

# TECHNICAL DATA SHEET

Doc No – Ab/TDS/Eqpt-232  
Rev No: 07 Date- 05/2024-25

**Abdos Labtech Pvt. Ltd.**  
**SWIRLEX – LCD/LED Digital Overhead Stirrer**

Valid for Catalog No. E11310, E11311, E11321, E11322

**SRN (Single Registration Number):** IN-MF-000022272

## 1. Description/Specification

### 1.1 Description: SWIRLEX – LCD/LED Digital Overhead Stirrer.

1.1.1 Swirlex overhead stirrer is widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industry and more.

1.1.2 Reliability, long continuous service and outstanding performance are its hallmarks.

1.1.3 Digital LCD display for precise monitoring of set and actual speed.

1.1.4 LCD Torque displays real time information on viscosity changes.

1.1.5 Protection and safety circuits ensure automatic cut-off in an anti-stall or overload conditions.

1.1.6 Provides a constant speed even with changes in viscosities of sample.

1.1.7 RS232 interface PC can control and document all operation values.

### 1.2 Design: LCD/LED Digital Overhead Stirrer.

### 1.3 Performance Specifications:

| Specifications      | E11310                                | E11311                                | E11321 & E11322                       |
|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Voltage             | 220-240V                              | 220-240V                              | 220-240V                              |
| Frequency           | 50-60Hz                               | 50-60Hz                               | 50-60Hz                               |
| Power               | 70V                                   | 130V                                  | 200V                                  |
| Speed Range         | 50-2200 rpm                           | 50-2200 rpm                           | 50-1100 rpm                           |
| Overload Protection | LED Lights, motor automatically stops | LED Lights, motor automatically stops | LED Lights, motor automatically stops |
| Speed Display       | LED                                   | LED                                   | LCD                                   |

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| Max. Stirrer Quantity                     | 20L           | 40L           | 70L           |
|-------------------------------------------|---------------|---------------|---------------|
| Max Torque                                | 40 Ncm        | 60Ncm         | 300 Ncm       |
| Max Viscosity                             | 10000 mPas    | 50000 mPas    | 100000 mPas   |
| Chuck range diameter                      | 0.5-10 mm     | 0.5-10 mm     | 0.5-10 mm     |
| Dimension                                 | 83x220x186 mm | 83x220x186 mm | 83x220x186 mm |
| Weight                                    | 2.8 kg        | 2.8 kg        | 3.2 kg        |
| Permissible ambient Temperature           | 5 - 40°C      | 5 - 40°C      | 5 - 40°C      |
| Permissible ambient humidity              | 80%           | 80%           | 80%           |
| Protection class according to DIN/EN60529 | IP21          | IP21          | IP21          |

| Code   | Product                                                                                                                    | Max. Stirrer Quantity (Lts) |
|--------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| E11310 | Digital Overhead Stirrer with universal plate stand including support holder and fixing device & E11313 SS crossed stirrer | 20L                         |
| E11311 | Digital Overhead Stirrer with universal plate stand including support holder and fixing device & E11313 SS crossed stirrer | 40L                         |

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|               |                                                                                                                                                                            |     |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>E11321</b> | LCD Digital Overhead Stirrer with Timer with Universal Plate Stand including support (holder) and fixing device and (E11312) Stainless Steel grand crossed Stirrer(E11324) | 70L |
| <b>E11322</b> | CD Digital Overhead Stirrer with Timer with Grand Plate Stand including support (holder) and fixing device and (E11323) Stainless Steel grand crossed Stirrer(E11324)      | 70L |

### Spare Accessories for E11310, E11311, E11321, E11322

| Code          | Product                                                        | Dimension (cm) |
|---------------|----------------------------------------------------------------|----------------|
| <b>E11312</b> | Universal Plate stand including support holder & fixing device | 20x31 (L X W)  |
| <b>E11313</b> | Stainless Steel Crossed Stirrer                                | 40x5 (L X Ø)   |
| <b>E11314</b> | Stainless Steel Straight Stirrer                               | 40x6 (L X Ø)   |
| <b>E11315</b> | Stainless Steel Blade Stirrer                                  | 40x6.8 (L X Ø) |
| <b>E11316</b> | Stainless Steel Centrifugal Stirrer                            | 40x9 (L X Ø)   |
| <b>E11317</b> | PTFE Crossed Stirrer                                           | 35x6.5 (L X Ø) |
| <b>E11318</b> | PTFE Straight Stirrer                                          | 35x7 (L X Ø)   |
| <b>E11319</b> | PTFE Blade Stirrer                                             | 35x6.8 (L X Ø) |
| <b>E11320</b> | PTFE Centrifugal Stirrer                                       | 35x8.5 (L X Ø) |

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## Spare Accessories for E11321 & E11322

| Code   | Product                                                                | Dimension (cm)           |
|--------|------------------------------------------------------------------------|--------------------------|
| E11323 | Universal Grand Plate Stand including support (holder) & fixing device | 33.5 x 46.3 cm (L x W)   |
| E11324 | Stainless Steel Grand Crossed Stirrer                                  | 60 x 10 cm (L x $\Phi$ ) |
| E11325 | Stainless Steel Grand Blade Stirrer                                    | 60 x 10 cm (L x $\Phi$ ) |
| E11326 | Stainless Steel grand anchor Stirrer                                   | 60 x 10 cm (L x $\Phi$ ) |
| E11327 | Stainless Steel grand Centrifugal Stirrer                              | 60 x 10 cm (L x $\Phi$ ) |

**1.4 Material:** Body – ABS Material

**1.5 Color:** Grey

**1.6. Basic features:**

1.6.1 Made up of highly pure Virgin ABS (Acrylonitrile Butadiene Styrene)

1.6.2 CE certified

1.6.3 **Chemical resistance:** see website ([www.abdoslifesciences.com](http://www.abdoslifesciences.com))

**1.7 Intended use:** Widely used in scientific studies of molecular biology, clinical chemistry, biochemistry and any type of scientific laboratory.

**Warranty:** 12 months from the date of Installation or 15 months from the date of Invoicing.

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## **Abdos Labtech Pvt. Ltd. SWIRLEX – LCD/LED Digital Overhead Stirrer**

### **Instruction for Use**

Storage temp. Max 30°C  
Before using the product check crackness, etc.  
Check all the information printed on pouches or boxes.

### **WARNING**

**DO NOT** store strong oxidizing agents.  
**DO NOT** place any plastic labware in a flame.  
**DO NOT** mix any chemicals that may result in a thermic reaction, which can cause product failure  
Consult local fire codes prior to storage of flammable liquids.

Manufactured & Marketed By :  
Abdos Labtech Private Limited  
Plot No. 1 Lakshewari Bhagwanpur Roorkee 247667 (UK) India  
For Complaints/Feedback Contact Customer Care at above address or  
Ph.: +91-011-41081897 or Email us at labtech@abdosindia.com  
Lic. No.: MFG/IVD/2024/000115 MADE IN INDIA



Quality Manager  
Abdos Labtech Private Limited  
Employee Code 30110



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