

PRODUCT CATALOGUE



DAN LOGITECH INSTRUMENTS PVT. LTD.

INNOVATIVE | CUSTOMIZED | ADAPTIVE

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Stainless Steel Ceramic Coated Top

Magnetic Stirrer with Hotplate - **Analog**



- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Easy temperature & Stir controls
- ▶ Installed with Safety PT sensor for fail safe operation.
- ▶ Hot top indicator for temperatures above 50°C.
- ▶ Large top plate to assist beakers upto 2000 ml.
- ▶ High magnetic strength.
- ▶ Electronic variable speed control with Knob for display.
- ▶ Knob for regulating variable temperature.
- ▶ Heat reach Indicator, To ensure you correct temperature of plate surface.
- ▶ Stirring & temperature indicator
- ▶ Error indicators for heat & Stir function inbuilt trouble shoot

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
710.DNAG.01	230	50	650	SS Ceramic Coated	17400
610.DNAG.01	230	50	650	Aluminum Ceramic Coated	17100
710.DNAG.02	115	60	650	SS Ceramic Coated	
610.DNAG.02	115	60	650	Aluminum Ceramic Coated	

Including Accessories

Item Code	Accessories	Price (INR)
850.800.02	Magnetic Stirring Bar 35mmx8mm	148

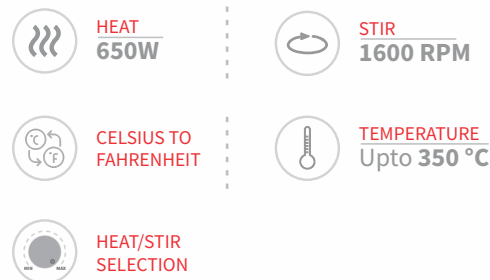
710.DNAG



SS. CERAMIC COATED

Technical Specification

Heating Plate Material	Stainless Steel 304 Grade/ Ceramic Coated
Dimension of heating plate	145 Ø (For 610DNAG) 150 Ø (For 710DNAG)
Speed range	50-1600 RPM
Maximum Stirring bar Length	Can use upto 80 mm bar (at lower speed)
Temperature Range	Ambient to 350°C approx
Dimensions of hot plate body	273x160x102mm
Weight of body	3.0 kgs
Permissible ambient Temperature	5- 40 °C
Permissible relative moisture	80%
Weight of Capacity	20 Ltr.
IP Class	22



Stainless Steel Ceramic Coated Top

Magnetic Stirrer with Hotplate - **Digital**



900.DNDG

- ▶ Powerful 650W Heater Heat Evenly, rapidly & given result quickly
- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Auto Power "ON" possible
- ▶ Ceramic coated top plate, chemically resistant and scratch resistant
- ▶ Even heat distribution
- ▶ Large top plate to assist beakers upto 2000 ml
- ▶ Single multi-turn intelligent knob Operation
- ▶ High magnetic strength
- ▶ Digital set up with independent displays
- ▶ Selection of Celsius or Fahrenheit
- ▶ Selection of hot plate or probe temperature control.
- ▶ Settable safety cut-off for maximum temperature limit for top plate or probe
- ▶ Installed with double PT sensors for safety & fail safe operating mechanism
- ▶ Only with Battery for domestic
- ▶ Inclusive PT 100 temperature sensor probe
- ▶ Digital setup of RPM with independent display
- ▶ Digital setup of time with independent display
- ▶ Count-up indication of minutes and hours
- ▶ Audible alarm at time cycle end for safety and ease of unsupervised operation
- ▶ Error code display for failures

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
900.DNDG.01	230	50	650	SS Ceramic Coated	29500
900.DNDG.02	115	60	650	SS Ceramic Coated	-

Including Accessories

Item Code	Accessories	Price (INR)
850.800.01	Rod Stainless Steel length 542 mm, Ø 9 mm	896
850.800.02	Magnetic Stirring bar 35 mm x 8 mm	148
850.800.03	Moulded PT 100 sensor probe	2450
850.800.04	Boss head	621

Technical Specification

Heating Plate Material	Ceramic Coated Stainless Steel
Dimension of Heating Plate	Ø 150 mm
Three display windows for	Temp., RPM and Time
Speed Range	50-1500 RPM
Maximum Stirring bar Length	upto 80mm bar (at lower speed)
Temperature Range	Ambient to 350°C Approx.
Adjustable safety cut off	50-400°C
Control accuracy of PT 100	± 1K
Weight of body	273x160x102mm
Dimension of Hot Plate	3.2 kgs
Permissible ambient Temp.	5-40°C
Permissible relative moisture	80%
RS 232 Interface	Yes (For Programming)
Weight of Capacity	20 Ltr.
IP Class	32

Note : Stainless Steel Rod, Stirring Bar, PT Sensor & Boss Head has to be ordered separately



Aluminium Alloy/Ø145 Ceramic Coated Top

Magnetic Stirrer with Hotplate - **Digital**



610.DNDG

Technical Specification

Heating Plate Material	Aluminium Alloy with Ceramic Coating
Dimension of Heating Plate	Ø 145 mm
Three display windows for	Temp., RPM and Time
Speed Range	50-1500 RPM
Maximum Stirring bar Length	upto 80mm bar (at lower speed)
Temperature Range	Ambient to 350°C
Adjustable safety cut off	50-400°C
Control accuracy of PT 100	± 1K
Weight of body	3.1 kgs
Dimension of Hot Plate	273x160x102mm
Permissible ambient Temp.	5-40°C
Connectivity	WiFi/USB
Permissible relative moisture	80%
RS 232 Interface	Yes (For Programming)
IP Class	32
Weight of Capacity	20 Ltr.
Power Input	650W

- ▶ Can be operated with **Labs-connect App** over Wifi/USB Controls
- ▶ Powerful 650W Heater Heat Evenly, rapidly & given result quickly
- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Auto Power "ON" possible
- ▶ Chemically resistant keypad
- ▶ Even heat distribution at faster rate
- ▶ Thermal insulation for cool body operation
- ▶ Digital set up temperature controller with independent LED display
- ▶ Set safety cut-off for maximum temperature limit for top plate or probe
- ▶ Installed with double PT sensors for fail safe operating mechanism
- ▶ Only with Battery for domestic
- ▶ Inclusive PT 100 temperature sensor probe
- ▶ Audible alarm at time cycle end for safety and ease of unsupervised operation
- ▶ Top plate Ø 145 mm to assist beaker upto 2000 ml & Adapter.
- ▶ Compatible for use with all major brands top assemblies 1 Cavity, 3 Cavities or Multiple Cavities
- ▶ Digital setup of time with independent LED display
- ▶ Selection of plate and probe temperature
- ▶ Error code display for failures
- ▶ Digital setup of RPM with independent LED display
- ▶ Count-up indication of minutes and hours
- ▶ Single multi-turn intelligent knob Operation
- ▶ Selection of Celsius and Fahrenheit
- ▶ High magnetic strength

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
610.DNDG.01	230	50	650	Aluminum Ceramic Coated	17100
610.DNDG.02	115	60	650	Aluminum Ceramic Coated	28700

Including Accessories

Item Code	Accessories	Price (INR)
850.800.01	Rod Stainless Steel length 542 mm, Ø 9 mm	896
850.800.02	Magnetic Stirring bar 35 mm x 8 mm	148
850.800.03	Moulded PT 100 sensor probe	2450
850.800.04	Boss head	621

Accessory (Aluminum Adapter for Round Bottom Flasks)

Item Code	Flask Cap. (ml)	Places	Price (INR)
610.ADP.00	10 ml	8	14500
610.ADP.01	25 ml	7	14500
610.ADP.02	50 ml	4	14500
610.ADP.03	100 ml	1	15260



Glass Ceramic Coated Top-5L

Magnetic Stirrer with Hotplate - **Analog**

CeraClick-System™



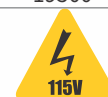
- ▶ Powerful 1300 W heater, biggest in class, gives results quickly
- ▶ Supplied with Accessories, Probe based thermal control best for direct media temperature
- ▶ Control, pH electrode for pH based alarms
- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Highly scratch and chemical resistant Top
- ▶ Even heat distribution on surface of Top
- ▶ Large top plate to assist beaker upto 5000 ml
- ▶ High Magnetic strength
- ▶ Single multi-turn intelligent knob operation
- ▶ User settable High temperature cutoff and hard wired cutoff
- ▶ Selection of Celsius and Fahrenheit
- ▶ Selection of hot plate and probe temperature
- ▶ High temperature upto 550°C possible
- ▶ Thermal insulation for cool body operation
- ▶ Installed with double temperature sensors for safety & fail safe operating mechanism
- ▶ Inclusive PT 100 temperature sensor probe
- ▶ Digital set up temperature controller with independent LED display
- ▶ DIN connector for external temperature probe
- ▶ Error code display
- ▶ 7X7 inch Glass Cera top supports large vessels upto 5 Ltr.
- ▶ CERA click quick removal of top plate.
- ▶ WIFI variant adds value labs connect useful for private non pharma labs

Item Code	Volt	Hz	Watts	Price (INR)
500.DNAG.01	230	50	650	47000
500.DNAG.02	115	60	650	-

Including Accessories

Item Code	Accessories	Price (INR)
550.500.01	Rod Stainless Steel length 500 mm, Ø 12 mm	12500
550.500.02	Magnetic Stirring bar 25 mm x 8.25 mm	12500
550.500.03	PT 100 sensor probe	12500
550.500.04	Clamp with Boss head	19500

500.DNAG



Technical Specification

Heating Plate Material	Aluminium Alloy with Ceramic Coating
Dimension of Heating Plate	180 mm x 180 mm
Two display windows for	Temperature and RPM
Speed Range	~2000 RPM
Timer Range	0:01 to 99:59 (HH:MM)
Heat Output	1300 W
Temperature Range	Ambient to 550°C
Adjustable safety cut off	580°C
Control accuracy of sensor	± 1K
Weight of body	5.2 kgs
Permissible ambient Temp.	5 - 40°C
Permissible relative moisture	80%
USB Port	Yes (For Programming)
Dimensions of Hot Plate Body	Y378x220x103
IP Class	21

Extra Accessories

Item Code	Accessories	Price (INR)	Price (USD)
550.500.05	Glass Ceramic Top plate	19500	
550.500.06	Knobs	23500	



A) Innovative Spill away
(Patent Pending) :

B) Innovative CeraClick-System™ (Patent Pending) :
Replacing of Glass Ceramic Plate



Glass Ceramic Coated Top-5L

Magnetic Stirrer with Hotplate - **Digital**

CeraClick-System™



- ▶ Powerful 1300 W heater, biggest in class, gives results quickly.
- ▶ Supplied with Accessories, Probe based thermal control best for direct media temperature control, pH electrode for pH based alarms.
- ▶ 7X7 inch Glass Cera top supports large vessels upto 5 Ltr.
- ▶ CeraClick-System quick removal of top plate.
- ▶ WIFI variant adds value labs connect useful for private non pharma labs.

RELIABILITY

- ▶ Hot Top warning, UL/CSA certified, very safe for users.
- ▶ Precise, microcontroller-based temperature control in both C & F
- ▶ Indicates errors automatically in Display.
- ▶ Interface easy to use and rugged against spillages. Patented spill away design

DURABILITY

- ▶ PU coated body, made from AL Alloy gives infinite rust/damage free life.
- ▶ Can carry 20 KG weight. Rugged Motor withstands all voltage fluctuations.
- ▶ Patented CeraClick-System™ for quick service.
- ▶ Made in India... Tech support and Spares readily supported.
- ▶ Low down times. Value for investment

Item Code	Volt	Hz	Watts	Price (INR)
500.DNDG.01	230	50	650	47000
500.DNDG.02	115	60	650	

Including Accessories

Item Code	Accessories	Price (INR)
550.500.01	Rod Stainless Steel length 500 mm, Ø 12 mm	12500
550.500.02	Magnetic Stirring bar 25 mm x 8.25 mm	12500
550.500.03	PT 100 sensor probe	12500
550.500.04	Clamp with Boss head	19500

Extra Accessories

Item Code	Accessories	Price (INR)
550.500.05	Glass Ceramic Top plate	19500
550.500.06	Knobs	23500

500.DNDG

Technical Specification

Heating Plate Material	Aluminium Alloy with Ceramic Coating
Dimension of Heating Plate	180 mm x 180 mm
Two display windows for	Temperature and RPM
Speed Range	~2000 RPM
Timer Range	0:01 to 99:59 (HH:MM)
Heat Output	1300 W
Temperature Range	Ambient to 550°C
Adjustable safety cut off	580°C
Control accuracy of sensor	± 1K
Weight of body	5.2 kgs
Permissible ambient Temp.	5 - 40°C
Permissible relative moisture	80%
USB Port	Yes (For Programming)
Dimensions of Hot Plate Body	Y378x220x103
IP Class	21

A) Innovative Spill away

(Patent Pending) :



B) Innovative CeraClick-System™ (Patent Pending) : Replacing of Glass Ceramic Plate



Stainless Steel Ceramic Coated Top

Hotplate - Analog

- ▶ Powerful 650W Heater Heat Evenly, rapidly & given result quickly
- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Auto Power "ON" possible
- ▶ Easy Temperature control
- ▶ Hot top indicator for temperatures above 50°C
- ▶ Large top plate to assist beakers upto 2000 ml
- ▶ Heat reach Indicator, To ensure you correct temperature of plate surface
- ▶ Temperature Indicator



Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
730.DNAG.01	230	50	650	Stainless Steel top with Ceramic Coating	14500
730.DNAG.02	115	60	650	Stainless Steel top with Ceramic Coating	-

730.DNAG

Technical Specification

Heating Mantle Material	Stainless Steel 304 Grade/Ceramic Coated
Dimension of heating plate	150 Ø
Temperature Range	Ambient to 350°C approx
Dimensions of hot plate body	273x160x102mm
Weight of body	2.0 kgs
Permissible ambient Temperature	5- 40 °C
Permissible relative moisture	80%
Weight of Capacity	30 Ltr.
IP Class	22



Stainless Steel Top

Magnetic Stirrer - Analog



- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Easy Stir controls
- ▶ Large top plate to assist beakers upto 2000 ml.
- ▶ Maximum stirring speed upto 1600 RPM.
- ▶ High magnetic strength.
- ▶ Knob for electronic variable speed control with display.
- ▶ Stirring Indicator.
- ▶ Error displays & safety for Stir function built in.

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
720.DNAG.01	230	50	650	Stainless Steel top	17800
720.DNAG.02	115	60	650	Stainless Steel top	

720.DNAG

Technical Specification

Operating Voltage	230V AC, 50 Hz
Power	30 Watts ± 10%
Weight	2.6 Kgs
Dimensions of Top plate	Diameter 150mm
Over all dimensions	273X160X102mm
Fuse internal	1 Amps
Stirring Capacity	10 L
Weight of Capacity	30 Ltr.
IP Class	22



Stainless Steel Hexa Top

Magnetic Stirrer - Analog



With
Octagon
Base



- ▶ PU Coated Aluminium Alloy Moulded Construction
- ▶ Easy Stir controls
- ▶ Large top plate to assist beakers upto 5000 ml.
- ▶ Maximum stirring speed upto 1600 RPM.
- ▶ High magnetic strength.
- ▶ Knob for electronic variable speed control with display.
- ▶ Stirring Indicator.
- ▶ Error displays & safety for Stir function built in.

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
725.DNAG.01	230	50	650	Stainless Steel top	18200
725.DNAG.02	115	60	650	Stainless Steel top	

725.DNAG

Technical Specification

Operating Voltage	230V/115V AC, 50/60 Hz
Power	30 Watts ± 10%
Stirring Capacity	Upto 1600 RPM
Weight	3.0 Kgs
Dimensions of Top plate	190X25mm Octagon shape
Over all dimensions	275 mm X 190mm X 92mm
Fuse internal	1 Amps
Stirring Capacity	20000ml
Weight of Capacity	30 Ltr
IP Class	22



3 Position

Magnetic Stirrer with Hotplate



- ▶ PU Coated Mild Steel construction
- ▶ Three independently controlled stirring/heating positions.
- ▶ Powerful magnets for strong magnetic coupling.
- ▶ Easy temperature & Stir controls.
- ▶ Installed with Safety PT sensor for fail safe operation.
- ▶ LED hot top indicator for temperatures above 50°C for each station.
- ▶ Electronic variable speed control with Knob for display.
- ▶ Knob for regulating variable temperature.
- ▶ Heat reach Indicator, To ensure you correct temperature of plate surface.
- ▶ Stirring Indicator
LED error code displays & safety for heat & Stir function inbuilt trouble shoot.

Item Code	Volt	Hz	Watts	Top Plate	Price (INR)
716.DNAG.01	230	50	(450x3) 1350	Stainless Steel	48500
716.DNAG.02	115	60	(450x3) 1350	Stainless Steel	

Included Accessories

Item Code	Accessories	Price (INR)
1500.150.02	(5) magnetic Stirring bar 25 mm x 9 mm	

716.DNAG

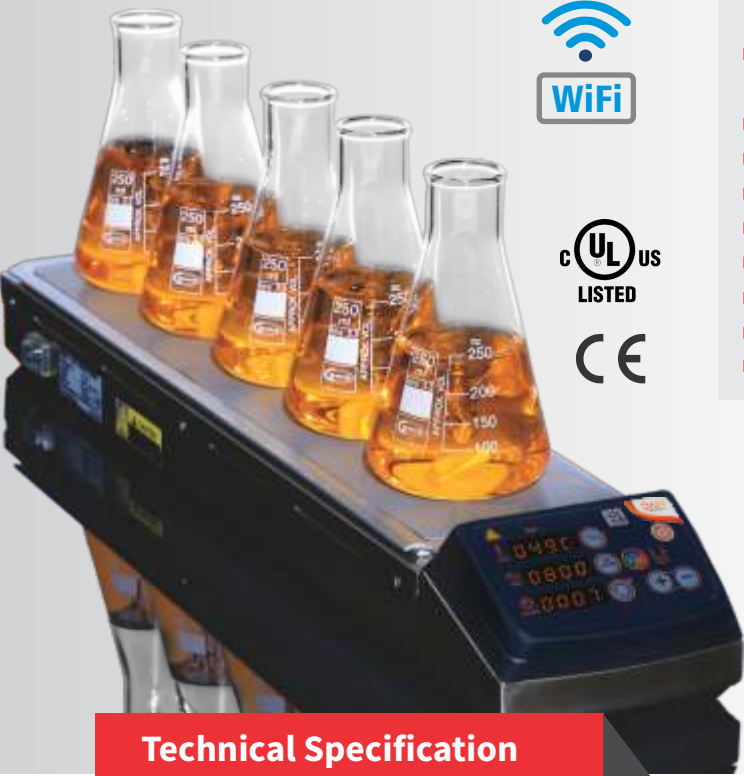
Technical Specification

Heating plate material	SS ceramic coated
Dimension of heating plate	150 Ø RPM
Volume cap.	20 L each station
Speed range	1600 RPM
Stirring position	3
Maximum stirring range	Can use upto 80mm bar Lower speed
Maximum plate temperature	350 °C
Overall dimensions (mm)	505 x 246 x 195 (LxWxH)
Plate dimensions (mm)	504 x 175 x 30 (LxWxH)
Net weight (kg)	7.0 kg (Approx.)
Permissible ambient temp.	5-40 °C
Permissible relative humidity	80%
IP Class	21



5 Position Digital

Magnetic Stirrer with Heating



- ▶ Metallic Construction
- ▶ Designed for synchronous heating and stirring
- ▶ Suitable for continuous operation
- ▶ Silicone surface for anti-skid.
- ▶ The magnetic coil motorless technology provides noiseless and consistent stirring on all positions
- ▶ Homogeneous temperature distribution across the heating plate
- ▶ Hot top warning indication
- ▶ Timer function
- ▶ Six mode preset selection anticlockwise, t-30, 60, 120 & 240
- ▶ Constant stirring speeds even with viscosity changes
- ▶ SPC-mode for a low self-warming of the surface
- ▶ Error code display
- ▶ Also available with WIFI (411.DNWDG)
- ▶ Power selection mode
- ▶ Can be operated with **Labs-connect App** over Wifi/USB Controls

Item Code	Volt	Hz	Watts	Price (INR)
411.DNDG.01	230	50	220	39000
411.DNDG.02	115	60	220	

411.DNDG

Technical Specification

Set-up plate material	Silicone and Aluminium
Number of stirring positions	5
Stirring position distance	90 mm
Speed range	0 - 1000 rpm
Speed control	10 RPM Steps
Stirring quantity max. per stirring position (H2O)	400 ml
Stirring bar length min.	25mm
Stirring bar length max.	30mm
Heating temperature range	Room temp. - 120°C
Control display	LED
Input Type	Touch Key
Adjustable safety circuit min.	50°C
Adjustable safety circuit max.	130°C
Timer range	00:01 to 99:59 [HH: MM]
Set-up plate dimensions	514x122mm
Dimensions (W x H x D)	600 x 120 x 80 mm
Weight	4.5 (Approx.)
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP40

Included Accessories

Item Code	Accessories
1500.150.02	(5) magnetic Stirring bar 25 mm x 9 mm



15 Position

Magnetic Stirrer with Heating - **Digital**



- ▶ Metallic Construction
- ▶ Designed for synchronous heating and stirring
- ▶ Suitable for continuous operation
- ▶ Silicone surface for anti-skid.
- ▶ The magnetic coil technology motorless provides noiseless and consistent stirring on all positions
- ▶ Homogeneous temperature distribution across the heating plate
- ▶ Hot top warning indication
- ▶ Timer function
- ▶ Six mode preset selection anticlockwise, t-30, 60, 120 & 240
- ▶ Also available with WIFI (415.DNWDG)
- ▶ Power selection mode
- ▶ Constant stirring speeds even with viscosity changes
- ▶ SPC-mode for a low self-warming of the surface
- ▶ Error code display
- ▶ Can be operated with **Labs-connect App** over Wifi/USB Controls

Item Code	Volt	Hz	Watts	Price (INR)
415.DNDG.01	230	50	220	74000
415.DNDG.02	115	60	220	

415.DNDG

Technical Specification

Set-up plate material	Silicone and Aluminium
Number of stirring positions	15
Stirring position distance	90 mm
Speed range	0 - 1000 rpm
Speed control	10 RPM Steps
Stirring quantity max. per stirring position (H2O)	400 ml
Stirring bar length min.	25mm
Stirring bar length max.	30mm
Heating temperature range	Room temp. - 120°C
Control display	LED
Input Type	Touch Key
Adjustable safety circuit min.	50°C
Adjustable safety circuit max.	130°C
Timer range	00:01 to 99:59 [HH: MM]
Set-up plate dimensions	274x504mm
Dimensions (W x H x D)	281 x 81 x 609 mm
Weight	11 Kg (Approx.)
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP40

Included Accessories

Item Code	Accessories
1500.150.02	(5) magnetic Stirring bar 25 mm x 9 mm



Flat Stirrer- IP 65

Digital

Ultra-flat compact magnetic stirrer, guaranteed with modern magnet coil technology. Wear-free drive with no moving parts. To ensure better mixing, the lab disc can reverse direction of rotation automatically every 30 seconds.



- ▶ Unibody design gives IP65 performance
- ▶ Ultra-flat compact magnetic stirrer, guaranteed with modern magnet coil technology.
- ▶ Wear-free drive with no moving parts.
- ▶ 7 Stirring modes for better mixing
- ▶ Moteless, No Noise
- ▶ Fail proof, Long working

Product Features

- Set-up plate and casing made from chemically resistant materials
- Slip-proof, safe stand
- Max. stirring quantity (H₂O): 800 ml
- Speed range: 10 - 1500 rpm

Item Code	Volt	Hz	Watts	Price (INR)
430.DNDG.01	230	50	130	12500
430.DNDG.02	115	60	130	

430.DNDG

Technical Specification

Number of stirring positions	1
Stirring quantity max. per stirring position (H ₂ O)	0.8 l
Motor Rating output	3 W
Speed Range	15 - 1500 rpm
Stirring Bar Length Max.	25 mm
Set-up Plate Material	Polyester
Set-up plate dimensions	Ø 100 mm
Dimensions (W x H x D)	117 x 12 x 180 mm
Weight	0.3 kg
Permissible Ambient Temperature	5 - 40 °C
Permissible Relative Humidity	0 %
Voltage	100 - 240 V
Frequency	50/60 Hz
Power input	5 W
Weight of Capacity	10kg
IP Class	65



Magnetic Stirrer-50L

Digital



- ▶ Large display allow viewing from distance
- ▶ Powerful magnet stirrer large volume
- ▶ Acceleration adjust for volume & viscosity combination
- ▶ Auto power 'ON' possible
- ▶ Detachable wire & wireless remote add value for placing under large vessel
- ▶ SS 304 construction
- ▶ Large surface to assist large vessels upto 20, 30 40 & 50L
- ▶ High magnetic strength
- ▶ Electronic variable speed control
- ▶ Independent display for RPM & Time
- ▶ Choice of 7 modes of rotation
- ▶ Power adjust feature
- ▶ Optional remote

Item Code	Volt	Hz	Watts	Cap. (Ltr.)	Price (INR)
420.DNDG.01	100-240	50/60	50	20	59500
440.DNDG.01	100-240	50/60	50	40	65000
450.DNDG.01	100-240	50/60	50	50	69000
4100.DNDG.01	100-240	50/60	50	100	
4200.DNDG.01	100-240	50/60	50	200	

450.DNDG

Technical Specification

Speed range	100 - 2000 rpm
Timer range	0:01 to 99:59 (HH:MM)
Stirring power mode	50%,75%,100%
Acceleration mode	Yes
Timer bypass	Yes
Display type	Led segment
Stirring power (max.)	50W
Operating voltage	24VDC
Power supply	100-240 VAC / 50-60 Hz / 2A
Dimensions (WxDxH)	370x415x115mm
Weight Approx.	11Kg
Material Housing	Stainless steel-304
Permitted operation conditions	5 to 40 °C (at 80% humidity)
Protection category	IP20



STIR
2000 RPM



STIR MODES
SELECTION



INFRARED
SENSOR



OPTIONAL
REMOTE



7 MODE
SELECTION



POWER
SELECT



Heating Mantle

Analog

BlackDiamond™

DAN
LOGITECH



- ▶ PU Coated Aluminium & Stainless Steel construction
- ▶ Simply set power knob to attained selected values
- ▶ Designed for advanced Laboratory usage
- ▶ SS & Aluminium Construction
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Glass fibre yarn knitted mantle provides uniform heating to flask
- ▶ Predictable electronic power regulator
- ▶ Provision to attach accessories
- ▶ Innovative spill collect system enables collection of spillage in case of breakage of flasks upto 5 Ltr
- ▶ Fewer parts give longer life
- ▶ Easy to use and maintain

Item Code (230V, 50Hz)	Item Code (115V, 60Hz)	Cap. (ml)	Watts	Dimension (WxDxH)	Price (INR)
1220.DNEU.01	1220.DNUS.01	100*	200	167x240x182	9400
1220.DNEU.02	1220.DNUS.02	250*	200	167x240x182	9400
1220.DNEU.03	1220.DNUS.03	500*	250	217x287x203	10500
1220.DNEU.04	1220.DNUS.04	1000*	350	217x287x203	10500
1220.DNEU.05	1220.DNUS.05	2000*	500	309x390x262	13500
1220.DNEU.06	1220.DNUS.06	3000*	500	309x390x262	13500
1220.DNEU.08	1220.DNUS.08	5000	650	309x390x262	14200
1220.DNEU.09	1220.DNUS.09	6000	650	-	14200
1220.DNEU.10	1220.DNUS.10	10000	1250	-	19650
1220.DNEU.11	1220.DNUS.11	20000	1850	-	23200

Optional Accessories

Item Code	Accessories	Price (INR)
850.800.01	SS Rod (542mm, Ø 9mm)	896
850.800.04	Bosshead	621

1220.DNEU

Technical Specification

Heating Mantle Body	Metallic, SS & Aluminium construction
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 20000ml (as per DIN 12347)
Temperature Range	~400°C
Control Accuracy	10%
Heating Control	Variable
Weight	1.7 Kgs
Permissible Ambient Temperature	5- 40 °C
Permissible relative moisture	80%
IP Class	10



*For lower volumes only.

The spill protect feature is provided in models upto 2000ml.



Heating Mantle

Digital

BlackDiamond™

DAN
LOGITECH



- ▶ Designed for advanced Laboratory usage
- ▶ Control the temperature of subject in flask using probe
- ▶ Temperature control with digital display
- ▶ Celsius/Fahrenheit selection
- ▶ Mantle/Probe selection
- ▶ SS & Aluminium Construction
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Glass fibre yarn knitted mantle provides uniform heating to flasks
- ▶ Innovative spill collect system enables collection of spillage in case of breakage of flasks
- ▶ Fewer parts give longer life
- ▶ Easy to use and maintains
- ▶ Provision to attach accessories
- ▶ Auto Power 'ON' possible
- ▶ Glass fibre Insulation saves power wastage
- ▶ Probe based low temperature of liquid

Item Code (230V, 50Hz)	Item Code (115V, 60Hz)	Cap. (ml)	Watts	Dimension (WxDxH)	Price (INR)
1222.DNEU.01	1222.DNUS.01	100*	200	167x240x182	15000
1222.DNEU.02	1222.DNUS.02	250*	200	167x240x182	15000
1222.DNEU.03	1222.DNUS.03	500*	200	217x287x203	16400
1222.DNEU.04	1222.DNUS.04	1000*	250	217x287x203	16400
1222.DNEU.05	1222.DNUS.05	2000*	350	309x390x262	22500
1222.DNEU.06	1222.DNUS.06	3000*	500	309x390x262	22500
1222.DNEU.08	1222.DNUS.08	5000*	650	309x390x262	22500
1222.DNEU.09	1222.DNUS.09	6000	650	-	Price on request
1222.DNEU.10	1222.DNUS.10	10000	1250	-	Price on request
1222.DNEU.11	1222.DNUS.11	20000	1850	-	Price on request

1222.DNEU

Technical Specification

Heating Mantle Body	Metallic, SS & Aluminium construction
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 5000ml
Heating Control	Microprocessor based PID
Temperature Range	~400°C
Control Accuracy	10%
Weight	2.4 Kgs
Permissible Ambient Temperature	5- 40 °C
Permissible relative moisture	80%
IP Class	10



Spill collect system

*For lower volumes only.

The spill protect feature is provided in models upto 2000ml.



Digital Heating Mantle

with Stirrer

BlackDiamond™



With **STIRRER**



1221.DNEU

- ▶ Designed for advanced Laboratory usage
- ▶ Control the temperature of subject in flask using probe
- ▶ Temperature control with digital display
- ▶ Celsius/Fahrenheit selection
- ▶ Mantle/Probe selection
- ▶ SS & Aluminium Construction
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Glass fibre yarn knitted mantle provides uniform heating to flasks
- ▶ Innovative spill collect system enables collection of spillage in case of breakage of flasks
- ▶ Fewer parts give longer life
- ▶ Easy to use and maintains
- ▶ Provision to attach accessories
- ▶ Electronic stir speed control
- ▶ Glass fibre Insulation saves power wastage
- ▶ Auto Power 'ON' possible

Item Code 230 Volts/50Hz	Item Code 115 Volts/60Hz	Cap. (ml)	Watts	Dimension	Price (INR)
1221.DNEU.01	1221.DNUS.01	100	220	167x240x182	21800
1221.DNEU.02	1221.DNUS.02	250	220	167x240x182	21600
1221.DNEU.03	1221.DNUS.03	500	270	217x287x203	23100
1221.DNEU.04	1221.DNUS.04	1000	370	217x287x203	23100
1221.DNEU.05	1221.DNUS.05	2000	520	309x390x262	27500
1221.DNEU.06	1221.DNUS.06	3000	520	309x390x262	28000
1221.DNEU.08	1221.DNUS.08	5000	670	309x390x262	30000

Technical Specification

Heating Mantle Body	Made of SS & Aluminium
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 5000ml
Variable Speed Range	Approx. upto 800 RPM
Temperature Range	400°C
Control Accuracy	10%
Heating Control	Digital
Stir Control	Electronic
Dimension	168x240x182 (WxDxH)
Permissible Ambient Temperature	5- 40 °C
Permissible relative moisture	80%
IP Class	10

Included Accessories

Item Code	Accessories
1500.150.02	Magnetic Stirring bar 25 mm x 9 mm
850.800.01	SS Rod (400mm, Ø 12mm)
850.800.03	Moulded PT 100 Sensor probe Bosshead



Spill collect system

*For lower volumes only.

The spill protect feature is provided in models upto 2000ml.



Heating Mantle

with Stirrer Analog

BlackDiamond™



With
STIRRER



1223.DNEU

- ▶ Designed for advanced Laboratory usage
- ▶ SS & Aluminium Construction
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Glass fibre yarn knitted mantle provides uniform heating to flasks
- ▶ Predictable electronic power regulator
- ▶ Knob for stir speed control upto 800 RPM
- ▶ Innovative spill collect system enables collection of spillage in case of breakage of flasks
- ▶ Fewer parts give longer life
- ▶ Easy to use and maintain
- ▶ Provision to attach accessories

Item Code 230 Volts/50Hz	Item Code 115 Volts/60Hz	Cap. (ml)	Watts	Dimension	Price (INR)
1223.DNEU.01	1223.DNUS.01	100	220	167x240x182	15000
1223.DNEU.02	1223.DNUS.02	250	220	167x240x182	15000
1223.DNEU.03	1223.DNUS.03	500	270	217x287x203	15000
1223.DNEU.04	1223.DNUS.04	1000	370	217x287x203	16200
1223.DNEU.05	1223.DNUS.05	2000	520	309x390x262	19500
1223.DNEU.06	1223.DNUS.06	3000	520	309x390x262	19500
1223.DNEU.08	1223.DNUS.08	5000	670	309x390x262	19500

Technical Specification

Heating Mantle Body	Metallic, SS & Aluminium construction
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 5000ml
Temperature Range	~400°C
Control Accuracy	10%
Variable speed range	~800 RPM
Weight	2.5 Kgs
Permissible Ambient Temperature	5- 40 °C
Permissible relative moisture	80%
IP Class	10

Included Accessories

Item Code	Accessories
1500.150.02	Magnetic Stirring bar 25 mm x 9 mm
850.800.01	SS Rod (400mm, Ø 12mm)
850.800.03	Moulded PT 100 Sensor probe Bosshead



Spill collect system

*For lower volumes only.

The spill protect feature is provided
in models upto 5000ml.



Advanced Heating Mantle

with Stirrer - Digital

BlackDiamond™ PRO



With
STIRRER



- ▶ PU Coated Aluminium & Stainless Steel construction
- ▶ Setable temperature trigger to sound alarm
- ▶ Infinite stirring/ time provided also
- ▶ Designed for advanced Laboratory usage
- ▶ SS & Aluminium Construction
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Single shuffle knob to set temperature, stir speed & time of activity
- ▶ Independent keys for C/F selection & mantle/probe selection
- ▶ Accurately Control liquid temp. with included PT 100 sensor probe
- ▶ Glass fibre yarn knitted mantle provides uniform heating to flasks
- ▶ Innovative spill collect system enables collection of spillage in cases of breakage of flasks
- ▶ Probe based prescribed control of liquid
- ▶ Auto Power 'ON'
- ▶ Rugged SP motor

Item Code 230 Volts/50Hz	Item Code 115 Volts/60Hz	Cap. (ml)	Watts	Dimension	Price (INR)
1225.DNEU.01	1225.DNUS.01	100	220	240x315x203	27200
1225.DNEU.02	1225.DNUS.02	250	220	240x315x203	27200
1225.DNEU.03	1225.DNUS.03	500	270	240x315x203	27500
1225.DNEU.04	1225.DNUS.04	1000	370	240x315x203	27500
1225.DNEU.05	1225.DNUS.05	2000	520	309x390x262	31750
1225.DNEU.06	1225.DNUS.06	3000	520	309x390x262	31750
1225.DNEU.08	1225.DNUS.08	5000	670	309x390x262	32800

Technical Specification

Operating voltage	230VAC/50Hz
Display type	LED segment
Temperature range	~400 °C
Temperature step size	1°C
Temperature resolution	±1°C
Stir range	50 to 800RPM
Stir step size	50RPM
Weight	3.2 Kgs
Timer range	00:01 to 99:59
Timer step size	00:01
External probe connection	DIN Port
IP Class	10

1225.DNEU



Included Accessories

Item Code	Accessories
1500.150.01	Magnetic Stirring bar 20mmx8mm (For 100-1000ml)
1500.150.02	Magnetic Stirring bar 25mmx9mm (For 2000-5000ml)
850.800.01	SS Rod (542mm, Ø 9mm)
850.800.03	Moulded PT 100 Sensor probe Bosshead



Spill collect system

The spill protect feature is provided in models up to 2000ml.



Heating Mantle Combined Unit

with Stirrer 3 Position - Analog

BlackDiamond™



2300.DNEU

- ▶ PU Coated Mild Steel construction
- ▶ Heating Mantle Combined unit made of M. steel
- ▶ ON-OFF knob for heat power control
- ▶ Stir speed control also available
- ▶ Mantle knitted with glass fibre yarn
- ▶ Provides uniform heating to flasks
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Easy maintenance
- ▶ Long Life
- ▶ Also available with Metallic Stand 1600.EU

Item Code	Cap. (ml)	Volts	Watts	No. of Position of Regulator	Price (INR)
2300.DNEU.01	100	230	660	3/3	38000
2300.DNEU.02	250	230	660	3/3	38900
2300.DNEU.03	500	230	810	3/3	41800

Item Code	Cap.(ml)	Volts	Watts	No. of Position of Regulator
2300.DNUS.01	100	115	660	3/3
2300.DNUS.02	250	115	660	3/3
2300.DNUS.03	500	115	810	3/3

Included Accessories

Item Code	Accessories
2000.200.01	Vertical Rod Stainless Steel length 542mm, Ø 9.8 mm
2000.200.02	Horizontal Rod Stainless Steel length 972mm, Ø 9.8 mm
2000.200.03	Boss Head
2000.200.04	Clamp

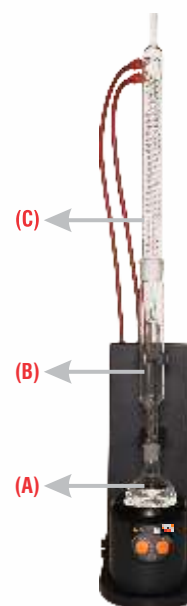
Technical Specification

Heating Mantle Body	Made of Mild Steel
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 500ml
Valuable Stirring speed	750 RPM
Temperature Range	Approx. 400°C
Heating Control	Electronic power regulator
Stir Control	Electric regulator
Dimension	495 x 246 x 200
Permissible Ambient Temperature	5- 40 °C
Permissible relative moisture	80%
Weight	7.3 Kgs
IP Class	10

Single Soxhlet Extraction with Stirrer

Extraction unit metal stand with heating mantle stirrer

Model No. (230V, 50 Hz)	Model No. (115V, 60 Hz)	Cap. (ml) (A)	Extractor Socket (B)	Extractor Cone (C)	Flask Cap.	Condenser Type	Watts	No. of Position of regulator	Price (INR)
1601.DNEU.01	1601.DNUS.01	100	40/38, 45/40	24/29, 29/32	150 & 250	Allihin	170	1/1	20200
1601.DNEU.02	1601.DNUS.02	250	45/40	29/32	500	Allihin	170	1/1	20500
1601.DNEU.03	1601.DNUS.03	500	60/46	29/32	1000	Allihin	220	1/1	21900



Heating Mantle Combined Unit

with Stirrer 6 Position - Analog

BlackDiamond™

- ▶ PU Coated Mild Steel construction
- ▶ Heating Mantle Combined unit made of M. steel
- ▶ ON-OFF knob for heat power control
- ▶ Mantle knitted with glass fibre yarn
- ▶ Provides uniform heating to flasks
- ▶ For Round Bottomed Flasks as per DIN - 12347
- ▶ Easy maintenance
- ▶ Long Life
- ▶ Also Available with metallic stand 1100.EU



2600.DNEU

Item Code 230 Volts/50Hz	Item Code 115 Volts/60Hz	Cap. (ml)	Watts	No. of Position of Regulator	Price (INR)
2600.DNEU.01	2600.DNUS.01	100	600	3/3	21300
2600.DNEU.02	2600.DNUS.02	250	600	3/3	21700
2600.DNEU.03	2600.DNUS.03	500	750	3/3	23900
2600.DNEU.06	2600.DNUS.06	100	1200	6/6	27500
2600.DNEU.07	2600.DNUS.07	250	1200	6/6	30100
2600.DNEU.08	2600.DNUS.08	500	1500	6/6	31500

Included Accessories

Item Code	Accessories
2000.200.01	Vertical Rod Stainless Steel length 542mm, Ø 9.8 mm
2000.200.02	Horizontal Rod Stainless Steel length 972mm, Ø 9.8 mm
2000.200.03	Boss Head
2000.200.04	Clamp

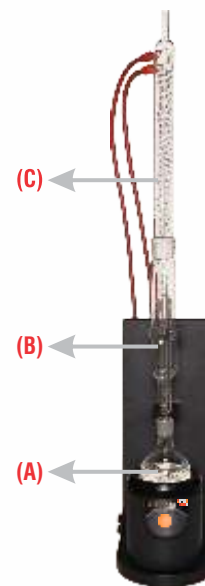
Technical Specification

Heating Mantle Body	Made of Mild Steel
Heating Mantle Material	Glass Fibre Yarn
Mantle Capacity	To hold standard Round Bottom Flasks upto 500ml
Valuable Stirring speed	750 RPM
Temperature Range	Approx. 400°C
Heating Control	Electronic power regulator
Stir Control	Electric regulator
Dimension	495 x 246 x 200
Permissible Ambient Temperature	5- 40 °C
Weight	10.2 Kgs
Permissible relative moisture	80%
IP Class	10

Single Soxhlet Extraction with Stirrer

Extraction unit metal stand with heating mantle stirrer

Model No. (230V, 50 Hz)	Model No. (115V, 60 Hz)	Capacity ml (A)	Extractor Socket (B)	Extractor Cone (C)	Flask Cap.	Condenser Type	Watts	No. of Position of regulator	Price (INR)
1101.DNEU.01	1101.DNUS.01	100	40/38, 45/40	24/29, 29/32	150 & 250	Allihin	170	1/1	14900
1101.DNEU.02	1101.DNUS.02	250	45/40	29/32	500	Allihin	170	1/1	15100
1101.DNEU.03	1101.DNUS.03	500	60/46	29/32	1000	Allihin	220	1/1	15300



Digital Overhead Stirrer-60L

(With WiFi)



- ▶ Independent LED display for RPM, Timer & Temperature
- ▶ User Friendly
- ▶ Brushless DC motor
- ▶ Liquid cannot reach internal components due to front safeguard
- ▶ Audible alarm for error conditions
- ▶ Effective stirring provides clock wise & anti clock wise stirring modes
- ▶ Prominent used in chemical synthesis, pharmaceuticals, physical & chemical analysis, petrochemical, cosmetics, health products, foods, biotechnology & so on
- ▶ Can be operated with **Labs-connect App** over Wifi/USB Controls

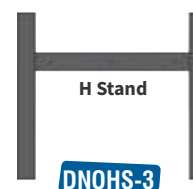
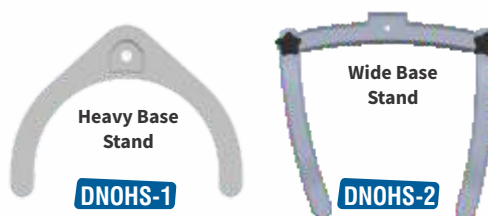
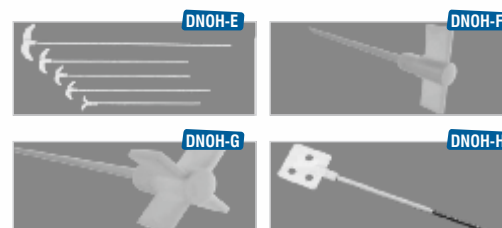
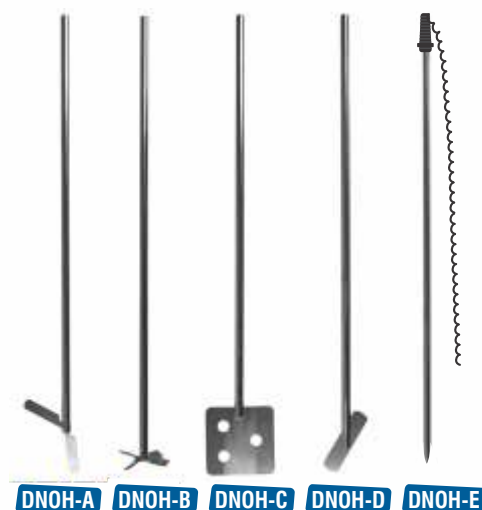
CAPACITY :
10-40 Ltr.
& 40-60 Ltr.

6050T.DNEU/6100T.DNEU

Technical Specification

Model No.	6050T.DNEU.01	6100T.DNEU.01
Price (INR)	52000	42000
Speed Range	50-1500RPM	50-3000RPM
Max. Torque	80N.cm	65N.cm
Max. Viscosity	10000 mPass	6000 mPass
Max. Stirring	40-60L	10-40L
Timing Range	1min - 99:59min	1min - 99:59min
T-On Time	5 - 999 Sec	5 - 999 Sec
T-Off Time	0, 5 - 999 Sec	0, 5 - 999 Sec
Wifi Control	Yes	Yes
Temperature Measurement	Yes	Yes
Stirring Shaft Extension Feature	Yes	Yes
Stirring Modes	Yes	Yes
Motor Type	BLDC	BLDC
Operating Voltage	24VDC	24VDC
Supply Voltage	100 - 240Vac, 50/60Hz	100 - 240Vac, 50/60Hz
Power	130	130
Dimension	90x240x220mm	90x240x220mm
Net Weight	11.4kg	11.4kg
IP	54	54

Optional Accessories



Digital Overhead Stirrer-40L

(Without WiFi)



- ▶ Independent LED display for RPM & Timer
- ▶ User Friendly
- ▶ Brushless DC motor
- ▶ Liquid cannot reach internal components due to front safeguard
- ▶ Audible alarm for error conditions
- ▶ Effective stirring provides clock wise & anti clock wise stirring modes
- ▶ Prominent used in chemical synthesis, pharmaceuticals, physical & chemical analysis, petrochemical, cosmetics, health products, foods, biotechnology & so on

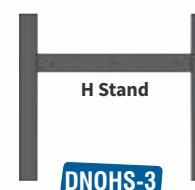
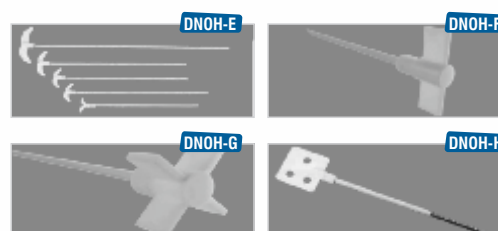
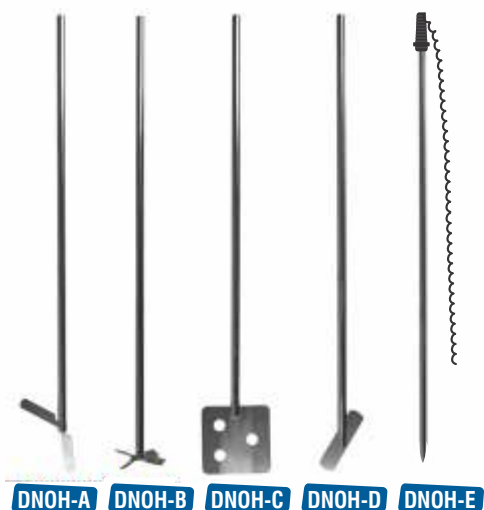
CAPACITY :
10-40 Ltr.
& 40-60 Ltr.

6050.DNEU/6100.DNEU

Technical Specification

Model No.	6050.DNEU.01	6100.DNEU.01
Price (INR)	45500	38500
Speed Range	50-1500RPM	50-3000RPM
Max. Torque	80N.cm	65N.cm
Max. Viscosity	10000 mPass	6000 mPass
Max. Stirring	40-60L	10-40L
Timing Range	1min - 99:59min	1min - 99:59min
T-On Time	5 - 999 Sec	5 - 999 Sec
T-Off Time	0, 5 - 999 Sec	0, 5 - 999 Sec
Wifi Control	No	No
Temperature Measurement	No	No
Stirring Shaft Extension Feature	Yes	Yes
Stirring Modes	Yes	Yes
Motor Type	BLDC	BLDC
Operating Voltage	24VDC	24VDC
Supply Voltage	100 - 240Vac, 50/60Hz	100 - 240Vac, 50/60Hz
Power	130	130
Dimension	90x240x220mm	90x240x220mm
Net Weight	11.2kg	11.2kg
IP	54	54

Optional Accessories



Roller Mixer

Rolling & Mixing

- ▶ Efficient Rolling and swinging motion for mixing blood samples, Liquid solid suspension & various substance
- ▶ Digital set-up for RPM & time with independent LED display
- ▶ Maximum stirring speed upto 80RPM
- ▶ Seven rollers with small foot print & easy cleaning
- ▶ Brushless DC motor
- ▶ Compatible for use with wide range of tubes
- ▶ Used for prevention of blood coagulation and immune precipitation etc



Item Code	Volt	Hz	Watts	Price (INR)
4000.DNEU.01	230	50	50	28500
4000.DNUS.01	115	60	50	-

4000.DNEU

Technical Specification

Mixer Body Material	Plastic
Operation Mode	Rolling & Swinging
Amplitude	24mm
Roller Quantity	7
Speed Range	10-80RPM
Speed Unit	1RPM
Roller Length	280mm
Motor	Brushless DC motor
Dimension (DxWxH)	500 x 280 x 120mm
Max. Capacity	4kgs
Weight of Body	3.1kg
Voltage	AC100-240 50-60Hz
Power	50W



SPEED RANGE
10 to 80 RPM



BRUSHLESS
DC motor



TIMER (WITH COUNTDOWN)
upto 99:59min



POWER
50W



Mini Centrifuge

Dual Speed



- ▶ Patented high tech motor causes low working noise
- ▶ Produces low vibration with advanced shock absorbers
- ▶ Compact design and can carry higher volume of 2 ml x 8 places
- ▶ Easy replacement of rotor
- ▶ Maximum relative centrifugal force upto 3260G
- ▶ Fast Stopping in 15 seconds with cover breaking time of 3 seconds.
- ▶ Spatial rotation for 360° are shape, low windage resistance with slow temperature increase
- ▶ Filtration & voltage regulation function makes smooth running of unit & causes low rotation difference.

Item Code	Volt	Hz	Watts	Price (INR)
5000.DNEU.01	230	50	130	17000
5000.DNEU.02	115	60	130	-

Included Accessories

Item Code	Accessories
5000.303.01	2ml x 8, 0.5ml, 0.2ml adapter each 8 pcs
5000.303.02	2ml x 8, 8 x 0.2ml tubes strip x 2 rows

5000.DNEU

Technical Specification

Body Material	Main Frame : ABS, Cover : PC, Adapter : PP, Absorber : NBR, Roller : ABS
Speed Range	4000 TO 7200 RPM ($\pm 20\%$)
RCF	810~3260xg
Rotor types	Rotor, 2ml x 8 and 0.2ml x 8, 0.2ml x 8 tubes strip x 2 rows
Max. Capacity	2ml x 8
Dimension (WxDxH)	174x157x130mm
Speed Control type	Constant speed
Driving Speed	Direct drive
Brake System	Dynamic
Acceleration Time	90% speed in 5 seconds
Deceleration Time	Cover closed within 15 seconds, cover opens within 6 seconds
IP Class	54



SPEED BUTTON
4000 to 7200 RPM



CONSTANT SPEED
90% in 5 sec



BODY DESIGN
Shockfree



CENTRIFUGAL FORCE
3260 G



DYNAMIC
Brake System





- ▶ Compact design
- ▶ Application in molecular biology, immunology, chemistry lab
- ▶ Built in DC brushless motor
- ▶ Microprocessor controlled
- ▶ User-Friendly
- ▶ Silent and stable operation
- ▶ Digital set up of RPM and time with independent LED display
- ▶ Maximum stirring speed upto 300RPM
- ▶ Audible alarm at time cycle end for safety and ease of unsupervised operation
- ▶ Compatible for use with various capacity conical flasks and different sample containers.
- ▶ Available with Flat platform (Cat. No. 3500.303.01)

Item Code	Volt	Hz	Comes with	Price (INR)
3500.DNEU.01	230	50	Platform, Flat, Non-Slip Mat	72600
3500.DNUS.02	115	60	Platform, Flat, Non-Slip Mat	

Technical Specification

Shaker Body Material	Plastic
Speed Range	50-300 RPM
Orbit	20 MM
Dimensions of Body	284 x 264 x 108 mm
Max. Loading Capacity	2.0kgs
Permissible ambient Temp.	5 - 45°C
Voltage	AC 100 - 230V (50/60 Hz)
Timing Range	1min - 99Hrs 59Min
IP Class	20

3500.DNEU

Included :

Platform, Flat, Non-Slip Mat



General Optional Accessories

Platform, Flat, Non-Slip Mat



INCLUDED

3500.303.01

Platform, Double



3500.303.02

Platform, Universal, with 3 secured bars



3500.303.03

Platform with clamps, 6 Places (250ml)



3500.303.04

Platform with clamps, 12 Places (100ml)



3500.303.05

Platform universal for tubes



3500.303.06

Incubator Shaker-Inbuilt Cooling

With Heating & Cooling - **Digital**



- ▶ SS 304 Internal
- ▶ PU coated outer body made of mild steel
- ▶ Compact design
- ▶ Available with Flat platform
- ▶ BLDC motor driven
- ▶ Microprocessor controlled
- ▶ User-Friendly
- ▶ Application in molecular biology, immunology, chemistry lab
- ▶ Low power consumption
- ▶ Maximum stirring speed upto 300RPM
- ▶ Digital set up of RPM and time with independent LED display
- ▶ Audible alarm at time cycle end for safety and ease of unsupervised operation
- ▶ Silent and stable operation
- ▶ Compatible for use with various capacity conical flasks and different sample containers
- ▶ Powerful efficient 800W Heater

Item Code	Volt	Hz	Price (INR)
3900.DNEU.01	230	50	210000
3900.DNEU.01	115	60	

3900.DNEU

Technical Specification

Shaker Body Material	Metal
Speed Range	50~300 rpm
Fan Speed	1200~3200 rpm
Orbit (Horizontal)	20 mm
Dimensions of Body	609x770x515 (WxDxH)
Platform Size	480x315x80 (WxDxH)
Permissible ambient Temp.	4 - 45°C (Approx.)
Temp. Control Range	4-60°C
Power	AC 100 - 230V, 600 W
Timer	1min - 99Hrs 59Min
Temp. Control Accuracy	± 0 ± 0.3°C
IP Class	30
Can Handle	Upto 20 Kgs



STIR
300 RPM



CELSIUS TO FAHRENHEIT



TIMER
00:01-99:59



HEAT/STIR/TIME BUTTON



TEMPERATURE
Upto 60°C



HEAT/STIR/TIME DISPLAY



INBIULT
6 Modes



FAN/UV LIGHT/LAMP





- ▶ Outer shell and touch concave are made of plastic & silicone which has resistance to chemical attacks.
- ▶ The thick base makes it very steady and reliable.
- ▶ The maximum diameter of the mixed tube is up to 30mm.
- ▶ Suitable for mixing tubes / centrifugal tubes with prominent mixing effect.
- ▶ 12V low voltage power adapter driven, very smart and portable. Various speed adjustment with indicator.

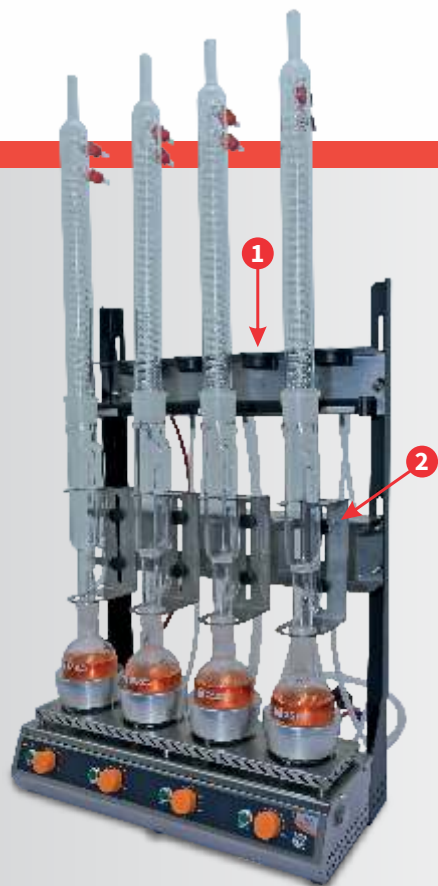
Item Code	Volt	Hz	Watts	Price (INR)
3700.DNEU.01	230	50	130	9700
3700.DNUS.02	115	60	130	-

3700.DNEU

Technical Specification

Body Material	Base : Steel Alloy, Main Frame : ABS, Cap : Silicone
Speed Range	0~4000 RPM
Max. Capacity	50ml tube (Ø 30 mm)
Dimension (WxDxH)	114 x 114 x 93mm
Shaking Orbit	4.5mm
Power Input/Output	1.2W/0.8W
Voltage	DC 12V 1A
Power	12W
Net Weight	850 gms
IP Class	62





- ▶ Cost-effective and user-friendly apparatus for Fat extraction.
- ▶ Individually adjustable power/energy for every sample position.
- ▶ Uniform Cooling water distribution, ensures cooling at every sample positions.
- ▶ Inbuilt Condenser-ledge⁽¹⁾ to safely deposit the condenser between hot extractions.
- ▶ C Types Brackets⁽²⁾ for safely holding the intermediate extraction pieces after removing the sample container.

Item Code	Volt	Hz	Watts	Price (INR)
1900.DNEU.01	230	50	130	109000
1900.DNUS.01	115	60	130	-



Technical Specification

Voltage	230 VAC
Frequency	50 Hz
Power consumption	~1500 W
Power consumption	7 A
Weight (without glass)	approx. 15 kg
Flask Capacity	250ml
Extraction Capacity	500ml
Condenser	100ml
Plate/Adaptor Temp.	upto 400°C
Dimensions in cm (W x D x H)	504x274x765 mm
(without glass)	
IP Class	20

Also Available

4 Position Soxhlet Extraction (Digital)

Item Code	Volt	Hz	Watts	Price (INR)
1950.DNEU.01	230	50	130	119000
1950.DNUS.01	115	60	130	-





Compact, universal small shaker suitable for shaking tasks with all small vessels with adapters and microtiter plates

- ▶ PU Coated aluminum Alloy Construction
- ▶ 2 in 1 vortex with shot mode & shaking mode gives result quickly
- ▶ Support thirteen different adaptors
- ▶ Wide range of attachments available
- ▶ Timer with countdown function
- ▶ Stable in all speed ranges
- ▶ Sturdy Aluminum die cast casing
- ▶ Continuous or touch/shot operation (with standard attachment)

Two operating modes:

The maximum speed of 3,000 rpm is for the standard attachment in touch mode. When using other attachments the speed should be limited to 1,300 rpm.

Item Code	Volt	Hz	Price (INR)
3800.DNEU.01	230	50	28000
3800.DNUS.01	115	60	

Technical Specification

Type of movement	Orbital
Shaker Diameter	3 mm
Permissible orbit weight (incl. attachment)	0.5 kg
Permissible ON time	100%
Speed min (adjustable)	100 rpm
Speed range	100 - 3000 rpm
Speed display	LED
Speed deviation	1%
Timer	yes
Timer display	LED
Time setting min.	1 s
Time setting max.	100 Hrs
Operating mode	Timer and Continuous Operation
Touch/ shot function	yes
Working with microtiter plates	yes
Number of microtiter plates	1
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80%
Protection class according to DIN EN 60529	IP 21
Adaptors	Available
Voltage	100 - 240 V
Frequency	50/60 Hz
Power input	7 W
DC Voltage	24 V
IP Class	21

3800.DNEU

Optional Foam Adaptors



Optional Accessories





1800.DNEU

Technical Specification

6 Position

Power	1500 W
No. of Opening	6
Temperature-control range	RT-99.9°C
Temperature-fluctuation	±0.5°C
Dimension	120 (D) x 110 (H)
Working Room (cm)	50x30x15
Weight	8.9 Kgs
IP Class	34



POWER
1500 W



TEMPERATURE
Upto 99.9 °C



POWER
2000 W



TEMPERATURE
Upto 99.9 °C

Uses:

- ▶ This apparatus is designed for use in distilling, drying, concentrating and heat soaking chemicals or biological products.
- ▶ Temperature control by means of PID controller.
- ▶ Inner chamber with SS 304

MODELS:

The water baths are available in two models - 6 & 12

POSITIONS :

6 & 12 Position

Item Code	Volts/Hz	Positions	Price (INR)
1800.DNEU.01	230/50	6	25550
1800.DNEU.02	230/50	12	59000
1800.DNUS.01	115/60	6	-
1800.DNUS.02	115/60	12	-

12 Position

Power	2000 W
No. of Opening	12
Temperature-control range	RT-95°C
Temperature-fluctuation	±2°C
Dimension	120 (D) x 90 (H)
Working Room (cm)	92x32x12
Weight	21 Kgs
IP Class	34





High quality stainless steel material, heat resisting and anticorrosion, Digital controller digital display, durable.

- ▶ This heated bath is used in the laboratory to allow a chemical reaction to occur at an elevated temperature.
- ▶ This heated bath is a fluid placed in an open (metal) pot. Water and silicone oil are the most commonly used fluids. A water bath is used for temperatures up to 100 °C. An oil bath is employed for temperatures over 100°C.
- ▶ This heated bath is heated on a hot plate, or with a bunsen burner. The reaction chamber (Florence flask, Erlenmeyer flask, beaker) is immersed in the heated bath. A thermometer is usually kept in the fluid to monitor the temperature.

Item Code	Volt	Hz	Price (INR)
1850.DNEU.01	230	50	32500
1850.DNUS.01	115	60	-

1850.DNEU

Technical Specification

Heating Power	800W
Temperature control range	RT~100°C
Temperature fluctuation	± 0.5 Celsius
Working size(mm ³)	Ø26× 16
Display	Digital
Weight	7.4 Kgs
IP Class	34



POWER
800 W



TEMP./TIME
BUTTON



TEMPERATURE
Upto 100°C



TEMP./TIME
DISPLAY



SET
ALARM





GLIEC

The tester features a unique metal surface electrode that provides fast and easy on the spot EC(mS/cm) measurements for soil and hydroponics nutrient etc.

Operating Instruction

1. Take off the protective cap from metal probe
2. Press OFF/ON button Tester display "0".
3. Quick testing : Water the soil with distilled water before testing. Make sure the water can go 10 cm deep the least. Best humidity is 60%-80%. Insert the metal probe into soil vertically and clockwise, to about 6-8 cm deep. Make sure the soil have thorough contact with metal probe. After about 6 seconds, the tester will display the measured value. Tightness of soil will affect measuring result. Multiple tests at the same and different points should be performed and take the average as final result.
Accurate testing : Use a container, mixdried soil with distilled water at the rate of 10:1. Stir and make it into a mud form. Put the metal probe into the mud about 6-8CM deep. About 6 seconds, the tester will display the measured value.
4. Wipe the metal probe with towel or tissue paper after each test. Make it clean and dry. till the display show "0".

Item Code	Pack of	Price (INR)
GLIEC	2	45000

Technical Specification

Range	: 0-1999 EC(mS/cm);
Resolution	: 0.10 EC(mS/cm)
Accuracy	: ±0.1EC (00-100 EC)
Operating Temp	: 5-45°C (41 - 113°FVATC)
Calibration	: 1 point (6.7EC /Factory calibrated -No more calibration)
Power supply	: DC 9V(L1022 battery)
Display	: LCD with illumination
Dimension	: Φ 50.5 x 250 mm
Probe length	: 140mm
Features	: Automatic switch-off function : After about 5 minutes without pushing buttons, the meter will be switched off automatically (or manual shutdown)
Weight	: 110 Gms (Approx)
IP Class	: 64



Digital Instant N-P-K Tester

for Soil Testing

The electro-chemical method uses innovative technology of ionization reduction

Operating Instruction

1. Take off the protective cap from metal probe
2. Press OFF/ON button Tester display "0".
3. **Quick testing** : Water the soil with distilled water before testing. Make sure the water can go 10 cm deep the least. Best humidity is 60%-80%. Insert the metal probe into soil vertically and clockwise, to about 6-8 cm deep. Make sure the soil have thorough contact with metal probe. After about 6 seconds, the tester will display the measured value. Tightness of soil will affect measuring result. Multiple tests at the same and different points should be performed and take the average as final result.
Accurate testing : use a container, mix dried water at the rate of 3:1. Stir and make in into a mud form. Put the metal probe into the mud about 6-8 cm deep. About 6 seconds, the tester will display the measured value.
4. Wipe the metal probe with towel or tissue paper after each test. Make it clean and dry. till the display show "0".



GLINPK

Item Code	Pack of	Price (INR)
GLINPK	2	95000

Technical Specification

Range	0-1999 mg/Kg(mg/l)
Resolution	1mg/kg(mg/l)
Accuracy	±0.2 F.S.
Operating Temp	5-45 °C (41-113°F) /ATC
Calibration	Factory calibrated
Power supply	DC 9V (9V580/6F22Ni-MH rechargeable battery)
Display	LCD with back light
Dimension	Æ50.5 x 250 mm
Probe length	140mm
Features	Auto switch off in about 5 minutes
Weight	390 Gms (Approx)
IPClass	64



Digital pH Tester

for **Soil Testing**

The tester features with innovative nanotechnology metal material sensor, for fast and easy test of pH value of soil, fruit, meat, cheese and other semi-solid media.

Operating Instruction

1. Take off the protective cap from metal probe
2. Press OFF/ON button. Tester displays "7.00".
3. Insert the metal probe vertically into the sample that requires testing, at least 6-8cm deep. Make sure there is close contact (Soil need to humid~60%-80%). The tester will start testing automatically. After about 1 minute the test is over. Indication light will be on for about 10 seconds. The displayed number is locked, which is the value of pH.
4. After each test, take out the tester, wipe the metal probe clean with towel or tissue paper. Display will be unlocked, and show "7.00". It is ready for a new test.
5. After use, wipe the metal probe clean until it displays "7.00". Switch off the tester.



GLIPH

Item Code	Pack of	Price (INR)
GLIPH	2	45500

Technical Specification

Range	pH: 3.0-14.0 pH
Resolution	0.10 pH
Accuracy	±0.2 pH(3.0-12.0 pH)
Operating Temp	5-45 °C
Calibration	1 point (Factory calibrated -No more calibration)
Power supply	DC 9V(L1022 battery)
Display	LCD
Dimension	Æ50.5 x 250 mm
Probe length	140mm
Features	Automatic detection of data and lock to keep, automatic switch to OFF in 5 minutes (or manual shutdown).
Weight	110 Gms (Approx)
IP Class	64



Nitrogen Analyser

Three in One Combo Automatic 6 Place Digestion With Distillation
& Scrubber With Common Touch Screen Control & Display

World's 1st Innovative Product



- ▶ The control panel unit along with inbuilt temperature controller, timer, mother board and SMPS is be isolated in separate control tower and housing to protect electronics from wet chemistry & acid/ alkali process area for longevity and safety of all electronic components.
- ▶ Water in the scrubber tank is drained and filled automatically every time at the end of digestion thereby draining the water for every consecutive cycle.
- ▶ Manual drain of water from the scrubber tank is also provided.
- ▶ A separate distilled water line to the steam generator.
- ▶ Auto refilling of distilled water to the steam generator is provided by using a proximity sensor.
- ▶ Monitoring of boiler water level from outside.
- ▶ Users choice to choose independent or combined operation of digestion and distillation.
- ▶ Inbuilt safety from Over voltage

Nitrogen Analyser

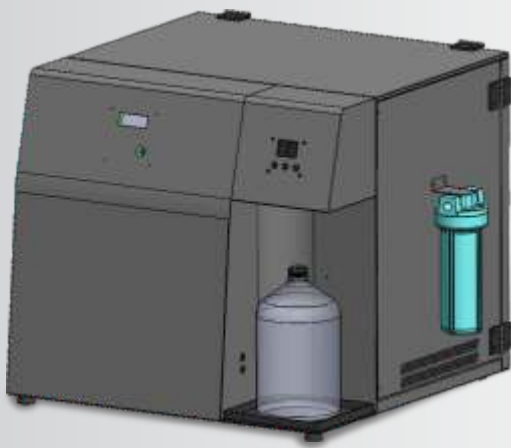
Three in One Combo Automatic 6 Place Digestion With Distillation
& Scrubber With Common Touch Screen Control & Display

Technical Specification

Model	DN.NA.01
Material of construction	MS with powder coated finish
Operations	Digestion, Distillation and Scrubb
Cooling System & Automatic	Optional or higher models
No of samples	6 nos
Tube dimension	42 x 300mm
Tube capacity	250ml
Process controller	4.3" TFT touch screen controller
Mode of operation	Auto and Manual
Digestion Heating block	Extruded Aluminium block HE 30 Grade 6063
Digestion Heater	Casted Aluminium alloy heater
Digestion Heater wattage	1500 W
Digestion Temperature controller	PID controller
Digestion Temperature Range	50 degree to 450 degree
Digestion temperature accuracy	+/- 1%
Digestion temperature sensor	K type thermocouple
Digestion program	5 program and 5 steps
Digestion program parameter	Temperature and time
Digestion block insulation	Ceramic wool
Digestion acid fumes removal	Using Glass Exhaust Manifold
Handle	Polyamide
Two tier console	To place Insert rack and Manifold Rack
Digestion tube insert Rack	Stainless steel
Digestion Manifold Rack	Stainless steel
Digestion Drip Tray	Stainless steel
Exhaust fume condensation	In water
Scrubber tank	Stainless Steel 304
Scrubber water leveller	Float switch
Scrubber tank capacity	10 litre
Scrubber suction pump	Giant filter pump
Distillation expansion vessel	Glass with Teflon insert for alkali addition
Scrubber water re-circulation pump	Magnetic pump
Scrubbing Tubing Hardness	70±5 Silicone
No of distillation	One at a time
Distillation programme	5 program/3 steps
Distillation Programme steps	Alkali, reaction delay and Process
Distillation Dosing pump	For alkali addition
Distillation steam Generator	Stainless steel
Distillation water condenser	Glass
Distillation solenoid valves	For Steam, Refilling and Vent
Distillation Heater	Immersion Heater
Distillation Heater Wattage	1500 W
Distilled water tank	PVC
Distilled water tank capacity	5 Lit
Distillation Reagent tank	PVC
Distillation Reagent tank capacity	2 lit
Electrical requirement	230v/50Hz/16A
Unit Dimension	32 x 26 x 41 inches
Connectivity to printer	Optional
Connectivity to USB	Optional
Real Time Monitoring of Process	Yes
Nitrogen recovery	99.5%
Total Time process	2.5 Hours

This has been designed for better and accurate control of the distillation unit. It has been incorporated with advanced microcontroller based electronic circuitry, which gives an easy user machine interaction.

The alpha numeric LCD which has been used shows all messages that correspond to the running of the machine.



- Environment friendly & suitability
 - One Touch Use, Fully Automatic,
 - Intelligent, dual stage all glass type
- Fully automatic control save energy & money- By setting the required output volume in liters. After completion of the process heater is turned off and the cooling water inlet is closed automatically.
 - Boiler empty detection intelligence built in- when the water level inside the boiler drops below the heater, boiler empty condition is detected.
 - Gate Valve to oneside - Conserves cooling water wastage in case of power failure
 - Flow switch - In built safety feature for the equipment unit shut off in case of cooling water failure. When the inlet water flow to the unit is low, this error is displayed with buzzer indication. The process is paused until the inlet flow is resumed.
 - Easy to read Alpha numeric LCD and keypad for all settings and messages that correspond to the running of the machine.
 - Auto cleaning detection
 - Probe error detection
 - Soft Calibration of output volume to compensate seasonal temperature and flow rate changes
 - Manual overriding flow sensor and Gate (solenoid) valve
 - Serviceability Replaceable Silica sheathed (Quartz) Heater
 - Safety of user & instrument against wattage/power variation

Technical Specification

Model No.	DN.WD.01	DN.WD.01
Output Cap. (approx.)	2 ltrs/hr	4 ltrs/hr
Stage	Double Stage	Double Stage
Cooling water requirement (approx.)	2 ltr/min	2-4 ltr/min
Conductivity uS/cm	0.8-1.0	0.8-1.0
Power Rating (Total)	3.0KW	6.0KW
AC Voltage	220-240VAC	220-240VAC
AC Frequency	50-60Hz	50-60Hz

* All the parameters are under standard Test Conditions.

* Output quantity would depend upon the quantity of inlet feed water.

Automatic Fibre Estimation System – (6 Place) Auto-Sequencing



Designed to protect electronics from acid / alkali wet area & heat zone
Independent loading of sample with individual mechanical controls
Auto acoustic alarm on completion of process
Auto power off mode on completion of process
Inbuilt safety features like auto error indication, auto over temperature protection and auto sensor break protection
PC chart software performs Live graphical representation of time / temperature gradient on PC Connectivity

DN.AFES.6P

Technical Specification

Description	Automatic Six Place PC Compatible Autosequencing Regular Version Fibre Estimation System
Display	Bright Digital two line Alphanumeric LCD Digital Display of time and temp.
No. of Positions	Six Samples
Sample Size	0.1 to 4 gms (depending on the type of sample)
Temperature Control Range	RT- 500° C (Continuously variable)
Digital Timer	0-99.59 hrs (Settable in hrs, min and seconds), Digital display of set time and actual time (1-5999 minutes) , Modes of operation: heater cut off mode & alarm mode
Temperature Accuracy / Precision	± 0.5° C
Ramp & Hold	Integrated Auto Sequencing programs with 12 desirable sequence ramp / steps of time and temp. domain for each programme
Presets	Selectable Programs(Customizable): Integrated Auto Sequencing Features with 30 intelligent memory programs
Heater Source	Ceramic Infrared Heater
PID Control	Fuzzy logic Microprocessor based PID Controller with Auto tuning facility
Temperature Setting	Feather touch membrane keys
Crucibles	Sintered Silica glass Crucible with P1 Porosity disc (6 Nos.)
Extractor	Marked borosilicate extraction vessel
Preheating Hotplate	Fibra Flow System with self priming pump connected to water suction filter pump.
Power Consumption	2500 Watts.
PC & Printer Connectivity	Direct USB port for PC/Laptop connectivity Intelligent Software for PC compatibility for 2 way Bidirectional communication



- ▶ Dual operation of Incubator and Hotair oven in same unit.
- ▶ Forced air circulation by convection
- ▶ Shelf Height adjustable to 7 heights
- ▶ Round folding at the four corners for easy cleaning.
- ▶ Glass window for viewing
- ▶ Automatic cut off of Heater and blower when the door is opened.
- ▶ Additional port for cross checking the temperature of the chamber.
- ▶ Over voltage circuit breaker.

3900.DNEU.03

Technical Specification

Material of construction	Outer MS with powder coated finish and Inner stainless steel
Capacity	91 lit
Dual Mode Operation (2 in 1)	Hot air Oven Mode or Incubator Mode
Inner dimension	450 x 450 x 450 mm
Outer dimension	560 x 610 x 680mm
Process controller	4.3" TFT Touch screen controller
Display	Feather touch membrane key pad with touch screen. (Power, Oven, Incubator, heater)
Temperature controller	HMI
Temperature Range	5 degree above ambient to 200 degree
Temperature accuracy	At 120Degree-+/- 1%, At 37 Degree- +/- 0.1 Degree
Temperature sensor	PT 100
Number of program	5
Number of steps	5
Programmable for	Temperature and time
Heater	Strip Heater
Heater wattage	Oven-1625 W and Incubator-325 W
No of Trays	2
Chamber insulation	Ceramic wool
Over temperature protection	Using thermostat
Electrical requirement	230v/50Hz/10A



Safety Features

- ▶ Standalone housing for Temperature controller to protect electronics from solvent area & heat zone.
- ▶ PC chart software performs Live graphical representation of time / temperature gradient on PC Connectivity
 - Auto Alarm for recovery phase
 - Auto power off mode on completion of extraction.
 - Independent loading of sample with individual mechanical controls.
 - Inbuilt safety features like auto error indication, auto over temperature protection and auto sensor break protection.
 - Cold water line for condensation of solvent with silicon hose inter connection for condensor

Technical Specification

MODEL	DEN -6T-02
Description	Automatic PC Compatible Autosequencing Regular Six Place Solvent Extraction System
No. of Positions	Six Samples
Sample Size	0.1 to 8 gms (depending on the type of sample)
Temperature Control Range	35°C (Ambient) to 300°C
Digital Timer	Range : 0-99.59 hrs (Settable in hrs, min and seconds), Digital display of set time and actual time (1-5999 minutes) , Modes of operation: heater cut off mode & alarm mode
Temperature Accuracy / Precision	± 0.5° C
Ramp & Hold	Integrated Auto Sequencing programs with 12 desirable sequence ramp / steps of time and temp. domain for each programme.
Presets	Selectable Programs(Customizable): Integrated Auto Sequencing Features with 30 intelligent memory programs
Heater Source	Casted Aluminium Alloy Heaters
PID Control	Fuzzy logic Microprocessor based PID Controller with Auto tuning facility.
TemperatureSetting	Feather touch membrane keys
PC & Printer Connectivity	Direct USB port for PC/Laptop connectivity Intelligent Software for PC compatibility for 2 way Bidirectional communication
Display	Bright Digital two line Alphanumeric LCD Digital Display of time and temperature
Extraction Thimbles	* Thick Nitrocellulose thimble (f25mm X 80mm) - 1 Box of 25 Nos. * Highly versatile to accommodate 2 sizes of Thimbles. Optional Macro Thimbles of size (33 mm dia x 80mm L) compatible in the system.
Power Consumption	2000 Watts.

Water Bath Cum Water Bath Shaker (touch Screen Version)



Safety Features

- ▶ Water bath and shaker in a single system.
- ▶ Selection of mode in the touch screen
- ▶ Absolutely noiseless operation.
- ▶ Programmable system
- ▶ Removable tray
- ▶ Flexible Polypropylene Rubber Clamps reinforced with inner metallic cup for sturdy & rugged use for intact grip to perfectly hold the flask

Technical Specification

Model	1800.DNEU.03
Operation	Water bath or water bath shaker
Material of construction	MS with powder coated finish
Type of motion	Reciprocal motion
SPM range	50 to 150 Strokes per minute
Movement	Linear link guided drive mechanism
Movement sensor	IR scan sensor
Motor	Stepper servo motor (Brushless)
Drive	Servo drive
Process controller	4.3" TFT touch screen controller
Display	Feather touch membrane key pad with touch controller (Power, Heater)
Temperature controller	PID controller
Temperature range	5 Degree above ambient to 100 Degree
Temperature accuracy	+/- 0.5Degree
Temperature sensor	Pt 100
No of program	1 program, 5 steps for both shaker and water bath
Programmable	For Strokes Per Minute, Temperature and Time
Heater	Immersion Heater
Heater power	1500 W
Water tank	Stainless steel
Tank capacity	15 lit
Tray	Stainless steel Removable
Tray capacity	250ml clamp-9 nos
Hood or cover	Stainless steel
Internal Recirculation pump for Temperature stability	Magnetic pump
External recirculation pump	(optional) magnetic pump
Electrical requirement	230V/50Hz/ 6A
Unit dimension	25 x 25 x 15 inches



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