



FDM Environment Makers Products Climatic and Thermostatic Chambers Growth Chambers Environmental Chambers Ultrafreezers Custom Products



Thermostatic Chamber

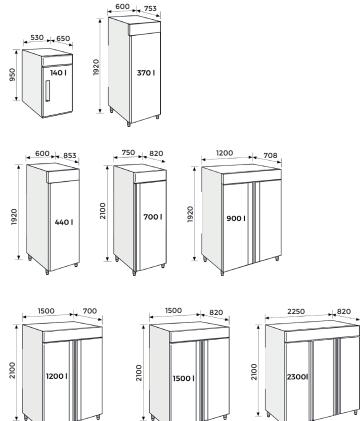
TB-TS Series



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Technical specifications are subject to change

Sizes



Advantages

Volumes from 140 up to 2300 liters
Adjustable temperature -25°C+70°C
Stability range ± 0.10.5°C
Internal shelves adjustable in height
Programmable controller revoFACE or for stillFACE stable tests
Internal forced and homogeneous ventilation
High and low temperature and humidity alarms
Electrical power 220-240V /50Hz or 110V

0680 0



The stillFACE controller is designed for stability testing.

designed for cycle testing.





RT100

Configuration examples

1

T700BXPRO PV101 + RT100



T1500SXPRO

The revoFACE programmer is

The TB-TS series is FDM's standard thermostatic

and volume parameters.

their life cycle.

application:

military/aerospace

automotive building materials

electronic components

food textile

cosmetic and pharmaceutical

chamber category: you can choose different temperature

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

The thermostatic chamber is a fundamental instrument for the laboratory, also and above all because the va-

rious tests to be carried out are regulated by the various standards established by official research bodies.

infinite, here are some of the most common sectors of

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

The types of products to be tested are practically



T140BXPRO PV101-140

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	0.52.5				
Temperature fluctuation depending on setpoint [± K]	0.10.5								
Average heating-up rate according to EN 60068-3-5 [K/min]	according +2								
Average cooling down rate accor- ding 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									
Programmer									
Calibration	Possibility to calibrate all parameters								
Interface port Optional: RS485 - Optional: Ethernet - Wifi - Dedicated mobile app						obile app			
Environment-specific data									
Sound-pressure level [dB(A)]	d-pressure level [dB(A)] 60								

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	T900B	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 stainless steel plastic coated									
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]	use [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.





• PV101

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

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

for

