

COOLING INCUBATOR :



HAMCO Make COOLING INCUBATOR is designed to meet the testing challenges of the competitive pharmaceutical research field. It serves as the perfect environment for refrigerated storage , conduction of shelf life studies and general incubation.

SPECIFICATIONS :-

- Temp. controller : Microprocessor based PID control with auto tune facility.
- Temperature sensor : RTD Pt 100.
- Temperature display : Digital LED 3 ½ digit.
- U shaped nichrome wire heater in ss sheathing.
- Cooling : CFC free compressor utilising R 134a eco friendly refrigerant , with condenser , motor and relay .
- Air circulation : With flange motor and blower.
- Feet : Castor wheels.
- Trays : SS wire mesh , Heavy duty.
- Construction : Double walled with poly urathene (PUF) insulation provided with outer full length glass viewing door with locking arrangement.

CONSTRUCTION :-

- Double walled , gap between walls filled with PUF Insulation.
- Standard Model : Stainless steel Mirror polished chamber and heavy guage Powder- coated CRC exterior.
- GMP Model : Stainless steel Mirror polished chamber and exterior of dull finish stainless steel.
- 3" Thick CFC Free Puff Insulation.
- Stainless steel Trays. Adjustable Tray Height adjustment.
- Unit Mounted on castor wheels with front lock arrangement.

CONTROL PANEL :-

- Microprocessor based PID temp. controller with auto tune facility for precise control of temperature
- Temp. Sensor : PT- 100
- Recorder data bank to store and print set values , process values , date and time of master controllers with variable print time intervals (Optional)
- PC Interface communication card with RS 485 for temperature and humidity control system (Hardware only) (optional)

SAFETY FEATURES :-

- Over heat temperature cut off .
- Electrical overload compressor cutoff.
- Time delay for compressor switch on.
- Electrical short circuit breaker.

UTILITIES (pre installation requisite):-

- Room temperature around machine preferably at 25 degree C.
- Stabilised input voltage of 230V Ac, 50 Hz, 20 Amps.
- Water drain line with ½” Nozzle to be provided at floor level.

DATA RECORD :-

- 21 CFR Part 11 compliant software with audit trail (who did what and when is recorded)
- Multilevel Passwords.
- Data storage device has online and offline capabilities.
- Multi chamber data acquisition on single software.
- Tabular and graphical report, alarm deviation report.
- Mean Kinetic temperature report and alarm deviation report.
- Audit trail report.
- Attractive reports and graphs.
- Alarm report.
- Time synchronisation.

ORDERING INFORMATION :-

MODEL NO.		CAPACITY		DIMENSION IN CMS		SHELVES	WT IN KG		POWER	
Standard	GMP	Cu. Ft	Litres	Chamber	Over All		Unit	Packed in wooden case	VAC Hz	Watts
HAMCO49S -3	HAMCO49 G-3	3	90	45x45x45	60x95x110	2	110	165	230,50	1500
HAMCO49 S-4	HAMCO49 G-3	4	120	45x45x60	60x95x125	2	150	225	230,50	2000
HAMCO49 S-8	HAMCO49 G-8	8	200	60x60x60	80x110x125	2	220	300	230,50	2500
HAMCO49 S-12	HAMCO49 G-12	12	324	60x60x90	80x110x155	3	230	320	230,50	2500
HAMCO49 S-16	HAMCO49 G-16	16	450	60x60x125	80x130x175	4	340	430	230,50	4000



HAMCO49 S-21	HAMCO49 G-21	21	600	60x80x125	80x130x195	5	365	465	230,50	4000
HAMCO49 S-28	HAMCO49 G-28	28	800	80x80x125	100x130x210	5	390	500	230,50	4500
HAMCO49 S-34	HAMCO49 G-34	34	1000	80x80x155	100x130x220	5	430	525	230,50	4500
HAMCO49 S-53	HAMCO49G-53	53	1500	60X160X150	110X170X210	10	375	475	230,50	5000
HAMCO49 S-70	HAMCO49G-70	70	2000	80X160X150	130X176X210	10	400	500	230,50	5500

OPTIONAL ACCESSORIES	
Catalogue No	Description
PCI-1	PC Interface communication Card with RS 485 convertor (Hardware) for temperature and humidity control system
RCR-11	Data Bank to record, store and print set values, Process values, Date & time of master controllers with variable print time intervals
SCN-44	4 Point temperature and 4 point humidity scanner complete with sensors , printer interface and facility to record , store and print process values, Date & time with variable print time intervals.
SCN-88	8 Point temperature and 8 point humidity scanner complete with sensors , printer interface and facility to record , store and print process values, Date & time with variable print time intervals.
SOFTW-21	“HAMCO” CFR 21 Part 11 compliance windows based communication software for data management. Complete with RS 485 multi dropping to monitor multiple chambers to one software.
S.REF- 1	Ready to use standby refrigeration system in case of regular system fails. Complete with compressor , condenser, evaporator and other accessories with gas charging.
GSM-5	Mobile alert via GSM Technology in case of system failures.
PLC (HMI)	Programmable logic controller(PLC) with built in PID Controller (Auto tune type) , data storage, safety controller, auto changeover of standby systems, Auto fault detection and with ethernet connectivity with 3.8” HMI with colour touch screen.
PS	Online uninterrupted power supply for PLC
VAL.	Validation charges Per day (8 hrs)