

Dry incubators





### **Dry incubators**

#### **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
- By pass duct for introduction of monitoring thermometric probes (for mod. TS/TSF 58 DG and larger ones)
- 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:  $\pm$  0,5°C at 37°C (model TS)  $\pm$  0,4°C at 37°C (model TSF)
- Thermal Accuracy (time): ± 0,2°C at 37°C
- Manufactured in compliance with Directions of the European Council 2006/42/CE (Machinery), 2006/95/CE (Low Voltage), 2004/108/CE (Electromagnetic Compatibility EMC), norms EN 61010-1:(2001).





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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'.								
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)								
	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	8853275	8853575							

#### On request:

- Factory temperature calibration certificate (standard 1 measure for 3 points in the chamber)
- 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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## **Specification**

TS Natural air convection	Internal Dimensions (mm)			External Dimensions (except for opening knob) (mm)			Cap.	Shelves	Doors	Weight	Power (230V 50-60Hz) (**)
Model Code	w	Н	D	W	н	D	Litres	n.	n.	Kg	w
TS 21 DG	310	260	250	610	560	380	20	1	1	25	200
9061002								_	_		
TS 40 DG	430	310	300	730	610	455	40	1	1	36	270
9061004											
TS 58 DG	460	360	350	760	660	515	58	2	1	42	320
9061006											
TS 96 DG	540	440	40 420	840	760	575	100	2	1	59	400
9061010	340										
TS 162 DG	600	600	450	900	900	605	162	2	1	71	490
9061016	800	000	430	500							
TS 245 DG	CE0	700	550	950	1020	675	250	2	1	79	580
9061025	650										
TS 400 DG	830	830	580	1130	1130	710	400	2	2	91	750
9061040											
TS 760 DG	1000	1200	630	1300	1500	760	756	3	2	127	1280
9061075	1000	1200	630	1300	1300	700	730	3		12/	1280

(\*\*) on request execution 115 V

TSF Forced air circulation	Internal Dimensions (mm)			External Dimensions (except for opening knob) (mm)			Cap.	Shelves	Doors	Weight	Power (230 V 50 Hz) (**)
Model Code	W	Н	D	W	Н	D	Litres	n.	n.	Kg	w
TSF 21 DG 90G4002	310	260	250	610	560	380	20	1	1	26	200
TSF 40 DG 9064004	430	310	300	730	610	455	40	1	1	37	270
TSF 58 DG 9064006	460	360	350	760	660	515	58	2	1	43	320
TSF 96 DG 9064010	540	440	420	840	760	575	100	2	1	61	400
TSF 162 DG 9064016	600	600	450	900	900	605	162	2	1	73	490
TSF 245 DG 9064025	650	700	550	950	1020	675	250	2	1	81	580
TSF 400 DG 9064040	830	830	580	1130	1130	710	400	2	2	93	750
TSF 760 DG 9064075	1000	1200	630	1300	1500	760	756	3	2	132	1280

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



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