

# Basic Laboratory Equipment



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## EN 025/055/120 INCUBATORS

- Three different sizes: 25, 55 and 120 liters.
- Temperature range: Ambient Temperature +5°C / 80°C.
- Excellent incubation conditions for the applications in biology and microbiology laboratories such as medical and veterinary fields; research and quality control examinations in pharmaceutical, food and cosmetics industries and biotechnology.
- Programmable PID microprocessor control system.
- User friendly control panel located on the door, including digital displays for temperature and time.
- Stainless steel interior for easy cleaning and decontamination.
- Air jacketed heating system and triple insulation for highly precise and constant temperatures.
- Very homogeneous temperature distribution by natural air convection: Minimum turbulence and no cross contamination.
- Frameless inner glass door for the observation of samples without any temperature drop.
- Safety thermostat as standard.
- Optional Nivetherm data control software and RS 232 kit.

## EN 400/500 INCUBATORS

- Two different sizes: 44 and 120 liters.
- Temperature range: Ambient Temperature +5°C / 80°C.
- Excellent incubation conditions for the applications in all biology and microbiology laboratories such as medical and veterinary fields; research and quality control examinations in pharmaceutical, food and cosmetics industries and in biotechnology.
- Programmable PID microprocessor control system.
- User friendly control panel including digital displays for temperature and time.
  - Delayed start timer.
- Electro-acid coated aluminum chamber for standard models; stainless steel chamber for "P" models.
- Very homogeneous temperature distribution obtained by natural air convection for standard model and by forced air ventilation for "P" models.
- Frameless inner glass door for the observation of samples without any temperature drop.
  - Safety thermostat as standard.



## ES 120/252 COOLED INCUBATORS

- Two different sizes: 120 and 252 liters
- Temperature range: -10°C / 60°C
- Ideal design for freezing, incubation, drying, different type of tests and long storage in the fields of biology, zoology, botany and the quality control and R&D laboratories in industry such as pharmaceutical, food and cosmetic.
- Programmable microprocessor control system
- Nine program memories with nine steps
- Easy to use control panel including digital displays for temperature, time, program no and step no.
- Epoxy-polyester coated outer body and stainless steel chamber.
- High density injected polyurethane insulation
- Powerful air circulation system for excellent temperature uniformity and stability even at low temperatures
- Automatic defrost system
- Large window on the door consisting of triple glass for perfect insulation
- Interior lighting with on/off control
- Optional Nuvetherm-C data control software and RS 232 kit



## FN 032/055/120 DRY HEAT STERILIZERS / OVENS

- Three different sizes: 32, 55 and 120 liters.
- Temperature range: Ambient Temperature +5°C / 250°C
- Designed for sterilization, drying and heating purposes
- Programmable PID microprocessor control system.
- User friendly control panel including digital displays for temperature and time.
- Delayed start timer.
- Stainless steel interior for easy cleaning and high resistance to most of the chemicals.
- Excellent uniformity and stability of temperature by triple insulation and air jacketed heating system.
- Natural air convection for homogeneous temperature distribution.
- Very low temperature loss by means of the door pressing firmly and tightly on the chamber gasket.
- Outlet port for vapour exhaustion.
- Safety thermostat as standard.



## FN 300/400/500 DRY HEAT STERILIZERS / OVENS

- Three different sizes: 22, 44 and 120 liters.
- Temperature range: Ambient Temperature +5°C / 250°C
- Designed for sterilization, drying and heating purposes
  - Programmable PID microprocessor control system.
- Easy to use control panel including digital displays for temperature and time.
- Excellent uniformity and stability of temperature by high grade of insulation and microprocessor control system.
- Electro-acid coated aluminum chamber for standard models stainless steel chamber for "P" models
- Very homogeneous temperature distribution obtained by natural air convection for standard models and by forced air ventilation for "P" models
- Low temperature loss by means of the door pressing firmly and tightly against the chamber gasket.
  - Outlet port for vapour exhaustion.
  - Safety thermostat as standard.



## KD SERIES OVENS

- Two different sizes: 193 and 375 liters.
- Temperature range: 70°C / 250°C.
- High volume for drying and heating purposes.
- Programmable PID microprocessor control system.
- Easy to use control panel including digital display for temperature and time.
- Delayed start timer.
- Excellent uniformity and stability of temperature by high grade of insulation and microprocessor control system.
- Stainless steel chamber.
- Very homogeneous temperature distribution obtained by forced air ventilation.
- Low temperature loss by means of the door pressing firmly and tightly against the chamber gasket.
- Outlet port for vapour exhaustion.
- Safety thermostat as standard.

## EV 018 VACUUM OVEN

- Useful volume: 15 liters
- Temperature range: 70°C / 200°C
- Ideal design for gentle drying of heat labile samples and experiments under inert gases
  - Programmable PID microprocessor control system.
- Easy to use control panel including digital displays for temperature and time.
- Stainless steel chamber with high resistance to corrosion, most of the chemical vapours and contamination.
  - One piece gasket made of silicon, simply fitted directly on the oven body.
  - Vacuum gauge on the control panel.
- Two spherical valves for vacuum connection and adding dry air or inert gases
  - Heat-treated glass window on the door.
  - Safety thermostat as standard.
- Optional Nüvethem data control software and RS 232 kit



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## OT 012 BENCH TOP STEAM STERILIZER

- Chamber volume: 12 liters
- Temperature range: 110°C / 140°C
- Used for the sterilization of unwrapped medical or dental instruments.
- Programmable microprocessor control system.
- Easy to use control panel, including digital displays for temperature and time.
- Proportional heating system.
- Manometer for chamber pressure.
- Safety valve against over-pressure.
- Very simple operation without any water or drain connection.

CE



## B & S CLASS BENCH TOP STEAM STERILIZERS OT 18B/23B OT 18S/23S OT 18VS/23VS/32VS

- Conforms the requirements of EN 13060 standard
- Chamber Capacity : OT 18B, OT 18S, OT 18VS: 18 liters  
OT 23B, OT 23S, OT 23VS: 23 liters  
OT 32 VS: 32 liters

### • Type of Sterilization Loads:

**B Model:** All wrapped, un-wrapped, solid, hollow load products Type A\* and porous products.

**VS models:** Non-wrapped solid products, porous products, small porous items, hollow load products Type B\*, single wrapped products, multiple-layer wrapped products.

**S models:** Non-wrapped solid products, single wrapped products

### • Programs:

B & S models: Universal, Quick, Gentle, Prior

VS models: Universal, Wrapped Materials, Gentle, Quick, Prior

### • Test Programs:

B models: Bowie & Dick / Helix Test and Vacuum Test

VS models: Bowie & Dick and Vacuum Test

• Two test programs for VS models: Bowie & Dick and Vacuum Test

• Seamless chamber for 18 and 23 liters models

• Fractionated pre-vacuum system for B and VS models

• Fractionated gravity system for S models

• Advanced microprocessor control system with 128x64 pixels LCD display

• Process evaluation system

• Comprehensive self-diagnostic system

• Memory for 52 cycles

• Reminder for cleaning and maintenance

• RS 232 port for printer or PC

\* As defined in EN 13060 Standard

## OT 4060 STEAM JACKETED VERTICAL TYPE STEAM STERILIZER

- Chamber volume: 75 liters.
- Temperature range: 110°C / 140°C.
- Ideal design for the sterilization of materials in very wide range of areas: Operating theatres and laboratories of hospitals, biology, veterinary and agriculture departments of the universities, quality control laboratories of industries such as food.
  - Double enveloped construction with integrated steam generator.
- Fully automatic operation with programmable microprocessor control system.
  - Digital displays for temperature and time.
- Two manometers for chamber and steam generator pressure.
  - Leds for the phases of sterilization.
- Warning leds for open lid, over-pressure and heater failure.
- Lid locking system and electrical and mechanical safety systems against over-pressure.

## OT 4060V VERTICAL STEAM STERILIZER WITH PRE AND POST VACUUM FUNCTION

- Pre-set pre-vacuum and programmable post-vacuum functions
- Maintenance-free diaphragm type vacuum pump.
- 0.2 µm biological filter at air intake line.



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## NF 048 MICROTUBE AND MICROHAEMATOCRIT CENTRIFUGE

- |                     | Angle Rotor | Haematocrit Rotor  |
|---------------------|-------------|--------------------|
| • Maximum Capacity: | 24x2 ml     | 24xcapillary tubes |
| • Maximum Speed:    | 14,000 rpm  | 12,000 rpm         |
| • Maximum RCF:      | 18,188xg    | 14,811xg           |
- Programmable microprocessor control system.
  - Digital displays for speed, time and RCF (xg).
  - 1-99 minutes timer with hold position.
  - Epoxy-polyester painted steel chamber.
  - Pulse key.
  - Quiet, direct drive, brushless induction motor.
  - Motor over heat protection.
  - Ventilation system for minimum temperature increase in the chamber.
  - Lid lock.
  - Choice of 24x1.5/2 ml Angle Rotor and 24x Capillary Tube Haematocrit Rotor.
  - Adaptors for 500 / 800 µl, 200 µl PCR, 250/400/700 µl.



## NF 200 BENCH TOP CENTRIFUGE

- Maximum Capacity : 12x15 ml
- Maximum Speed : 5000 rpm
- Maximum RCF : 2,822xg
- Programmable microprocessor control system.
- Digital displays for speed, time and RCF (xg).
- 1-99 minutes timer with hold position.
- Epoxy-polyester painted steel chamber.
- Pulse key.
- Quiet, direct drive, brushless induction motor.
- Motor over heat protection.
- Ventilation system for minimum temperature increase in the chamber.
- Lid lock.
- Delivered with 12x15 ml Angle rotor made of polypropylene.
- Adaptors for 1.5/2 ml 5 ml and 7 ml tubes.

## NF 400-NF 400R MEDIUM CAPACITY BENCH TOP CENTRIFUGES

- |                     | Angle Rotor | Swing-out Rotors    |
|---------------------|-------------|---------------------|
| • Maximum Capacity: | 16x15ml     | 4x100ml 2xM.Plate   |
| • Maximum Speed:    | 4,100 rpm   | 4,100 rpm 4,100 rpm |
| • Maximum RCF:      | 2,142xg     | 2,819xg 2,011xg     |
- Programmable microprocessor control system.
  - Digital display for speed and time.
  - Digital display for temperature for NF 400R.
  - Display of relative centrifugal force (RCF).
  - Electronic imbalance detection system.
  - Stainless steel chamber.
  - 1-99 minutes with hold position.
  - Lid lock.
  - Powerful, quiet, and maintenance - free induction motor.
  - Minimum temperature increase in the chamber by means of ventilation system for NF 400.
  - Temperature control between -9° C / +40° C for NF 400R.
  - Motor over temperature protection.
  - Wide range of accessories to accommodate most manufacturers' tubes and microtitre plate.
  - Totally CFC-free refrigerant fluid and insulation material for NF 400R.



## NF 1200 – NF 1200R MULTI PURPOSE BENCH TOP CENTRIFUGES

- |                     | Angle Rotors |           |           | Swing-out Rotors |             |
|---------------------|--------------|-----------|-----------|------------------|-------------|
| • Maximum Capacity: | 6x100 ml     | 10x10 ml  | 30x2 ml   | 4x250 ml         | 2x3 M.Plate |
| • Maximum Speed:    | 9000 rpm     | 12000 rpm | 13500 rpm | 4,100 rpm        | 4,100 rpm   |
| • Maximum RCF:      | 8,965xg      | 14,167xg  | 20,170xg  | 3,082xg          | 2,349xg     |

## NF 800 – NF 800R MULTI PURPOSE BENCH TOP CENTRIFUGES

- |                     | Angle Rotors |            |           | Swing-out Rotors |             |
|---------------------|--------------|------------|-----------|------------------|-------------|
| • Maximum Capacity: | 30x15 ml     | 24x2 ml    | 6x50 ml   | 4x200 ml         | 2x3 M.Plate |
| • Maximum Speed:    | 4,100 rpm    | 14,000 rpm | 9,000 rpm | 4,100 rpm        | 4,100 rpm   |
| • Maximum RCF:      | 3,007xg      | 18,405xg   | 9,418xg   | 3,045xg          | 2,349xg     |



- Programmable microprocessor control system.
- Programmable parameters: Program no., speed, time, acceleration and braking rates and temperature for NF 800R and NF 1200R.
- Four digital displays for programmable parameters.
- Display of relative centrifugal force (RCF).
- 1-99 minutes with hold position.
- Ten program memories.
- Stainless steel chamber.
- Wide range of accessories to accommodate most manufacturers' tubes and microtitre plate.
- Powerful, quiet, maintenance-free induction motor.
- Minimum temperature increase in the chamber by means of ventilation system for NF 800 and NF 1200.
- Temperature control between -9°C / +40°C for NF 800R and NF 1200R.
- Totally CFC free refrigerant fluid and insulation material for NF 800R and NF 1200R.



## ID 300 CLIMATIC TEST CABINET

- Ideal design for the tests at different climatic conditions and stability, artificial aging and storage test in industries such as electronic, automobile, automobile supply industry, aircraft and aviation, chemical, plastic, textile, pharmaceutical, construction material, food, packaging and military equipment.
- Useful volume: 290 liters.
- Wide range of temperature control:  
- 40 °C / +150 °C.
- Programmable humidity range:  
15 % - 98 % Rh (Between 10°C / 90°C).
- Door mounted state-of-art programmable microprocessor control system.
- Ten program memories.
- Programmable 9 step for temperature and humidity.
- Programmable altitude to calculate the right humidity value according to psychrometric formula.
- User friendly control panel including 128x64 pixel display.
- Stainless steel chamber and external body made of epoxy-polyester painted stainless steel Ø80 mm access part on the right side.
- Triple insulation consisting of high density injected polyurethane, glass wool and aluminum layer.
- Heated door window with quintuple glass for perfect insulation.
- Interior lighting.
- Producing humidity by dew-point bath.
- Humidity measurement according to psychrometric diagram by means of the dry and wet bulb temperature.
- Self-diagnostic system for possible failures.
- Adjustable electronic safety thermostat.
- Possibility of connecting four pieces PT 100 temperature to measure any four points in the chamber.
- Outlet for printer connection to print current or stored programs.
- Optional NüveClimate software program for control via computer.
- CFC-free refrigerant and insulation.



## GC 400 GROWTH CHAMBER

- Advanced technology for tests at different climatic and lighting conditions such as plant growth, seed germination, acclimation of plants, culture of plant cells and tissues, genetic manipulations of plants, cultivation of protoplasm and cells, incubation and rearing of insects.
- Useful volume: 400 liters.
- Wide range of temperature control :  
-20 °C / +60 °C (lights off)
- Programmable humidity range:  
20% / 95% Rh (between +20 °C and + 60 °C)
- Lighting from three sides: Left, right and up.
- Max. lighting level 20.000 lux.
- Programmable lighting function:  
0-24 hour timer for each side.
- Door mounted, state-of-art programmable microprocessor control system
- 10 program memories.
- 9 program steps for temperature and humidity.
- Programmable altitude input for calculating right humidity value according to psychrometric formula.
- User friendly control panel including 128x64 pixel display.
- Chamber made of stainless steel and glass windows and external body made of epoxy-polyester painted stainless steel.
- Humidity produced by a humidity generator.
- Humidity measurement according to psychrometric diagram.
- Self-diagnostic system for possible failures
- Adjustable electronic safety thermostat.
- Outlet for printer connection for printing current or stored programs
- Optional NiveGrowth software for programming and control via programs.
- CFC-free refrigerant and insulation



## MN SERIES CLASS II MICROBIOLOGICAL SAFETY CABINETS

- Two models with different working table width: MN 090: 89 cm / MN 120: 119 cm
- First class protection for operator, environment and product.
- Microprocessor control system with digital display for air flow speed.
- Two HEPA filters with 99.999 % efficiency for particles  $\geq 0.3 \mu\text{m}$ .
- Automatic speed compensation system against clogged filter.
  - On/Off switch with key lock.
- Alarms for: Power failure, control system failure, open window, low and high air flow speed, clogged filters.
- Perfect air tightness of window seal by means of gas spring assisted window.
- Comfort of usage with arm rest, very quiet blower and high light intensity.
  - Smooth chamber walls and rounded corners without soldering for easy cleaning and decontamination.
  - Stainless and removable 3 pcs. work table.
- DOP test inlet, elapsed time counter and 2 pcs. power socket as standard.
  - DOP test document.
  - EN 12469 Certificate for MN 120.



## LN SERIES LAMINAR FLOW CABINETS

- Two models with different working table width: LN 090: 89 cm. LN 120: 119 cm.
- Designed for the applications with non-hazardous materials in particle free environment for complete product protection.
- Outer of cabinet made of epoxy-polyester painted steel.
- Single piece working table made of stainless steel for easy cleaning and decontamination.
- Pre-filter with 85 % efficiency for particles  $> 0.5 \mu\text{m}$  ; HEPA with 99.999 % efficiency for particles  $\geq 0.3 \mu\text{m}$ .
- Microprocessor control system with digital display for air flow speed.
- Automatic speed compensation system against clogged filter.
- Audible and visible alarm for lower or higher airflow speed.
- Recirculated HEPA filtered air to prolong the lifetime of pre- and HEPA filters.
- High light intensity and low noise level.
- Elapsed time counter and 2 pcs. power socket as standard.
- DOP test inlet.

## KN SERIES BLOOD BANK REFRIGERATORS

- Capacity: KN 120 320 liters, 120 blood bags  
KN 294 630 liters, 294 blood bags
- Advanced technology to store blood and blood components.
- Stainless steel chamber.
- High density injected polyurethane insulation.
- Door window with triple glass for perfect insulation.
- Magnetic gasket on four sides of the door and door key lock.
- Chamber illumination with on/off switch control.
- Easily drawn stainless steel drawers with plexiglass cover on the front.
- Separators inside the drawers to hold the blood bags in an angled position for easy label reading.
- Powerful air circulation system to maintain temperature uniformity and stability and for quick recovery time.
- Fully automatic defrost system to maintain cooling coil efficiency.
- Start/Stop key with lock.
- Microprocessor control system to simplify the operation and guarantee the safety of the stored component.
- Temperature range: 0°C / +10°C.
- Large digital display with a resolution of 0.1°C.
- Alarm system for high and low temperature, power failure, temperature sensor failure, and open door.
- Re-chargeable battery to feed alarm system.
- Remote and central alarm outlets as standard.
- Optional RS 232 outlet and software.
- Temperature measurement from a liquid which has similar thermal specifications with blood.
- Battery operated 7-day chart recorder with high resolution.





## BM/BS/BD SERIES WATERBATHS

• Different tank volumes and temperature ranges:

BM 302 : 14 liters, Ambient Temperature +5°C / 80°C

BM 402 : 30 liters, Ambient Temperature +5°C / 80°C

BS 302 : 14 liters, 0°C / 80°C

BS 402 : 30 liters, 0°C / 80°C

- Excellent temperature control of liquid for uniform and stable temperatures.
- Seamless and stainless steel tank.
- Powerful internal circulation pump for homogeneous temperatures.
- Programmable microprocessor control system.
- Easy to use control panel including digital displays for temperature and time.
- Optional external circulation system for BM and BS series.
- Various type of tube racks and shelves for flasks.
- Optional Nüvethem data control software and RS 232 kit

## ST 402 SHAKING WATERBATH



- Tank volume: 30 liters
- Temperature range: Ambient temperature +5°C / 80°C.
- Excellent temperature control of liquid for uniform and stable temperatures.
  - Seamless and stainless steel tank.
  - Programmable microprocessor control system.
- User friendly control panel including digital displays for temperature and time.
- Optic-electronic system for the control of shaking speed between 50 – 250 rpm.
  - Possibility to use different types of tubes, flasks or erlenmeyers with the wide range of accessories.
- Optional Nüvethem data control software and RS 232 kit

## NB SERIES UNSTIRRED WATERBATHS

- Three different useful volumes : 4,7 and 15 liters.
- Temperature range: Ambient temperature + 5°C / 80°C
- Designed for many general and special applications in microbiology, research and industrial laboratories.
- Excellent temperature control of liquid by programmable PID microprocessor control system.
- Highly visible dual display for temperature and time.
- Delayed start timer.
- Seamless stainless steel tank for easy cleaning.
- Excellent temperature uniformity and stability by triple insulation.
- Footprint almost equal to the working area to save bench space.
- Adjustable over temperature thermostat providing extra safety.





## NS 104/108/112 WATER DISTILLERS

- Three different distilled water capacity: 4, 8 and 12 l/hr.
- Stainless steel heaters.
- All surfaces in contact with water and steam made of stainless material.
- Electronic water-level control in the boiling tank.
- Manometer for inlet water pressure.
- Magnetic water conditioner against calcification in boiling tank, condenser and in the lines where the water and steam are circulating.
- Safety system with warning leds against low inlet water pressure, water interruption and empty boiling tank.
- Warning led for heater failure.
- Wall mounted type not to occupy valuable laboratory benches.

## NS 103 ECONOMICAL WATER DISTILLER

- Distilled water capacity : 3.5 lt / hr.
- Stainless steel heater.
- All surfaces in contact with water and steam made of stainless material.
- Manometer for inlet water pressure.
- Protection against empty boiling tank and water interruption.
- High efficiency even at low inlet water pressure.
- Wall mounted type, saving space in the laboratories.
- Easy and simple operation.



## NÜVE INC.

Nüve, which was founded in 1968, is one of the leading and outstanding manufacturers of Turkey in the field of Basic Laboratory Equipment.

Since its foundation, Nüve had contributed to the advancement of its products and production processes by means of technical innovations and investments made for research and development.

With a network of 34 distributors in Turkey, Nüve holds the major part of the Turkish market. Strong international focusing, formulated, fast, economic solutions combined with continually evolving quality awareness and customer oriented services form a significant part of Nüve's business concept. Because of these special features, Nüve has become a fast growing company among its competitors. Having ISO 9001:2000 and ISO 13485:2003 certificates, Nüve is exporting to more than 80 countries by the contribution of its professional work force and very competitive quality and price.

The manufacturing plant is 30 km away from Ankara, the capital city of Turkey and consists of 6000 m<sup>2</sup>-closed area. High technology machine tools and sheet metal working machines are used for standard production.

The quality of the raw materials and parts supplied plays an important role in obtaining a stable production of high quality products.

The product range of Nüve is expanding every year proportional with its continuous research studies. Subject to ever-changing customer perceptions and worldwide technological improvements, also the development of products never end at Nüve.

The equipment that Nüve manufacture, are mostly used in all kinds of medical laboratories, biotechnology, research and quality control laboratories of agriculture, botany and veterinary and in the quality control laboratories of various industries such as food, chemicals and pharmaceuticals.

With its flexible mass production technology, fast delivery process, well established network of national and international distributors, quick and efficient after sales services and unlimited spare part supply, Nüve is ready to meet the needs and demands of its customers all times and just in time.



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