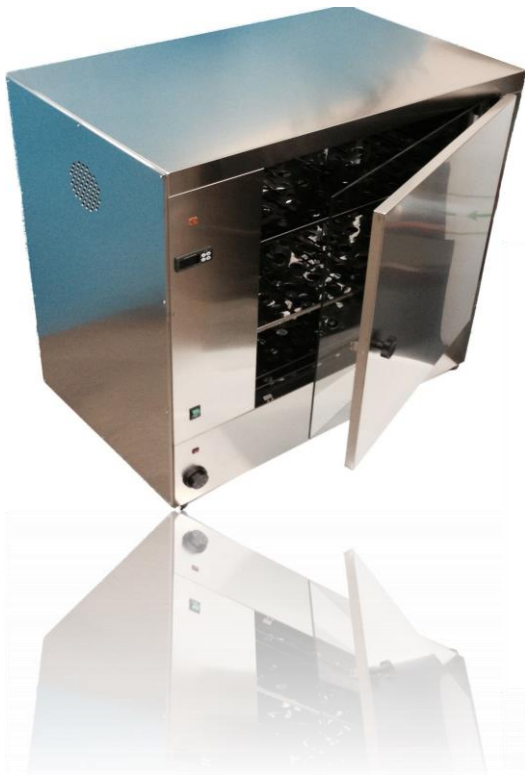




# ENRICO BRUNO s.r.l.

## Scientific Laboratory Instruments

Vers. 11/24



ENRICO BRUNO srl produces, distributes and offers technical assistance by more than 50 years on a wide range of scientific laboratory instruments.

2

Our production program, focused on the thermal control sector, is comprehensive of thermostatic ovens, incubators, refrigerated incubators, water baths, water distillers.

Only the best raw materials are employed for our products, since we exclusively adopt stainless steel both for the internal than in the external parts of the constructions.

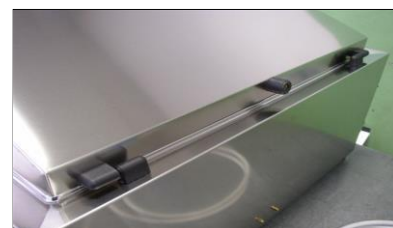
Within this range of products we are in condition to supply productions on Customer's demand, according to specific technical requirement or dimensions.

The quality of the raw materials and the reliability of the construction allow to grant, for our productions, a long lifetime and a high countervalue for purchase.

If your Company deals with scientific instruments and our products portfolio is relevant for you, please don't hesitate and contact us, we shall be pleased to inform you about any commercial detail you can expect from us.

# BS/DG THERMOSTATIC WATER BATH

THERMOSTATIC WATER BATH WITH DIGITAL PID  
CONTROLLER



## Key Features

- Full stainless steel AISI 304 construction, allows maximum corrosion resistance and easy cleaning .
- Pressed tank with round corners to assure the maximum hygiene and easy cleaning
- Insulated chamber between the tank and the external stainless steel walls (insulation by high quality mineral fiber), to assure a true thermal insulation, to avoid useless leakage of electric power and to reproduce isothermal conditions within all the tank.
- Half circular armoured resistors placed to cover all the tank's bottom area, to allow the maximum thermal uniformity, with perforated covering false bottom.
- Temperature probes fixed within the tank, into the water, to provide for the most exact water temperature reading by the digital thermal controller
- Equipped with water tap to allow complete water drain, except for model BS1 DG.
- Rubber antiskid feet adjustable in height.

## Standard thermal equipment

- Digital P.I.D. controller with autotuning, NTC probe
- Temperature range: from + 5°C above ambient up to boiling water (cover is needed in this case)
- Visualized resolution: three digits (0,1°C), double display (set point, measured temperature)
- Double over temperature protection system:
  - a) Safety independent thermal controller (class 3.1 – DIN 12880), is activated in case of default of the main digital controller or of the main probe, with visual alarm
  - b) Safety device with adjustable entry point related to set point (at 1,5°C fixed beyond set point, class 2 – DIN 12880), in case of default of the main digital controller, with visual alarm
- Temperature uniformity in the tank:  $\pm 0,25^{\circ}\text{C}$  at  $80^{\circ}\text{C}$
- Thermal Accuracy (time):  $\pm 0,20^{\circ}\text{C}$  at  $80^{\circ}\text{C}$
- Manufactured in compliance with the DIRECTIVES of the EUROPEAN COUNCIL 2006/42/CE (Machinery Directive), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).
- Factory temperature calibration certificate (standard 1 measure)

## Optional

|                                                       |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |                                                               |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 8826001                                               | ELECTRIC WATER MIXER (shaft with stirring fan)<br>Please note: this optional accessory is composed by a stainless steel box dim. mm 185x85x68 placed on the tank in side position; the shaft with the stirring fan is contained within a stainless steel protection dim. mm 60x60 placed into the tank along the short side in central position. |                                                                                                                               |                                                               |
| 8843002                                               | Digital Timer 99h 59' integrated in the digital PID controller (count down – continuous mode)                                                                                                                                                                                                                                                    |                                                                                                                               |                                                               |
| 0101021                                               | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure)                                                                                                                                                                                                                                        |                                                                                                                               |                                                               |
| Antidropping stainless steel Cover double inclination |                                                                                                                                                                                                                                                                                                                                                  | Test tubes stainless steel Racks, three levels dim. mm 295 x 145<br>(any bath can contain so many as the model number: BS...) |                                                               |
| 8822001                                               | mod. BS1 separate                                                                                                                                                                                                                                                                                                                                | 8827206                                                                                                                       | Test tubes rack 18 places, hole $\varnothing$ mm 30           |
| 8822501                                               | mod. BS1 hinged                                                                                                                                                                                                                                                                                                                                  | 8827554                                                                                                                       | Test tubes rack 55 places, hole $\varnothing$ mm 17           |
| 8822002                                               | mod. BS2 separate                                                                                                                                                                                                                                                                                                                                | 8827602                                                                                                                       | Test tubes rack 60 places, hole $\varnothing$ mm 13           |
| 8822502                                               | mod. BS2 hinged                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |                                                               |
| 8822003                                               | mod. BS3 separate                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |                                                               |
| 8822503                                               | mod. BS3 hinged                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |                                                               |
| 8822505                                               | mod. BS5 hinged                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               | On request test tubes racks with holes of different diameters |



| BS<br>Model<br>Code | Internal upper dimensions tank<br>(mm) |     |     | External dimensions<br>(mm) |     |     | Capacity<br>litres |       | Weight | Power<br>(230V 50-60 Hz)<br>(*) (**) |
|---------------------|----------------------------------------|-----|-----|-----------------------------|-----|-----|--------------------|-------|--------|--------------------------------------|
|                     | W                                      | D   | H   | W                           | D   | H   | Net                | Total | Kg     | W                                    |
| BS 1 DG<br>9025010  | 300                                    | 150 | 160 | 370                         | 220 | 350 | 7                  | 9     | 7      | 400                                  |
| BS 2 DG<br>9025020  | 329                                    | 300 | 160 | 400                         | 370 | 350 | 15                 | 18    | 11     | 900                                  |
| BS 3 DG<br>9025030  | 500                                    | 300 | 160 | 575                         | 370 | 350 | 21                 | 28    | 15     | 1300                                 |
| BS 5 DG<br>9025050  | 620                                    | 500 | 160 | 695                         | 575 | 350 | 48                 | 58    | 19     | 2500                                 |

(\*) except for stirring motor code 8826001 = 50 Hz

(\*\*) on request execution 115 V



WATER MIXER VERSION  
Cod. 8826001

# D - WATER DISTILLER

## WATER DISTILLER



Over 50 years in cooperation with the health world, the scientific research, the environmental and quality control world

## Key Features

- Full stainless steel AISI 304 “Scotch Brite” construction, allows maximum corrosion resistance and easy cleaning.
- Upper cooling body easily detachable by the lower boiling chamber in order to proceed to periodic cleaning and descaling .
- Pre-warming of feeding water by the cooling dome, in order to reduce energy consumption
- Rubber antiskid feet adjustable in height

## Standard equipment

- Safety line breaking switch
- Safety water level device, in case of water failure in the boiling chamber or insufficient entry flow breaks the warming process (automatic reset)
- Incoloy armoured resistors for maximum long lasting life.
- Feeding water tap factory pre-regulated (adjustable incase of different pipes pressure)
- Complete with plastic tubes for water draining and distilled water output
- Manufactured in compliance with Directions of the European Council 2006/42/CE (Machinery), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).

## Optional

| Code    | Description                                                                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8831520 | Automatic cycle Water Softener with ionic exchange resins, electronic controller programming regeneration mode, capacity resins 10 lt, In/Out connections 3/4" - Alim. 230V |
| 8832485 | Feeding Water Tube length m 2 with double filet ¾"                                                                                                                          |

| Technical Data                                                 | Mod. D5<br>Cod. <b>9031005</b> | Mod. D5/T<br>Cod. <b>9031105</b> | Mod. D10/T<br>Cod. <b>9031110</b> |
|----------------------------------------------------------------|--------------------------------|----------------------------------|-----------------------------------|
| Hour Production litres (Approx.)                               | 5                              | 6                                | 10                                |
| Conductivity uS / cm (approximate, with tap water feeding)     | 3                              | 3                                | 3                                 |
| Electric Supply V / 50 - 60 Hz (**)                            | 230                            | 400 three phase                  | 400 three phase                   |
| Power W                                                        | 4100                           | 4800                             | 7500                              |
| Absorption A                                                   | 18                             | 7                                | 11                                |
| Safety Line Breaking Switch                                    | Bipolar 20 A                   | 3P - 16 A                        | 3P - 16 A                         |
| Plug CE (A)                                                    | 32                             | 16                               | 16                                |
| Dimensions (mm) WxDxH<br>Total width with draining tube mm 490 | 450x370x750                    | 450x370x750                      | 450x370x750                       |
| Weight (Kg)                                                    | 23                             | 24                               | 24                                |

(\*\*) on request other voltage

# SCN/DG – SCF/DG

**THERMOSTATIC OVENS**  
**NATURAL AIR CONVECTION / FORCED AIR CIRCULATION**

**FOR DRYING, STERILISATION JOBS, TESTS ON MATERIALS**  
**WITH DIGITAL PID CONTROLLER**





Over 50 years in cooperation with the health world, the scientific research, the environmental and quality control world

## Key Features

- Full stainless steel construction, internal walls AISI 430, external structure AISI 304 “Scotch Brite”, allows maximum corrosion resistance and easy cleaning
- Internal chamber with laminar air circulation and uniform warmth distribution offered by two lateral convection ducts with perforated walls and by resistors position in pre-warming chamber
- Motor with fan for air circulation fixed in lateral position, allows an horizontal and diagonal air flow among all the volume of the chamber (only mod. SCF/DG)
- Thermal insulation by high quality mineral fiber in adequate thickness.
- Front door with thermal insulation (one or two according to the model), with silicone rubber gasket.
- Perforated stainless steel AISI 430 lean shelves, extractable and fixable on different heights.
- Pass-through port (on the back wall) for exhaust air external probes (as standard mod. SCN, on request mod. SCF)
- Rubber antiskid feet adjustable in height.

## Standard thermal equipment

- Digital P.I.D. controller with autotuning, PT100 probe
- Temperature range: from +10°C above ambient up to + 250°C
- Visualized resolution: three digits (1°C), double display (set point, measured temperature)  
( on request resolution 0,1°C)
- Double overtemperature protection system:
  - a) Safety independent adjustable thermal controller (3.1 class – DIN 12880), is activated in case of default of the main digital controller or of the main probe, with visual alarm
  - b) Safety device with adjustable entry point related to set point (fixed 5°C beyond set point), in case of default of the main digital controller, with visual alarm
- Temperature uniformity in the chamber:
  - ± 2,0°C at 150°C (model SCN)
  - ± 1,5°C at 150°C (model SCF)
- Thermal Accuracy (time):
  - ± 0,3°C at 150°C
- Manufactured in compliance with the DIRECTIVES of the EUROPEAN COUNCIL 2006/42/CE (Machinery Directive), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).
- Factory temperature calibration certificate (standard 1 measure for 3 points of the chamber)



Over 50 years in cooperation with the health world, the scientific research, the environmental and quality control world

## Optional

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------|------------------------------------|-------|------|------|---------------|---------|---------|---------------|---------|---------|---------------|---------|---------|---------------|---------|---------|----------------|---------|---------|----------------|---------|---------|----------------|---------|---------|----------------|---|---------|
| Code                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8843001                             | Digital Timer 99h 59' (integrated in the digital PID controller), count down – continuous modes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8843201                             | Programmer 8 segments (4 ramps + 4 permanencies) / Digital Timer 99h, 59'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8843203                             | Programmer 8 programs up to 12 segments (6 ramps + 6 permanencies) / Digital Timer 99h, 59'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8843224                             | 3.5 "color touch screen programmer, LED backlight, max. 24 segments, 20 programs, hour/ minute and minute/second setting, delayed start, program repeat, exportable stored data, micro USB port, SD card slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8843251                             | Programmer 200 segments, 90 programs in memory, Real Time Clock, with USB port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8844101                             | USB port with RS 485 converter, for data recording (management software occurs )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8845315                             | Digital daily / weekly Timer 24 h / week days, allows working cycles on 24h o weekly basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8849318                             | Acoustic / Visual end of cycle indicator (with pilot light). (Code 8843001 or code 8843201 is needed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8845340                             | Videographic colours Recorder 5,7" TFT IP65 LCD display, internal memory data storage and compact flash 512 MB, USB port, independent PT100 probe, complete with data analysis software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 8853624                             | By-pass duct for external thermometric probes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| 0101051                             | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure for 3 points of the chamber)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
|                                     | <table><tr><td>Stainless Steel AISI 304Floor Stand</td><td>Supplementary Perforated Stainless Steel Shelves AISI 430</td><td>Temperature Upgrade Kit Max +300°C</td></tr><tr><td>Model</td><td>Code</td><td>Code</td></tr><tr><td>SCN/SCF 21 DG</td><td>8853202</td><td>8853502</td></tr><tr><td>SCN/SCF 40 DG</td><td>8853204</td><td>8853504</td></tr><tr><td>SCN/SCF 58 DG</td><td>8853206</td><td>8853506</td></tr><tr><td>SCN/SCF 96 DG</td><td>8853210</td><td>8853510</td></tr><tr><td>SCN/SCF 162 DG</td><td>8853216</td><td>8853516</td></tr><tr><td>SCN/SCF 245 DG</td><td>8853225</td><td>8853525</td></tr><tr><td>SCN/SCF 400 DG</td><td>8853240</td><td>8853540</td></tr><tr><td>SCN/SCF 760 DG</td><td>-</td><td>8853575</td></tr></table> | Stainless Steel AISI 304Floor Stand | Supplementary Perforated Stainless Steel Shelves AISI 430 | Temperature Upgrade Kit Max +300°C | Model | Code | Code | SCN/SCF 21 DG | 8853202 | 8853502 | SCN/SCF 40 DG | 8853204 | 8853504 | SCN/SCF 58 DG | 8853206 | 8853506 | SCN/SCF 96 DG | 8853210 | 8853510 | SCN/SCF 162 DG | 8853216 | 8853516 | SCN/SCF 245 DG | 8853225 | 8853525 | SCN/SCF 400 DG | 8853240 | 8853540 | SCN/SCF 760 DG | - | 8853575 |
| Stainless Steel AISI 304Floor Stand | Supplementary Perforated Stainless Steel Shelves AISI 430                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Temperature Upgrade Kit Max +300°C  |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| Model                               | Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Code                                |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 21 DG                       | 8853202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853502                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 40 DG                       | 8853204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853504                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 58 DG                       | 8853206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853506                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 96 DG                       | 8853210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853510                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 162 DG                      | 8853216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853516                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 245 DG                      | 8853225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853525                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 400 DG                      | 8853240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8853540                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |
| SCN/SCF 760 DG                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8853575                             |                                                           |                                    |       |      |      |               |         |         |               |         |         |               |         |         |               |         |         |                |         |         |                |         |         |                |         |         |                |   |         |

On request:

- Serial interface RS485 – RS232
- Management software (reporting, graphics, alarms, running process visualization)
- 4 wheels Kit for floor stand (n.2 with brake)

*We produce ovens on special measures  
and/or Customer demand  
and for continuous from 250 to 350°C*

Over 50 years in cooperation with the health world, the scientific research, the environmental and quality control world

| <b>SCN<br/>Natural air<br/>convection</b> | Internal Dimensions<br>(mm) |      |     | External dimensions<br>(except for opening knob)<br>(mm) |      |     | Cap.   | Shelves<br>supplied/<br>max | Doors | Weight | Power<br>(230V<br>50-60Hz)<br>(**) |
|-------------------------------------------|-----------------------------|------|-----|----------------------------------------------------------|------|-----|--------|-----------------------------|-------|--------|------------------------------------|
| Model                                     | W                           | H    | D   | W                                                        | H    | D   | Litres | n.                          | n.    | Kg     | W                                  |
| <b>Code</b>                               |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 21 DG                                 | 310                         | 260  | 250 | 610                                                      | 575  | 385 | 20     | 1 / 5                       | 1     | 25     | 800                                |
| <a href="#">9051002</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 40 DG                                 | 430                         | 310  | 300 | 730                                                      | 610  | 460 | 40     | 1 / 6                       | 1     | 36     | 1000                               |
| <a href="#">9051004</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 58 DG                                 | 460                         | 360  | 350 | 760                                                      | 660  | 490 | 58     | 2 / 8                       | 1     | 42     | 1200                               |
| <a href="#">9051006</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 96 DG                                 | 540                         | 440  | 420 | 840                                                      | 760  | 530 | 100    | 2 / 9                       | 1     | 58     | 1500                               |
| <a href="#">9051010</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 162 DG                                | 600                         | 600  | 450 | 900                                                      | 900  | 565 | 162    | 2 / 9                       | 1     | 70     | 2000                               |
| <a href="#">9051016</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 245 DG                                | 650                         | 700  | 550 | 950                                                      | 1020 | 680 | 250    | 2 / 10                      | 1     | 78     | 2400                               |
| <a href="#">9051025</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 400 DG                                | 830                         | 830  | 580 | 1130                                                     | 1130 | 715 | 400    | 2 / 10                      | 2     | 90     | 2800                               |
| <a href="#">9051040</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| SCN 760 DG                                | 1000                        | 1200 | 630 | 1300                                                     | 1520 | 760 | 756    | 3 / 18                      | 2     | 127    | 4100<br>(400V 3ph+N – 50-60Hz)     |
| <a href="#">9051075</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |

(\*\*) on request execution 115 V

| <b>SCF<br/>Forced air<br/>circulation</b> | Internal Dimensions<br>(mm) |      |     | External dimensions<br>(except for opening knob)<br>(mm) |      |     | Cap.   | Shelves<br>supplied/<br>max | Doors | Weight | Power (230V-<br>50Hz)<br>(**)  |
|-------------------------------------------|-----------------------------|------|-----|----------------------------------------------------------|------|-----|--------|-----------------------------|-------|--------|--------------------------------|
| Model                                     | W                           | H    | D   | W                                                        | H    | D   | Litres | n.                          | n.    | Kg     | W                              |
| <b>Code</b>                               |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 21 DG                                 | 310                         | 260  | 250 | 610                                                      | 575  | 385 | 20     | 1 / 5                       | 1     | 26     | 800                            |
| <a href="#">9054002</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 40 DG                                 | 430                         | 310  | 300 | 730                                                      | 610  | 460 | 40     | 1 / 6                       | 1     | 37     | 1000                           |
| <a href="#">9054004</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 58 DG                                 | 460                         | 360  | 350 | 760                                                      | 660  | 490 | 58     | 2 / 8                       | 1     | 43     | 1200                           |
| <a href="#">9054006</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 96 DG                                 | 540                         | 440  | 420 | 840                                                      | 760  | 530 | 100    | 2 / 9                       | 1     | 60     | 1500                           |
| <a href="#">9054010</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 162 DG                                | 600                         | 600  | 450 | 900                                                      | 900  | 565 | 162    | 2 / 9                       | 1     | 72     | 2000                           |
| <a href="#">9054016</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 245 DG                                | 650                         | 700  | 550 | 950                                                      | 1020 | 680 | 250    | 2 / 10                      | 1     | 80     | 2400                           |
| <a href="#">9054025</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 400 DG                                | 830                         | 830  | 580 | 1130                                                     | 1130 | 715 | 400    | 2 / 10                      | 2     | 92     | 2800                           |
| <a href="#">9054040</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |
| SCF 760 DG                                | 1000                        | 1200 | 630 | 1300                                                     | 1520 | 760 | 756    | 3 / 18                      | 2     | 131    | 4100<br>(400V 3ph+N – 50-60Hz) |
| <a href="#">9054075</a>                   |                             |      |     |                                                          |      |     |        |                             |       |        |                                |

(\*\*) on request other voltage/tension

# TA/DG

THERMOSTATIC INCUBATORS  
WITH WATER JACKET

FOR BACTERIOLOGICAL APPLICATIONS

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## Key Features

- Internal chamber with double walls by polished copper allowing a perfect and uniform warmth distribution. The water jacket all around the internal chamber enables an exceptional thermal steadiness
- External structure polished stainless steel AISI 304
- Thermal insulation by high quality mineral fiber in adequate thickness
- Double kind front door, external stainless steel with thermal insulation, internal tempered glass to allow visual inspection without thermal alterations
- Air ventilation hole device
- Glass condensers for a complete steam recovery, with water gauge
- Perforated stainless steel AISI 430 shelves, extractable
- Rubber antiskid feet

## Standard thermal equipment

- Digital P.I.D. microprocessor controller with autotuning, PT100 probe
- Temperature range: from +5°C beyond ambient up to +70°C
- Visualized resolution: three digits (0,1°C), double display (set point, measured temperature)
- Standard safety overtemperature protection system, with adjustable entry point related to set point (fixed 1,5°C beyond set point), with automatical intervention with visual alarm (Class 2 – DIN 12880)
- Temperature uniformity in the chamber:  $\pm 0,25^{\circ}\text{C}$  at  $37^{\circ}\text{C}$
- Thermal Accuracy (time):  $\pm 0,15^{\circ}\text{C}$  at  $37^{\circ}\text{C}$
- Manufactured in compliance with the DIRECTIVES of the EUROPEAN COUNCIL 2006/42/CE (Machinery Directive), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).
- Factory temperature calibration certificate (standard 1 measure for 3 points of the chamber)

## Optional

| Code    | Description                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| 8843001 | Digital Timer 99h 59' (integrated in the digital PID controller), count down – continuous modes                                       |
| 8853292 | Stainless Steel AISI 304 Floor Stand                                                                                                  |
| 0101051 | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure for 3 points of the chamber) |

On request:

- Serial interface RS485 – RS232
- USB Port
- Management software (reporting, graphics, alarms, running process visualization)

| TA       | Internal Dimensions (mm) |     |     | External Dimensions (mm) |     |     | Cap.   | Shelves | Doors | Weight | Power (230 V 50 Hz) (**) |
|----------|--------------------------|-----|-----|--------------------------|-----|-----|--------|---------|-------|--------|--------------------------|
| Model    | W                        | H   | D   | W                        | H   | D   | Litres | n.      | n.    | Kg     | W                        |
| Code     |                          |     |     |                          |     |     |        |         |       |        |                          |
| TA 19 DG | 300                      | 250 | 250 | 490                      | 380 | 425 | 19     | 1       | 1     | 25     | 150                      |
| 9068002  |                          |     |     |                          |     |     |        |         |       |        |                          |

(\*\*) on request other voltage / tension



# TS/DG – TSF/DG

THERMOSTATIC INCUBATORS FOR BACTERIOLOGY  
NATURAL AIR CONVECTION/FORCED AIR CIRCULATION

WITH DIGITAL PID CONTROLLER

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## Key Features

- Full stainless steel construction: internal walls AISI 430, external structure AISI 304 “Scotch Brite”, allows maximum corrosion resistance and easy cleaning
- Internal chamber with laminar air circulation and uniform warmth distribution offered by two lateral convection ducts with perforated walls and by resistors position in pre-warming chamber
- Motor with fan for air circulation fixed in lateral position, allows an horizontal and diagonal air flow among all the volume of the chamber (only model TSF/DG)
- Thermal insulation by high quality mineral fiber in adequate thickness
- Double kind front door (one or two according to the model), external stainless steel with thermal insulation, internal tempered glass to allow visual inspections without thermal modifications
- Perforated stainless steel AISI 430 shelves, extractable and fixable on different heights
- Pass-through port (on the back wall) for exhaust air external probes (as standard mod. TS, on request mod. TSF)
- Rubber antiskid feet adjustable in height

## Standard thermal equipment

- Digital P.I.D controller with autotuning. PT100 probe
- Temperature range: from + 5°C beyond ambient up to + 80°C
- Visualized resolution: three digits (0,1°C), double display (set point, measured temperature)
- Double overtemperature protection system:
  - a) Safety independent adjustable thermal controller (class 3.1 – DIN 12880), is activated in case of default of the main digital controller or of the main probe, with visual alarm
  - b) Safety device with adjustable entry point related to set point (fixed 1,5°C beyond set point), in case of default of the main digital controller, with visual alarm
- Temperature uniformity in the chamber:
  - ± 0,5°C at 37°C (model TS)
  - ± 0,4°C at 37°C (model TSF)
- Thermal Accuracy (time):
  - ± 0,2°C at 37°C
- Manufactured in compliance with the DIRECTIVES of the EUROPEAN COUNCIL 2006/42/CE (Machinery Directive), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).
- Factory temperature calibration certificate (standard 1 measure for 3 points of the chamber)



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## Optional

| Code          | Description                                                                                                                                                                                                  |                                                           |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 8843001       | Digital Timer 99h 59' (integrated in the digital PID controller), count down – continuous modes                                                                                                              |                                                           |
| 8843201       | Programmer 8 segments (4 ramps + 4 permanencies) / Digital Timer 99h, 59'.                                                                                                                                   |                                                           |
| 8843203       | Programmer 8 programs up to 12 segments (6 ramps + 6 permanencies) / Digital Timer 99h, 59'.                                                                                                                 |                                                           |
| 8843224       | 3.5 "color touch screen programmer, LED backlight, max. 24 segments, 20 programs, hour/minute and minute/second setting, delayed start, program repeat, exportable stored data, micro USB port, SD card slot |                                                           |
| 8844101       | USB port with RS 485 converter, for data recording (management software occurs)                                                                                                                              |                                                           |
| 8849324       | Overtemperature Acoustic / Visual Alarm Lamp (rather than standard visual alarm lamp)                                                                                                                        |                                                           |
| 8864623       | Forced ventilation speed continuous regulator (Min-Max)                                                                                                                                                      |                                                           |
| 8867106       | By pass duct for external thermometric probes                                                                                                                                                                |                                                           |
| 0101051       | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure for 3 points of the chamber)                                                                        |                                                           |
|               | Stainless Steel AISI 304 Floor Stand                                                                                                                                                                         | Supplementary perforated Stainless Steel Shelves AISI 430 |
| Model         | Codes                                                                                                                                                                                                        | Codes                                                     |
| TS/TSF 21 DG  | 8853202                                                                                                                                                                                                      | 8853502                                                   |
| TS/TSF 40 DG  | 8853204                                                                                                                                                                                                      | 8853504                                                   |
| TS/TSF 58 DG  | 8853206                                                                                                                                                                                                      | 8853506                                                   |
| TS/TSF 96 DG  | 8853210                                                                                                                                                                                                      | 8853510                                                   |
| TS/TSF 162 DG | 8853216                                                                                                                                                                                                      | 8853516                                                   |
| TS/TSF 245 DG | 8853225                                                                                                                                                                                                      | 8853525                                                   |
| TS/TSF 400 DG | 8853240                                                                                                                                                                                                      | 8853540                                                   |
| TS/TSF 760 DG | -                                                                                                                                                                                                            | 8853575                                                   |

On request:

- Serial interface RS485 – RS232
- Management software (reporting, graphics, alarms, running process visualization)
- 4 wheels kit for floor stand (n.2 with brake)



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| TS<br>Natural air<br>convection | Internal Dimensions<br>(mm) |      |     | External Dimensions<br>(except for opening knob)<br>(mm) |      |     | Cap.   | Shelves<br>supplied<br>/max | Doors | Weight | Power<br>(230V<br>50-60Hz)<br>(**) |
|---------------------------------|-----------------------------|------|-----|----------------------------------------------------------|------|-----|--------|-----------------------------|-------|--------|------------------------------------|
| Model                           | W                           | H    | D   | W                                                        | H    | D   | Litres | n.                          | n.    | Kg     | W                                  |
| Code                            |                             |      |     |                                                          |      |     |        |                             |       |        |                                    |
| TS 21 DG<br>9061002             | 310                         | 260  | 250 | 610                                                      | 575  | 385 | 20     | 1 / 5                       | 1     | 25     | 200                                |
| TS 40 DG<br>9061004             | 430                         | 310  | 300 | 730                                                      | 610  | 455 | 40     | 1 / 6                       | 1     | 36     | 270                                |
| TS 58 DG<br>9061006             | 460                         | 360  | 350 | 760                                                      | 660  | 485 | 58     | 2 / 8                       | 1     | 42     | 320                                |
| TS 96 DG<br>9061010             | 540                         | 440  | 420 | 840                                                      | 760  | 525 | 100    | 2 / 9                       | 1     | 59     | 400                                |
| TS 162 DG<br>9061016            | 600                         | 600  | 450 | 900                                                      | 900  | 560 | 162    | 2 / 9                       | 1     | 71     | 450                                |
| TS 245 DG<br>9061025            | 650                         | 700  | 550 | 950                                                      | 1020 | 675 | 250    | 2 / 10                      | 1     | 79     | 650                                |
| TS 400 DG<br>9061040            | 830                         | 830  | 580 | 1130                                                     | 1130 | 710 | 400    | 2 / 10                      | 2     | 91     | 750                                |
| TS 760 DG<br>9061075            | 1000                        | 1200 | 630 | 1300                                                     | 1520 | 750 | 756    | 3 / 18                      | 2     | 127    | 1280                               |

(\*\*) on request execution 115 V

| TSF<br>Forced air<br>circulation | Internal Dimensions<br>(mm) |      |     | External Dimensions<br>(except for opening knob)<br>(mm) |      |     | Cap.   | Shelves<br>supplied<br>/max | Doors | Weight | Power<br>(230 V<br>50 Hz)<br>(**) |
|----------------------------------|-----------------------------|------|-----|----------------------------------------------------------|------|-----|--------|-----------------------------|-------|--------|-----------------------------------|
| Model                            | W                           | H    | D   | W                                                        | H    | D   | Litres | n.                          | n.    | Kg     | W                                 |
| Code                             |                             |      |     |                                                          |      |     |        |                             |       |        |                                   |
| TSF 21 DG<br>9064002             | 310                         | 260  | 250 | 610                                                      | 575  | 385 | 20     | 1 / 5                       | 1     | 26     | 200                               |
| TSF 40 DG<br>9064004             | 430                         | 310  | 300 | 730                                                      | 610  | 455 | 40     | 1 / 6                       | 1     | 37     | 270                               |
| TSF 58 DG<br>9064006             | 460                         | 360  | 350 | 760                                                      | 660  | 485 | 58     | 2 / 8                       | 1     | 43     | 320                               |
| TSF 96 DG<br>9064010             | 540                         | 440  | 420 | 840                                                      | 760  | 525 | 100    | 2 / 9                       | 1     | 61     | 400                               |
| TSF 162 DG<br>9064016            | 600                         | 600  | 450 | 900                                                      | 900  | 560 | 162    | 2 / 9                       | 1     | 73     | 450                               |
| TSF 245 DG<br>9064025            | 650                         | 700  | 550 | 950                                                      | 1020 | 675 | 250    | 2 / 10                      | 1     | 81     | 650                               |
| TSF 400 DG<br>9064040            | 830                         | 830  | 580 | 1130                                                     | 1130 | 710 | 400    | 2 / 10                      | 2     | 93     | 750                               |
| TSF 760 DG<br>9064075            | 1000                        | 1200 | 630 | 1300                                                     | 1520 | 750 | 756    | 3 / 18                      | 2     | 132    | 1280                              |

(\*\*) on request other voltage / tension

# TSV/DG

FORCED AIR CIRCULATION THERMOSTATIC INCUBATORS  
VERTICAL LINE

WITH DIGITAL PID THERMAL CONTROLLER  
Vers. 2022.02





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## Construction features

- AISI 304 stainless steel construction for maximum corrosion resistance and ease of cleaning
- CFC-free polyurethane insulation (density 40 Kg / m<sup>3</sup>)
- Door with low emission "chamber" double-glazed frame, for an immediate visual inspection of the products.
- Motor with fan for forced air circulation, with air distribution channel along the whole height of the chamber.
- Automatic door closing and 90 ° brake for easier access to the chamber
- Door with magnetic gasket on 4 sides
- Reversibility of the door opening direction (on request)
- Perforated shelves in AISI 304 stainless steel, removable and positionable at different heights.
- Unidirectional castors with stabilizing feet (mod. TSV 340 DG - TSV 530 DG), swivel castors (2 with brake - mod. TSV 700 DG)

## Standard thermal equipment

Digital P.I.D. thermal controller with autotuning, with PT100 probe

- Temperature range from + 5 ° C over the ambient temperature to + 70 ° C
- Resolution displayed in three digits (0.1 ° C), double display (set point, detected temperature)
- Double overtemperature protection system as standard:
- Adjustable independent safety thermostat (class 3.1 - DIN 12880), is activated in case of failure of the main digital thermal controller or of the main probe, with visual alarm
- Safety device with variable intervention threshold according to the set point (at 1.5 ° C fixed above the set point), in case of failure of the main digital controller, with visual alarm
  - Temperature uniformity in the cell :  $\pm 0.5^{\circ}\text{C}$  at 37 ° C
  - Temperature control accuracy (time):  $\pm 0.2^{\circ}\text{C}$  at 37 ° C
- Compliant with EUROPEAN COUNCIL DIRECTIVES 2006/42 / EC (Machinery Directive), 2014/35 / EU (Low Voltage), 2014/30/UE (Electromagnetic Compatibility Directive) and the EN 6101-1: (2001) standards.
- Factory temperature calibration certificate (standard 1 measure for 3 points of the chamber)



## Optional accessories

| Code    | Description                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| 8843001 | Digital timer 99h 59 '(integrated in the PID digital thermal controller), count down function - continuous                            |
| 8843201 | 8-segment programmer (4 ramps + 4 soaks) digital timer 99h 59 '                                                                       |
| 8843203 | Programmer 8 programs up to 12 segments (6 ramps + 6 soaks), digital timer 99h 59 '                                                   |
| 8844101 | USB port with RS 485 converter for data recording (supervision software required)                                                     |
| 8867106 | Pass-through hole for control thermometric probe                                                                                      |
| 8867534 | Additional perforated shelves in AISI 304 stainless steel for mod. TSV 340 DG                                                         |
| 8867553 | Additional perforated shelves in AISI 304 stainless steel for mod. TSV 530 DG                                                         |
| 8867570 | Additional perforated shelves in AISI 304 stainless steel for mod. TSV 700 DG                                                         |
| 0101051 | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure for 3 points of the chamber) |

On demand:

- LED lamps for internal lighting with microswitch for switching on when the door is opened
- RS485 - RS232 serial interface
- Supervision software (reporting, graphics, alarms, visualization of ongoing processes)

| TSV      | Internal dimensions (mm) |        |       | External dimensions (mm) |        |       | Net capacity | Shelves supplied / max | Weight | Absorbed power (230V 50Hz) |
|----------|--------------------------|--------|-------|--------------------------|--------|-------|--------------|------------------------|--------|----------------------------|
| Item     | width                    | height | depth | width                    | height | depth | Liters       | n.                     | Kg     | W                          |
| TSV340DG | 475                      | 1475   | 442   | 555                      | 1944   | 610   | 310          | 3 / 8                  | 98     | 300                        |
| 9065034  |                          |        |       |                          |        |       |              |                        |        |                            |
| TSV530DG | 605                      | 1595   | 487   | 685                      | 2064   | 655   | 470          | 4 / 10                 | 139    | 450                        |
| 9065053  |                          |        |       |                          |        |       |              |                        |        |                            |
| TSV700DG | 565                      | 1555   | 655   | 685                      | 2105   | 850   | 575          | 4 / 10                 | 180    | 600                        |
| 9065070  |                          |        |       |                          |        |       |              |                        |        |                            |

# TSR/DG

COOLED INCUBATORS  
COMPRESSOR TECHNOLOGY  
FORCED AIR CIRCULATION

WITH DIGITAL PID CONTROLLER  
Vers. 2024.11



## Key features

- Full AISI 304 “Scotch Brite” stainless steel construction: allows maximum corrosion resistance and easy cleaning
- Thermal insulation by high density CFC-free polyurethane
- Thermally insulated AISI 304 stainless steel door, or, on request, version with glass door with alloy frame with double low-emissivity tempered glass to allow visual inspections without thermal alterations
- Automatic door lock with brake at 90° for an easier access to the chamber
- Door with magnetic gasket on the 4 sides
- Perforated stainless steel AISI 304 shelves, extractable and fixable on different heights
- Rubber antiskid feet adjustable in height (mod. TSR 140 DG – TSR 210 DG), one-way castor wheels (mod. TSR 340 DG - TSR 460 DG – TSR 530 DG), pivoting wheels (no. 2 with brake – mod. TSR 700 DG)

## Standard thermal equipment

- Digital PID microprocessor controller with autotuning, PT100 probe
- Temperature range: from + 1°C up to +60°C
- Visualized resolution: three digits (0,1°C), double display (set point + measured temperature)
- Climatic class ISO 4 for optimal working up to environmental temperature of +32°C
- Double static condenser with ventilation group
- Cooling system with ecological coolant R290
- Overtemperature protection system (Class 2 – DIN 12880):
  - Safety device with self-adjustable entry point related to set point (fixed 1,5°C beyond set point), in case of default of the digital controller or of the probe, with visual alarm
- Temperature uniformity in the chamber:  $\pm 0,5^{\circ}\text{C}$  at +20°C
- Thermal accuracy (time):  $\pm 0,5^{\circ}\text{C}$  at +20°C
- Manufactured in compliance with the DIRECTIVES of the EUROPEAN COUNCIL 2006/42/CE (Machinery Directive), 2014/35/UE (Low Voltage Directive), 2014/30/UE (EMC Directive) and standards EN 6101-1:(2001).
- Factory temperature calibration certificate (standard 1 measure for 3 points of the chamber)



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## Optionals

|         |                                                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| 8843001 | Digital timer 99h 59' (integrated in the digital PID)                                                                                 |
| 8843201 | Programmer 8 segments (4 ramps + 4 permanencies) /Digital Timer 99h, 59'.                                                             |
| 8843203 | Programmer 8 programs up to 12 segments (6 ramps + 6 permanencies) /Digital Timer 99h, 59'.                                           |
| 8844101 | USB serial port                                                                                                                       |
| 8845318 | 24h/weekly digital timer for managing lighting cycles                                                                                 |
| 8851200 | TSS - Independent adjustable temperature controller (Class 3.1 – DIN 12880)                                                           |
| 8867106 | Passing through hole for thermometric control probe                                                                                   |
| 8867514 | Supplementary perforated AISI 304 stainless steel shelves (mod. TSR 140 DG)                                                           |
| 8867521 | Supplementary perforated AISI 304 stainless steel shelves (mod. TSR 210 DG)                                                           |
| 8867534 | Supplementary perforated AISI 304 stainless steel shelves (mod. TSR 340 DG)                                                           |
| 8867543 | Supplementary perforated AISI 304 stainless steel shelves (mod. TSR 460 DG – TSR 530 DG)                                              |
| 8867570 | Supplementary perforated AISI 304 stainless steel shelves (mod. TSR 700 DG)                                                           |
| 0101051 | Factory temperature calibration certificate by thermometric chain Accredia certified (standard 1 measure for 3 points of the chamber) |

On request:

- Led lamps kit for internal lighting with microswitch at door's opening
- Management software (reporting, graphics, alarms, running process visualization)

| ITEM            |                   | Internal dimensions (mm) |      |         | External Dimensions (except for opening handle) (mm) |      |     | Cap.   | Shelves | Weight | Power (230V 50 Hz) |
|-----------------|-------------------|--------------------------|------|---------|------------------------------------------------------|------|-----|--------|---------|--------|--------------------|
| BLIND DOOR CODE | DOOR CODE GLASSED | W                        | H    | D       | W                                                    | H    | D   | Liters | n.      | Kg     | W                  |
| TSR140DG        |                   | 540                      | 640  | 270/382 | 630                                                  | 838  | 567 | 121    | 2       | 57     | 400                |
| 9067014         | 9067314           |                          |      |         |                                                      |      |     |        |         |        |                    |
| TSR210DG        |                   | 480                      | 816  | 467     | 600                                                  | 1469 | 637 | 182    | 2       | 105    | 600                |
| 9067021         | 9067321           |                          |      |         |                                                      |      |     |        |         |        |                    |
| TSR340DG        |                   | 455                      | 1455 | 442     | 555                                                  | 1944 | 590 | 305    | 3       | 128    | 800                |
| 9067034         | 9067334           |                          |      |         |                                                      |      |     |        |         |        |                    |
| TSR460DG        |                   | 605                      | 1395 | 487     | 685                                                  | 1864 | 655 | 410    | 3       | 130    | 1000               |
| 9067046         | 9067346           |                          |      |         |                                                      |      |     |        |         |        |                    |
| TSR530DG        |                   | 605                      | 1595 | 487     | 685                                                  | 2064 | 655 | 470    | 4       | 139    | 1050               |
| 9067053         | 9067353           |                          |      |         |                                                      |      |     |        |         |        |                    |
| TSR700DG        |                   | 565                      | 1555 | 655     | 685                                                  | 2105 | 850 | 575    | 4       | 180    | 1100               |
| 9067070         | 9067370           |                          |      |         |                                                      |      |     |        |         |        |                    |



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## Summary

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