

FDM Environment Makers Products

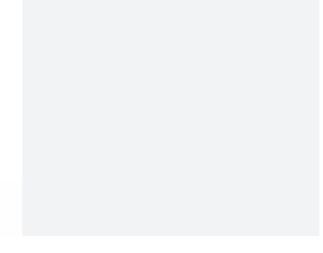
Climatic and Thermostatic Chambers
Growth Chambers
Environmental Chambers
Ultrafreezers
Custom Products



Environmental Chambers

40/70C180V Series





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

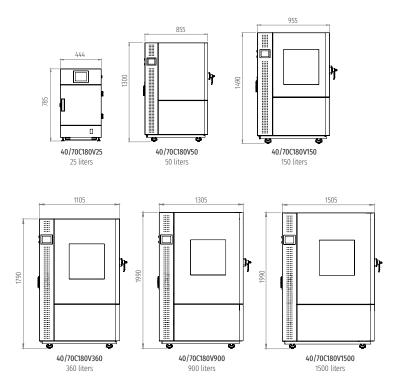
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Sizes



The 40/70C180V series is the category of FDM's best performing environmental chambers: you can choose different temperature, humidity and volume parameters.

You can also choose between a cyclic or constant climate chamber, the latter for those who need a stable test environment.

The environmental 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.

FDM environmental simulation chambers are equipped with a thermo-glazed door with quadruple toughened glass, to give a complete internal view of the chamber, without penalizing the test performance. Excluding models with a volume of 25 and 50 liters.

Moreover, as standard, the environmental chamber is equipped with a lateral hole for the passage of cables inside, 4 rotating wheels and the water tank for the humidification system, positioned so as to have easy access to it.

Advantages

Volumes from 25 to 1500 liters						
Adjustable temperature -70°C+180°C						
Humidity range 1098% ur						
Internal stainless steel shelves adjustable in height						
Programmable controller revoFACE or for stillFACE stable tests						
Anti-fog inspection window with LED lighting						
Distilled water tank with easy access						
Hole for cables passage inside the chamber Ø50 with cap						
Internal forced and homogeneous ventilation						
High and low temperature and humidity alarms						
Electric power 220-240V /50Hz or 110V						



The stillFACE controller is designed for stability testing.



The revoFACE programmer is designed for cycle testing.



Interior of environmental chamber constructed of stainless steel, including reinforced, adjustable and removable shelves.



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



Moisture system canister readily available via dedicated compartment.



Easy access to chamber maintenance parts.

Model	A	40C180V25	40C180V50	40C180V150	40C180V360	40C180V900	40C180V1500		
Model	B	70C180V25	70C180V50	70C180V150	70C180V360	70C180V900	70C180V1500		
Temperati	ure performance								
Temperatu	re range without humidity [°C])		-40	/+180				
B			-70/+180						
Temperatu	re range with humidity [°C]	30/98							
			<u> </u>						
on setpoin	re uniformity depending t [± K]	0,51,5							
Temperatu on setpoin	re fluctuation depending t [± K]		0,10,5						
Average he EN 60068-3	ating-up rate according to 3-5 [K/min]	+2	+5						
	Average cooling down rate according to EN 60068-3-5 [K/min]		-4						
Performar	nce Data Climate								
Humidity ra	ange [%]	30/98			10/98				
Humidity fl	luctuation depending on setpoint [±%]		0,52						
Water tank	[L]	4	5	12	12	18	25		
Outer dim	ensions								
Width net [[mm]	444	855	955	1105	1335	1505		
Depth net [[mm]	695	902	1102	1202	1559	1912		
Height net	[mm]	785	1300	1490	1790	1990	1990		
Wall cleara	nce back/ sidewise [mm]	250/250	250/250	250/250	250/250	250/250	250/250		
Viewing wi	ndow width/ height [mm]	0	0	480/480	480/480	480/480	480/480		
Doors									
Unit doors		1	1	1	1	1	1		
Internal Di	imensions								
Width [mm]	300	350	450	600	800	1000		
Depth [mm	1]	280	350	550	650	1000	1360		
Height [mn	n]	300	410	600	900	1100	1100		
Measures									
Interior vol	ume [L]	25	50	150	360	900	1500		
Net weight	of the unit (empty) [kg]	80	150	450	700	860	950		
Load per ra	ack [kg]	20	20	20	20	20	20		
Fixtures									
Number of	shelves (std./max.)	1/2	1/2	2/4	2/4	2/4	2/4		
Width net [[mm]	300	350	450	600	800	1000		
Depth net [[mm]	235	350	550	650	1000	1360		
still FACE C	ontroller								
Controller			Constant	monitoring tempera	ture and humidity co	ntrollers			
Interface p	ort			Optiona	l: RS485				
revo FACE F	Programmer								
Set-up Disp	olay		Programi	ne status, set up tem	nperature, humidity a	and time			
Programm	er	10 programs and 50 segments each, adjustable from 1 min. to 999 hrs.							
 Calibration	Possibility to calibrate all parameters								
Interface p	rt Optional: RS485 - Optional: Ethernet - Wifi - Dedicated mobile app								
Environme	ent-specific data								
	ssure level [dB(A)]			<					

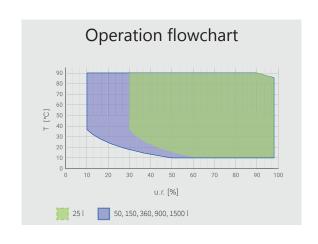
O = Optional

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

Model ()		40C180V25	40C180V50	40C180V150	40C180V360	40C180V900	40C180V1500		
Model B	3		70C180V25	70C180V50	70C180V150	70C180V360	70C180V900	70C180V1500		
Structure and insulation										
Exterior material			Painted phosphated steel sheet							
Internal material		AISI 304 Stainless Steel								
Insulation		CFC and HCFC free								
Shelf grill		Removable and height adjustable steel grid								
Ventilation										
Fan			Forced							
Safety										
Temperature	Temperature Class 2 independent adjustable temperature safety devices (DIN 12880)									
Alarm Audio-Visual										
Electrical data	a									
Rated Voltage [\	[V]	A	230	230	230	230	400	400		
		В	230	230	230	400	400	400		
Power frequen	ıcy [Hz]		50							
Nominal powe	er [kW]	A	2,3	5,2	7,1	8,5	15	18		
		В	5	8	10	13	19	23		
Phase (nomina	al voltage)	A	1	1	1	1	3	3		
		В	1	1	1	3	3	3		

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
- \cdot VOLXXE Volume extension of testing area
- W65T00 Kit for directly connection to the water source
- BDS020 Relative humidity decreasing up to 2% @ 20°C
- · UMS100 Sterilised flux vapor humidifier
- · TE110 Power supply 110 V 50-60 Hz
- · CO200 CO2 Regulation System for EN 12390-10





· UDB100

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



· IQ-OQ-100
IQ/OQ Validation



· EAC100

Compressed drying system.

air

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