

ADVANCE -SERIES

REFRIGERATED INCUBATOR SHAKER-PLC & HMI BASED (ADVANCE)



MODEL : MRS / MO (ADVANCE)

TECHNICAL SPECIFICATIONS

Orbital shaking incubator are specially designed to have combined advantage of closely controlled incubation/ storage – temperature with orbital shaking (Stackable Units).

Constructed of double walls, the exterior is of GI sheet duly powder coated and Interior are made of Stainless Steel 304 grade mirror finish The plexiglass inner door makes it possible to inspect specimen without disturbing the temperature. Outer Door is made of Double Glass window in Frame with lock & Key.

Air Circulating fan creates positive air flow through the incubator, and maintains uniform temp. With 1 no. perforated Stainless Steel adjustable trays, and 1 no. moisture proof socket provided inside the chamber for running any other device Incubator Shaker (Refrigerated Model) incorporates hermetically sealed ISI marked CFC Free compressor housed below the incubator to provide temperature below ambient.

Illumination : with fluorescent tube of 30cm length (3 No.) with Cyclic timer and UV light (1 no.).

Shaking Motion : Orbital with variable frequency drive having gentle start & stop function.

Temperature Range : 5°C to 60°C ± 0.1 to 0.4°C (Optional : upto 80°C)

Speed Range : 20 to 300 rpm (Optional : upto 400 rpm)

Process Control Display :

7 inch TFT Touch Screen HMI with large easy to read display Screen clearly indicates Speed, Temperature and alarm condition.

Display clearly visible in the dark. Temp. and speed deviation alarm.

PLC based programmable controller to automate parameter changes Time, temperature shaking having 4 programs 10 steps each for timed studies. Program end alarm System is able to maintain set point during power interruption and restart when power resumes.

Data logging of Temp., RPM with Date & Time in internal memory and can be transferred to USB pen drive.

Trend graph of Temp. & RPM with time, with programmable cyclic control of Illumination.

Option for screen shot, Web interface with complete operation from any other PC or Laptop (through static IP)

Safety features :

Audio Visual alarm for High Temp. and rpm deviation from set value. Shaking stop when door is opened. Resumption of operation after power failure.



MODEL	MRS-100 C A (Bench Top) REFRIGERATED	MO-100 C A REFRIGERATED	MO- 250 C A REFRIGERATED
WORKING CAPACITY	236lrd	291lrd	361lrd
TEMP. RANGE	6'D!up!71'D	6'D!up!71'D	6'D!up!71'D
TEMP. CONTROL	QND!Cbt fe-!Qsphsn n bc rfi!x ju !UGU!ejt q!bz		
TEMP. ACCURACY	_1/2'D!..1/5'D		
SHAKING SPEED	Vbq!bc rfi!N!jdsqspdfi t t ps!Dpouprthe-!x ju !E!hjub r!6QNI!E!jt q!bz		
SPEED RANGE	31!up!411!sqn / _12sqn /		
ORBITAL DIA	2: n n /		
INNER SIZE	61!yl!61!yl!61dn !!X !yl!E!yl! *	63!yl!63!yl!79!dn !!X !yl!E!yl! *	71!yl!71!yl!81!dn !!X !yl!E!yl! *
PLATFORM SIZE	56!yl!56!dn /	59!yl!59!dn /	62!yl!62!dn /
SHAKING TRAY	Vojw! st br!Q!bupsn !up!bddpn n p!bu! !jou! s!di bshf bc rfi!dn q!pgbt t ps! e!fi !! f t !gp!se!jgj s! ou!dbq!bd!uz!pg!d!p!o!j!o!b!n!t! /		
MAX. PLATFORM CAPACITY	!Gbt ! t !yl!61!1!n m!d!36!Gbt ! t !yl!211!n m!d	27!Gbt ! t !yl!61!1!n m!d!47!Gbt ! t !yl!211!n m	36!Gbt ! t !yl!61!1!n m!d!5: !Gbt ! t !yl!211!n m
	27!Gbt ! t !yl!36!1!n m!d!6!Gbt ! t !yl!211!n m	36!Gbt ! t !yl!36!1!n m!d!8!Gbt ! t !yl!211!n m	47!Gbt ! t !yl!36!1!n m!d: !Gbt ! t !yl!211!n m
POWER SUPPLY	311!wp!nd -!61i { -!BD!t!johm!lqi bt f !t vaq!m		

OPTIONAL :

Humidity Probe, Gasing Manifold, Photosynthetic Light Bank, Voltage Stabilizer.