

Model JSHS-18D : Digital Hotplate Magnetic Stirrer



JSHS-18D Digital hotplate Stirrer utilize the most advanced Digital Fuzzy Control technology of temperature, stirring speed and time. Control temperature range max. 400 °C in 0.1 °C display resolution, stirring speed range from 80 to 1,500 rpm, timer set to 99 hr 59 min. Durable and rugged aluminum casting body and chemical resistant ceramic coated top plate.

Model JSHS-18D Digital Hotplate Magnetic Stirrer

MAIN FEATURES

Controller

- Advanced microprocessor Digital Fuzzy Controller with Touch button and Jog Dial.
- Accurate temperature and stirring speed display and control
 - Rugged, solid and chemical-proof control panel surface
- Touch-sensitive Multi-Functional Capacitive Button compatible to all kind of latex gloves as well as finger touch.
- Easy-to-use Jog Dial for quick and convenient setting of temperature and stirring speed. Push to Run and Stop control.
- High-fidelity clear back light LCD displays complete setting and operating condition at a glance. Easy to monitoring set values, present temperature, speed and time.
- Connected to optional External Temperature Probe to directly measure and control sample temperature

Performance

- Temperature setting from + 25 °C to 400 °C in 0.1 °C display resolution within ± 3.0 °C accuracy
- CA sensor embedded in top plate to measure and control temperature
- Stirring speed range from 80 to 1,500 rpm in 5 rpm resolution
- Timer setting range from 1 min to 99 hr 59 min

Construction

- 180 x 180 mm sized durable, chemical and scratch resistant ceramic coated aluminum top plate.
- Thermal insulation between top plate and body ensure durability and long shelf life
- Low profile and spill trough design of main body provide safe use and channels spills away from electronics and controls to protect unit.
- Main body made by aluminum casting with durable epoxy powder coating resistant to most of the chemical and thermal damage
- Base plate made by engineering plastic provides durability and resistant to chemical and fumes
- Suction-Cup type Feet provide strong and stable attachment on the table surface

Convenience

- Screw type attachment hole on the body for optional stand rod
- Optional External Temperature Probe to measure sample temperature directly
- Optional chemical resistant Teflon Temperature Probe
- Optional clamp, holder and wire clip sets

Safety

- OVER TEMP. PROTECTION
- OVER CURRENT CUT-OFF : Fuse

SPECIFICATIONS

Description **MODEL JSHS-18D**

Dimension Data	(W x D x H mm)
Plate Dims.	180 x 180 mm
Overall Dims.	180 x 330 x 110 mm

Performance Data

Temp. Range	Max. 400°C
Accuracy	±0.3°C at +200°C
Resolution (Display)	0.1°C
Resolution (Control)	0.5°C
Speed Range	80 ~ 1500 rpm
Stirring Quantity (H ₂ O)	20 L
Resolution	5 rpm
Usable Magnetic Bar	Max. 50 mm in length
Timer	Max. 99 hr 59 min

Controller

Digital Fuzzy Control with Capacitive Touch Button and Jog Dial
 Full Size Digital Back Light LCD Display
 Independent ON/OFF Switch

Heater and Motor

Heating Output	600 Watt
Temp. Sensor	CA Type Embedded Sensor
Motor	Brushless Shade Motor

Safety Data

Safety Device	Over Temp. Cut-Off Over Current Cut-Off
---------------	--

Material Data

Top Plate	Aluminum with ceramic coating
Body	Aluminum casting with epoxy powder coating
Base	Engineering Plastic

Electrical Data

Rated voltage	230 ± 10% VAC
Power frequency	50 / 60Hz
Nominal power	620 Watt 3.0 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko or BS 1363

Usable Condition

Temp. & Humidity	5°C - 40°C, < 80% RH
------------------	----------------------


Packaging Data

Shipping Dims. (W x D x H mm)	280 x 460 x 170 mm
Type of packaging	Carton
Net Weight	3.0 kg
Shipping Weight	3.9 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSHS-18D	Digital Hotplate Magnetic Stirrer, 180 x 180 mm	230 VAC 1~ ph 50/60Hz

ACCESSORIES

Art. No.	Descriptions	Component
PHE-01T	External Temperature Probe, CA, Stainless Steel	
PHE-02F	External Temperature Probe, CA, Teflon	
PHA-03S	Stand Rod, Stainless Steel	
PHA-04H	SET of Temperature Probe Holder, Clamp, Wire Clip x 2 ea	

JS RESEARCH INC.

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr