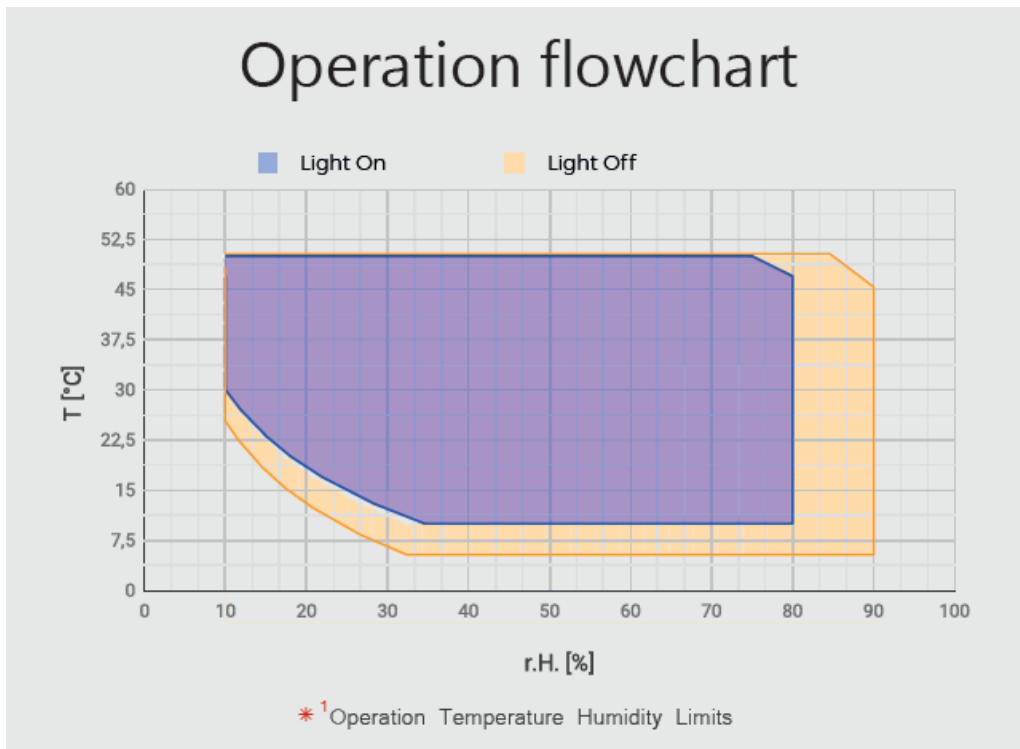


(1) Illumination chambers with temperature and humidity (FDML-810-THL Series)

		FDML-810-THL-PRO Touch Screen Controller	FDML-810-THL PID Constant Controller
(1) Climatic performance:			
Temperature Range without Humidity	Light OFF	(S) 0 to +55°C / (B) -10°C to +55°C	
	Light ON	(S) +5°C to +50°C / (B) -5°C to +50°C	
Temperature uniformity dep. on setpoint		0.5 to 2.5±°C	
Temperature fluctuation dep. on setpoint		0.1 to 0.5±°C	
Temperature range with active humidity		+10°C to +55°C	
Average heating-up rate according to EN 60068-3-5	Light OFF	+2°C/Min	
Average cooling down rate according to EN 60068-3-5	Light OFF	-1°C/Min	
Humidity Range	Light OFF	10 to 90 %rH	
	Light ON	10 to 80 %rH	
Humidity fluctuation		≤ 3%rH	
(2) Dimension and weight:			
External Dimension	Width	1200 mm	
	Depth	868 mm	
	Height	1920 mm	
Internal Dimension	Width	1090 mm	
	Depth	580 mm	
	Height	1257 mm	
Internal net volume		810 L	
Net weight (Empty)		197 Kg	
(3) Door and shelves:			
Number of doors		2	
Number of shelves	Standard	6	Maximum 10
Shelf Dimension	Width	460 mm	Depth 570 mm
Permitted load per rack		20 Kg (Optional 35 Kg)	
Shelf Type		Removable and height adjustable stainless-steel grid	

		FDML-810-THL-PRO Touch Screen Controller	FDML-810-THL PID Constant Controller
(4) Controller:			
Controller		Touch Screen revoFACE Fully programmable	Constant PID Controller stillFACE
(5) Materials of construction:			
External materials		White coated galvanized steel or full Stainless steel AISI 304	
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	
Inlet Water		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	Light OFF (S)	2.2 kW	
	Light OFF (B)	2.6 kW	
Unit fuse		16A	

(9) Light options:				
Lamp Type	Daylamp	Fluolamp	Biolamp	Arablamp
Application	Sunlight Simulation	Accelerated Plant Growth	Insect and bacteria incubation	Arabidopsis Growth Acceleration
Temperature performance Light on:				
At 0% light	(S) 0 to +55°C			
	(B) -10°C to +55°C			
At 100% light	(S) 5 to +50°C			
	(B) -5°C to +50°C			
Horizontal Shelf Illumination:				
Illumination on Shelf (W/m ²)	43	43	x	x
Illumination on Shelf (LUX)	13.000	5.000	x	x
PPFD [μmol/m2s]		170		x
Vertical Walls Illumination:				
Lateral inner walls illumination [LUX]	15.000	6.000	10.000	12.000
PPFD [μmol/m2s]		190		350
ICH Lamp - Photostability Test				
Temperature performance Light on:				
At 0% light	(S)	0 to +55°C		
At 100% light	(S)	5 to +50°C		
Horizontal Shelf Illumination:				
Illumination on Shelf for UV-A lamps [W/m ²]	Illumination on Shelf for White lamps [LUX]	Exposition time to reach 1,2 million of lux [Hours]	Exposition time to reach 200 W/m ² of UV-A (Hours)	
100	10.000	118	1.7	



Main Options:

- Ethernet interface for remote connection
- Interior socket coverable universal 220-230 V
- Interior neon lighting
- Interior LED lighting
- Dimmable adjusting light for individual lamp
- CO200 - CO2 Regulation System for EN 12390-10
- Cable Hole
- USB port for downloading test data
- Power supply 110 V 50-60 Hz
- Regulation System for EN 12390-10
- The reinforced stainless steel shelf
- Swivel castors with chamber lock
- The touch-screen interface
- System of supply demineralized water tank 16 liters