

Specification:

5-lanes Organic Synthesizer with individual cell setting Temperature and Pressure Monitoring facility for variety of independent reaction setting.- **2 Numbers**

Wide temp. control range of -20°C- 160°C (with external Re-circulating Chiller for -20 °C).

5 independent temperature control

Ramp temperature control

Wide Synthesis scale 0.5ml – 60ml

Heating, cooling, reflux and stirring functions

Reaction Vessel : Various Reaction Vessel 1-5pcs (Max.20)

Synthesis scale : 0.5~ 60ml (depends on reaction vessel)

Stirring system : Strong magnetic stirrer by Ferromagnetic stirrer

Temp. Control range : From -20°C to 160°C (5x independent control, with external Re-circulating Chiller for -20 °C).

Accuracy of Temp. control : ± 0.5°C

Digital display of temperature column and stirring rotation speed and rotation speed range

Pressure monitoring : Independent/individual

Gas flushing : Vacuuming + Infusing Inactive gas

Reflux : Through Cold water manifold

Reagent injection : Pippet, syringe, dripping funnel under inert condition

Observing Window : Through the glass on aluminum block (with LED light)

Safety features : Double chamber, dew receiving tray, variable overheat, protector (x5), low liquid level thermo protector, Temp. Controller self-diagnosis function

Material of liquid contact part : Glass/Teflon

Its should be supplied with the following

Manifold

Aluminum block

Double chamber

Cooling cartridge

With Reactor tube and side neck

Dimroth condenser 5 nos.

Pressure Resistant Vessel 1no.

Pressure Gauge with valve 1 no.

Warranty : one year

Optional

LOW TEMPERATURE CIRCULATOR: 2 numbers

Circulation method : Closed loop

Temp. control range : **-20°C to ambient**

Temp. control accuracy : ± 2°C

Cooling capacity : 1200W -650 W(1030kcal/h) at liquid temp. -10 °C to 10 °C

Pump max. flow (50/60Hz) : 16-18L/min.

Temp. setting & display : Sheet key input digital display

Safety features : Leak/over current breaker; Refrigerator high pressure switch,

protector Overload relay, Refrigerator protection timer, Fuse for service outlet, Temp. Control self diagnosis function, Pump thermal

Bath capacity : 14L or more

NOTE : All above Parts and accessories and optional item should be from the same Manufacturer .

Regarding Optional items:- CSIR-IICB reserves the right for the procurement of optional items/accessories along with the main equipment. The rates quoted by the vendors for optional items as mentioned in the technical specifications of CSIR-IICB will not be considered for evolution purpose for deciding the lowest technically suitable quote. Firms are required to quote the optional items individually and separately.