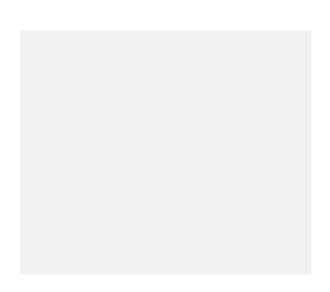


FDM Environment Makers Products

Climatic and Thermostatic Chambers
Growth Chambers
Environmental Chambers
Ultrafreezers
Custom Products





Thermostatic Chamber

TB-TS Series



FDM Environment Makers - F.III Della Marca S.r.I.

Viale Arcangelo Ghisleri 00176 Rome (Italy)

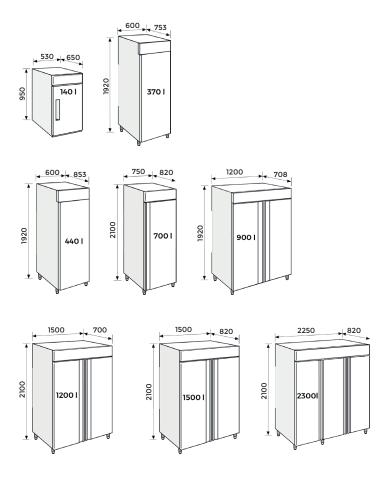
(+39) 06 29 80 42

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www.dellamarca.it

Technical specifications are subject to change

Sizes



The TB-TS series is FDM's standard thermostatic chamber category: you can choose different temperature and volume parameters.

The thermal tests are used to determine the quality, reliability and resistance of the samples to the various real external factors they may have to deal with in their life cycle.

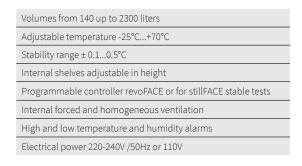
The thermostatic chamber is a fundamental instrument for the laboratory, also and above all because the various tests to be carried out are regulated by the various standards established by official research bodies.

The types of products to be tested are practically infinite, here are some of the most common sectors of application:

cosmetic and pharmaceutical food textile military/aerospace electronic components automotive building materials

According to the type of test, cyclic or constant, we will distinguish the type of controller or temperature controller, respectively revoFACE and stillFACE.

Advantages





The stillFACE controller is designed for stability testing.



The revoFACE programmer is designed for cycle testing.

Configuration examples







T700BXPRO PV101 + RT100



Positive Range (S)	T140S	T370S	T440S	T700S	T900S	T1200S	T1500S	T2300S			
Negative Range (B)	T140B	T370B	T440B	T700B	T900B	T1200B	T1500B	T2300B			
(S)	0+70										
Temperature range [°C] (B)	-20+70				-25+70						
Temperature performance											
Temperature uniformity depending on setpoint [± K]				0.5.	.2.5						
Temperature fluctuation depending on setpoint [± K]	0.10.5										
Average heating-up rate according to EN 60068-3-5 [K/min]	+2										
Average cooling down rate according to EN 60068-3-5 [K/min]	-1	-0.6		-1		-0.6		-1			
Outer dimeansions		•									
Width net [mm]	530	600	600	750	1200	1500	1500	2250			
Depth net [mm]	650	753	853	820	708	700	820	820			
Height net [mm]	950	1920	1920	2100	1920	2100	2100	2100			
Doors											
Unit doors	1	1	1	1	2	2	2	3			
Internal Dimensions											
Width [mm]	450	500	500	600	1090	1340	1300	2090			
Depth [mm]	540	480	580	670	580	570	670	670			
Height [mm]	520.5	1257	1257	1340	1257	1350	1340	1340			
Measures											
Interior net volume [L]	130	310	370	530	810	1020	1180	1830			
Net weight of the unit (empty) [kg]	70	93	103	160	190	205	208	360			
Permitted load per rack [kg]	30	30	30	30	30	30	30	30			
Fixtures											
Number of shelves (std./max.)	3/5	3/5	3/5	3/6	6/10	6/12	6/12	9/14			
Shelf Width [mm]	400	460	460	530	460	530	530	530			
Shelf Depth [mm]	500	470	570	650	570	550	650	650			
stillFACE Controller											
Controller	Constant monitoring temperature controller										
Interface port					Optional: RS485)					
revoFACE Programmer											
Set-up Display			Programme sta	tus, set up temp	erature and hu	midity, date, tim	e and languag	e			
Programmer	10 programs and 50 segments each, adjustable from 1 min. to 999 hrs.										
Calibration	Possibility to calibrate all parameters										
Interface port	Optional: RS485 - Optional: Ethernet - Wifi - Dedicated mobile app										
Environment-specific data											
Sound-pressure level [dB(A)]				6	0						

All technical data are specified for units with standard equipment at an ambient temperature of ± 24 °C and a voltage fluctuation of ± 10 %.

Positive Range (S)		T140S	T370S	T440S	T700S	T900S	T1200S	T1500S	T2300S		
Negative Range (B)		T140B	T370B	T440B	T700B	Т900В	T1200B	T1500B	T2300B		
Structure and insulation											
Exterior material	White coated galvanized steel or full Stainless steel AISI 304										
Internal material	AISI 304 Stainless Steel										
Insulation	CFC and HCFC free										
Shelf grill	Removable and height adjustable steel grid										
Ventilation											
Fan	forced ventilation										
Safety											
Temperature	Class 2 independent adjustable temperature safety devices (DIN 12880)										
Alarm	Audio-Visual										
Electrical data											
Rated Voltage [V]	220/240										
Power frequency [Hz]	50										
Nominal power [kW]	(S)	1.4	1.4	1.4	1.8	2.2	2.3	2.5	2.7		
	(B)	1.5	1.6	1.6	2.2	2.6	2.7	2.8	3.1		
Unit fuse [A]	16										
Phase (nominal voltage)		1~									

Main Options

- · ETH100 Ethernet interface for remote connection
- · RS485 Interface port RS485
- · PG50200 Upgrade. 50 program 200 step for revoFACE
- · PE100 Interior socket coverable universal 220-230 V
- · SPS100 Interior compartment glass doors
- · SPS07 Flooding system for EN1348-2007
- · BDS020 Relative humidity decreasing up to 2% @ 20°C
- · TE110 Power supply 110 V 50-60 Hz
- · CO200 CO2 Regulation System for EN 12390-10



· FD100

Cable hole installed on the side of the chamber that allows the passage of cables inside without loss of performance.



· UDB100

USB port for downloading test data with the possibility of viewing them on a PC in Excel format.



· GP100R

The reinforced stainless steel shelf differs from the standard one (pictured above) in that it has a higher supported load capacity.



· RT100

Swivel castors with chamber lock for easy movement.



· PV101

Double tempered glass door for a complete visibility of the environment and stability of the climatic conditions inside the chamber.