TECHNICAL DATA SHEET

ALab™ MS-H380-F Series LCD Digital Magnetic Stirrer Heating Mantle

LCD digital magnetic stirrer heating mantle · 100 to 2000 mL flasks · RT to 380°C · 100 to 1500 rpm



ALab™ MS-H380-F Series LCD Digital Magnetic Stirrer Heating Mantle

The ALab™ MS-H380-F Series heating mantle; image shown for reference.

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SECTION I

Product Overview

The ALab™ MS-H380-F Series are LCD digital magnetic stirrer heating mantles for 100, 250, 500, 1000 and 2000 mL round-bottom flasks. Each heats from RT to 380°C and stirs at 100 to 1500 rpm with a brushless DC motor.

A glass-fiber inner sleeve with aluminum silicate wool insulation gives uniform, fast heating; a PT1000 sensor (±0.2°C) fits the dual-side bracket; two independent safety circuits, overcurrent, ground fault and over-temperature protection, a "HOT" warning and a safety lock cover safety; RS232 handles data.

SECTION II

Core Advantages

- **Flasks** — 100 to 2000 mL
- **Stirring** — 100 to 1500 rpm
- **Timer** — heating stops, stirring continues
- **Heating** — RT to 380°C, uniform
- **Sensor** — PT1000, ±0.2°C
- **Safety** — two independent circuits

SECTION III

Specifications

Technical data — MS-H380-F100 / F250 / F500 / F1000 / F2000

Specifications	
Brand	ALab™ by ACS Material
Series	MS-H380-F (F100, F250, F500, F1000, F2000)
ACS Cat. No.	ALM38F01 to ALM38F05 (parent ALM38)
Product type	LCD digital magnetic stirrer heating mantle
Compatible containers	Round-bottom flasks of 100, 250, 500, 1000 or 2000 mL (see the model table)
Motor type	Brushless DC motor
Speed range	100 to 1500 rpm
Speed control accuracy	±10 rpm
Speed display	LCD
Temperature display	LCD
Temperature control range	RT to 380°C
Temperature control accuracy	±1°C (<100°C), 1% (>100°C)
Temperature display accuracy	±0.1°C
Overheating protection	500°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
"HOT" warning	50°C
Timer function	1 min to 99 h 59 min
Data connector	RS232
Protection class	IP21
Motor output power	5 W
Heating power / power	See the model table
Voltage, frequency	100 to 120 V, 60 Hz; 200 to 240 V, 50 Hz
Dimensions and weight	See the model table
Permissible ambient temperature	5 to 40°C
Permissible ambient humidity	80%

The five models

Model	Flask	Inner dia.	Heating power	Power	Dimensions [W × D × H]	Weight	ACS Cat. No.
MS-H380-F100	100 mL	70 mm	110 W	130 W	267 × 227 × 169 mm	3.8 kg	ALM38F01
MS-H380-F250	250 mL	90 mm	150 W	170 W	267 × 227 × 169 mm	3.8 kg	ALM38F02
MS-H380-F500	500 mL	115 mm	330 W	350 W	267 × 227 × 169 mm	3.8 kg	ALM38F03
MS-H380-F1000	1000 mL	142 mm	430 W	450 W	302 × 260 × 189 mm	4.7 kg	ALM38F04
MS-H380-F2000	2000 mL	181 mm	630 W	650 W	337 × 300 × 214 mm	6.1 kg	ALM38F05

SECTION IV

Applications

Organic synthesis, polymerization, distillation and purification, sample dissolution and extraction, sample pretreatment before analysis, and catalytic reaction kinetics research.

Specifications are per the tables above.

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