## **Panasonic**

# CO<sub>2</sub> incubators

Optimising cell culture productivity MCO-230AIC



# Optimising cell culture productivity

We understand that creating successful cell cultures requires a CO<sub>2</sub> incubator that offers the highest levels of precision, security and ease of use. Our latest MCO-230AIC CO<sub>2</sub> incubators with Panasonic's innovative technologies offer outstanding quality in performance, maximise cell culture productivity and provide optimum results and reproducibility.











# sensitive cell cultures

Delivering long-term performance, optimal cell viability and successful experiments, each Panasonic incubator provides precise control of CO<sub>2</sub> concentration and temperature, while remaining easy to operate and maintain. The MCO-230AIC CO<sub>2</sub> incubators support a reliable, stable cell culture environment across all shelf positions, meaning each and every cell is safely maintained under ideal conditions.

#### DHA Direct heat and air jacket system

 Provides high precision temperature control for advanced uniformity and rapid recovery after door opening.

#### NEW PID Control of CO<sub>2</sub> and temperature

 Precise control guarantees exceptional performance and optimum results.

#### NEW Dual IR CO<sub>2</sub> sensor

 Minimises the effect of temperature and humidity changes during and after door openings for outstanding  $CO_2$  control and fast recovery.

We know how valuable your cultures can be. Our advanced contamination control systems are designed to prevent the loss of your irreplaceable cell cultures with continuous background contamination control, all supported by a new security system.

#### InCu saFe® copper-enriched stainless steel interior

 Protects cell cultures by eliminating surface contamination sources and mitigating the effect of airborne contaminants.

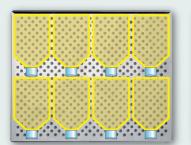
#### Optional Safe Cell UV® with NEW increased UV lamp life

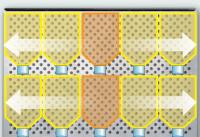
 Sterilises airborne and water pan contamination with 2.5 times longer lamp life.1

### NEW Optional electric door lock

 Provide enhanced security for your cultures and their conditions with an optional automatic electric door lock with password. Multiple registered users can have access with their individual ID and password, ensuring that valuable cell lines are only accessed by authorized persons.









We have designed our incubators with ease of use and efficiency in mind. By delivering a user friendly cell culture incubator with rapid systems and processes, Panasonic can help make your work as simple as possible.

## NEW More space for more cultures

 In a laboratory environment it is important to make the most of all the space available. With new integrated shelf supports, the Panasonic MCO-230AIC CO<sub>2</sub> incubators provide space for up to 25% more culture vessels<sup>2</sup>.

### NEW Integrated shelf supports

 Save valuable time and reduce the risk of contamination with an easy to clean incubator interior featuring fully rounded corners and integrated shelf supports.

## NEW USB port

 Optimise cell culture protocols and adhere to standard operating procedures by conveniently transferring data to a USB memory stick to pass on to a PC. Logged parameters include chamber temperature, CO<sub>2</sub> level, door open status and alarms.





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## NEW Full colour LCD touch screen

• The user friendly full colour LCD touch screen provides clear information of incubator status with easy access to controller functions for fast, convenient set-up.

# Panasonic's H<sub>2</sub>O<sub>2</sub> vapour sterilisation cycle reduces downtime to less than 3 hours for complete, validatable decontamination for increased productivity.

Decontamination time

Brand A

Panasonic

3hrs

12hrs

24hrs

<sup>2)</sup> The MCO-230AIC CO $_2$  incubators can accommodate 25% more BD Falcon 225 cm $^2$  flasks per shelf compared to the previous Panasonic MCO-20AIC CO $_2$  incubator.



- The MCO-230AIC is designed for stacking, allowing one unit to be positioned on top of another, doubling interior volume without additional floor space.
- An optional roller base is available for stacked installations for easier mobility.

See table below for details.

#### Double stacking table

Sp	acer for double-stacking	Lower unit		
		MCO-230AIC		
Upper unit	MCO-230AIC	MCO-170PS-PW		
	MCO-19AIC(M)/MCO-170AIC	MC0-230SB-PW		
	MCO-20AIC	MC0-230SB-PW		

The MCO-230AIC can also be stacked on top of a MCO-20AIC by using the stacking plate MCO-230SB-PW.



The MCO-230AIC series are certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of culturing cells, tissues, organs and embryos.

- 1) Exterior dimensions of main cabinet only, excluding handle
- <sup>2)</sup> Ambient temp 23°C, setting 37°C, CO<sub>2</sub> 5%, no load

#### MCO-230AIC CO2 incubators

#### Characteristics

- = Visual alarm
- В = Buzzer alarm
- = Remote alarm



MOD-201ALCLY-PE   Standard   MOD-201ALCLY-PE   MOD-201ALCLY-PE   Standard   MOD-201ALCLY-PE   MOD-201ACLY-PE   MOD-201ALCLY-PE   MOD-201ACLY-PE   MOD-201ALCLY-PE   MO	remote darm					
Dimensions   External dimensions   (WxDxH)	MODEL					
External dimensions (WxDxHI)	Dimensions		(31000000)	(310)	1,000,000	
Internal dimensions (WXDxH)		mm		770 x 730 x 905		
Volume						
Net weight (approx)   kg						
Performance						
Temperature uniformityal	3 11 1		70			
Temperature uniformitysi			AT . F . FO . O 1			
CO2 control range and fluctuation						
Humidity level and fluctuation   %RH   95, ±5		_	<u> </u>			
Control Temperature sensor Thermistor CO <sub>2</sub> sensor Display Construction Exterior material Insulation material Insulation material BhA heating system Outer door Outer						
Temperature sensor  Co2 sensor  Dual IR  Dual IR  Dual IR  Display  LCD touch screen  Construction  Exterior material  Interior material  Interior material  Interior material  DHA neating system  Puter door  Quer door lock		%RH		95, ±5		
Display   Display   LCD touch screen			TI			
Display  Construction  Exterior material  Interior material  Interior material  Insulation material  Display system  Painted steel (rear cover not painted)  Extruded polysytrene  DIA heating system  Y  Outer door  Qty  Qty  Qty  Qty  Qty  Qty  Qty  Qt						
Painted steel [rear cover not painted]						
Painted steel (rear cover not painted)			LCD touch screen			
Interior material   Extruded polystyrene   DHA heating system   Y				1		
Insulation material			Painte			
DHA heating system						
Outer door lock         option         option         standard           Reversible door         Y         Inner door         Y           Inner door         gty         1         Shelves         gty         4           Max. load per shelf         kg         7         Max. Shelf capacity         gty         10         Access port         gty         11         - position         Rear         - diameter         4 gmm         30         Access port         gty         1         - gmm         30         Access port         gty         1         - gmm         - gmm         30         Access port         gty         1         - gmm         - gmm         30         Access port         gty         1         - gmm         - gmm         30         Access port         gty         1         - gmm         - gmm         30         Access port         - gmm         30         Access port         - gmm         - gmm         30         Access port         - gmm         <			Extruded polystyrene			
Outer door lock         option         option         standard           Reversible door         Y         1           Inner door         qty         1           Shelves         qty         4           Max. load per shelf         kg         7           Max. total load         kg         20           Max. shelf capacity         qty         10           Access port         qty         1           - position         Rear         -           - diameter         Ø mm         30           Alarms         Rear         -           Power failure         R         Out of temperature setting           Out of CO <sub>2</sub> setting         V-B-R           Door open         V-B-R           Electrical and noise level         V-B-R           Power supply         V         230           Frequency         Hz         50           Noise level <sup>30</sup> dB         25           Options         SafeCell UV® system         MCO-170UVS-PE <sup>4l</sup> standard           H <sub>2</sub> O <sub>2</sub> vapour generator         MCO-170HB-PE <sup>4l</sup> MCO-170HB-PE <sup>4l</sup> standard           H <sub>2</sub> O <sub>2</sub> vapour generator         MCO-170EL-PW <sup>4l</sup> MCO-170EL-PW<	<u> </u>		Υ			
Reversible door		qty		1		
Inner door	Outer door lock		option	option	standard	
Shelves	Reversible door			Υ		
Max. load per shelf         kg         7           Max. total load         kg         20           Max. shelf capacity         qty         10           Access port         qty         1           - position         Rear         1           - diameter         Ø mm         30           Alarms         R         Out of common stilling           Ower failure         R         Out of temperature setting           Ut of temperature setting         V-B-R         V-B-R           Out of CO2 setting         V-B-R         V-B-R           Door open         V-B         V-B           Electrical and noise level         V-B         Standard           Frequency         Hz         50           Noise level <sup>31</sup> dB         25           Options         SafeCell UV® system         MCO-170UVS-PE <sup>41</sup> standard         standard           H <sub>2</sub> O <sub>2</sub> decontamination board         MCO-170HB-PE <sup>41</sup> MCO-170HB-PE <sup>42</sup> standard           Electric door lock with password         MCO-170EL-PW <sup>41</sup> MCO-170EL-PW <sup>41</sup> standard           H <sub>2</sub> O <sub>2</sub> vapour generator         MCO-170EL-PW <sup>41</sup> MCO-170EL-PW <sup>41</sup> standard           H <sub>2</sub> O <sub>2</sub> reagent, pack of 6	Inner door		1			
Max. load per shelf         kg         7           Max. total load         kg         20           Max. shelf capacity         qty         10           Access port         qty         1           - position         Rear         -           - diameter         Ø mm         30           Alarms         R         V-B-R           Power failure         R         V-B-R           Out of temperature setting         V-B-R         V-B-R           Out of CO2 setting         V-B-R         V-B-R           Door open         V-B-R         V-B-R           Electrical and noise level         V-B         V-B           Power supply         V         230         Frequency           Prequency         Hz         50         Solve the second seco	Shelves		4			
Max. shelf capacity         qty         10           Access port         qty         1           - position         Rear         -           - diameter         Ø mm         30           Alarms         R         Out of temperature setting           Out of femperature         V-B-R           Uit of CO2 setting         V-B-R           Door open         V-B-R           Electrical and noise level         V-B           Power supply         V           Frequency         Hz           Noise level <sup>(3)</sup> dB           Options         SafeCell UV® system           MC0-170US-PE <sup>(4)</sup> standard           H2O2 decontamination board         MC0-170HB-PE <sup>(4)</sup> standard           Electric door lock with password         MC0-170EL-PW <sup>(4)</sup> standard           H2O2 vapour generator         MC0-H2O2-PE         MC0-H2O2-PE           CO2 gas pressure regulator         MC0-H2O2-PE         MC0-H2O2-PE           Automatic CO2 cylinder changeover system         MC0-210C-PW           Semi-automatic one point gas calibration kit         MC0-230ST-PW           InCu saFe® shelf         MC0-35ST-PW           Double stacking bracket *         MC0-230SB-PW	Max. load per shelf		7			
Access port qty 1 - position 8 - diameter 0 mm 30  Alarms Power failure R Out of temperature setting V-B-R Uit of CO2 setting V-B-R Out of CO2 setting V-B-R Out of CO2 setting V-B-R  Door open V-B  Electrical and noise level Power supply V 230 Frequency Hz 50 Noise level3 dB 25  Options SafeCell UV® system MC0-170UVS-PE4 Standard Standard H2-O2 decontamination board MC0-170HB-PE4 MC0-170HB-PE4 Standard Standard MC0-170HB-PE4 Standard Standard MC0-170EL-PW4 MC0-170EL-PW5 MC0-170EL-PW6 MC0	Max. total load		20			
Access port - position - Rear - diameter	Max. shelf capacity		10			
- position - diameter - diameter - diameter - diameter  Alarms  Power failure  Out of temperature setting  High temperature - U-B-R  Out of CO <sub>2</sub> setting - U-B-R  Out of CO <sub>2</sub> set index of Set in	Access port		1			
Alarms Power failure Out of temperature setting High temperature Out of CO <sub>2</sub> setting V-B-R V-B-R Out of CO <sub>2</sub> setting V-B-R Out of CO <sub>2</sub> setting V-B-R V-B-R Out of CO <sub>2</sub> setting V-B-C Out of CO <sub>2</sub> setting V-B-			Rear			
Power failure  Power failure  Out of temperature setting  High temperature  V-B-R  Ut of CO <sub>2</sub> setting  Door open  Electrical and noise level  Power supply  V  Power supply  V  Prequency  Noise level  Options  SafeCell UV® system  MC0-170UVS-PE4  H202 decontamination board  Electric door lock with password  MC0-170EL-PW4  MC0-170EL-PW4  MC0-170EL-PW4  MC0-HP-PW4  H202 reagent, pack of 6 bottles  CO <sub>2</sub> gas pressure regulator  Automatic CO <sub>2</sub> cylinder changeover system  Semi-automatic one point gas calibration kit  InCu saFe® half tray system  MC0-170PS-PW  Stacking plate *  MC0-230SB-PW  Roller base  MC0-230SB-PW  Optional communication systems SI  Ethernet interface (LAN)  MTR-L03-PW		Ø mm				
Power failure  Out of temperature setting  High temperature  Out of CO <sub>2</sub> setting  V-B-R  Out of CO <sub>2</sub> setting  V-B-R  Out of CO <sub>2</sub> setting  V-B-R  Door open  Electrical and noise level  Power supply  V  Frequency  Hz  Noise level3  Options  SafeCell UV® system  MCO-170UVS-PE4  H <sub>2</sub> Standard  MCO-170HB-PE4  MCO-170HB-PE4  Standard  Electric door lock with password  MCO-170EL-PW4  MCO-170EL-PW4  MCO-170EL-PW4  MCO-HP-PW4  H <sub>2</sub> O <sub>2</sub> vapour generator  MCO-H2O2-PE  CO <sub>2</sub> gas pressure regulator Automatic CO <sub>2</sub> cylinder changeover system  Semi-automatic one point gas calibration kit  MCO-30ST-PW InCu saFe® shelf  MCO-30ST-PW InCu saFe® half tray system  MCO-170B-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems <sup>5)</sup> Ethernet interface (LAN)  MYR-L03-PW	Alarms					
Out of temperature setting  High temperature  V-B-R  Out of CO <sub>2</sub> setting  V-B-R  Door open  V-B  Electrical and noise level  Power supply  Frequency  Noise level <sup>31</sup> Options  SafeCell UV® system  MCO-170UVS-PE <sup>4 </sup> H <sub>2</sub> O <sub>2</sub> decontamination board  Electric door lock with password  MCO-170EL-PW <sup>4 </sup> MCO-170EL-PW  MCO-230ST-PW  MCO-230ST-PW  MCO-230SB-PW  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems <sup>5 </sup> Ethernet interface (LAN)	Power failure			R		
High temperature  Out of CO2 setting  V-B-R  Out of CO2 setting  V-B-R  Door open  V-B  Electrical and noise level  Power supply  V  Soo  Noise level3  Options  SafeCell UV® system  MCO-170UVS-PE4  H2 Standard  MCO-170HB-PE4  MCO-170HB-PE4  Standard  MCO-170HB-PE4  Standard  MCO-170EL-PW4  MCO-100L-PW4  MCO-100L-PW5  MCO-100L-PW5  MCO-100L-PW5  MCO-100L-PW5  MCO-230ST-PW6  MCO-230ST-PW6  MCO-230ST-PW6  MCO-230ST-PW6  MCO-230SB-PW6  MCO-230SB-PW6  MCO-230RB-PW6  MCO-2						
Out of CO2 setting  Door open  Electrical and noise level  Power supply  V  Frequency  Hz  So  Noise level³  Options  SafeCell UV® system  MCO-170UVS-PE⁴  H2O2 decontamination board  Electric door lock with password  H2O2 vapour generator  H2O2 vapour generator  MCO-HP-PW⁴  H2O2 reagent, pack of 6 bottles  CO2 gas pressure regulator  Automatic CO2 cylinder changeover system  Semi-automatic one point gas calibration kit  InCu saFe® half tray system  MCO-170ELPW  NCO-170B-PE⁴  MCO-170EL-PW  MCO-170E-PW  MCO-170E-PW  MCO-170B-PE  MCO-170B-PE  MCO-170B-PE  MCO-170B-PE  MCO-170B-PE  MCO-170B-PE  MCO-170B-PW  Semi-automatic one point gas calibration kit  MCO-230ST-PW  Double stacking bracket *  MCO-170PS-PW  Stacking plate *  MCO-230RB-PW  NCO-230RB-PW  Optional communication systems⁵   Ethernet interface (LAN)  MTR-L03-PW						
Door open   V-B						
Power supply   V   230						
Power supply  Frequency  Hz  S0  Noise level3  Options  SafeCell UV® system  MC0-170UVS-PE4   H2  Standard  MC0-170HB-PE4   MC0-170HB-PE4   MC0-170HB-PE4   Standard  MC0-170EL-PW4   MC0-170EL-PW4   MC0-H70EL-PW4   MC0-H70E			V-Ω			
Frequency  Noise level³  Options  SafeCell UV® system  MCO-170UVS-PE⁴  Lectric door lock with password  MCO-170EL-PW⁴  MCO-HP-PW⁴  MCO-HP-PW⁴  MCO-100L-PW  Automatic CO₂ cylinder changeover system  MCO-21GC-PW  Semi-automatic one point gas calibration kit  MCO-30ST-PW  InCu saFe® half tray system  MCO-3SST-PW  Double stacking bracket *  MCO-170PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems⁵  Ethernet interface (LAN)  MTR-L03-PW		V		230		
Noise level3)  Options  SafeCell UV® system  MCO-170UVS-PE4   Standard  MCO-170HB-PE4   MCO-170HB-PE4   MCO-170HB-PE4   MCO-170EL-PW4   Standard  Standard  MCO-170HB-PE4   MCO-170EL-PW4   Standard  MCO-170EL-PW4   Standard  MCO-170EL-PW4   MCO-170EL-PW4   MCO-170EL-PW4   Standard  MCO-HP-PW4   MCO-HP-PW4   MCO-HP-PW4   MCO-HP-Q2-PE  CO2 gas pressure regulator  MCO-100L-PW  Automatic CO2 cylinder changeover system  MCO-21GC-PW  Semi-automatic one point gas calibration kit  MCO-SG-PW  InCu saFe® shelf  MCO-35ST-PW  Double stacking bracket *  MCO-170PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems5   Ethernet interface (LAN)  MTR-L03-PW						
Options         SafeCell UV® system       MCO-170UVS-PE <sup>Δ</sup>   standard       standard         H₂O₂ decontamination board       MCO-170HB-PE <sup>Δ</sup>   MCO-170HB-PE <sup>Δ</sup>   standard         Electric door lock with password       MCO-170EL-PW <sup>Δ</sup>   MCO-170EL-PW <sup>Δ</sup>   standard         H₂O₂ vapour generator       MCO-HP-PW <sup>Δ</sup>           H₂O₂ reagent, pack of 6 bottles       MCO-HP-PW <sup>Δ</sup>           CO₂ gas pressure regulator       MCO-100L-PW         Automatic CO₂ cylinder changeover system       MCO-216C-PW         Semi-automatic one point gas calibration kit       MCO-230ST-PW         InCu saFe® shelf       MCO-230ST-PW         InCu saFe® half tray system       MCO-35ST-PW         Double stacking bracket *       MCO-170PS-PW         Stacking plate *       MCO-230SB-PW         Roller base       MCO-230RB-PW         Optional communication systems 5I       MTR-L03-PW						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		uD.		20		
H <sub>2</sub> O <sub>2</sub> decontamination board  MCO-170HB-PE <sup>4</sup> MCO-170HB-PE <sup>4</sup> Standard  Electric door lock with password  MCO-170EL-PW <sup>4</sup> MCO-170EL-PW <sup>4</sup> MCO-170EL-PW <sup>4</sup> MCO-HP-PW <sup>4</sup> H <sub>2</sub> O <sub>2</sub> vapour generator  MCO-HP-PW <sup>4</sup> H <sub>2</sub> O <sub>2</sub> reagent, pack of 6 bottles  MCO-H2O2-PE  CO <sub>2</sub> gas pressure regulator  MCO-100L-PW  Automatic CO <sub>2</sub> cylinder changeover system  MCO-210E-PW  Semi-automatic one point gas calibration kit  MCO-5G-PW  InCu saFe® shelf  MCO-30ST-PW  InCu saFe® half tray system  MCO-35ST-PW  Double stacking bracket *  MCO-170PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems <sup>5)</sup> Ethernet interface (LAN)  MTR-L03-PW			MC0-1701 IVS-PF4)	standard	standard	
Electric door lock with password  MC0-170EL-PW <sup>4</sup> MC0-170EL-PW <sup>4</sup> MC0-HP-PW <sup>4</sup> H <sub>2</sub> O <sub>2</sub> vapour generator  MC0-HP-PW <sup>4</sup> H <sub>2</sub> O <sub>2</sub> reagent, pack of 6 bottles  MC0-H2O2-PE  CO <sub>2</sub> gas pressure regulator  Automatic CO <sub>2</sub> cylinder changeover system  MC0-21GC-PW  Semi-automatic one point gas calibration kit  MC0-SG-PW  InCu saFe® shelf  MC0-35ST-PW  InCu saFe® half tray system  MC0-35ST-PW  Double stacking bracket *  MC0-170PS-PW  Stacking plate *  MC0-230SB-PW  Roller base  MC0-230RB-PW  Optional communication systems  Ethernet interface (LAN)  MTR-L03-PW						
H <sub>2</sub> O <sub>2</sub> vapour generator  H <sub>2</sub> O <sub>2</sub> reagent, pack of 6 bottles  MCO-H2O2-PE  CO <sub>2</sub> gas pressure regulator  Automatic CO <sub>2</sub> cylinder changeover system  MCO-21GC-PW  Semi-automatic one point gas calibration kit  MCO-230ST-PW  InCu saFe® shelf  MCO-35ST-PW  InCu saFe® half tray system  MCO-170PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems  MTR-L03-PW						
H <sub>2</sub> O <sub>2</sub> reagent, pack of 6 bottles  CO <sub>2</sub> gas pressure regulator  Automatic CO <sub>2</sub> cylinder changeover system  MCO-21GC-PW  Semi-automatic one point gas calibration kit  MCO-56-PW  InCu saFe® shelf  InCu saFe® half tray system  MCO-35ST-PW  Double stacking bracket *  MCO-70PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems  MCO-230RB-PW  Optional communication systems  MCO-230RB-PW			MIOO-170LL-1.W		Statitual u	
CO <sub>2</sub> gas pressure regulator  Automatic CO <sub>2</sub> cylinder changeover system  MCO-21GC-PW  Semi-automatic one point gas calibration kit  MCO-230ST-PW  InCu saFe® shelf  MCO-230ST-PW  InCu saFe® half tray system  MCO-35ST-PW  Double stacking bracket *  MCO-170PS-PW  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230RB-PW  Optional communication systems <sup>5)</sup> Ethernet interface (LAN)  MTR-L03-PW	2 2 1 3					
Automatic CO2 cylinder changeover system  Semi-automatic one point gas calibration kit  InCu saFe® shelf  InCu saFe® half tray system  Double stacking bracket *  Stacking plate *  Roller base  Optional communication systems  Ethernet interface (LAN)  MCO-21GC-PW  MCO-23GS-PW  MCO-230ST-PW  MCO-35ST-PW  MCO-35ST-PW  MCO-23OSB-PW  MCO-23OSB-PW  MCO-23OSB-PW  MCO-23ORB-PW  MTR-L03-PW						
Semi-automatic one point gas calibration kit  InCu saFe® shelf  MCO-230ST-PW  InCu saFe® half tray system  Double stacking bracket *  Stacking plate *  MCO-230SB-PW  Roller base  MCO-230SB-PW						
InCu saFe® shelf MCO-230ST-PW InCu saFe® half tray system MCO-35ST-PW Double stacking bracket * MCO-170PS-PW Stacking plate * MCO-230SB-PW Roller base MCO-230RB-PW Optional communication systems <sup>51</sup> Ethernet interface (LAN) MTR-L03-PW						
InCu saFe® half tray system  Double stacking bracket *  Stacking plate *  Roller base  Optional communication systems <sup>5</sup> Ethernet interface (LAN)  MCO-35ST-PW  MCO-170PS-PW  MCO-230SB-PW  MCO-230RB-PW  MCO-230RB-PW  MTR-L03-PW						
Double stacking bracket * MCO-170PS-PW Stacking plate * MCO-230SB-PW Roller base MCO-230RB-PW Optional communication systems <sup>5)</sup> Ethernet interface (LAN) MTR-L03-PW						
Stacking plate * MCO-230SB-PW Roller base MCO-230RB-PW  Optional communication systems 51 Ethernet interface (LAN) MTR-L03-PW						
Roller base MCO-230RB-PW  Optional communication systems <sup>5)</sup> Ethernet interface (LAN) MTR-L03-PW						
Optional communication systems 51 Ethernet interface (LAN) MTR-L03-PW	- · · · · · · · · · · · · · · · · · · ·					
Ethernet interface (LAN) MTR-L03-PW				MCO-230RB-PW		
Digital interface [RS232C/RS485] MTR-480-PW						
	Digital interface [RS232C/RS485]		MTR-480-PW			

- and other external projections
   See dimensions drawings on website for full details
- 3) Nominal value

- <sup>4)</sup> MCO-230AIC series requires MCO-170HB-PE, MCO-170EL-PW, MCO-HP-PW and SafeCell UV option for H<sub>2</sub>O<sub>2</sub> decontamination
- 5) MCO-230AIC series can only be fitted with one communications interface
- $^{st}$  If stacking two incubators, make sure the double-stacking dedicated securing hardware and spacer are used. (please see double stacking table)

**Panasonic** 

for more information: