

### 1 CO<sub>2</sub> Incubators CellCulture®

The CellCulture® CO<sub>2</sub> incubators from Esco are widely used in scientific research to grow and maintain cell cultures. Typical fields of application include tissue engineering, neuroscience, cancer research and other mammalian cell research applications.

ESCO



- Fast and uniform temperature, CO<sub>2</sub> and O<sub>2</sub> control (O<sub>2</sub> suppressed models)
- HEPA filtration system with internal blower (some models)
- Capacitive humidity sensor
- IR CO<sub>2</sub>-sensor with automatic auto zero
- Quick recovery time for temperature, CO<sub>2</sub> and humidity after door opening
- Stainless steel 1.4301 (AISI 304) or copper interior
- 90 °C moist heat decon system (models with air jacket)
- Easy to clean due to removable lids and inner door
- Serial RS485 communication port
- Low maintenance
- Stackable

**Options on request:**

Additional shelves, stacking kits, rollerbase, chart recorder

### CO<sub>2</sub> Incubators CelCulture® with High Heat Sterilization NEW

ESCO

Incubator with 180 °C high heat sterilization cycle, for efficient contamination protection. Conforms to the international standards for dry heat sterilization.

- Stainless steel chamber
- Heat-resistant sensors
- IR CO<sub>2</sub> sensor
- O<sub>2</sub> Sensor (for suppressed O<sub>2</sub> model)
- 2 MB built-in flash memory for data and event logging

Type	Nom. capacity	Max. grids	Included grids	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	PK	Cat. No.
	L						
With ULPA Filter	170	7	4	505 x 535 x 633	660 x 660 x 905	1	4.678 084
With ULPA Filter	240	7	4	595 x 640 x 633	750 x 770 x 905	1	4.678 085
With ULPA Filter, O <sub>2</sub> suppressed	170	7	4	505 x 535 x 633	660 x 660 x 905	1	4.678 086
With ULPA Filter, O <sub>2</sub> suppressed	240	7	4	595 x 640 x 633	750 x 770 x 905	1	4.678 087
Without ULPA Filter	170	7	4	505 x 535 x 633	660 x 660 x 905	1	4.678 088
Without ULPA Filter	240	7	4	595 x 640 x 633	750 x 770 x 905	1	4.678 089
Without ULPA Filter, O <sub>2</sub> suppressed	170	7	4	505 x 535 x 633	660 x 660 x 905	1	4.678 090
Without ULPA Filter, O <sub>2</sub> suppressed	240	7	4	595 x 640 x 633	750 x 770 x 905	1	4.678 091

### 2 3 CO<sub>2</sub> incubator Heracell™ VIOS™ 160i with Cell Locker™ system NEW

Thermo Scientific

The CO<sub>2</sub> incubator with the Cell Locker™ system is designed for improved culturing efficiency and security for sensitive cultures. Six individual, autoclavable polycarbonate chambers divide the incubator chamber. Each Cell Locker™ chamber has dual 0.2 µm membrane filters, that permit air circulation but exclude microbial contaminants. When the Cell Locker™ chamber is opened, the temperature, CO<sub>2</sub> concentration and humidity in the unopened Cell Locker™ chambers remain stable.

- Provides security from cross contamination due to culture isolation in separate chambers
- Interior made of electropolished stainless steel or pure copper
- ISO class 5 HEPA filtered air
- Steri-Run overnight 180 °C sterilisation cycle achieves total sterilization (12 log SAL)
- iCAN Touchscreen with LED display
- Temperature resistant IR CO<sub>2</sub> sensor
- THRIVE technology for optimal air circulation



**Specifications**

Volume: 165 l  
 Dimensions, external (W x H x D): 637 x 880 x 900 mm  
 Dimensions, internal (W x H x D): 470 x 576 x 607 mm  
 Weight: 83 kg  
 Power supply: 230 V, 50/60 Hz

Type	PK	Cat. No.
Copper interior	1	6.312 578
Stainless steel interior	1	6.312 579



## Heating/CO<sub>2</sub>-Incubators

1



### 1 Cell Locker™ chambers for CO<sub>2</sub> incubator Heracell™ VIOS™ 160i

**NEW**

Thermo Scientific

Transparent. Each Cell Locker™ holds 9 each T-75 cell culture flasks, 20 each 6-well plates, or 24 each 96-well plates. The Cell Locker™ can be manually disinfected or can be autoclaved a maximum of 12 times.

- Tapered box for easy installation into incubator
- Easy and secure one handed latch and pull
- Non-slick sliding tray with tip protection
- Removable cover for protected transport
- Membrane filter (0.2 µm)

Description	PK	Cat. No.
Package of 6 Cell Locker™ with copper sliding tray	6	<b>6.312 571</b>
Package of 6 Cell Locker™ with stainless steel sliding tray	6	<b>6.312 573</b>

2



### 2 CO<sub>2</sub> Incubators IComed

Memmert

The CO<sub>2</sub> incubator IComed is the perfect solution: Thanks to the battery-buffered ControlCOCKPIT, the operating display, logging and CO<sub>2</sub> control remain fully functional even when there is a power failure. All parameters are logged in accordance with the FDA and, when individually adjusted ranges for CO<sub>2</sub>, O<sub>2</sub>, temperature and humidity are exceeded, notifications can be sent to a mobile phone in addition to an alarm. With its rounded corners, the interior is easy to clean and can be sterilised for 60 minutes at 180 °C (including all sensors). The active humidity control offers optimal protection for cell and tissue cultures. It minimizes evaporation in the interior and ensures short recovery times. Every Memmert CO<sub>2</sub> incubator IComed is a medical device of class IIa according to MDD 93/42/EEC until 26 May 2024 according to the transitional provisions by the (EU) 2017/745 article 120 (2).

- fully insulated stainless steel door and heated inner glass door

#### Model variant TwinDISPLAY: ControlCOCKPIT with two colour displays

You can find a detailed description of the "TwinDISPLAY" model at [www.memmert.com](http://www.memmert.com)

#### Specifications

Working temperature range:	at least 5 above ambient up to +50 °C (standard sterilisation programme: 60 minutes at 180 °C)
Setting temperature range:	+18 °C up to +50 °C
Setting accuracy temperature:	0.1 °C
Humidity limitation thanks to a Peltier element:	when water dish is full and inserted, the Peltier element limits the value of relative humidity in the interior to 93 % rh ±2.5 %
Setting range active humidity control:	40 to 97 % rh and rh-Off
Setting accuracy humidity:	0.5 % rh
CO <sub>2</sub> -concentration:	0 to 20 %
O <sub>2</sub> -concentration:	1 to 20 %
Setting accuracy CO <sub>2</sub> :	0.1 %
Setting accuracy O <sub>2</sub> :	0.1 %
Power supply:	230 V, 50/60 Hz

Type	Nom. capacity	Max. shelves	Included shelves	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Rated capacity kW	Net weight kg	PK	Cat. No.
	L								
ICO50med	56	5	1	400 x 330* x 425	559 x 521** x 795	1.10	55	1	<b>6.283 118</b>
ICO105med	107	6	2	560 x 400* x 480	719 x 591** x 850	1.30	75	1	<b>6.283 119</b>
ICO150med	156	10	2	560 x 400* x 700	719 x 591** x 1070	1.50	90	1	<b>6.283 120</b>
ICO240med	241	12	2	600 x 500* x 810	759 x 691** x 1180	1.65	110	1	<b>6.283 121</b>

\* Less 35 mm for fan

\*\*Depth without door handle, depth of door handle 56 mm

**Suitable accessories can be found in our online shop.**

3



### 3 Cell Culture Flasks EasyFlask™/TripleFlask™, non-treated, PS/HDPE, pyrogen-free

Thermo Scientific

Non-treated, sterile flasks for suspension cell cultures. White caps for easy identification. Pyrogen-free.  
Material flasks: Polystyrene  
Material caps: HDPE

Type	Working volume ml	Culture surface cm <sup>2</sup>	Neck	PK	Cat. No.
EasyFlask™	7	25	curved	200	<b>6.702 724</b>
EasyFlask™	30	75	curved	100	<b>6.222 672</b>
EasyFlask™	55	175	curved	30	<b>7.900 288</b>
TripleFlask™	200	500	straight	32	<b>7.900 289</b>

For our Cell Culture range - please see page 1331.

### 1 CO<sub>2</sub> incubators, CB series with sterilizable sensor

Suitable for all incubation tasks, even for complex experiments under hypoxic conditions. Models with additional O<sub>2</sub> control, **active humidification** and split interior doors are available. With intuitive touchscreen controller, DuoDoor™ system for simultaneous opening of outer and inner door as well as lockable door handle. CO<sub>2</sub> autodiagnostic system to protect cell cultures.

BINDER



- Unit and CO<sub>2</sub> sensor can be sterilized with hot air at 180 °C
- Double-pan humidification system with condensation protection
- Seamless inner compartment made of stainless steel
- Measured values can be read out via USB and Ethernet interface
- Sealing inner door made of safety glass
- Stackable with adapter
- Fault diagnosis system with optical and acoustic alarm
- Internal data recording, can be read out via USB
- Ethernet interface

Type G: with divided inner door

Type F (CB170): with active humidification

Type O: with O<sub>2</sub> control

#### Specifications

Working temperature range: RT + 7 °C ... 60 °C  
 CO<sub>2</sub> range: 0 ... 20 %  
 Humidity range: 90 ... 95 %  
 Power supply: 200 ... 240 V, 50/60 Hz

Type	Nom. capacity L	Max. grids	Included grids	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	Rated capacity kW	PK	Cat. No.
CB060-230V	53	3	2	400 x 330 x 400	580 x 545 x 720	1.0	1	9.883 726
CB060-230V-O	53	3	2	400 x 330 x 400	580 x 545 x 720	1.0	1	9.883 738
CB060-230V-G*	53	2	2	400 x 330 x 400	580 x 550 x 720	1.0	1	9.883 732
CB060-230V-GO*	53	2	2	400 x 330 x 400	580 x 550 x 720	1.0	1	9.883 744
CB170-230V	170	6	3	560 x 505 x 600	680 x 715 x 870	1.4	1	6.274 262
CB170-230V-O	170	6	3	560 x 505 x 600	680 x 715 x 870	1.4	1	4.663 953
CB170-230V-F	170	6	3	560 x 505 x 600	680 x 715 x 870	1.4	1	6.312 166
CB170-230V-OF	170	6	3	560 x 505 x 600	680 x 715 x 870	1.4	1	6.312 167
CB260-230V	267	8	3	620 x 575 x 750	740 x 785 x 1020	1.5	1	4.678 809
CB260-230V-O	267	8	3	620 x 575 x 750	740 x 785 x 1020	1.5	1	4.678 810
CB260-230V-F	267	8	3	620 x 575 x 750	740 x 785 x 1020	1.5	1	4.678 811
CB260-230V-OF	267	8	3	620 x 575 x 750	740 x 785 x 1020	1.5	1	4.678 812

\*with four-part inner door

Further models can be found in our online shop.

### 2 Cell and Tissue Culture Dishes, treated, PS, sterile



Dishes with treated surface, suitable for adhesion cells.

- Easy and secure stacking
- Sterilized by gamma irradiation
- Pyrogen-free



Diam. mm	Height mm	Culture surface cm <sup>2</sup>	PK	Cat. No.
18	12	12.0	300	4.672 542
33	13	8.5	960	4.672 543
52	18	21.2	600	4.672 544
55	14	3.3	600	4.672 545
68	15	36.3	600	4.672 546
85	17	55.0	500	4.672 547
88	22	60.8	300	4.672 548
136	22	143.0	120	4.672 549
136	22	143.0	100	4.672 550