

# MS-H380-Pro

## LCD Digital Magnetic Hotplate Stirrer

### Features

- Maximum heating temperature is 380°C
- High resolution LCD displays actual temperature and speed
- Brushless DC motor is maintenance free
- Aluminum ceramic coating work plate, allowing immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital speed control with maximum speed up to 1500rpm
- Maximum stirring quantity of H<sub>2</sub>O at 5L



# MS-H280-Pro

## LED Digital Magnetic Hotplate Stirrer

DLAB MS-H280-Pro is a perfect hotplate stirrer for handling small volume task and daily applications, with maximum temperature of 280°C

### Features

- Digital temperature control with maximum temperature up to 280°C
- Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$
- LED display shows temperature and stirring speed
- "HOT" warning flashes if work plate temperature is above 50°C

Specifications	MS-H-Pro <sup>A</sup>	MS-H-PRO <sup>+</sup>	MS-H-PRO <sup>T</sup>	MS-H-S	MS-H380-Pro	MS-H280-Pro
Work plate Dimension [W x D]	Ø135mm ( 5 inch )	Ø135mm ( 5 inch )	Ø135mm ( 5 inch )	Ø135mm ( 5 inch )	140x140mm	Ø135mm ( 5 inch )
Work plate material	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1	1	1	1
Max. stirring quantity, [H <sub>2</sub> O]	20L	20L	20L	20L	5L	3L
Max. magnetic bar[length]	80mm	80mm	80mm	80mm	50mm	50mm
Speed range	100–1500rpm resolution ± 1rpm	100–1500rpm resolution ± 1rpm	100–1500rpm resolution ± 1rpm	0–1500rpm	200–1500rpm	200–1500rpm
Speed display	LCD	LCD	LCD	Scale	LCD	LED
Temperature display	LCD	LCD	LCD	Scale	LCD	LED
Heating temperature range	Room temp.–340°C, increment 1°C	Room Temp.–340°C, increment 1°C	Room Temp.–340°C, increment 1°C	Room Temp.–340°C	Room Temp–380°C	Room Temp–280°C
Heating liquid temperature control accuracy	± 1°C(<100°C) ± 1%(>100°C)	± 1°C(<100°C) ± 1%(>100°C)	± 1°C(<100°C) ± 1%(>100°C)	–	± 1°C(<100°C) ± 1%(>100°C)	± 1°C (<100°C) ± 1% (>100°C)
Overheating temperature protection	420°C	420°C	420°C	420°C	420°C	320°C
Temperature display accuracy	± 0.1°C	± 0.1°C	± 0.1°C	–	± 0.1°C	± 1°C
External temperature sensor	PT1000 ( accuracy ± 0.2°C )	PT1000 ( accuracy ± 0.2°C )	PT1000 (accuracy ± 0.2°C)	–	PT1000 ( accuracy ± 0.2°C )	PT1000 ( accuracy ± 0.2°C )
"Hot" warning	50°C	50°C	50°C	–	–	50°C
Data connector	RS232	RS232	RS232	–	–	–
Protection class	IP21	IP21	IP21	IP21	IP21	IP42
Timer function	–	–	1min to 99h59min	–	–	–
Motor rating input	18W	18W	18W	18W	2,4W	5W
Motor rating output	10W	10W	10W	10W	1.8W	3W
Power	650W	550W	550W	530W	510W	515W
Heating output	600W	500W	500W	500W	500W	500W
Voltage,Frequency	100–120/200–240V, 50/60Hz	100–120/200–240V, 50/60Hz	100–120/200–240V, 50/60Hz	100–120/200–240V, 50/60Hz	100–120/200–240V, 50/60Hz	100–120/200–240V, 50/60Hz
Dimension [WxDxH]	280x160x100mm	160x280x100mm	160x280x100mm	160x280x100mm	320x180x108mm	150x260x100mm
Weight	2,8kg	2,8kg	2,8kg	2,8kg	2,2kg	1,8kg
Permissible ambient temperature and humidity	5–40°C,80%RH	5–40°C,80%RH	5–40°C,80%RH	5–40°C,80%RH	5–40°C,80%RH	5–40°C,80%RH

