

乾熱滅菌型



CO₂ Incubators

165 L













*Standard for Model No. including UV

Easy-to-Use 11 hours. 180°C Dry Heat Sterilising Model

PHCbi's dry heat sterilising CO₂ incubator inside the chamber. With heat dissipation and maximum current lowering functions, two units can be stacked on top of each other with one delivering dry heat sterilising while the other is for culture purposes. This eliminates bothersome sensor removal before sterilising and recalibrating temperature/CO2 gas concentration after sterilising, offering an ideal incubator that fulfills dry heat sterilising inside the chamber.

Stacking Enables Simultaneous Dry Heat Sterilisation and Cultivation to **Lower Heat Dissipation**

sterilisation, helping to reduce maximum current

units can be stacked so that one unit can be used for research to proceed safely and efficiently even in a



UV-LED Lamp Delivers Long-Lasting Performance

does not use harmful mercury and





Inner Compartment Integrated Shelf Ease and Increases Storage

the interior items used. It is now possible to place 20 100ø mm Petri dishes onto one tray. The advanced product design now effectively combines high





180°C Dry Heat Sterilising for **Approximately 11 Hours**

The new structural design enabling quick in-chamber temperature rising and reducing temperature distribution variations provides dry heat sterilising lasting approximately 11 hours. As no recalibrating temperature and post-sterilising CO₂ gas concentration are needed, restarting normal culturing immediately after sterilising can be conducted



Saves Replacing Germicidal Lamp Time and Reduces Running Costs

The use of a long-lasting LED lamp eliminates regular replacement of germicidal lamps even with 30-times daily door openings (except for malfunctions). The lamps are installed in the rear duct for only irradiating humidifying water. The tray cover also suppresses UV leaking to culturing areas so as not to



Centralised Management of Functions & Improved Usability



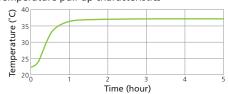
functions from a central point. The USB port next to the panel enables easily transferring logged data to memory devices.

The reversible door that opens and closes to the left or right now has an improved easy-to-grasp handle.

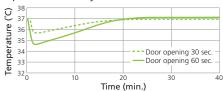


Performance Data

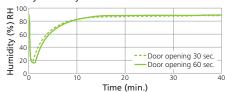
AT 23°C, SV 37°C, CO₂: 5 %, 115V/60Hz, no load Temperature pull-up characteristics



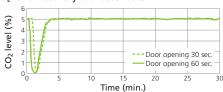
Temperature recovery characteristics



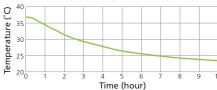
Humidity recovery characteristics



CO2 level recovery characteristics

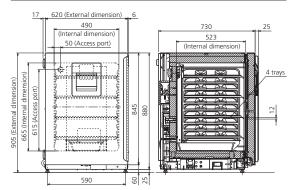


Temperature curve when power failure occurs



Dimensions

Unit : mm



Model Number		MCO-171AICD -PE	MCO-17	1AICUVD -PA	
External dimensions (W x D x H) ¹⁾	mm	620 x 75	5 x 905		
Internal dimensions (W x D x H)	mm	490 x 523 x 665			
Volume	litres	16	165		
Net weight	kg	80			
Performance					
Temperature control range & fluctuation	°C	AT +5 to +50, ±0.1	(AT: 5°C to 35°	C)	
Temperature uniformity ²⁾	-∘⊂		±0.25		
CO ₂ control range & fluctuation ²⁾	%	0 to 20, ±0.1			
Humidity level & fluctuation	% RH	95, ±5			
Control					
Temperature sensor		Thermistor			
CO ₂ sensor		Dual IR			
Display		Colour LCD touchscreen			
Construction					
Exterior material		Painted steel (Bottom and rear cover have no paint.)			
Interior material		Stainless steel copper-enriched alloy			
Insulation material					
Heating method		Glass-wool insulation Heater jacket system			
Sterilisation method 3)		Dry heat sterilisation		ırs	
Outer door	qty	1, Field-re		,,,,	
Electric door lock with password	qty	Stand			
Inner door					
Shelves		1			
Shelf dimensions (W x D x H)			4 x Stainless steel copper-enriched alloy 470 x 450 x 12		
` '	mm				
Max. load per shelf	kg	7			
Access port	qty	1			
Access port position	α	On the ba			
		30			
Access port diameter	Ømm				
Alarms		(V = Visual Alarm, B = Buzze	er Alarm, R = R	emote Alarm)	
Alarms Power failure	W IIIII	(V = Visual Alarm, B = Buzze R	er Alarm, R = R	emote Alarm)	
Alarms Power failure Temperature deviation		(V = Visual Alarm, B = Buzzo R V-B	er Alarm, R = Ro R	emote Alarm)	
Alarms Power failure Temperature deviation High temperature		(V = Visual Alarm, B = Buzze R V-B V-B	er Alarm, R = Ro -R -R	emote Alarm)	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation		(V = Visual Alarm, B = Buzze R V-B V-B V-B	-R -R -R	emote Alarm)	
Alarms Power failure Temperature deviation High temperature CO_2 deviation Door open		(V = Visual Alarm, B = Buzze R V-B V-B V-B	-R -		
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level		(V = Visual Alarm, B = Buzze R V-B V-B V-B V-I MCO-171AICD -PE	-er Alarm, R = R R R R R R B MCO-17	1AICUVD -PA	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply	V	(V = Visual Alarm, B = Buzze R V-B V-B V-B V-I MCO-171AICD -PE 220 - 240	-R -R -R -R -R -PE 220 - 240	1AICUVD -PA 110 - 120	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency	V	(V = Visual Alarm, B = Buzze R V-B V-B V-B V-B WCO-171AICD -PE 220 - 240 50/60	er Alarm, R = R -R -R -R -R -R -P -R -B -R -20-17	1AICUVD -PA	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40	V	(V = Visual Alarm, B = Buzze R V-B V-B V-B V-I MCO-171AICD -PE 220 - 240	er Alarm, R = R -R -R -R -R -R -P -R -B -R -20-17	1AICUVD -PA 110 - 120	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options	V	(V = Visual Alarm, B = Buzze V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60	er Alarm, R = R -R -R -R -R -R -P -R -S -R -S -R -S	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set	V	(V = Visual Alarm, B = Buzze V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60	-R -S -R -S	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator	V	(V = Visual Alarm, B = Buzzo R V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standal	-R -	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set	V	(V = Visual Alarm, B = Buzze V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60	-R -	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator	V	(V = Visual Alarm, B = Buzzo R V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standal	er Alarm, R = R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW GCP-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer	V	(V = Visual Alarm, B = Buzzo V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-01	-R -	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®)	V	(V = Visual Alarm, B = Buzzo V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-01 MCO-210 MCO-170	er Alarm, R = R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW GCP-PW 0ST-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 51	V	(V = Visual Alarm, B = Buzzo V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-01 MCO-210 MCO-210	-R -	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®)	V	(V = Visual Alarm, B = Buzzo R V-B V-B V-B V-B V-B V-B V-B V-B	er Alarm, R = R -R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW GCP-PW 0ST-PW 0ST-PW 0RT-PW 0PS-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 51	V	(V = Visual Alarm, B = Buzzo R V-B V-B V-B V-B V-B V-B V-B V	er Alarm, R = R -R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW 0ST-PW 0ST-PW 0ST-PW MCO-230SB-PW MCO-230SB-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 51 Stacking Plate 51	V	(V = Visual Alarm, B = Buzze R V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-01 MCO-210 MCO-171 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170	er Alarm, R = R -R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW 0ST-PW 0ST-PW 0ST-PW MCO-230SB-PW MCO-230SB-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 50 Stacking Plate 50 Roller Base	V	(V = Visual Alarm, B = Buzzo V-B V-B V-B V-B V-B V-B V-B V-I MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-11 MCO-210 MCO-17 MCO-17 MCO-17 MCO-170SB-PW, MCO-170SB-PW,	er Alarm, R = R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 6 rd in MCO-171A 0R-PW GCP-PW 0ST-PW 0PS-PW MCO-230SB-PW 0RB-PW MCO-17 -PE	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 50 Stacking Plate 50 Roller Base	V	(V = Visual Alarm, B = Buzza R V-B V-B V-B V-B V-B V-B V-B V-B	er Alarm, R = R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 6 rd in MCO-171A 0R-PW GCP-PW 0ST-PW 0ST-PW MCO-230SB-PW 0RB-PW MCO-17 -PE 33-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Plate 50 Stacking Plate 50 Roller Base Optional Communication Systems Interface Board ⁶¹ ; for LAN	V	(V = Visual Alarm, B = Buzzo R V-B V-B V-B V-B V-B V-B V-B V-B V-C MCO-171AICD -PE 220 - 240 50/60 25 MCO-LUVSD-PW (Standa MCO-210 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170 MCO-170 MCO-171 MCO-171AICD -PE MTR-L0	er Alarm, R = R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 5 rd in MCO-171A 0R-PW GCP-PW 0ST-PW 0PS-PW MCO-230SB-PW 0RB-PW MCO-17 -PE 33-PW 30-PW	1AICUVD -PA 110 - 120 60	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 50 Stacking Plate 50 Roller Base Optional Communication Systems Interface Board®; for LAN Interface Board®; for RS-232C/RS-485 Interface Board (4-20mA)	V	(V = Visual Alarm, B = Buzze V-B V-B V-B V-B V-B V-B V-B V-B	er Alarm, R = R -R -R -R -R -R B MCO-17 -PE 220 - 240 50/60 6 rd in MCO-171A 0R-PW GCP-PW 0ST-PW 0ST-PW MCO-230SB-PW MCO-17 -PE 03-PW MCO-17 -PE 03-PW MCO-17 -PE 03-PW	1AICUVD -PA 110 - 120 60 ICUVD) 1AICUVD -PA Standard 1AICUVD	
Alarms Power failure Temperature deviation High temperature CO ₂ deviation Door open Electrical and Noise Level Power supply Frequency Noise level 40 Options UV System Set Gas Regulator Gas Auto Changer Tray (same as that of standard accessory) Half Tray Reinforced Additional Tray (inCu-saFe®) Double-stacking Bracket 51 Stacking Plate 52 Roller Base Optional Communication Systems Interface Board ⁶³ ; for LAN Interface Board ⁶³ ; for RS-232C/RS-485	V	(V = Visual Alarm, B = Buzzo R V-B	-R -	1AICUVD -PA 110 - 120 60 ICUVD) 1AICUVD -PA Standard	

1) Exterior dimensions of main cabinet only, excluding handle and other external projections. 2) Ambient temperature 23°C, setting 37°C, CO₂ 5 %, no load. 3) Dry heat sterilisation can be performed only for the chamber and inner attachments with standard specifications, not for any other objects. 4) Nominal value. 5) If stacking two incubators, make sure the double-stacking dedicated securing hardware and spacer are used. 6) Only for the Data acquisition system MTR-5000 user. MCO-171AICD series can only be fitted with one communications interface. 7) MCO-171AICD and MCO-171AICD are for laboratory use. Caution: PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.



Preservation Equipment, Experimental Environment Equipment, Dispensary Equipment, Culturing Equipment and Drying & Sterilising Equipment for General

The management of the design, development, production and servicing of the above

PHC Corporation, Biomedical Division

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PHC Corporation Biomedical Division is certified for: Environmental management system: ISO14001

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