



ALEMADR Thermo Shaker Incubator

Heating/Cooling Heating

LCD

Download
Catalogue



RT+5°C /-20°C to 100°C



LCD Display Screen

Microcomputer control temperature and oscillation frequency with timing functions, Built-in power-off protection can automatically resume operation after power on.



High Precision speed Control

Speed control : Intelligent Brushless DC motor, High speed accuracy, Slow start design, Auto lock if speed out of control. Adjustable starting speed to prevent the splash of shake flask liquid.



Timing function

within the range of 0-100 hours (step 1 min or continuous) the incubation time can be set arbitrarily. Starts working immediately after setting the timer. The end of the timer process is indicated by a sound.



Shaking method

Continuous or timing shaking, alarm after expire settings time, with automatic function switch off. Starting after the temperature reaches the set value.



Intelligent Brushless DC motor

Prevent graphite pollution, maintenance free.

The ALEMADR constant temperature mixer (oscillating constant temperature metal bath) uses a DC brushless motor. Microcomputer control technology to perfectly combine the functions of constant temperature, oscillation and timing.

On ALEMADR is easy and convenient change of thermostatic blocks.

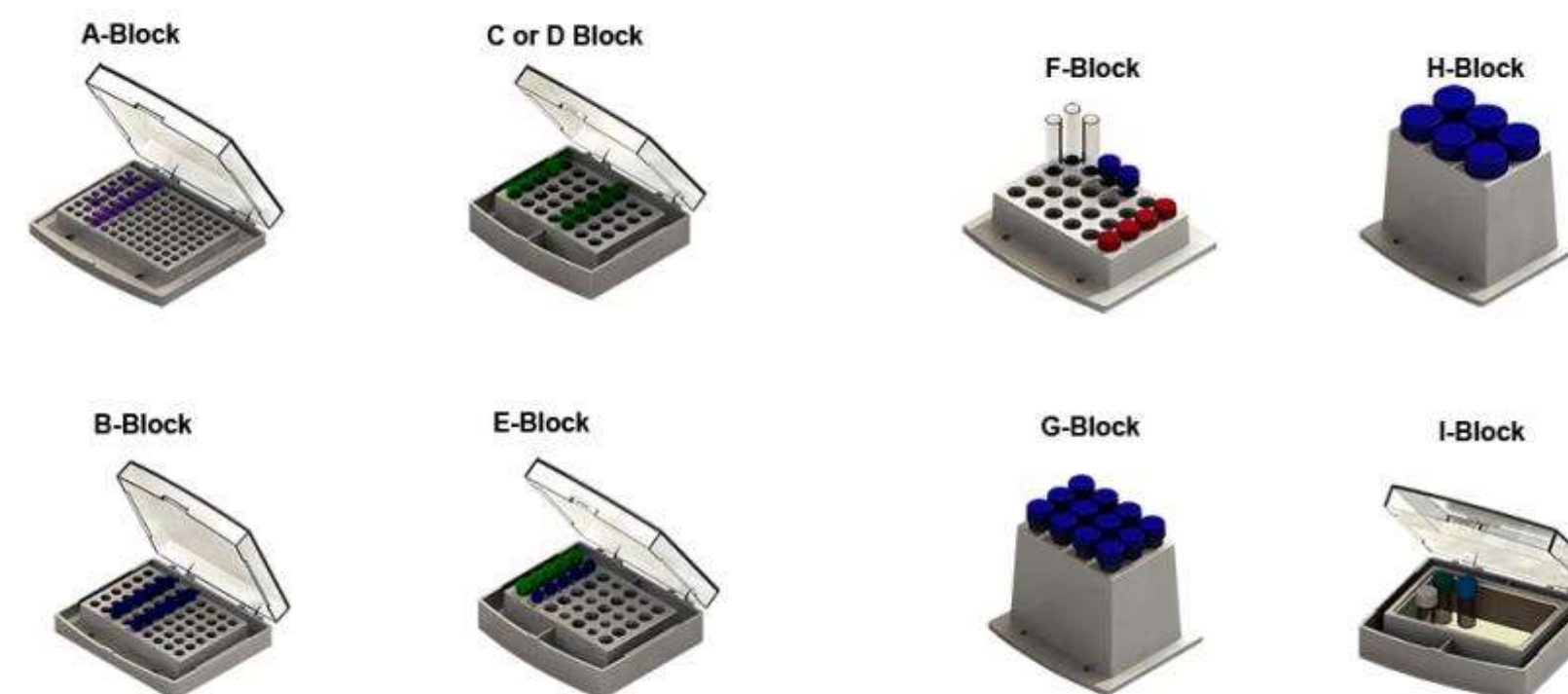
The ALEMADR-MS constant temperature mixer also has multi-purpose functions such as heating, cooling, and oscillation. The LCD liquid crystal display (16x2 character) has a power-off recovery function. After power-off recovery, the instrument can automatically resume operation according to the original set program. Variety of standard sample thermo modules are available, easy to replace. Temperature calibration function and short oscillation jog function. DC brushless motor drive, long life, maintenance-free with soft start. PID control ensures consistent mixing results and precision. Continuous or timing shaking, alarm after expire settings time, with automatic function switch off. Multiple safety protection functions: overheating, overloading ...

- Temperature uniformity at 37°C : ±0.1°C
- Maximum time of continues working: 240h
- Timing range: 1min to 99h 59min (one minute is a step or continuous)
- Display accuracy: ±0.1°C
- Average heating time (25 °C to100°C) : ≤5min (or ramping mode)
- Average cooling time (100°C to25 °C) : ≤8min (or ramping mode)
- Average cooling time (25°C to -20 °C) : ≤8min (or ramping mode)
- Temperature uniformity in thermo block at 4°C ±0.5°C
- Temperature uniformity in thermo block at 37°C ±0.1°C
- Temperature uniformity in thermo block at 100°C ±0.3°C
- Oscillation amplitude: 2mm
- Working temperature +4°C to 40
- Temperature control
- Interval mixing function
- The two-line LCD display shows the set and current parameters of temperature, shaking speed and time
- USB/Bluetooth connection with External firmware connection provide setup latest firmware and option

*The upper limit of temperature and oscillation speed depends on the specific module used

Model	Dry Bath Incubator		Thermo Shaker Incubator	
	ALEMADR-H	ALEMADR-HC	ALEMADR-MS	ALEMADR-MS
Temperature control range	RT+5°C-100°C		RT+5°C-100°C	
Cooling method	x	Peltier	x	Peltier
Mixing speed control	x	x	0-1500rpm	
Temperature resolution	0.1°C			
Temperature stability	±0.1 °C			
Temperature control accuracy	0,2°C			
Temperature accuracy at 37°C	0,1°C			
Mixing amplitude	2mm			
Speed accuracy	±1rpm			
Shells	ABS			
Drive mode	Multidimensional drive			
Cooling System	No	Yes	No	Yes
Coefficient range of calibration t°	0.936 – 1,063 (±0.063)			
Timer	0 to 99h59min			
Running function	Setting or program running, timing running, automatic stop, quick stop start, one-button illumination, two-way automatic switching			
Temperature Sensor	Pt100 A Class			
Additional features	Temp. deviation correction, menu button lock, power failure memory			
Power supply	AC110-220V±10%/50/60Hz/60W Output DC12V / 4.9A			
Dimension W*D*H	200*220*90		220*240*90	
NW /GW kg	3.2/4		3.7/6	
Optional accessories	Blocks			

Thermo Block Code	Model	Aperture and number of test tubes	Max. Temp.	Max. Rpm
AS-01051-01	A	96*0.2ml standard plate	100°C	1500rpm
AS-01051-02	B	54*0.5ml centrifuge tube	100°C	1500rpm
AS-01051-03	C	35*1.5ml centrifuge tube	100°C	1500rpm
AS-01051-04	D	35*2.0ml centrifuge tube	100°C	1500rpm
AS-01051-05	E	15*0.5ml+20*1.5ml centrifuge tube	100°C	1500rpm
AS-01051-06	F	24 * diameter ≤ diameter 12mm tubes	100°C	1200rpm
AS-01051-07	G	12*15ml Falcon tube	100°C	800rpm
AS-01051-08	H	6*50mlFalcon tube	100°C	750rpm
AS-01051-09	I	103*67*30mm (square slot module)	100°C	1500rpm
AS-01051-10	J	96*0.2ml micro plate (enzyme-labeled plate)	100°C	1500rpm
AS-02031-01	PCR-A	96x0.2ml PCR Tube Holder	100°C	1500rpm
AS-01051-16	PCR-B	PCR Plate 96X	100°C	1500rpm
AS-01051-11	K	24*5ml centrifuge tube	100°C	1200rpm
AS-01051-12	L	Special template for deep hole plate	80°C	800rpm
AS-01051-13	M	15x5ml Eppendorf centrifuge tube	100°C	1200rpm
AS-01051-14	N	35x1,5/2ml tubes	100°C	1500rpm
AS-01051-15	O	20x0.5ml + 12x1.5ml	100°C	1500rpm
AS-01051-16	P	20x0.2ml+12x1.5ml	100°C	1500rpm



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Please note

If this Incubator does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

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