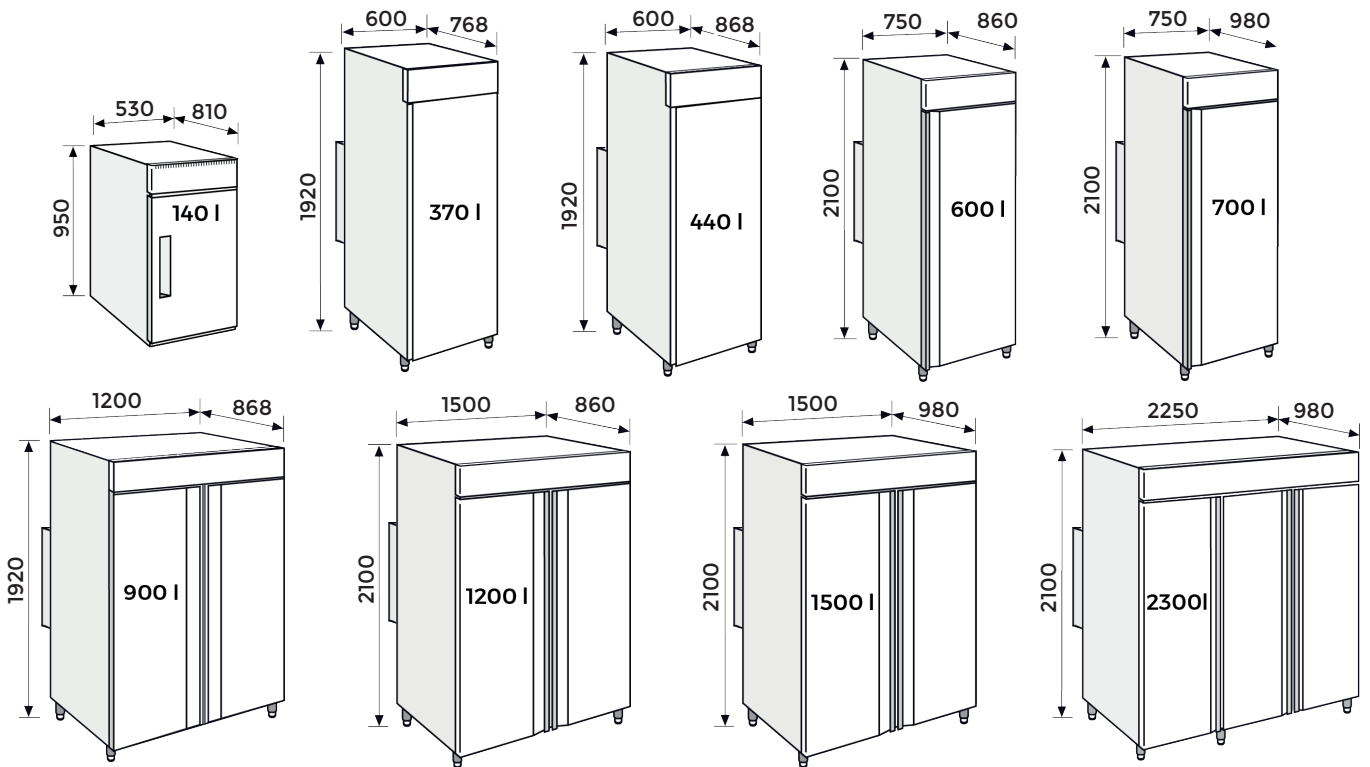


Climatic Chambers

CB-CS Series



EQUIPMENT



Volumes

140...2300 liters



Temperature

0°C...+70°C
-25°C...+70°C



Humidity

10 to 98% r.h.



Rack

Adjustable height



stillFACE

Controller for stability testing



revoFACE

Programmer for dynamic testing



Fan

Forced ventilation



Alarms

High/low temperature and humidity



Electric power

220-240V ~ /50Hz
or
110-115V ~ /60Hz

Positive Range (S)	C140S	C370S	C440S	C600S	C700S	C900S	C1200S	C1500S	C2300S
Negative Range (B)	C140B	C370B	C440B	C600B	C700B	C900B	C1200B	C1500B	C2300B
Temperature range without humidity [°C]	(S)				0...+70				
	(B)	-20...+70				-25...+70			
Temperature performance									
Temperature uniformity depending on setpoint [± K]					0.5..2.5				
Temperature fluctuation depending on setpoint [± K]					0.1..0.5				
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				
Performance Data Climate									
Temperature range [°C] humidity is on					+10/+70				
Humidity range in according to Chart ^{*1} [% r.h.]					10/98				
Humidity fluctuation depending on setpoint [± %]					≤ 3				
Humidification system	Ultrasonic humidification system								
Water filter	Water softening filter and replaceable cartridge equipped ^{*2}								
Max Water hardness permitted					600 ppm CaCO ₃				
Water inlet					Pressure 0.2÷5 BAR Temperature 10÷40°C Pipe connection 3/4"				
Outer dimensions									
Width net [mm]	530	600	600	750	750	1200	1500	1500	2250
Depth net [mm]	810	768	868	860	980	868	860	980	980
Height net [mm]	950	1920	1920	2100	2100	1920	2100	2100	2100
Doors									
Unit doors	1	1	1	1	1	2	2	2	3
Internal Dimensions									
Width [mm]	450	500	500	600	600	1090	1340	1300	2090
Depth [mm]	540	480	580	570	670	580	570	670	670
Height [mm]	520.5	1257	1257	1340	1340	1257	1350	1340	1340
Measures									
Interior net volume [L]	130	310	370	450	530	810	1020	1180	1830
Net weight of the unit (empty) [kg]	78	98	108	130	165	195	210	213	365
Permitted load per rack [kg]	30	30	30	30	30	30	30	30	30
Fixtures									
Number of shelves (std./max.)	3/5	3/5	3/5	3/6	3/6	6/10	6/12	6/12	9/14
Shelf Width [mm]	400	460	460	530	530	460	530	530	530
Shelf Depth [mm]	500	470	570	550	650	570	550	650	650
stillFACE Controller									
Controller	Constant monitoring temperature and humidity controllers								
Interface port	Optional: RS485								
revoFACE Programmer									
Set-up Display	Programme status, set up temperature and humidity, date, time and language								
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)]					60				

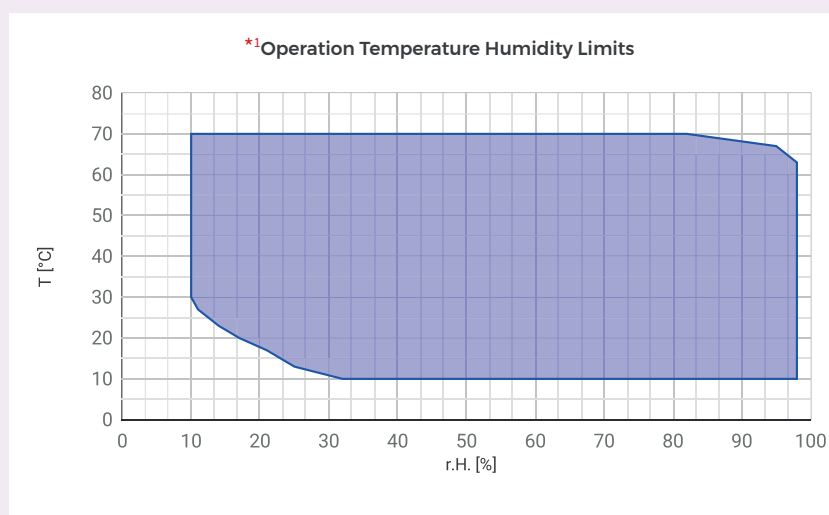
^{*2}The cartridge should be change every 4÷6 months at most.

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)	C140S	C370S	C440S	C600S	C700S	C900S	C1200S	C1500S	C2300S	
Negative Range (B)	C140B	C370B	C440B	C600B	C700B	C900B	C1200B	C1500B	C2300B	
Structure and insulation										
Exterior material	Stainless steel AISI 304									
Internal material	Stainless steel AISI 304									
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	1.5	1.4	1.8	1.8	2.2	2.4	2.6	2.7
	(B)	1.6	1.7	1.7	2.2	2.3	2.6	2.7	2.9	3.1
Unit fuse [A]	16									
Phase (nominal voltage)	1 ~									

Charts



Main Options

MINI TNH	Temperature/humidity Datalogger	SP100	Internal compartments lexan door
UDB100	USB port for storage data	GW100	Phorthole with anti-fogging glass
ETH100	Ethernet interface for remote connection	UMS100	Sterilised flux vapor humidifier
RS485	Interface port RS485	SPS07	Pools system for EN1348-2007
PG50200	Upgrade. 50 program 200 steps	PAC00	Wooden crate packaging
PG25100	Upgrade. 25 program 100 steps	PAW00	Wooden boxes packaging
GD100	Glass door	RT100	Castors kit
BDS020	Relative humidity decreasing up to 2% @ 20°C	FD100	Access cables port with plug
CO200	CO2 Regulation System for EN 12390-10	GP100	Additional rack
PE100	Interior socket coverable universal 220-230 V	GP100R	Additional reinforced rack
IR000	Interior neon lighting	PHZ60	Power supply 110 V 50-60 Hz
IR000LED	Interior LED lighting		
IS200	Dimmable adjusting light for individual lamp		
FP100	Photoperiod 24h control		
BSU10	Humidity extension range below the 10°C		

**Click and go to
Online Configurator**

bit.ly/2XV1xMg

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FDM - ENVIRONMENT MAKERS
Technical specifications are subject to change