

## ST-series

## Digital Over Head Stirrer



CE



The Overhead stirrers are suitable for mixture of medium and high viscosity liquid. Wide range of application such like: chemical synthesis, pharmaceutical, physical and chemical analysis, electrochemical, cosmetics, health care, food, biotechnology etc.

## Features

**LCD Digital Overhead Stirrer Model ST-20dp and ST-40dp**

- High reliability, suitable for continuous operation, outstanding performance
- Speed range from 50 to 2200rpm, accurate and controlled
- Brushless DC motor drive, low noise, maintenance free
- Setting value and actual value can be displayed, real-time monitoring torque and speed via LCD display
- Overload protection via motor automatic switch-off facility in case of overload
- Anti-spill samples via PC control system which starts up smoothly to prevent samples overflow
- Automatically switch-off by abnormal conditions to ensure usage security
- PC control and document all measuring values via RS232 interface.
- Parameter can be set to carry out safety monitoring

**LED Digital Overhead Stirrer Model ST-20d and ST-40d**

- Heavy duty, suitable for continuous operation, outstanding performance
- Speed range from 0 to 2200rpm, the speed is accurate and controlled
- Brushless DC motor drive, low noise, maintenance free
- LED real-time display the actual speed
- Overload protection via motor automatic stop in case of overload
- Anti-spill samples via PC control system as it starts up smoothly, prevent samples overflow
- Automatically cut-off in abnormal conditions, to make sure using security

## Specifications

| Model                                 | ST-40dp                           | ST-20dp                 | ST-40d                  | ST-20d                  |
|---------------------------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|
| Max. stirring quantity                | 40 L (H <sub>2</sub> O)           | 20 L (H <sub>2</sub> O) | 40 L (H <sub>2</sub> O) | 20 L (H <sub>2</sub> O) |
| Motor rating input                    | 120 W                             | 60 W                    | 120 W                   | 60 W                    |
| Motor rating output                   | 100 W                             | 50 W                    | 100 W                   | 50 W                    |
| Voltage                               | 100-240 VAC                       | 100-240 VAC             | 100-240 VAC             | 100-240 VAC             |
| Frequency                             | 50/60 HZ                          | 50/60 HZ                | 50/60 HZ                | 50/60 HZ                |
| Power                                 | 130 W                             | 70 W                    | 130 W                   | 70 W                    |
| Speed range                           | 50-2200 rpm                       | 50-2200 rpm             | 0-2200 rpm              | 0-2200 rpm              |
| Speed display accuracy                | ±3 rpm                            | ±3 rpm                  | -                       | -                       |
| Speed display                         | LCD                               | LCD                     | LED                     | LED                     |
| Speed display resolution              | ±1 rpm                            | ±1 rpm                  | ±1 rpm                  | ±1 rpm                  |
| Max. torque                           | 60 Ncm                            | 40 Ncm                  | 60 Ncm                  | 40 Ncm                  |
| Torque display                        | LCD                               | LCD                     | -                       | -                       |
| Overload protection                   | LED lights, motor automatic stops |                         |                         |                         |
| Motor protect                         | LED lights, motor automatic stops |                         |                         |                         |
| Viscosity max.                        | 50000 mPas                        | 10000 mPas              | 50000 mPas              | 10000 mPas              |
| Chuck range diameter                  | 0.5-13 mm                         | 0.5-13 mm               | 0.5-13 mm               | 0.5-13 mm               |
| Dimension [W x H x D] mm              | 83 x 220 x 186                    | 83 x 220 x 186          | 83 x 220 x 186          | 83 x 220 x 186          |
| Weight                                | 2,8 kg                            | 2,6 kg                  | 2,8 kg                  | 2,6 kg                  |
| Protection class acc. to DIN/EN 60529 | IP42                              | IP42                    | IP42                    | IP42                    |
| Temperature[                          | 5-40 °C                           | 5-40 °C                 | 5-40 °C                 | 5-40 °C                 |
| Permission relative humidity          | 80 %                              | 80 %                    | 80 %                    | 80 %                    |
| PC control (RS232 interface)          | Yes                               | Yes                     | N/A                     | N/A                     |
| <b>Order No.</b>                      | 0.569.002                         | 0.569.001               | 0.569.004               | 0.569.003               |

### Accessories:

| Article No. | Model          | Description  | Qty  |
|-------------|----------------|--|------|
| 0.569.021   | Type ST-drill  | Drill chuck  | 1 pc |
| 0.569.022   | Type ST-stand1 | Stand packing 1 (WxD: 200x315mm), incl. stand plate, support rod L=780mm;                  | 1 pc |
| 0.569.023   | Type ST-stand2 | Stand packing 2 (WxD: 200x315mm), incl: U-shape base, support rod L=780mm; boss head clamp | 1 pc |
| 0.569.024   | Type ST-R71    | Crossed stirrer, 316L stainless steel, shaft length 40cm, stirrer diameter 5cm             | 1 pc |
| 0.569.025   | Type ST-R72    | Straight stirrer, 316L stainless steel, shaft length 40cm, stirrer diameter 6cm            | 1 pc |
| 0.569.026   | Type ST-R73    | Blade stirrer, 316L stainless steel, shaft length 40cm, stirrer diameter 6.8cm             | 1 pc |
| 0.569.027   | Type ST-R74    | Centrifugal stirrer, 316L stainless steel, shaft length 40cm, stirrer diameter 9cm         | 1 pc |
| 0.569.028   | Type ST-R75    | Crossed stirrer, PTFE-coated, shaft length 35cm, stirrer diameter 6.5cm                    | 1 pc |
| 0.569.029   | Type ST-R76    | Straight stirrer, PTFE-coated, shaft length 35cm, stirrer diameter 7cm                     | 1 pc |
| 0.569.030   | Type ST-R77    | Blade stirrer, PTFE-coated, shaft length 35cm, stirrer diameter 6.8cm                      | 1 pc |
| 0.569.031   | Type ST-R78    | Centrifugal stirrer, PTFE-coated, shaft length 35cm, stirrer diameter 8.5cm                | 1 pc |

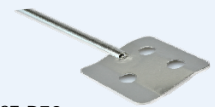
### Accessories:



ST-R71



ST-R72



ST-R73



ST-R74



Stand 2

Stand 1

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