

# Technical Data Sheet

Doc No Ab/TDS/CT-19

Rev No: 02

## TECHNICAL DATA SHEET

Abdos Labtech Pvt. Ltd.

Swirl Pro High Speed Micro Centrifuge

Valid for Catalog No. E11520, E11530

### 1. Description Specifications:

#### 1.1 Description: Swirl Pro High Speed Micro Centrifuge/ Swirl Refrigerated Pro High Speed Micro Centrifuge

1.1.1 Swirl Pro is a micro centrifuge used for sedimentation of cells and virus, separation of sub- cellular organelles such as DNA, RNA, proteins & lipids.

1.1.2 Swirl Pro has a large ergonomic design with easy to read display & sound alert.

1.1.3 Both RPM & G-force can be displayed.

1.1.4 Swirl Pro adapts a Brushless DC Motor.

1.1.5 Special multi flow air-cooling design helps to keep lower rotor temperature.

1.1.6 Special multi-flow air cooling design helps to keep lower rotor temp.

1.1.7 Unique cooling system design minimizes rotor heating to less than 10°C after running for one hour

#### 1.2 Design: Swirl Pro High Speed Micro Centrifuge/ Swirl Refrigerated Pro High Speed Micro Centrifuge

#### 1.3 performance Specifications:

Specifications	E11520	E11530
<b>Voltage</b>	Single-phase, AC 220-240V	Single-phase, AC 220-240V
<b>Frequency</b>	50-60 Hz	50-60 Hz
<b>Current</b>	5A	10A
<b>Max Speed</b>	15000 rpm (200-15000rpm) with increment of 10 rpm	15000 rpm (200-15000rpm) with increment of 10 rpm
<b>Max RCF</b>	21380xg with increment of 10xg	21380xg with increment of 10xg
<b>Speed Accuracy</b>	±20 rpm	±20 rpm



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<b>Rotor Capacity</b>	(i) 5ml x 18 places (ii) 0.2ml/0.5ml/1.5ml/2ml x 24 places (iii) 0.5ml x 36 places (iv) PCR 8x4 places	(i) 5ml x 18 places (ii) 0.2ml/0.5ml/1.5ml/2ml x 24 places (iii) 0.5ml x 36 places (iv) PCR 8x4 places
<b>Run Time</b>	30sec-99min- HOLD (Continuous operation)	30sec-99min- HOLD (Continuous operation)
<b>Driving Motor</b>	Brushless DC Motor	Brushless DC Motor
<b>Safety Devices</b>	(i) Dual door interlock (ii) Over- speed detection (iii) Over temperature detection (iv) Automatic internal diagnosis	(i) Dual door interlock (ii) Over- speed detection (iii) Over temperature detection (iv) Automatic internal diagnosis
<b>Noise Level</b>	≤ 58 dB	≤ 58 dB
<b>Additional Features</b>	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
<b>Acceleration / Breaking time</b>	25 sec for Both Acceleration & Breaking	25 sec for Both Acceleration & Breaking
<b>Dimension</b>	280x364x266 mm	388x580x324 mm
<b>Weight</b>	12 kg	30 kg
<b>Permissible ambient Temp.</b>	+4 to +40°C	+4 to +40°C
<b>Permissible ambient Humidity</b>	80%	80%

**1.4 Material:** ABS (Acrylonitrile Butadiene Styrene)

**1.5 Color:** White

**1.6 E11520** – Swirl Pro High Speed Micro Centrifuge/ E11530-Swirl Refrigerated Pro High Speed Micro Centrifuge

**1.7 Spare Accessories**

1.7.1 **E11521** – 24 Place Rotor for 0.2, 0.5, 1.5 & 2.0ml

1.7.2 **E11522** – 18 Place Rotor for 5.0ml

1.7.3 **E11523** - 36 Place Rotor for .02 & 5.0ml



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- 1.7.4 **E11524**- 32 (8x4) Place Rotor for 0.2 ml PCR
- 1.7.5 **E11525**- Rotor Adaptor for 2.0ml-0.2ml used with E11521
- 1.7.6 **E11526**- Rotor Adaptor for 2.0ml-0.5ml used with E11521
- 1.7.7 **E11527**- Rotor Adaptor for 0.5ml-0.2ml used with E11523
- 1.7.8 **E11528**- 12 Place Rotor for 5.0ml(conical bottom)



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