

# DMS7-550M/DHP7-550/DMS7

**LCD Digital 7-Inch Timed Heating Magnetic Stirrer  
(Strong Magnetic)、Hotplate、Magnetic Stirrer**

# DMS4-550/DHP4-550/DMS4

**LCD Digital 4-Inch Timed Heating Magnetic Stirrer、  
Hotplate、Magnetic Stirrer**

## Features

- Ceramic discs are extremely corrosion-resistant, resistant to strong acids and alkalis, and high temperatures, making it easy to clean accidental drips of solvents, oils, or other contaminants.
- The corrosion-resistant all-metal housing provides good heat dissipation and reliable fire protection.
- High-efficiency infusion platform and waterproof edge design prevents liquid from entering the interior of the machine and corroding electronic components.
- Selected high-temperature resistant strong magnetic magnet, strong stirring, suitable for viscous liquid stirring.
- Heating modes are divided into: A rapid heating mode, B standard heating mode, C stable heating mode, to meet different customer needs.
- Safety locks to prevent accidental changes in operating conditions.
- Buzzer: When the machine malfunctions, or the timer function counts down to the end of the buzzer will emit a "drip drip drip" sound.
- Residual heat warning function, when the disc temperature is higher than 50 °C, turn off the heating, the screen will have a "HOT" flashing prompt, even if the power off, the display is still "HOT" flashing to remind the high temperature.
- Two independent safety circuits are designed to continuously monitor the equipment. When overheating occurs, the sensor fails, the machine reports an error and stops heating, and when the line is short-circuited, the machine automatically cuts off the power supply to protect the operator's safety.
- DC brushless motor, no spark, long life; low noise, maintenance-free, smooth running.
- The LCD displays the set and real-time values of speed, time and temperature in an intuitive and clear manner.
- Timing function, timing range 1min-99h59min, countdown to the end of the stop heating, will not stop stirring, so as not to heat damage to the sample.
- Remote control function with PC connection.
- Safety temperature can be set.



| Specifications                                    | DMS7-550M                         | DHP7-550                          | DMS7                       |
|---------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| Working plate size                                | 184x184mm (7 inch)                | 1184x184mm (7 inch)               | 184x184mm (7 inch)         |
| Plate Material                                    | Glass Ceramic                     | Glass Ceramic                     | Glass Ceramic              |
| Motor type                                        | Brushless DC motor                | -                                 | Brushless DC motor         |
| Stirring positions                                | 1                                 | -                                 | 1                          |
| Maximum stirring volume [H <sub>2</sub> O]        | 20L                               | -                                 | 20L                        |
| Maximum stirrer size [length]                     | 80mm                              | -                                 | 80mm                       |
| Speed range and step                              | 50~1500rpm, increment 1rpm        | -                                 | 50~1500rpm, increment 1rpm |
| Speed Display                                     | LCD                               | -                                 | LCD                        |
| Temperature display                               | LCD                               | LCD                               |                            |
| Heating temperature range                         | Room temp-550°C,<br>increment 1°C | Room temp-550°C,<br>increment 1°C | -                          |
| Temperature control<br>accuracy of heating liquid | ±1°C(<100°C)±1%(>100°C)           | ±1°C(<100°C)±1%(>100°C)           | -                          |
| overheating protection                            | 580°C                             | 580°C                             | -                          |
| Temperature display accuracy                      | 0.1°C                             | 0.1°C                             | -                          |
| External temperature sensor                       | PT1000 (accuracy ±0.2°C)          | PT1000 (accuracy ±0.2°C)          | -                          |
| Waste heat warning function                       | 50°C                              | 50°C                              | -                          |
| Data connection                                   | RS232                             | RS232                             | RS232                      |
| Protection class                                  | IP21                              | IP21                              | IP21                       |
| Timer function                                    | 1min-99h59min                     | 1min-99h59min                     | 1min-99h59min              |
| Motor output power                                | 10W                               | -                                 | 10W                        |
| Power                                             | 1200W                             | 1150W                             | 50W                        |
| Heating output power                              | 1150W                             | 1100W                             | -                          |
| Voltage,Frequency                                 | 100-120/200-240V, 50/60Hz         | 100-120/200-240V, 50/60Hz         | 100-240V, 50/60Hz          |
| Dimensions [L x W x H]                            | 360x230x110mm                     | 360x230x110mm                     | 360x230x110mm              |
| Weight                                            | 4.3kg                             | 4.3kg                             | 4.3kg                      |
| Permissible ambient<br>temperature and humidity   | 5-40°C, 80%RH                     | 5-40°C, 80%RH                     | 5-40°C, 80%RH              |

| Specifications                                    | DMS4-550                          | DHP4-550                          | DMS4                  |
|---------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------|
| Working plate size                                | 100x100mm (4 inch)                | 100x100mm (4 inch)                | 100x100mm (4 inch)    |
| Plate Material                                    | Glass Ceramic                     | Glass Ceramic                     | Glass Ceramic         |
| Motor type                                        | Brushless DC motor                | -                                 | Brushless DC motor    |
| Stirring positions                                | 1                                 | -                                 | 1                     |
| Maximum stirring volume [H <sub>2</sub> O]        | 10L                               | -                                 | 10L                   |
| Maximum stirrer size [length]                     | 40mm                              | -                                 | 40mm                  |
| Speed range and step                              | 50~1500rpm, step 1rpm             | -                                 | 50~1500rpm, step 1rpm |
| Speed Display                                     | LCD                               | -                                 | LCD                   |
| Temperature display                               | LCD                               | LCD                               |                       |
| Heating temperature range                         | Room temp-550°C,<br>increment 1°C | Room temp-550°C,<br>increment 1°C | -                     |
| Temperature control<br>accuracy of heating liquid | ±1°C(<100°C)±1%(>100°C)           | ±1°C(<100°C)±1%(>100°C)           | -                     |
| overheating protection                            | 580°C                             | 580°C                             | -                     |
| Temperature display accuracy                      | 0.1°C                             | 0.1°C                             | -                     |
| External temperature sensor                       | PT1000 (accuracy±0.2°C)           | PT1000 (accuracy ±0.2°C)          | -                     |
| Waste heat warning function                       | 50°C                              | 50°C                              | -                     |
| Data connection                                   | RS232                             | RS232                             | RS232                 |
| Protection class                                  | IP21                              | IP21                              | IP21                  |
| Timer function                                    | 1min-99h59min                     | 1min-99h59min                     | 1min-99h59min         |
| Motor output power                                | 10W                               | -                                 | 10W                   |
| Power                                             | 460W                              | 430W                              | 30W                   |
| Heating output power                              | 410W                              | 410W                              | -                     |
| Voltage,Frequency                                 | 100-120/200-240V, 50/60Hz         | 100-120/200-240V, 50/60Hz         | 100-240V, 50/60Hz     |
| Dimensions [L x W x H]                            | 270x175x108mm                     | 270x175x108mm                     | 270x175x108mm         |
| Weight                                            | 2.2kg                             | 1.8kg                             | 1.8kg                 |
| Permissible ambient<br>temperature and humidity   | 5-40°C, 80%RH                     | 5-40°C, 80%RH                     | 5-40°C, 80%RH         |