

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)





## **Dry incubators**

### **Specification**

TS Natural air convection	Internal Dimensions (mm)			External Dimensions (except for opening knob) (mm)			Cap.	Shelves	Doors	Weight	Power (230V 50-60Hz) (**)		
Model	W	Н	D	W	Н	D	Litres	n.	n.	Kg	W		
Code				**			Littes	""		۱٬۰۶	• • • • • • • • • • • • • • • • • • • •		
TS 21 DG	310	260	250	610	560	380	20	1	1	25	200		
9061002		200	230										
TS 40 DG	420	420	430	310	300	720	C10	455	40	1	1	36	270
9061004	430	310	300	730	610	455	40	1	1	36	270		
TS 58 DG	460	360	350	760	660	515	58	2	1	42	320		
9061006	460												
TS 96 DG	540	440	420	.0 840	760	575	100	2	1	59	400		
9061010		440	420										
TS 162 DG	600	600	600 600	450	900	900	605	162	2	1	71	490	
9061016			600										
TS 245 DG	700	700	500	1000	1000	655	245	2	2	79	580		
9061025		700											
TS 400 DG	830	830 830	830 580	1130	1130	710	400	2	2	91	750		
9061040													
TS 760 DG	1000	1200	1200 630	1300	1500	760	756	3	2	127	1280		
9061075		1000   1200											

<sup>(\*\*)</sup> 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	W	Н	D	w	Н	D	Litres	n.	n.	Kg	W
Code	VV										
TSF 21 DG	310	10 260	250	610	560	380	20	1	1	26	200
9064002	310	200									
TSF 40 DG	430	310	300	730	610	455	40	1	1	37	270
9064004	430	310	300								
TSF 58 DG	460	360	350	760	660	515	58	2	1	43	320
9064006	460	360									
TSF 96 DG	540	440	420	840	760	575	100	2	1	61	400
9064010	540										
TSF 162 DG	600	600	0 450	900	900	605	162	2	1	73	490
9064016		0   600									
TSF 245 DG	700	700	500	1000	1000	655	245	2	2	81	580
9064025											
TSF 400 DG	830	830 830	580	1130	1130	710	400	2	2	93	750
9064040											
TSF 760 DG	1000 120	1000 1300	630	1300	1500	760	756	3	2	132	1280
9064075		1200									

<sup>(\*\*)</sup> on request other voltage / tension



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