

SCN/DG – SCF/DG

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

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

Vers. 11/24



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 is 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																																								
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)																																								
8853401	4 wheels Kit for floor stand (n.2 with brake)																																								
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On request:

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

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

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

(**) on request execution 115 V

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

(**) on request other voltage/tension