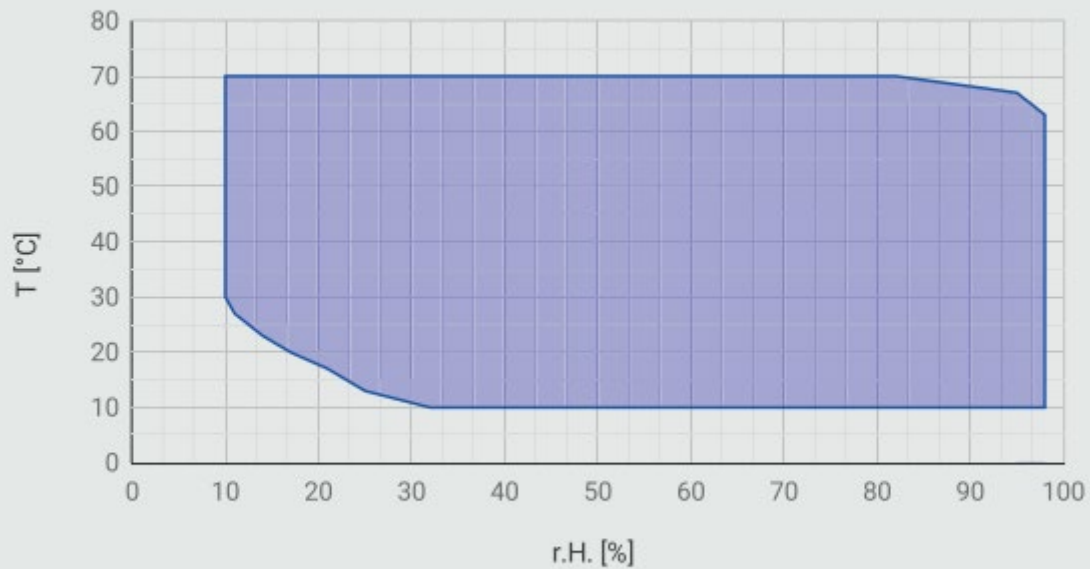


Climatic Chambers with temperature and humidity (FDMC-450-TH Series)

		FDMC-450-TH-PRO Touch Screen Controller	FDMC-450-TH PID Constant Controller
(1) Climatic Performance:			
Temperature Range without Humidity	(S)	0 to +70°C	
	(B)	-25°C to +70°C	
Temperature uniformity		0.5 to 2.5±°C	
Temperature fluctuation		0.1 to 0.5±°C	
Average heating-up rate according to EN 60068-3-5		+2°C/Min	
Average cooling down rate according to EN 60068-3-5		-1°C/Min	
Temperature range with active humidity		+10°C to +70°C	
Humidity Range		10 to 98 %rH	
Humidity fluctuation depending on setpoint		≤ 3±%	
(2) Dimensions and Weight:			
External Dimensions	Width	750 mm	
	Depth	860 mm	
	Height	2100 mm	
Internal Dimensions	Width	600 mm	
	Depth	570 mm	
	Height	1340 mm	
Internal net volume		450 L	
Net weight (Empty)		130 Kg	
(3) Doors and Shelves:			
Number of doors		1	
Number of shelves	Standard	3	Maximum 6
Shelf Dimension	Width	530 mm	Depth 550 mm
Permitted load per rack		30 Kg (Optional 35 Kg)	
Shelf Type		Removable and height adjustable stainless-steel grid	

		FDMC-450-TH-PRO Touch Screen Controller	FDMC-450-TH PID Constant Controller
(4) Controller:			
Controller		Touch Screen revoFACE Fully programmable	Constant PID Controller stillFACE
(5) Materials of Construction:			
External materials		AISI 304 Stainless Steel	
Internal materials		AISI 304 Stainless Steel	
Insulation		CFC and HCFC free	
Shelves		Stainless-steel grid	
(6) Safety:			
Temperature		Class 2 independent adjustable temperature safety devices (DIN 12880)	
Alarms		Audio-Visual	
(7) Other Technical Specifications:			
Humidification system		Ultrasonic	
Water filter		Water softening filter and replaceable cartridge equipped	
Max Water hardness permitted		600 ppm CaCO ₃	
Water Inlet		Pressure 0.2 to 5 BAR; Temperature 10°C to 40°C; Pipe connection 3/4"	
Sound-pressure level		60 dB(A)	
Ventilation		Fan forced ventilation	
(8) Electrical Data:			
Voltage		220 / 240 VAC single phase	
Frequency		50 Hz	
Nominal power		1.8 kW 2.2 kW (For -25°C to +70°C models)	
Unit fuse		16A	

Operation flowchart



*¹ Operation Temperature Humidity Limits

Main Options:

- Ethernet interface for remote connection
- Interface port RS485
- USB port
- Upgrade. 50 program 200 step for revoFACE
- Interior socket coverable universal 220-230 V
- Internal compartments lexan door
- Flooding system for EN1348-2007
- Relative humidity decreasing up to 2% at 20°C
- Humidity extension range below the 10°C
- Power supply 110 V 50-60 Hz
- CO2 Regulation System for EN 12390-10
- Cable Hole
- Double tempered glass door
- Swivel castors with chamber lock
- System of supply water tank 16 liters
- Reinforced stainless steel shelf