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www.calpower.it



"WALK IN" PLANT **GROWTH CHAMBER**

solution for botanical agricultural and applications, plant pathology, plant tissue culture studies, seed germination studies, plant genetic research...

- Custom sizes according to user requirements
 - Easy to use fully programmable controller
 - State of the art repeatability
 - Day light simulation control
 - Relative humidity control
 - Temperature control
 - CO2 control (option)
 - PC compatibility









Controller functions:

24 hour day & night cycle control:

24 hours (one day) can be divided into five phases of day and five phases of night!

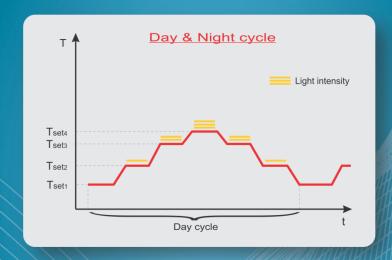
Example:

- Phase 1 (day): 07:00 to 10:00, T = 15°C, Rh = 70%, light intensity 1
- Phase 2 (day): 10:00 to 18:00, T = 30°C, Rh = 80%, light intensity 3
- Phase 3 (day): 18:00 to 21:00, T = 23°C, Rh = 75%, light intensity 2

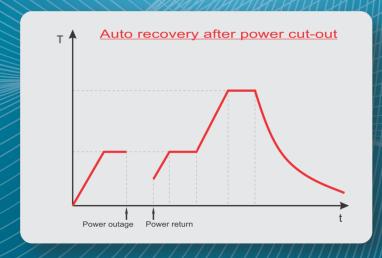
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- Phase 1 (night): 21:00 to 01:00, T = 20°C, Rh = 70%, no lights
- Phase 2 (night): 01:00 to 05:00, T = 18°C, Rh = 73%, no lights
- Phase 3 (night): 05:00 to 07:00, T = 19°C, Rh = 75%, no lights

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Auto recovery after power cut-out:





Technical data:

	Walk in Plant Growth Chamber	
External dimensions (WxHxD) in mm	According to user preferences	
Temperature range (°C) (lights on or off)	-20+60	
Rh range (%)	4095	
Temperature & Rh display resolution	0.1°C / 1%	
Temperature set resolution (°C)	0.1	
Rh set resolution (%)	1	
Temperature stability (°C) (lights off)	Better than ±0,3	
Temperature uniformity (°C) (lights off)	< ± 1 @ +37°C	
Rh Stability (%) (lights off)	Better than ±3	
Day light simulation	FLUORA lights (LED as an option)	
Illumination intensity	1/3, 2/3, 3/3	
Temperature Control	PIOMINI	
Cooling	Air cooled compressor aggregate	
Relative humidity	Steam generator / Ultrasonic humidifier / DEW point	
Power supply	3x400 V 50/60 Hz (± 10%)	
Access ports (mm)	Ø 40 standard, (Ø 50, Ø 90 as an accessory)	
Interface	RS 232 (USB or Ethernet as an optional)	

Accessories:

Description	Part no.
Evaluation report	1719
Monitoring and data collection software for PC	104
USB interface	1466
Ethernet interface	1716
Password protection	1718
CO2 control system	2108
CO2 CONTOL System	2106



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