



Decibel

**SUPERB
TECHNOLOGY**



**Price List 2024-25
Part-1**

**Analytical, Laboratory,
Industrial
Agriculture,
Medical Lab Testing**



**TEAM WORK
QUALITY
EXCELLENCE**



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COD Digestion Apparatus With Auto Time Control & Microprocessor Based PID Temp. Control

In wastewater treatment, the Chemical Oxygen Demand (COD) is an important measurement for the amount of oxygen that is required to break down pollutants (organic substances) in water.

Models	DB-1335	DB-1336
Display	7 Digit LED	7 Digit LED
Temp. Range	Ambient +5°C to 150°C	Ambient +5°C to 200°C
Resolution	1°C	1°C
Accuracy	± 1°C	± 1°C
Timer	Programable up to 999Min.	
Operation End	Auto Off & Buzzer	
Sample Size	20ml. in each Glass Vessel	
Solution Volume Range	0 to 500ppm without dilution, further Samples analyzed using dilution	
Power	230V, ± 10%, 50 Hz AC, Single Phase	



Determination of Chemical Oxygen Demand.

- Solid state block (40mm Dia X 80mm Cavity) heated unit with provision for samples to be digested at a time.
- 36 mm diameter reaction vessels with 20 ml. sample size to heat up to the required temp.
- Supplied with air condensers, Glass reaction vessels. Samples after being digested for 2 hours can be analyzed using calorimeter or conventional titration method.



DB- 1336-06



Accessories

Complete with Digestion tube, Condenser and S.S. Rack.

Ambient +5°C to 150°C			
Model	Block Dimension (L X W X H) mm	Nos. of Cavity	Price in Rs.
DB-1335-06	150 X 100 X 80	6	28,000
DB-1335-12	200 X 150 X 80	12	42,000
DB-1335-15	250 X 150 X 80	15	48,000

Ambient +5°C to 200°C			
Model	Block Dimension (L X W X H) mm	Nos. of Cavity	Price in Rs.
DB-1336-06	150 X 100 X 80	6	34,500
DB-1336-12	200 X 150 X 80	12	50,700
DB-1336-15	250 X 150 X 80	15	57,000

COD Digestion Apparatus With Auto Time Control & Microprocessor Based PID Temp. Control

Wastewater treatment (COD) to break down pollutants (organic substances) in water & for the other Lab applications, Temp. Range up to 200°C with 0.1°C.

Models	DB-1337	DB-1338
Display	Alphanumeric Graphical	Alphanumeric Graphical
Temp. Range	Ambient +5°C to 150°C	Ambient +5°C to 200°C
Resolution	0.1°C	0.1°C
Accuracy	± 1%	± 1%
Timer	Programmable up to 999 Min.	
Operation End	Auto Off & Buzzer	
Sample Size	20ml. in each Glass Vessel	
Solution Volume Range	0 to 500ppm without dilution, further Samples analyzed using dilution	
Power	230V, ± 10%, 50 Hz AC, Single Phase	



Determination of Chemical Oxygen Demand.

- Solid state block (40mm Dia X 80mm Cavity) heated unit with provision for samples to be digested at a time.
- 36 mm diameter reaction vessels with 20 ml. sample size to heat up to the required temp.
- Supplied with air condensers, Glass reaction vessels. Samples after being digested for 2 hours can be analyzed using calorimeter or conventional titration method.

Accessories

Complete with Digestion tube, Condenser and S.S. Rack.



Fast



Dynamic & Versatility



Accuracy



DB- 1338-06

Ambient +5°C to 150°C			
Model	Block Dimension (L X W X H) mm	Nos. of Cavity	Price in Rs.
DB-1337-06	150 X 100 X 80	6	32,700
DB-1337-12	200 X 150 X 80	12	46,200
DB-1337-15	250 X 150 X 80	15	52,500

Ambient +5°C to 200°C			
Model	Block Dimension (L X W X H) mm	Nos. of Cavity	Price in Rs.
DB-1338-06	150 X 100 X 80	6	39,500
DB-1338-12	200 X 150 X 80	12	54,300
DB-1338-15	250 X 150 X 80	15	61,500

DB-1353-1



Leak Test Apparatus is a solid state instrument designed for the leakage testing of food, drug and other industrial chemical products. The instrument is used to test the quality of packing processes in strips, blisters and sachets containing tablets, granulates and liquids. They are also used to check that the seals enclosing the product are perfectly intact. The unit contains a polycarbonate desiccator housing to sustain the vacuum for long time. A compact vacuum pump for creating high vacuum level in short time period is used. Test samples to be analyzed are placed into the polycarbonate desiccator housing. A vacuum pump generates vacuum inside the desiccator. The vacuum generated is held for a pre-set time, and then released. The test samples being analyzed should retain their shape during this test, indicating the sealing is correct. Secondly the strip/bottles under test are immersed in a colored dye solution (normally Methylene Blue). The venting of the desiccators will allow any holes to be penetrated by the dye and the contents of the flexible packaging will also be stained with the same coloring material.

DB-1353-1 Auto Leak Test Apparatus : Digital Dual Display

Rs.57,000

"Run Time" Display of Vacuum Pump (99 Hour & 59 Minute)

Timer Display for Vacuum (99 Hour & 59 Minute) Holding / Testing Time (under vacuum) simultaneously.

Automatic operation, (No Manual Valve operation) Microprocessor, GMP Model, S.S. Body, Audio & Visual , Alarm, With Desiccator 10 inches.

DB-1353-2 Leak Test Apparatus (Manual) : Digital Dual Display

Rs.48,000

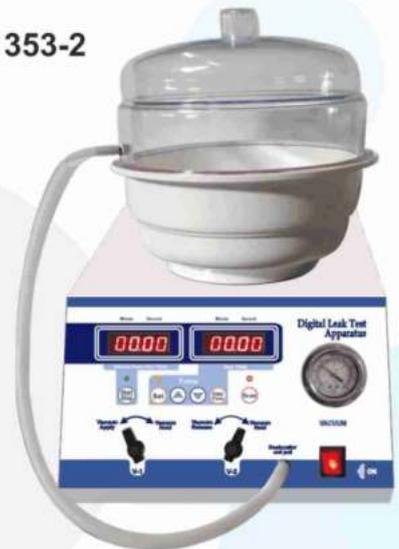
"Run Time" Display of Vacuum Pump (99 Hour & 59 Minute)

Timer Display for Vacuum (99 Hour & 59 Minute)

Holding / Testing Time (under vacuum) simultaneously.

Manual, Fitted with 2 Valve operation GMP Model, S.S. Body, Audio & Visual Alarm, With Desiccator 10 inches.

DB-1353-2



DB-1353-3



DB-1353-3 Leak Test Apparatus (Manual) : Digital Display (Single)

Rs.46,000

99 Hour & 59 Minute Timer Display for Vacuum Holding / Testing Time (under vacuum) .

Manual, Fitted with Single Valve operation GMP Model, S.S. Body, Audio & Visual Alarm, With Desiccator 10 inches.

Optional : Spares / Accessories

1- Desiccator 8" : 5,700-00

3- Desiccator 12" : 7,200-00

2- Desiccator 10" : 6,600-00

4- Silicon Pipe (Out Put) : 570-00
(1.5 Meter)

DB-1344 Digital Tablet Disintegration Test Apparatus
(Double Basket with Water Bath) IP/BP/USP Standard Rs.36,300

- Programmable time with Digital Display & Automatic Temp. Control with PID.
- Auto stop after the set time with audio alarm for enteric coated tablets
- Facility to "Hold / Resume" time and motor movement for Inspection of Sample during operation for quickly disintegration tablets.



DB-1344

- Special low RPM motor for less noise and constant speed.
 - Heating control through Digital PID Temp. Controller
- Up-Down Speed : **30 ± 2 Strokes/min**
 Up-Down Length : **55 ± 5 mm**

Time Control	: Digital (Programmable from 1 sec to 99 hr, 56 min, 59 sec)
Electric Motor	: Low RPM A.C. Motor
No. of Basket	: 2 Basket
Temperature Control	: Digital PID Control
Audio Alarm At Completion	: Yes
Hold & Resume Facility	: Yes
Dimension	: 305X330X385 mm (L X B X H)

DB-1345 Digital Tablet Disintegration Test Apparatus
(Double Basket With Hot Plate) Rs.21,000
Type of Heating : Hot Plate
Other specifications same as per DB-1344. DB-1345


DB-1347

DB-1347
Digital Friability Test Apparatus
(2 Acrylic Drum) Rs.24,600

Measures Obsession strength of Tablet with programmable Timer Rotation Speed 25 RPM, ± 1, Auto & Manual mode of Operation. Digital Display 4 Digit LED. Facility to "Hold" and "Resume" the Running Test, for Inspection of Sample during operation.

DB-1348 Digital Friability Test Apparatus
(1 Acrylic Drum) Rs.19,200
 Other specifications same as per DB-1347

Accessories & Spares on Demand

1- Glass beaker - 1 ltr (set of 2)	:	1,900	3- PT 100 Temp probe for vessel (Model DB-1344)	:	2,800
2- Basket assembly complete with six tubes & discs for (Model DB-1344)	:	3,800	4- Temperature probe for water tank (Model DB-1344)	:	2,800
			5- Spare guided discs (set of 2)	:	1,400

Dry Bath Incubator DB-1317/1318/1324/1325

An ideal instrument for preservation & reaction of samples, amplification of DNA, pre-denaturation of the electrophoresis, Blood serum coagulation in molecular biology/histology/clinical, environmental & industrial settings.

- Display : 16 X 2 Line Alpha Numeric LCD for Time & Temp.
- Temp. Control : PID, Temp.Sensor : Pt100
- Heating Devices : Dry Bath Block, Rock solid Aluminum
- Resolution : 1°C
- Timer : 00:01 Minute to 23:59
- Alarm : End of cycle Buzzer & heater cut off.
- Block size : 24 x 12.5 mm Tube holders,
- Power Supply : 230 V ±10% AC 50 Hz.



DB-1317A & 1317B

Ambient +5 to 70°C
& +5 to 100°C

Model	Temp. Range	Price
DB-1317A	Ambient +5 to 70°C	7,500
DB-1317B	Ambient +5 to 100°C	10,200

DB-1318 Ambient +5°C to 150°C, other specs same as above.



DB-1318B

Model	Temp. Range	Transparent Lid	Price
DB-1318A	Ambient +5 to 150°C	✗	12,000
DB-1318B	Ambient +5 to 150°C	✓	14,700

DB-1319 Ambient +5°C to 200°C, Interchangeable Heating Block, Display : 8 Digit LED, Display Resolution : 1°C, (Different hole size of Sample Holding Block 100X100mm can be fitted.)

- Format : Menu driven,
- Setting : By Soft Touch Keys,
- Heating Devices : Dry Bath Block, Single
- Temp. Sensing Devices : R.T.D. / Pt100
- Accuracy : 1%
- Auto Tuning Facility : Provided
- Timer : 999 Minute Programmable
- Alarm : End of cycle Buzzer & heater cut off.

Model	Temp. Range	Transparent Lid	Price
DB-1319A	Ambient +5 to 200°C	✗	22,800
DB-1319B	Ambient +5 to 200°C	✓	25,500
DB-1320A	Ambient +5 to 150°C	✗	18,300
DB-1320B	Ambient +5 to 150°C	✓	21,000



DB-1324B



DB-1319B



DB-1324 Ambient +5°C to 200°C, Interchangeable Heating Block Display Alphanumeric Graphical, Display Resolution : 0.1°C, (Different hole size of Sample Holding Block 100X100mm can be fitted.)

- Format : Menu driven,
- Setting : By Soft Touch Keys,
- Heating Devices : Dry Bath Block, Single
- Temp. Sensing Devices : R.T.D. / Pt100
- Accuracy : 1%
- Auto Tuning Facility : Provided
- Timer : 999 Minute Programmable
- Alarm : End of cycle Buzzer & heater cut off.

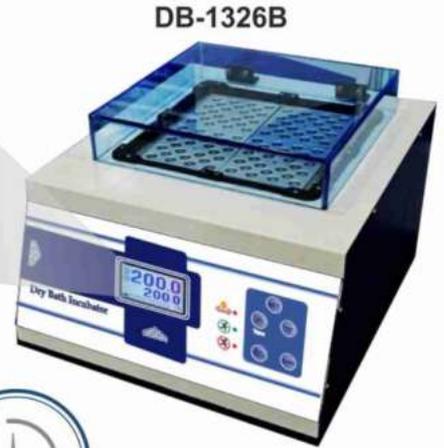
Model	Temp. Range	Transparent Lid	Price
DB-1324A	Ambient +5 to 200°C	✗	25,500
DB-1324B	Ambient +5 to 200°C	✓	27,300
DB-1325A	Ambient +5 to 150°C	✗	21,900
DB-1325B	Ambient +5 to 150°C	✓	23,700

Display : Alpha Numeric Graphical LCD for Time & Temperature
 Display Format : Menu driven,
 Setting : By Soft Touch Keys,
 Heating Devices : Dry Bath Block
 Temp. Sensing Devices : R.T.D. / PT100
 Resolution : 0.1°C
 Accuracy : ± 1%

Process Timer : Programable up to 999 Min.
 Block size : 100 x 100 mm each, Tube holes different Sizes,
 Block Material : Rock solid Aluminum
 Alarm : End of cycle Buzzer & heater cut off.
 Temp. Control : PID Microprocessor Control
 Auto Tunning : Provided
 Power Supply : 230 V ±10% AC 50 Hz.



DB-1326A



DB-1326B



Fast



Dynamic & Versatility



Accuracy

- No process monitoring, as end of cycle buzzer alerts the user after completion of the process and auto process of after achieving set Time.
- Unique one key operation allow ease and convenience of use.
- Interchangeable Blocks 100 X 100 mm with Tube Holes of different sizes can be accommodated.

2 Blocks (Interchangeable) DB-1328 Ambient +5 to 200°C

Model	Temp. Range	Transparent Lid	Price
DB-1328A	Ambient +5 to 200°C	✗	37,200
DB-1328B	Ambient +5 to 200°C	✓	42,600

4 Blocks (Interchangeable) DB-1326 Ambient +5 to 200°C

Model	Temp. Range	Transparent Lid	Price
DB-1326A	Ambient +5 to 200°C	✗	66,000
DB-1326B	Ambient +5 to 200°C	✓	70,500

2 Blocks (Interchangeable) DB-1329 Ambient +5 to 150°C

Model	Temp. Range	Transparent Lid	Price
DB-1329A	Ambient +5 to 150°C	✗	32,700
DB-1329B	Ambient +5 to 150°C	✓	36,200

4 Blocks (Interchangeable) DB-1327 Ambient +5 to 150°C

Model	Temp. Range	Transparent Lid	Price
DB-1327A	Ambient +5 to 150°C	✗	57,000
DB-1327B	Ambient +5 to 150°C	✓	61,500



DB-1328A

Display : LED 8 Digit
Display Format : Menu driven,
Setting : By Soft Touch Keys,
Heating Devices : Dry Bath Block
Temp. Sensing Devices : R.T.D. / PT100
Resolution : 1°C
Accuracy : ± 1%

Process Timer : Programable up to 999 Min.
Block size : 100 x 100 mm each, Tube holes different Sizes,
Block Material : Rock solid Aluminum
Alarm : End of cycle Buzzer & heater cut off.
Temp. Control : PID Microprocessor Control
Auto Tuning : Provided
Power Supply : 230 V ±10% AC 50 Hz.



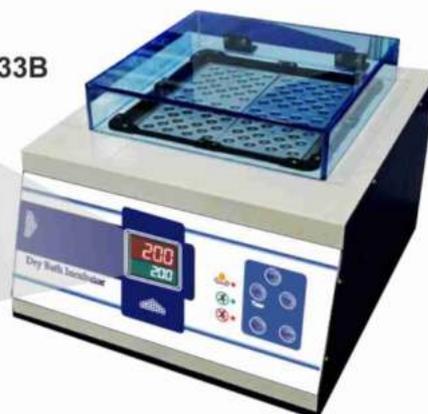
DB-1333A

4 Blocks (Interchangeable)
DB-1333 Ambient +5 to 200°C

Model	Temp. Range	Transparent Lid	Price
DB-1333A	Ambient +5 to 200°C	✗	57,000
DB-1333B	Ambient +5 to 200°C	✓	61,500



DB-1333B



2 Blocks (Interchangeable)
DB-1331 Ambient +5 to 200°C

Model	Temp. Range	Transparent Lid	Price
DB-1331A	Ambient +5 to 200°C	✗	32,700
DB-1331B	Ambient +5 to 200°C	✓	36,300

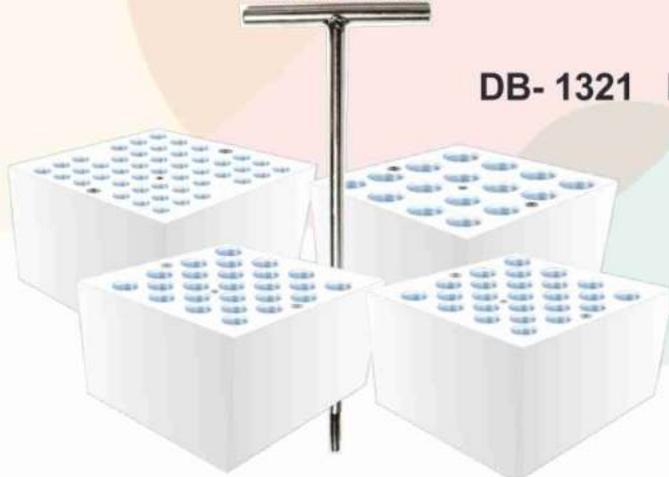
4 Blocks (Interchangeable)
DB-1332 Ambient +5 to 150°C

Model	Temp. Range	Transparent Lid	Price
DB-1332A	Ambient +5 to 150°C	✗	48,000
DB-1332B	Ambient +5 to 150°C	✓	52,500

2 Blocks (Interchangeable)
DB-1330 Ambient +5 to 150°C

Model	Temp. Range	Transparent Lid	Price
DB-1330A	Ambient +5 to 150°C	✗	28,000
DB-1330B	Ambient +5 to 150°C	✓	32,700

Block Lifter



DB- 1321 Dry Block for Interchangeable Dry Bath
Block Size- 100 X 100mm

Model	Block Size (L X W) mm	No. of Holes	Test Tube Size	Price in Rs.
DB-1321-24	100 X 100	24	12.5 mm	4,800-00
DB-1321-36	100 X 100	36	10.5 mm	4,800-00
DB-1321-16	100 X 100	16	18.0 mm	4,800-00
DB-1321-48	100 X 100	48	7.5 mm	4,800-00

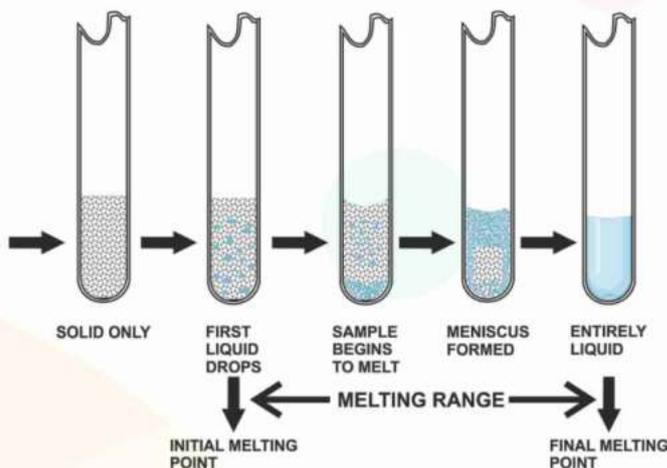
Melting / Boiling Point Apparatus

DB-1290/1291

All Models are Microprocessor Controlled. Automatic Ramp rate / PID technology. Auto gradient rate of heating control for high precision. "HOLD action (Melting Point Temp. achieved) is protected from power failure in all Models. Useful for Pharmaceutical Industry, Chemical / Plastic Industries etc.

DB-1290 Melting/ Boiling Point Apparatus Microprocessor Controlled :
Suitable for Dark Colored / any colored samples.

Rs.18,300



DB-1290

Temp. Range : Ambient to 350°C

Display : 4 Digits LED

Resolution : 1°C

Temp. Sensor : Grade "A" PT-100, Platinum Sensor

Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point.

Application Area : Miniature Furnace Module

Application : Suitable for Boiling & Melting Point

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key .

Heating Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating

Ramp Rates : Auto Adjustable (by selection, Low - Auto - High)

Power Supply : 230 V ± 10% AC, 50 Hz.

(Dimension : 36 X 29 X 24 Cm.) Weight : 6 Kg.

DB-1291 Melting/ Boiling Point Apparatus, Microprocessor Controlled :
Suitable for Dark Colored / any colored samples.

Rs.28,200



DB-1291

Temp. Range : Ambient to 350°C

Display : LCD, 16 X 2 Lines Alphanumeric Display

Resolution : 0.1°C

Temp. Sensor : Grade "A" PT-100, Platinum Sensor

Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point.

Application Area : Miniature Furnace Module

Application : Suitable for Boiling & Melting Point

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key & reading is protected from power failure till "RESET" is not activated.

Temp. Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating

Ramp Rates : Auto Adjustable (by selection, Low - Auto - High)

Serial Interface : USB to PC

Memory : 100 Samples with Location

Power Supply : 230 V ± 10% AC, 50 Hz.

(Dimension : 36 X 29 X 24 Cm.)

Weight : 6 Kg.

DB-1292 Melting/ Boiling Point Apparatus
Microprocessor Controlled :

Rs.37,200

Suitable for Dark Colored / any colored samples.

Temp. Range : Ambient to 350°C
Display : 128 X 64 Graphical LCD Display
Resolution : 0.1°C
Temp. Sensor : Grade "A" PT-100, Platinum Sensor
Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point.

Application Area : Miniature Furnace Module
Application : Suitable for Boiling & Melting Point

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key & reading is protected from power failure till "RESET" is not activated.



Temp. Control & Ramp. Rate Heating	Microprocessor controlled closed loop PID, Multi selection Programable Ramp Rate Heating 2°C to 40°C/minute by UP/ DOWN keys, can be increased or decreased during running / operation and Auto selection is also provided.
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Serial Interface	: USB to PC
Memory	: 1000 Samples with Location
Power Supply	: 230 V ± 10% AC, 50 Hz.
Dimension	: 36 X 29 X 24 Cm.
Weight	: 6 Kg

The instrument basically consists of a Miniature Furnace with Automatic Ramp Rate of Heating, Microprocessor Controlled, Visual facility is provided through Magnifying display of melting operation under front & rear illumination controlled (Light intensity adjustable) with the help of magnifying glass. Melting point reading put on hold as soon as the melting of sample visualize, by activating to press the "MELT" key. The instrument gives audio & visual indications & reading is protected from power failure till "RESET" is not activated. The Furnace becomes off and the cooling fan ON automatically. Melting Temperature of the sample remains displayed on the panel till the "RESET" switch is operated. Suitable for Dark Colored / all kind or any colored Samples. Temp. effect on viscosity / flow points and molecular weights by Rast's method with suitable accessories can be measured.

DB-1293 Melting/ Boiling Point Apparatus Microprocessor Controlled :

Specification same as DB-1292 with Camera Attachment and TFT Display Screen to view samples in capillaries with high resolution Camera.

Rs.42,600

Suitable for Dark Colored / any colored samples.

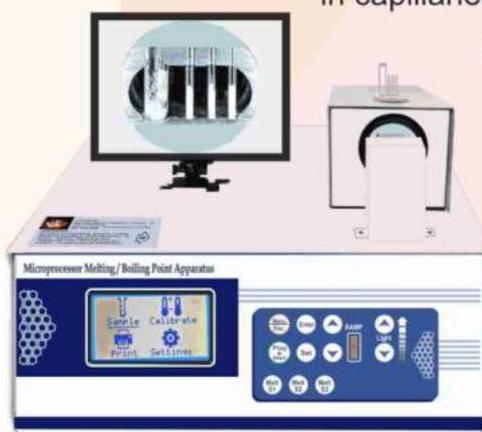
Temp. Range : Ambient+5°C to 350°C
Display : 128 X 64 Graphical LCD
TFT Screen : High resolution camera for viewing capillaries

Melting View with Camera

Front & Rear Glare-free illumination and Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "S1, S2 & S3" key for each sample & reading is protected from power failure.

Size : 36 X 29 X 30 Cm.

Weight : 6 Kg.



DB-1293

With Silicon Oil Bath & Motorized propeller

DB-1294 Melting/ Boiling Point Apparatus Microprocessor Controlled : Rs.24,600
Suitable for Dark Colored / any colored samples.

Automatic Ramp Rate Heating. The unit consists of in built Motorized stirrer with variable speed control, glare free background illuminator and cylindrical silicon oil bath. The silicon oil bath consists of a plain cylindrical container of toughened glass having capacity of about 200 ml. It is top covered with a Teflon cover fitted with special type of oil immersion heater, having three small holes for holding the capillaries and 6mm hole for Test tube Sample, for the determination of boiling point of any liquid. The apparatus can be used for determination of boiling points, Temp. effect on viscosity / flow points and molecular weights by Rast's method with suitable accessories.

Temp. Range : Ambient to 300°C
Display : 4 Digits LED
Resolution : 1°C
Temp. Sensor : Grade "A" PT-100, Platinum Sensor
Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point.
Application Area : Silicon Oil Bath (Made of high Temp. Toughened Glass)
Application : Suitable for Boiling & Melting Point

Motorized Stirring : A high quality Motorized propeller fitted, instead of Magnetic Stirring (due to demagnetization of Magnetic Stirring Bead in high Temp. oil) for uniform Temp..

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key & reading is protected from power failure till "RESET" is not activated.

Temp. Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating

Ramp Rates : Auto Adjustable
(by selection, Low - Auto - High)

Power Supply : 230 V \pm 10% AC, 50 Hz.
(Dimension : 36 X 29 X 42 Cm.)

Weight : 15 Kg.



DB-1294

DB-1295 Melting/ Boiling Point Apparatus Microprocessor Controlled : Rs.30,900
Suitable for Dark Colored / any colored samples.

Temp. Range : Ambient to 300°C
Display : LCD, 16 X 2 Lines Alphanumeric Display
Resolution : 0.1°C
Temp. Sensor : Grade "A" PT-100, Platinum Sensor

Motorized Stirring : A high quality Motorized propeller fitted, instead of Magnetic Stirring (due to demagnetization of Magnetic Stirring Bead in high Temp. oil) for uniform Temp..

Temp. Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating

Ramp Rates : Auto Adjustable
(by selection, Low - Auto - High)

Serial Interface : USB to PC

Memory : 100 Samples with Location

Other Specifications same as DB-1294



DB-1295

With Silicon Oil Bath & Motorized propeller

DB-1296 Melting/ Boiling Point Apparatus Microprocessor Controlled :

Rs.42,600

Suitable for Dark Colored / any colored samples.

Selectable Ramp Rate Heating. The unit consists of in built Motorized stirrer with variable speed control, glare free background illuminator and cylindrical silicon oil bath. The silicon oil bath consists of a plain cylindrical container of toughened glass having capacity of about 200 ml. It is top covered with a Teflon cover fitted with special type of oil immersion heater, having three small holes for holding the capillaries and 6mm hole for Test tube Sample, for the determination of boiling point of any liquid. The apparatus can be used for determination of boiling points, Temp. effect on viscosity / flow points and molecular weights by Rast's method with suitable accessories.

Temp. Range : Ambient to 300°C

Display : 128 X 64 Graphical LCD Display

Resolution : 0.1°C

Temp. Sensor : Grade "A" PT-100, Platinum Sensor

Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point.

Application Area : Miniature Furnace Module

Application : Suitable for Boiling & Melting Point

Motorized Stirring : A high quality Motorized propeller fitted stirring for uniform Temp., instead of Magnetic Stirring (due to de-magnetization of Magnetic Stirring Bead in high Temp. oil)

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain Free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key.

DB-1296



Temp. Control & Ramp. Rate Heating

Microprocessor controlled closed loop PID, Multi selection Programable Ramp Rate Heating 2°C to 40°C/minute by UP/ DOWN keys, can be increased or decreased during running / operation and Auto selection is also provided.

Serial Interface : USB to PC

Memory : 100 Samples with Location

Power Supply : 230 V ± 10% AC, 50 Hz.

(Dimension : 36 X 29 X 24 Cm.)

Weight : 15 Kg.

**DB-1297 Melting/ Boiling Point Apparatus
Microprocessor Controlled :**

Rs.48,000

DB-1297

**Suitable for Dark Colored / any colored samples.
Specification same as DB-1296 with Camera View.
Attachment and TFT Display Screen to view samples
in capillaries with high resolution Camera.**

Temp. Range : Ambient+5°C to 300°C

Display : 128 X 64 Graphical LCD

TFT Screen : High resolution camera for viewing capillaries



Temp. Control & Ramp. Rate Heating

Microprocessor controlled closed loop PID, Multi selection Programable Ramp Rate Heating 2°C to 40°C/minute by UP/ DOWN keys, can be increased or decreased during running / operation and Auto selection is also provided.

Melting Point Apparatus Automatic DB-1298/1299/1300

Sample should be transparent at the time of melting, not Suitable for Dark Colored Samples .
OPERATION : Fully Automatic "Sample Fill and Forget" : All the selection of programming is fully protected from power failure including "HOLD" action of melting temperature. Once the start action is initiated, it will reach to find out the melting point of sample, even multiple time power failure.

DB-1298 Automatic Melting Point Apparatus, Microprocessor Controlled : Rs.28,200
Miniature Furnace Type, Temp. Range : Ambient to 350°C
 Opto-coupled I.R. Transmission based. Only Crystalline sample (Sample required to be transparent at the time of melting, not Suitable for Dark/ Colored Samples).



- DB-1298**
- Temp. Range : Ambient to 350°C
 - Display : 3 Digits LED, Resolution : 1°C
 - Temp. Sensor : Grade "A" PT-100, Platinum Sensor
 - Sample Capacity : One Sample , Capillary Dimension : 1.4 mm
 - Heating Area : Miniature Furnace Module
 - Application : Suitable for Melting Point only
 - Temp. Control : Auto Ramp Rate Heating 2°C to 10°C/minute (through selection, Low- Auto-High)
 - Operation : Auto determination of Melting Point
 - Power Supply : 230 V ± 10% AC, 50 Hz.
 - Dimension : 30 X 30 X 15 Cm. Weight : 5 Kg.

DB-1299 Automatic Melting Point Apparatus, Microprocessor Controlled : Rs.32,700
Miniature Furnace Type, Temp. Range : Ambient to 350°C
 Opto-coupled I.R. Transmission based. Only Crystalline sample (Sample required to be transparent at the time of melting, not Suitable for Dark/ Colored Samples).

- Temp. Range : Ambient to 350°C
- Display : LCD, 16 X 2 Lines alphanumeric Display
- Resolution : 0.1°C
- Temp. Sensor : Grade "A" PT-100, Platinum Sensor
- Sample Capacity : One Sample ,
- Capillary Dimension : 1.4 mm
- Heating Area : Miniature Furnace Module
- Application : Suitable for Melting Point only
- Serial Interface : USB to PC
- Memory : 100 Samples with Location
- Operation : Auto determination of Melting Point
- Power Supply : 230 V ± 10% AC, 50 Hz.
- Dimension : 30 X 30 X 15 Cm. Weight : 5 Kg.



DB-1300 Automatic Melting Point Apparatus, Rs.36,300
 Graphical Display, Temp. Range : Ambient to 350°C : Opto-coupled I.R. Transmission based.
 Only Crystalline sample(Sample required to be transparent at the time of melting).



- DB-1300**
- Temp. Range : Ambient to 350°C
 - Display : 128 X 64 Graphical LCD Display
 - Resolution : 0.1°C
 - Temp. Sensor : Grade "A" PT-100, Platinum Sensor
 - Sample Capacity : 1 Sample , Capillary Dimension 1.4 mm
 - Application Area : Miniature Furnace Module
 - Application : Suitable for Melting Point only.
 - Operation : Auto determination of Melting Point.
 - PC Interface : USB to PC
 - Memory : 1000 Samples with Location

Temp. Control & Ramp. Rate Heating	Microprocessor controlled closed loop PID, Multi selection Programable Ramp Rate Heating 2°C to 40°C/minute by UP/ DOWN keys, can be increased or decreased during running / operation and Auto selection is also provided.
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Power Supply : 230 V ± 10% AC, 50 Hz.
 (Dimension : 36 X 29 X 24 Cm. Weight : 6 Kg.

DB-1301/1302/1303

With Silicon Oil Bath & Magnetic Stirrer

(Alternative Models) Fitted with Magnetic Stirrer, Suitable for Dark Colored / any colored samples.

General Specification : Temp. Range : Ambient to 300°C, Temp. Sensor : Grade "A" PT-100, Platinum
 Sample Capacity : 3+1 provision for Samples (one 6mm) Test Tube, for the determination of Boiling Point & Melting Point

Melting View : Front & Rear Glare-free illumination and Large Magnifier for Stain free Observation of melting operation, Melting / Boiling point reading is to be hold on by activating the "HOLD" key.

Magnetic Stirring : A Magnetic (Fitted with Magnetic Stirrer) coupled Teflon Bead stirring for uniform Temp..
 Power Supply : 230 V ± 10% AC, 50 Hz. (Dimension : 36 X 29 X 42 Cm.) Weight : 15 Kg.

The silicon oil bath consists of a plain cylindrical container of toughened glass having capacity of about 200 ml. It is top covered with a Teflon cover fitted with special type of oil immersion heater, having three small holes for holding the capillaries and 6mm hole for Test tube Sample, for the determination of boiling point of any liquid . The apparatus can be used for determination of boiling points, Temp. effect on viscosity / flow points and molecular weights by Rast's method with suitable accessories.

DB-1301

Display : 4 Digits LED, Resolution : 1°C
 Temp. Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating Ramp Rates : Auto Adjustable (by selection, Low - Auto - High)

Rs.22,800



DB-1301

DB-1302



DB-1302

Display : LCD, 16 X 2 Lines Alphanumeric, Resolution : 0.1°C
 Temp. Control : Microprocessor controlled closed loop PID, Automatic Ramp Rate of Heating Ramp Rates : Auto Adjustable (by selection, Low - Auto - High)
 Serial Interface : USB to PC
 Memory : 100 Samples with Location

Rs.28,200

DB-1303

Display : 128 X 64 Graphical LCD Display
 Resolution : 0.1°C

Rs.39,000



DB-1303

Temp. Control & Ramp. Rate Heating	Microprocessor controlled closed loop PID, Multi selection Programable Ramp Rate Heating 2°C to 40°C/minute by UP/ DOWN keys, can be increased or decreased during running / operation and Auto selection is also provided.
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Serial Interface : USB to PC
 Memory : 1000 Samples with Location

DB-1315 KARL FISCHER AUTO TITRIMETER Microprocessor

Measuring Range : 10 ppm to 999999 ppm, 0% to 100% of moisture Rs.84,000

Measuring Method : Karl Fischer Volumetric / Colorimeter

Titration Method

K.F. Dispensing System : Highly sensitive motorized dispensing system

Resolution of Titrant Volume : 0.01 ml

Indication of Titrant Volume : 0.00 to 99.99 ml

Auto Moisture content Calculation : 0.00% to 100%,
10 to 999999 ppm,
0.00 to 999.99 ppm

Calibration : Auto K.F. Titer/ Factor calculation

End Point Indication : Audio

Utilization environmental Temp. : 5-40 °C, Humidity : < 85%

Wait time for End Point : Adjustable : 1 to 99 seconds

Key Pad : 20 Keys
Display : 128 X 64 Graphical LCD
Data Storage : 1000 samples
PC Connection Compatibility : USB Hyper Terminal
Clock : In-Built clock with date & time display

Stirrer : In Built Magnetic Stirrer with adjustable speed.

Reagent Bottles : 250 ml bottles for KF Reagent, Methanol,
& Calcium Chloride,

PC Interface : USB to PC
Power Supply : 12V/ 2A DC, Power Adopter supplied
Dimension : 385 X 290 X 140 Weight : 12 Kg.



DB-1315



DB-1314

DB-1314 KARL FISCHER AUTO TITRIMETER

Rs.22,800

Display : Array of 10 LED in Line
Sample Size : 1 to 50 mg of water
Indication : RUN ADD END Display in Auto Mode
K. F. Flow : Highly Sensitive solenoid control valve for automatic control of K. F. Reagent.

K. F. Dispensing Resolution : 0.05 ml.

Detection : Current Sensing by Electronic Control.

Measuring Electrode : Dual Platinum electrode

Titration Cell : Air Tight 200 ml. Glass Vessel.

End Point Delay : 30 Seconds

Timer : Adjustable Timer

Stirrer : Variable speed magnetic stirrer with ON/OFF control

Buzzer : Yes

Burette : Pressure filling auto zero burette with 0.05 ml. Resolution

Power Supply : 230 V, 10% AC, 50 Hz.

Dimension : 385 X 290 X 140

Weight : 12 Kg.

Accessories on Demand for DB-1315

Accessories on Demand for DB-1314

1-Titration Vessel (Set of 3)	1,900
2-Dispensing Tube (Set of 5)	800
3-Dual Platinum Electrode	5,250
4-Connecting Tube (Per Set)	800
5-Reservoir Bottle 250ml (Amber Glass)	1,800
6-Clear Glass Bottle 250ml (Set of 2)	3,000
7-Magnetic Capsule (Set of 3)	500

1-Dual Platinum Electrode	3,250
2-Reservoir Bottle 500ml (Clear Glass)	900
3-Burette Clear Glass(10ml)	2,200
4-Rubber Bellow	500
5-Magnetic Capsule (Set of 3)	500

General Specifications :

Wavelength Range: 190 to 1100 nm (1200 Lines/mm Grating)
 Spectral Bandwidth : 1 nm, Scanning Speed : Fast /Medium/Slow
 Photometric Range : -0.3, -3.5A, 0-220%T, Working Mode : T, A, C, E
 Optical System : Double Beam, C-T Configuration diffraction grating monochromator,
 Double Beam ratio recording system.
 Lamp : Pre-aligned long life Shimadzu Deuterium Lamp, Fuji Long Life Time
 Halogen Tungsten Lamp.
 Detector : Dual Silicon Photodiode,
 Photometric Accuracy : $\pm 0.3\% T$ (0~100%T), $\pm 0.002 A$ (0~0.1 A)
 Wavelength Reproducibility : $< 0.2 \text{ nm}$, Photometric Reproducibility : $< 0.15\% T$
 Noise : $\pm 0.001 A$ (At 500 nm, after warming up), Interface to PC : U.S.B. out put
 Analysis Software : DNA/ Protein, Derivatives, Quantitative & Qualitative
 Power Supply : 230 V $\pm 10\%$ AC, 50 Hz.

DB-1250 : Double Beam UV-VIS Spectrophotometer : **Rs.4,35,000** (Variable Bandwidth & 8 Cell Holder)

Fully automatic operations, advance circuit measurement and control system make the instrument of high reliability and low noise . Range 190-1100 nm, automatic 8 cell changer & variable Bandwidth, automatic wavelength calibration & wave length scan, automatic peak picking & spectrum display. Large screen with graphic display. Spectrum and data can be printed out by printer and sent to computer via USB port. SOFTWARE included.

DB-1250



DB-1251

DB-1251 : Double Beam UV-VIS Spectrophotometer : (8 Cell Holder)

Rs.3,90,000

Microprocessor and control system make the instrument highly reliable and low noise . Range 190-1100 nm, basic/ quantitative wavelength scan / DNA Protein Test / Kinetic, , automatic peak picking & spectrum display. Large colored screen with graphic display. Spectrum and data can be printed out by printer and sent to computer via USB port. SOFTWARE included.

DB-1252 : Double Beam UV-VIS Spectrophotometer : (2 Cell Holder)

Rs.3,54,000

Hi-tech circuit measurement and control system make the instrument of high reliability and low noise . Range 190-1100 nm. Basic/quantitative wavelength scan/DNA, Protein Test Kinetic, automatic peak picking & spectrum display. Large colored screen display. Spectrum and data can be printed out by printer and sent to computer via USB PORT. SOFTWARE INCLUDED .



DB-1252



DB-1253

DB-1253 : Double Beam UV-VIS Spectrophotometer : (Touch Screen)

Rs.3,25,000

Microprocessor and control system make the instrument highly reliable and low noise . Range 190-1100 nm. Basic/quantitative wavelength scan/DNA, Protein Test Kinetic, automatic peak picking & spectrum display. Large colored **Touch screen** display. Spectrum and data can be printed out by printer and sent to computer via USB PORT. SOFTWARE INCLUDED .

DB-1254 : Double Beam UV-VIS Spectrophotometer : (Xenon Lamp)

Rs.6,25,000

Hi-tech circuit & Advanced measurement / control system make the instrument highly reliable and low noise . Range 190-1100 nm. Basic/quantitative wavelength scan/DNA, Protein Test Kinetic, automatic peak picking & spectrum display. Large colored **screen** display. Spectrum and data can be printed out by printer and sent to computer via USB PORT. SOFTWARE INCLUDED .



DB-1254

Spectrophotometers UV-VIS Single Beam Microprocessor



DB-1263

DB-1263 : Spectrophotometer UV-VIS Single Beam:

Display : 4 Digit LCD (Single Line Display) **Rs.1,29,000**
 Wavelength Range: 200 to 1000 nm (1200 Lines/mm Grating)
 Spectral Bandwidth : 2 nm,, Wavelength Accuracy : $\pm 0.5 \text{ nm}$,
 Photometric Range : %T : 0 to 100%, Abs : 0 to 1.999, Conc.: 0 to 1999, K : 0 to 1.999
 Resolution: 0.1 nm, Repeatability: $\pm 0.1 \text{ nm}$
 Range Selection : Automatic Digital, Photometric Accuracy: $\pm 0.1\% T$
 Optical System : Single Beam,

DB-1263 Continued...

Lamp : Pre-aligned long life Shimadzu Deuterium Lamp, Fuji Long Life Time Halogen Tungsten Lamp.
 Detector: Dual Silicon Photodiode, Readability : $\pm 0.3\% T$
 Stray Light: $< 0.3\% T$, Stability : $\pm 0.001 A/h$ (At 500 nm, after warming up)
 Standard Cell Holder : 4-position 10 mm cell changer, Interface to PC : U.S.B. / RS-232 out put
 Sample Holder : 4 Position adjustable sample holder, Power Supply : 230 V $\pm 10\%$ AC, 50 Hz.
 Dimension: 420 X 350 X 240 mm (approx.) Weight: 10 Kg (approx.)

DB-1260 : Spectrophotometer UV-VIS Single Beam: (Advance Model)

Rs.1,47,000

Display: 128 X 64 Graphical LCD

Wavelength Range : 190 to 1100 nm (1200 Lines/mm Grating)
 Spectral Bandwidth : 2 nm,, Wavelength Accuracy : ± 0.5 nm,
 Photometric Range : %T: 0 to 100%, Abs : 0 to 1.999, Conc.: 0 to 1999, K: 0 to 1.999
 Resolution: 0.1 nm, Repeatability: ± 0.1 nm

Range Selection : Automatic Digital, Photometric Accuracy: $\pm 0.1\% T$,
 Optical System : Single Beam,

Lamp : Pre-aligned long life Shimadzu Deuterium Lamp,
 Fuji Long Life Time Halogen Tungsten Lamp.

Detector : Dual Silicon Photodiode, Readability : $\pm 0.3\% T$,

Stray Light: $< 0.3\% T$,
 Stability: $\pm 0.002 A/h$ (At 500 nm, after warming up),

Standard Cell Holder : 4-position 10 mm cell changer

Interface to PC : U.S.B. / RS-232 out put,

Sample Holder : 4 Position adjustable sample holder

Power Supply : 230 V $\pm 10\%$ AC, 50 Hz.

Dimension : 420 X 350 X 210 mm (approx.) Weight: 12 Kg (approx.)

DB-1260



Spectrophotometer Visible Single Beam (VIS)

DB-1270 Microprocessor Spectrophotometer (VIS)

Rs.57,000



DB-1270

Display : LCD, Wavelength Range : 340 to 1000 nm
 Spectral Bandwidth : 2 nm, Wave Length Accuracy : ± 3 nm
 Repeatability : ± 2 nm, Resolution : 1 nm
 Out Put Range: Abs. (OD) : 0.097- to 2.000A, %T: 0-100, Conc.: 0-1999.
 Resolution: %T : 0.1 %T, Abs : 0 to 0.001, Conc.: 1,
 Direct Concentration measurement : Yes Available
 Monochromator : 600 Lines / mm, Lamp : Tungsten-Halogen Lamp 12V/20W
 Detector : Silicon Photodiode
 Readability : $\pm 0.3\% T$, Stray Light: $< 0.3\% T$
 Stability : $\pm 0.002 A/h$ (At 500 nm, after warming up)
 Standard Cell Holder : 4-position 10 mm cell changer
 Interface to PC : U.S.B. / RS-232 window operated Software
 Sample Holder : 4 Position adjustable sample holder
 Power Supply : 230 V $\pm 10\%$ AC, 50 Hz.

DB-1274 Digital Spectrophotometer (Double Display) :

Rs.30,000

Display : Data : 4 Digit, W.Length : 3 Digit
 Wavelength Range : 340 to 960 nm, Spectral Bandwidth : 5 nm
 Wave Length Accuracy : ± 3 nm, Repeatability : ± 2 nm
 Resolution : 1 nm
 Out Put Range : %T: 0 to 100%, Abs : 0 to 1.999, Conc.: 0 to 1999,
 Resolution : %T: 0.1 %T, Abs : 0 to 0.001, Conc. : 1,
 Direct Concentration measurement : Yes Available
 Monochromator : 600 Lines / mm
 Lamp : Tungsten-Halogen Lamp 6V/10W
 Detector : Silicon Photodiode, Readability : $\pm 0.3\% T$
 Stray Light : $< 0.3\% T$,
 Stability : $< \pm 0.01 A/h$ (At 500 nm, after warming up)
 Standard Cell Holder : Single position 10mm cell Holder, (50-100 mm optional)
 Power Supply : 230 V $\pm 10\%$ AC, 50 Hz.



DB-1274

Dimension : 485 X 295 X 190 mm (approx.),

Weight : 8.5 Kg (approx.)

DB-1276 : Atomic Absorption Spectrophotometer (Double Beam) Rs.12,63,000

Atomic Absorption Spectrophotometer Ebert type monochromator with 1200 lines/mm holographic grating,

0 to 2nm SBW, 190-900nm Wavelength range. 8 hollow cathode Lamp turret assembly with modulated eight independent power supplies.

Built in background corrector in the system using high intensity and high speed Deuterium lamp.

Automatic calibration using up to maximum 10 standards and recalibration with a single standard. Direct concentration readout using different modes (K- Factor Linear regression and Quadratic regression).

Display of the signal energy in the form of BAR signal and numeric form. ABS. % TRANS and CONG display facility.

Absorbance range from 0 to 3.0 ABS. Titanium Burner of 100 mm Air-acetylene and 50 mm N₂ - Acetylene Flames. Corrosion resistant nebulizer with Platinum-Iridium capillary, Impact bead. Supplied with computer interface software, cylinder, regulator, 3 standard lamps & compressor.



DB-1276

DB-1236 Fluorometer Digital : Rs.66,000



DB-1236

Display : 3 Digits,	Excitation Source : 12V, 50W Tungsten Halogen Lamp
Sensitive Range :	Adjustable in 4 Ranges
Primary Filters :	Corning 5840 and Corning 5113 mounted on holders
Secondary Filters :	Corning 4308, Corning 3486 & Corning 3385 mounted on holders.
Detector :	Highly Sensitive wide range Photo Diode/ Cell
Sample Test Tube :	15mm (D) X 80mm (H)
Sample Volume Minimum :	4 ml
Power Supply :	230 V ± 10% AC, 50 Hz.
Dimension : 262 X 340 X 165 mm (Approx.)	Weight:5 Kg. (Aprox.)

Flame Photo Meters

General Specifications :

Filter	Standard/Regular		Optional		Compressor Unit
	Na	K	Ca	Li	
Range	0 to 100 ppm	0 to 100 ppm	15 to 100 ppm	10 to 100 ppm	Air Supply : Oil Free Compressor Combustion : By Precision Regulator to control LPG feeding
Sensitivity	5 ppm	5 ppm	10 ppm	10 ppm	

Readout : 2½ Digit Bright Red LED Display,	Repeatability: ± 2 Counts
Display : Single & Dual Display,	Detector: Silicon Photo Diode
Accuracy : ± 2% upto 40 ppm, ± 5% above 40 ppm,	Ignition System: Auto Ignition
Filters : Narrow Band Interference Glass Filters,	Warm up Time: 10 Minutes
Nebulizer : Black Bakelite, Axial Flow Type,	
Flame System : LPG and Dry oil free air,	
Power Supply : 230 V ± 10% AC, 50 Hz.,	
Accessories: Complete with Na & K Filter, Sample Holder, Air/ Gas Tubing along with Clamps, Chimney, 1 mm Silicon Tube for suction of sample liquid & Instruction Manual.	

DB-1140 Flame Photometer Digital : Rs. 33,600-00 (Single Display) With filters (Na & K)

2½ digit LED display (ppm) along with compressor and other accessories,
Optional : Ca & Li filters can also be provided on request/ extra cost.

DB-1141 Flame Photometer Digital : Rs. 37,200-00 (Dual Display) With filters (Na & K)

All specifications are same as DB- 1140 but Dual Display,
(Na & K) can be measured at a time.
Optional : Ca & Li filters can also be provided on request/ extra cost.

DB-1141



DB-1142 Flame Photometer Microprocessor Based : Rs.78,000

MODE	General	Serum	Urine
	Na: 0 - 100 ppm, Up to 250 meq/L, 1 : 100 dil	Na: 0 - 200 ppm 1 : 100 dil	Na: 0 - 250 ppm 1 : 100 dil
	K : 0 - 100 ppm Up to 250 meq/L, 1 : 100 dil	K : 0 - 10 ppm 1 : 100 dil	K: 0 - 100 ppm 1 : 100 dil
	Ca : 0 - 100 ppm Up to 250 meq/L, 1 : 100 dil	—	Ca: 0 - 100 ppm 1 : 2 dil
	Li : 0 - 100 ppm Up to 250 meq/L, 1 : 100 dil	Li : 0 - 2 ppm 1 : 5 dil	—
Sensitivity	General: Na : 0.5 ppm, K : 0.5 ppm, Li : 0.5 ppm, Ca : 15 ppm		
Filters	Na & K,	Ca & Li (Optional if Ordered)	

Resolution : 0.1 ppm/ meq
 Reproducibility : < 1% coefficient of variation for 20 consecutive samples using 10 ppm, Na set as maximum standard.
 Curve Fit Accuracy : < 2% error when 3ppm Na/K and 5ppm Li, set as max. Standard.
 Display : 128 X 64 Graphical LCD, Average Time : In built Software
 Flame System : LPG and Dry Oil free Air,
 Detector : Highly Sensitive Silicon Photo Diode
 Calibration : Up to 5 point calibration with curve fitting Software.
 Gas Control : Adjustable with knob
 Flame Failure : Auto Detection
 Gas Cut Off : Gas feeding, auto cut off in case of Power Failure
 Ignition System : Auto Ignition
 RS-232 : Provision for Data Transfer to PC
 Power : 230 V ± 10%, 50 Hz AC
 Dimension : 280 X 250 X 210 mm (L X W X H) Weight:7.4 Kg (approx.)

Compressor Unit
 Air Supply : By oil free mini Compressor unit with pressure Regulator
 Combustion : LPG controlled by precision Regulator
 Power : 230 V ± 10%, 50 Hz AC
 Dimension : 290 X 250 X 210 mm (L X W X H) Weight : 8 Kg (approx.)



There are some additional accessories, which are essential for the operating of Instrument and has to be arranged by Customer as listed below.

1. LPG Gas Cylinder
2. Gas Regulator, required to be attached at the top/ nozzle of the Gas Cylinder.
3. Gas Pipe for LPG connection, from Gas Cylinder/ Regulator to the Instrument.

Optional : 1. "Ca" & "Li" Filter can be supplied on extra cost of each : Rs. 7,500-00

DB-1308 Bomb Calorimeter Digital Microprocessor

Rs.1,56,000

Automatic measurement & Mathematical calculation of calorific value/ water equivalent. USB interface for sending data to PC. Full test report print out by inbuilt thermal printer. Weight of sample, water equivalent & sensitivity can be set through keypad on single page. Fuse wire open indication on LCD screen. Fuse wire & cotton error adjustable.No paper or printer door open detection. Auto indication on firing as well as after the test completed. Automatic detection of temperature rise & fall.

Display : 128 X 64 Graphical LCD
 Keypad : 20 keys
 Temp. Resolution : 0.001 °C
 Internal Memory : 1000 logs with date and time
 Interface : USB interface to PC
 Printer : Inbuilt Thermal Printer
 Time Clock : Real time clock
 Power Supply : 230V± 10%, 50Hz.AC



DB-1309 Bomb Calorimeter Digital Semi-automatic

Rs.93,000

Display : LED
 Temp. Resolution : 0.01 °C
 Temp. Sensor : RTD
 Calculation : Manual
 Power Supply : 230V± 10%, 50Hz.AC

General Specification

Display : 16 x 2 Alphanumeric LCD, Operational Keys : Soft touch keys
 Power Supply : Mains cum Battery operated with rechargeable cell, at least 8 hours working after Single full recharge. Fitted in brief Case, Useful for field and as well as Laboratory use.
 Storage : 1000 Samples with Date & Time, Error Indication : pH Error, Buffer Error, ORP Error,
 PC Interface : RS-232, Real Time : 24 Hour Mode with Date, Print Format : All Data-Date Wise.Through PC

1- pH	Range: 0 to 14 pH, Resolution : 0.01 pH, Accuracy : 0.01 ± 1 Digit, Temp. Comp. : 0 to 100°C Automatic (ATC), Slope Adjust.: 80% to 120% (Automatic), Auto pH Calibration : 5 points, Automatic 4.00, 7.00, 9.20, 10.50 & 12.45 pH.
2- mV. (ORP)	Range : 0 to ± 1999.9 mV, Resolution : 1 mV , Accuracy : ± 0.1 mV ± 1 Digit
3- Conductivity (E.C.)	Range : 0-20, 0-200uS & 0-2mS, 0-20mS, 0-1000mS Auto Ranging, Resolution : 0.1 uS (Lowest Range), Accuracy : ± 1% FS ± 1 Digit, Cell Constant : Adjustable, Temp. Co.-Eff. : Adjustable between 0 to 4%, Temp. Comp. : Automatic for entire range, Reference Temp : Selectable (5° to 50° C)
4- T.D.S.	Range : 0-20, 0-200 ppm & 0-2 ppt, 0-20 ppt, 0-1000 ppt Auto Ranging, Resolution : 0.1 ppm, Accuracy : ± 1% FS ± 1 Digit, Cell Const. : Adjustable, Temp. Co.-Eff. : Adjustable between 0 to 4%, Temp. Comp. : Automatic for entire range, Reference Temp : Selectable (5° to 50° C)
5- Salinity	Range : 0 to 50 ppt, Resolution : 0.1 ppt, Accuracy : ± 2% of Range ± 1 Digit
6- Temperature	Range : 0°C to 200°C, Resolution : 0.1°C, Accuracy : ± 0.1°C ± 1 Digit, Sensor : RTD / PT100, Platinum Sensor
7- Dissolved Oxygen	Range : 0 to 20 ppm, Resolution : 0.1 ppm, Accuracy : 0.1 ppm ± 1 Digit, Temp. Comp.: Automatic, DO Sensor : Gold / Silver , Amperometric Probe
8- Turbidity/ Nephelometer	Range : 0 to 200, 1000 NTU / JTU, Resolution : 0.1, 1 NTU / JTU, Accuracy : ± 1% FS ± 1 Digit, Sample System : 30 mm Clear Glass Test Tube

	DB-1200	DB-1201	DB-1202	DB-1203
	Microprocessor 8 Parameter	Microprocessor 7 Parameter	Microprocessor 6 Parameter	Microprocessor 5 Parameter
1	pH	pH	pH	pH
2	mV (ORP)	mV (ORP)	mV (ORP)	mV (ORP)
3	Cond. (E.C.)	Cond. (E.C.)	Cond. (E.C.)	Cond. (E.C.)
4	T.D.S.	T.D.S.	T.D.S.	T.D.S.
5	Temperature	Temperature	Temperature	Temperature
6	D.O.	D.O.	Salinity	X
7	Salinity	Salinity	X	X
8	Turbidity	X	X	X
Rs.	34,500	32,700	28,000	24,600
Complete in Brief Case, pH Electrode, Cond. Cell, Temperature Sensor, portable, Battery cum Mains operated with Rechargeable Battery.				

DB-1200



ORP Electrode (Platinum Electrode) : 2,300-00
 NOTE : ORP Electrode is optional for all the above models

T.D.S. / Temp. Meter : Microprocessor Based

General Specification for all Models	DB-1031	DB-1031AT	DB-1032	DB-1033
	Range	Dual Display LED + LCD	Dual Display LED + LCD	LCD Display 16 X 2 Line
Resolution	0-1000 ppt	Desk / Lab. Model	Desk / Lab. Model	Specification same as per DB-1031AT
Accuracy	1 ppm			
Range Selection	± 0.5% ± 1 digit	Specification same as per DB-1031 + ATC (Automatic Temp. Comp. supplied with Temp. Sensor)	Specification same as per DB-1031AT	LAB cum Portable Battery Cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. useful for field use
Temp. Compensation	Automatic			
Temp. Indication	Manual Digitally Settable	Alphanumeric Display with Data Storage up to 1000 samples & USB / RS-232 Data Logging	USB / RS-232 Data Logging	With Electrode & Carrying Case
Cell Constant	Continuous 0 to 100 °C			
Temp. Coefficient.	Adjustable (0.05 – 10.5)	Unit Price Rs.	6,600-00	8,400-00
Keyboard	Adjustable 0.1 – 4.0%			
Power Supply : 12V/ 500mA External Adopter	Touch Switches	Complete Accessories : Cond. Electrode , Electrode Stand, Dust Cover & Manual		



Cond. / TDS / Salinity / Temp. Meter
Microprocessor Based.



General Specification for all Models	DB-1039			DB-1040	DB-1041
	Parameter	Dual Display LED + LCD 16 X2 Line Alphanumeric			LCD Display 16 X 2 Line
Range	Cond.	T.D.S.	Salinity	Desk / Lab. Model	Specification same as per DB-1031AT
Resolution	0-1000 ms	0-1000 ppt	0-100 ppt		
Accuracy	1 us	1 ppm	1 ppt	Specification same as per DB-1031AT	LAB cum Portable Battery Cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. useful for field use
Range Selection :	± 0.5% ± 1 digit				
Temp. Compensation :	Automatic			Alphanumeric Display with Data Storage up to 1000 samples & USB / RS-232 Data Logging	With Electrode & Carrying Case
Temp. Indication :	A.T.C.				
Cell Constant :	0 to 100 °C			Unit Price Rs.	12,000-00
Temp. Coefficient. :	Adjustable (0.05 – 10.5)				
Keyboard :	Adjustable 0.1 – 4.0%			Power Supply : 12V/ 500mA External Adopter	
Unit Price Rs.	Soft Touch Switches			Complete Accessories : Cond. Electrode , Electrode Stand, Dust Cover & Manual	

Option & Spares for Cond./T.D.S./Salinity Meters

- DB-1035 Conductivity Cell : 1.0 K 2,250-00
- DB-1036 Conductivity Cell : 0.5 K 3,000-00
- DB-1037 Temperature Probe : 1,000-00

**DB-1011 : pH/ mV/ Cond./ Temp. Meter
Lab Model Microprocessor Based. Rs.16,500**

General :	pH / mV:	Cond. :
4 Parameter Microprocessor Based 16x2 Line LCD display Temp. : 0 to 100°C Resolution : 0.1°C Accuracy : ± 0.5°C	pH : 0 – 14 pH mV : 0 ± 2000 mV 5 Points , Auto Buffer Calibration with ATC (4.00, 7.00, 9.20, 10.5 & 12.45 pH)	0 to 1000 ms (0-200u, to 1000m) Auto-ranging , ATC Cell Const. : (0.05 – 10.5) Adjustable
Power Supply : 12 V / 500 mA. External Adopter Accessories : pH Electrode, Cond. Cell, Temp. Probe. Electrode Stand, Buffer Solution, Dust Cover & Manual.		



DB-1011/1012

**DB-1012 pH/ mV/Cond./T.D.S./Salinity/Temp.
Meter Lab Model, Microprocessor Based. Rs.19,200**

DB-1014



General	pH / mV	Cond./ T.D.S./ Salinity
6 Parameter Microprocessor Based 16x2 Line LCD display Temp. : 0 to 100°C Resolution : 0.1°C Accuracy : ± 0.5°C	pH : 0 – 14 pH mV : 0 ± 2000 mV 5 Points , Auto Buffer Calibration with ATC (4.00, 7.00, 9.20, 10.5 & 12.45 pH)	Cond. : 0 to 1000 ms (0-200u, 2m, 20m, 200m & 1000m) Auto-ranging T.D.S. : 0 to 1000 ppt, (0-200ppm, 2-20ppt, 200ppt & 1000ppt) Auto-ranging Salinity : 0 to 100 ppt Auto-ranging Cell Constant : (0.05 – 10.5) Adjustable ATC : Auto Temp. Comp.
Power Supply : 12 V / 500 mA. External Adopter Accessories : pH Electrode, Cond. Cell, Temp. Probe. Electrode Stand, Buffer Solution, Dust Cover & Manual.		

**DB-1014 Potentiometer (O.R.P.)
Lab Model Microprocessor Based Rs.8,400**

Display : 4 Digit LED Microprocessor Based (Soft Touch Keys operation)	Redox-Potential Measurement Range 0 to ± 1999 mV, Resolution 1 mV, Accuracy ± 1 mV ± 1 Digit,
Power Supply : 12 V / 500 mA. External Adopter Accessories : ORP (Platinum Combined) Electrode, Electrode Stand, Dust Cover & Manual.	



DB-1012

Conductivity / Temp. Meter : Microprocessor Based

DB-1026AT



DB-1027



DB-1028



General Specification for all Models	DB-1026	DB-1026AT	DB-1027	DB-1028
Range	0-1000 ms	Dual Display LED + LCD	LCD Display 16 X 2 Line	LCD Display 16 X 2 Line
Resolution	1 us	Dual Display LED + LCD	Desk / Lab. Model	Specification same as per DB-1026AT
Accuracy	± 0.5% ± 1 digit	Desk / Lab. Model	Desk / Lab. Model	Specification same as per DB-1026AT
Range Selection	Automatic	Specification same as per DB-1026 + ATC (Automatic Temp. Comp. supplied with Temp. Sensor)	Specification same as per DB-1026AT	LAB cum Portable Battery Cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. useful for field use
Temp. Compensation	Manual Digitally Settable		Alphanumeric Display with Data Storage up to 1000 samples & USB / RS-232 Data Logging	
Temp. Indication	Continuous 0 to 100 °C			
Cell Constant	Adjustable (0.05 – 10.5)			
Temp. Coefficient.	Adjustable 0.1 – 4.0%			
Keyboard	Touch Switches			
Unit Price Rs.	6,600-00	8,400-00	12,000-00	14,700-00
Power Supply : 12V/ 500mA External Adopter Complete Accessories : Cond. Electrode , Electrode Stand, Dust Cover & Manual				With Electrode & Carrying Case

General Specification for all Models		DB-1001 (Economical)	DB-1002	DB-1003	DB-1003A
		4 Digit LED	4 Digit LED	4 Digit LED	4 Digit LED
pH	Range	0-14 pH	0-14 pH	Specification same as per DB-1002 & ATC (Automatic Temp. Compensation) supplied with Temp. Sensor	Battery Cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. LAB cum Portable Specification same as per DB-1003
	Resolution	0.01pH	0.01pH		
	Accuracy	± 0.01 ± 1 digit	± 0.01 ± 1 digit		
mV	Range	0 ± 2000 mV	0 ± 2000 mV		
	Resolution	1 mV	1 mV		
	Accuracy	± 1 mV	± 1 mV		
Temp.	Range	Not Available	0 to 100°C		
	Resolution		1°C		
	Accuracy		± 1°C		
Temp. Compensation	Manual By knob (Temp. Scale) Settable	Manual Digitally Settable	ATC	ATC	
Auto Buffer Calibration	2 Points, Automatic (4.00, & 7.00)	3 Points, Automatic (4.00, 7.00 & 9.20 pH)	3 Points, Automatic (4.00, 7.00 & 9.20 pH)	3 Points, Automatic (4.00, 7.00 & 9.20 pH)	
Unit Price Rs.	4,500	6,300	7,000	12,000	
Power Supply : 12V/ 500mA External Adopter				With Electrode & Carrying Case	
Complete Accessories : pH Electrode Combined, Buffer Solution					



Advance Model pH/mV/Temp. Meter

General Specification for all Models			DB-1004	DB-1005	DB-1006
			Dual Display LED + LCD	LCD Display 16 X 2 Line	LCD Display 16 X 2 Line
pH	Range	0-14 pH	Desk / Lab. Model	Desk / Lab. Model	LAB cum Portable Battery Cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. useful for field use
	Resolution	0.01pH			
	Accuracy	± 0.01 ± 1 digit			
mV	Range	0 ± 2000 mV	LED & LCD 16 X 2 Line Alphanumeric Display	Alphanumeric Display with Data Storage up to 1000 samples & USB / RS-232 Data Logging	
	Resolution	1 mV			
	Accuracy	± 1 mV			
Temp.	Range	0 to 100°C	ATC	ATC	ATC
	Resolution	0.1°C			
	Accuracy	± 0.5°C			
Temp. Compensation			3 Points, Automatic (4.00, 7.00 & 9.20 pH)	5 Points, Automatic (1.68, 4.00, 7.00, 9.20 & 12.45 pH)	
Auto Buffer Calibration					
Unit Price Rs.			12,000	14,700	12,000
Power Supply : 12V/ 500mA External Adopter					With Electrode & Carrying Case
Complete Accessories : pH Electrode Combined, Electrode Stand, Buffer Solution, Dust Cover & Manual					



Spares pH / Potentiometers

- | | | | |
|----------------------------|----------|--------------------------------|----------|
| A: Ph Electrode (Combined) | 1,750-00 | B: Ph (Comb. Toughened) | 2,000-00 |
| C: Epoxy Comb. Electrode | 2,000-00 | D: Platinum Electrode (O.R.P.) | 2,850-00 |
| E: Temperature Probe | 1000-00 | | |

Photo Colorimeter Microprocessor Based. (Auto Zero):

General Specification for all Models	DB-1110	DB-1111	DB-1112
		3 Digit LED Display	LCD Display 16 X 2 Line Alphanumeric
Display Read out	Abs. (OD) : 0.00 to 1.99	O.D. : 0-to 1.99, %T : 0-100% & Wave Length	Abs. (OD) : 0 to 1.99 & Wave Length
Wavelength Range	400 - 700 nm	400 - 700 nm	400 - 700 nm
Filters	8 Glass Filters	Highly Accurate Laser Source Built in 9 Digital Filters 50,000 hours Life	Highly Accurate Laser Source Built in 9 Digital Filters 50,000 hours Life
Resolution	0.01 Abs.	0.01 Abs., 0.1% T	0.01 Abs.
Power Supply	230 V AC \pm 10%, 50 Hz		
Unit Price Rs.	6,600-00	8,400-00	8,400-00
Battery Cum Mains Operation with Rechargeable Battery	9,300-00	11,100-00	11,100-00

DB-1110



DB-1111



DB-1112



DB-1113 : Hemoglobin Meter Lab Model Microprocessor Based.

DB-1113



Hemoglobin is an iron-containing protein found in the red blood cells. The hemoglobin level indicates the blood's oxygen-carrying capacity and can play a major role in the early diagnosis of many illness such as Thalassemia, Anemia, Leukemia etc.

Digital Display	: 3 Digit LED	Measuring Range	: 0-30 gm/dl of Hb
Wave Length	: 546 nm	Sample Volume	: 1 ml
Zero Setting	: Automatic	Dilution Ratio	: 1 : 25
Detector	: Silicon Photo Diode	Calibration	: Automatic
Power Supply	: 230 V AC \pm 10%, 50 Hz	Accessories	: Test Tube - 5, Dust Cover
Price : Rs. 8,400-00			

Microprocessor Turbidity / Nephelometers

General Specification for all Models	Turbidity Meter		Turbidity/ Temp. Meter
	DB-1101	DB-1102	DB-1103
	4 Digit LED Display	4 Digit LED Display	LCD Display 16 X 2 Line Alphanumeric
Range	0 to 20, 200, 1000 NTU /JTU, Auto Ranging		
Resolution	1 NTU /JTU	0.1, 1 NTU /JTU	0.1, 1 NTU /JTU
Accuracy	\pm 1% F.S. \pm 1 Digit		
Sample System	30 mm clear glass Test Tube		
Temp. Indication	X	X	0 to 100°C
PC Interface : USB/ RS-232	X	X	With Data Storage up to 1000 Samples & USB / RS-232 Data logging
Unit Price Rs.	9,300-00	11,100-00	13,800-00
Power Supply : 12V/ 500mA External Adopter			

DB-1101



DB-1102



DB-1103



Dissolved Oxygen / Temp. Meter
Microprocessor Based

General Specification for all Models	DB-1070	DB-1071	DB-1072
Range	0-20 ppm	Desk / Lab. Model	Specification same as per DB-1070
Resolution	0.1 ppm	Specification same as per DB-1070	LAB cum Portable
Accuracy	± 0.2% ± 1 digit	with Data Storage up to 1000 samples & USB / RS-232 Data Logging	Battery cum Mains With Lithium Ion Battery Charging Cap. More than 500 times. useful for field use Industrial Application.
Temp. Compensation	Automatic		
Temp. Indication	0 to 100 °C		
Keyboard	Touch Switches		
Unit Price Rs.	12,000-00	14,700-00	16,300-00
Power Supply : 12V/ 500mA External Adopter			With D.O. Probe & Carrying Case
Accessories : D.O. Probe, Membranes & Dust Cover			



Accessories on Demand for DB-1070, 1071 & 1072

- 1-D.O. Probe - 3200-00
- 2-A Set of 10 D.O. Membrances - 500-00

Colony Counters
Microprocessor

DB-1225 Colony Counters Microprocessor

- Display : 6 Digits LED
- Range & Maximum Count : 0-999999
- Auto Saving Facility : Auto saved / retaining last value in case of power failure
- Dual Counting facility : By key switch also, in case Counting Pen failure
- Error Correction Facility : In case of accidental jumping of counts mistaken (By Counting Pen or By Manual error)
- Preventive : Decrement (Lockable for each step)
- Back Counting Error : Facility to avoid back counting error. Safe Guard to your Labour time Value
- Dish Size : 110 mm
- Magnification : X 1.7
- Power Supply : 230 V ± 10% AC, 50 Hz

Rs.4,800



DB-1226 Colony Counters Microprocessor

- Display : 4 Digits LED,
- Range & Maximum Count : 0-9999
- Other Specifications as per Cat. No.-1225

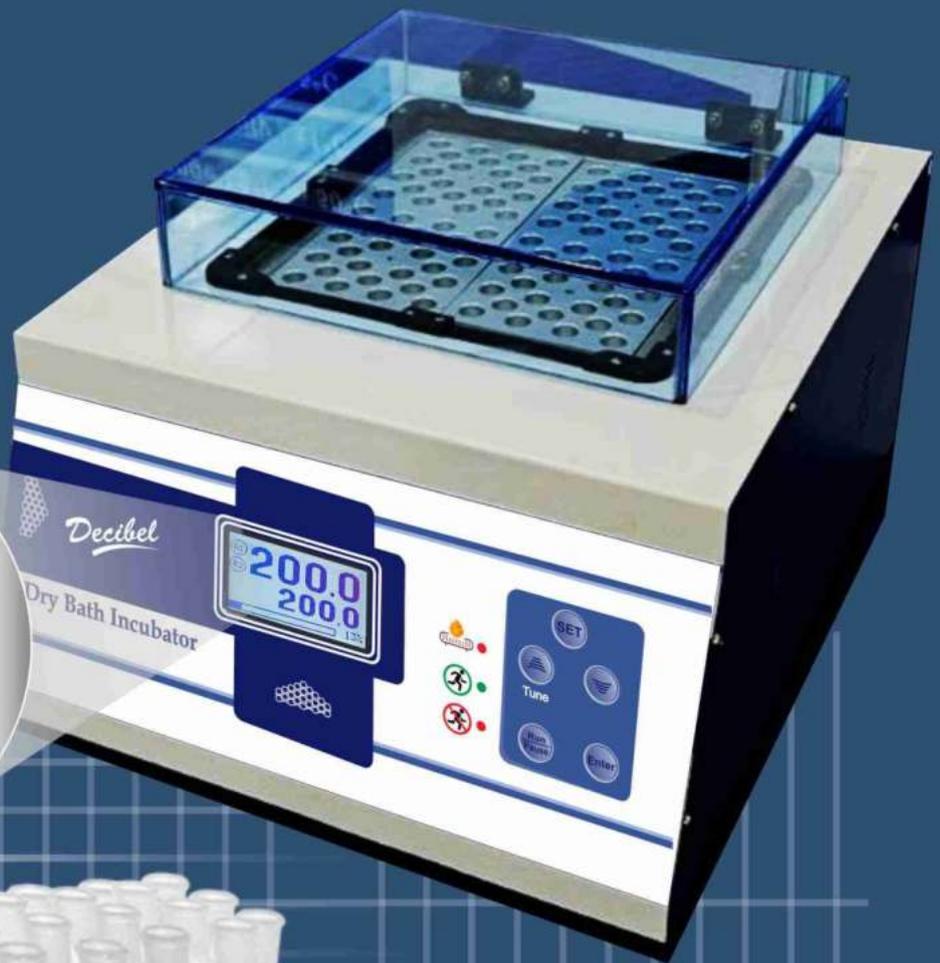
Rs.3,900



Accessories on Demand for DB-1225 & DB-1226

- 1-Spare Pen Counter - 750-00
- 2-Magnifying Glass with Stand - 1,200-00

DB-1326B



DB-1338-15



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