0304891475		
		can be customized			

Rotor N°12					
Rotor	Bucket	Adaptor	Capacity/Order NO	Adaptor	Capacity/Order NO
 <p>0302891099 Rotor Type: Swing Rotor Max Speed: 4500r/min Max RCF: 3917xg Max Capacity: 4x250ml</p>	 <p>0303891082 Rectangular bucket</p>		4x16x1.5ml 0304891477		4x17x5/7ml 0304891479
			4x12x10ml 0304891481		4x9x15ml (conical) 0304891483
			4x4x50ml (conical) 0304891485		4x1x100ml 0304891487
			4x1x250ml 0304891489		

Rotor N°13					
Rotor	Bucket	Adaptor	Capacity/Order NO	Adaptor	Capacity/Order NO
 <p>0302891038 Rotor Type: Swing Rotor Max Capacity: 4x100ml Max Speed: 5000r/min Max RCF: 3773xg</p>	 <p>0303891029 Bucket</p>		4x3x10ml Blood collection tube 0304852409		4x1x15ml 0304891119
			4x1x15ml (conical) 0304891118		4x1x50ml (conical) 0304891114
			4x1x50ml 0304891116		



ESSE3 srl, Via Garibaldi 30
14022 Castelnuovo D.B. (AT)
Tel +39 011 99 27 706
Fax +39 011 99 27 506
e-mail: danielec@esse3-medical.com
web: www.esse3.dreamgest.com

