# BIO BARRIER

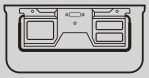
Aseltech Bio-Barrier model sterilization container systems are designed with mechanical valves both in bottom and lid which run in a way that they do not need any disposable filter use and can be used minimum 5000 cycles. The mechanical valve systems set on the lid or box run with atmospheric pressure occurring in the autoclave during sterilization. When the sterilization process starts, because of the occurring (+) pressure, the valves open and let the steam penetration into the sterilization container. When the vacuum process starts at the end of the sterilization, because of the occurring (-) pressure, the steam outlet valve opens and the steam exhausts from the box. When the sterilization process is completed, as there is no pressure (+ or -) in autoclave, both valves are in closed position. By this way, it gains qualification to keep the products in it as sterilized. The valves are ensured to be closed %100 due to the special silicone gaskets on mechanical valve systems. Moreover, the mechanical valve system these sterilization containers is demountable by the user in order to control it when desired.

Aseltech Bio-Barrier model sterilization container systems are manufactured as five different lengths, width and height and can be supplied with safety lids for effective external protection. These safety lids do not interfere with sterilization and they provide protection to the valve mechanism against liquids and dust as a second lid. All models and sizes have specific baskets and accessories which can be viewed in following parts. Modular auto lock mechanism (thermo-lock) promising sterility assurance and indicator window providing visibility of the indicator card result by visual control without opening the lid are also available for this sterilization container model.

## Box Types



Box *(With Barrier)*



Box *(Non Perforated)*



## Standard Heights

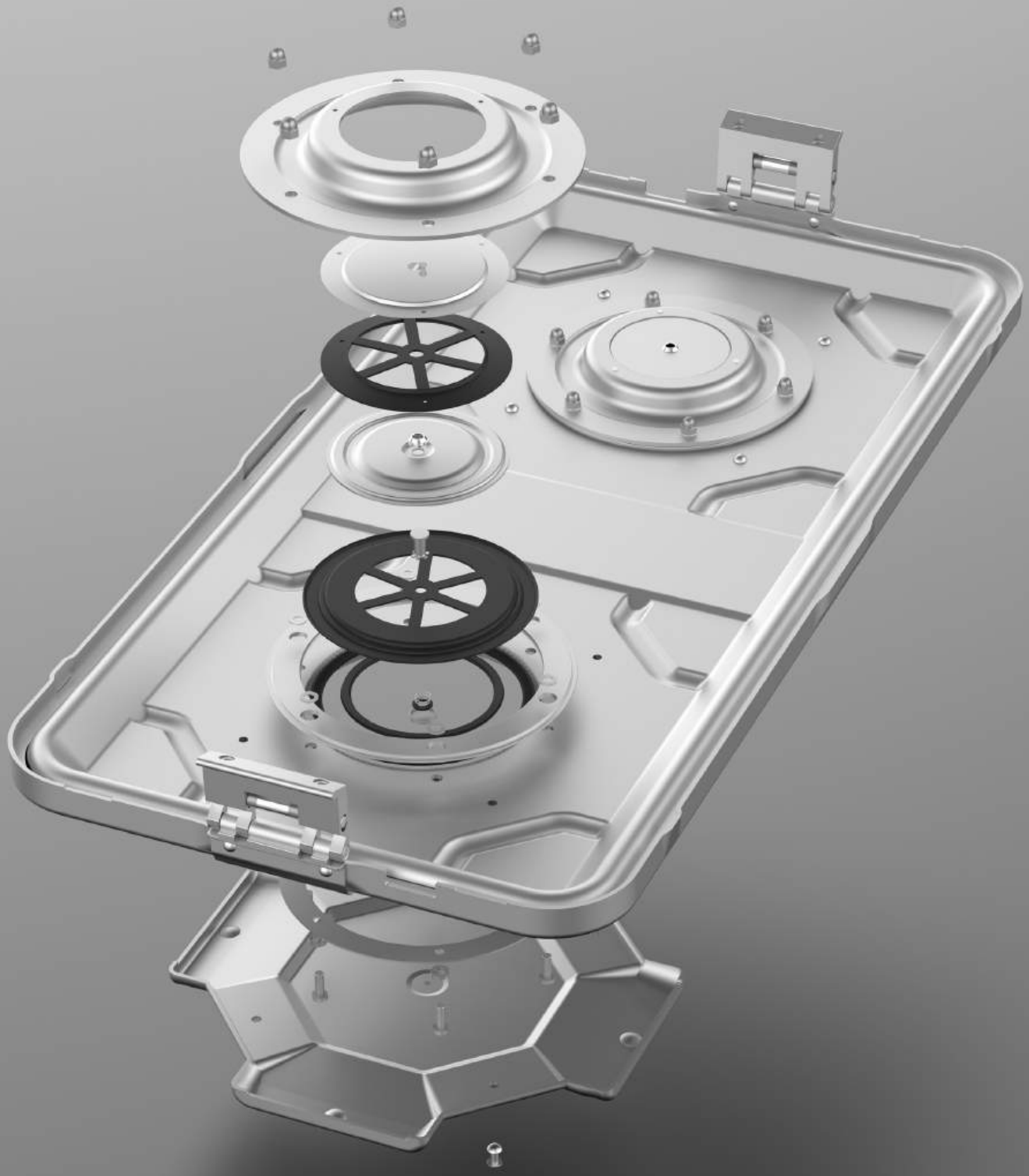


110 mm | 135 mm | 150 mm | 200 mm | 260 mm

## Dimensions

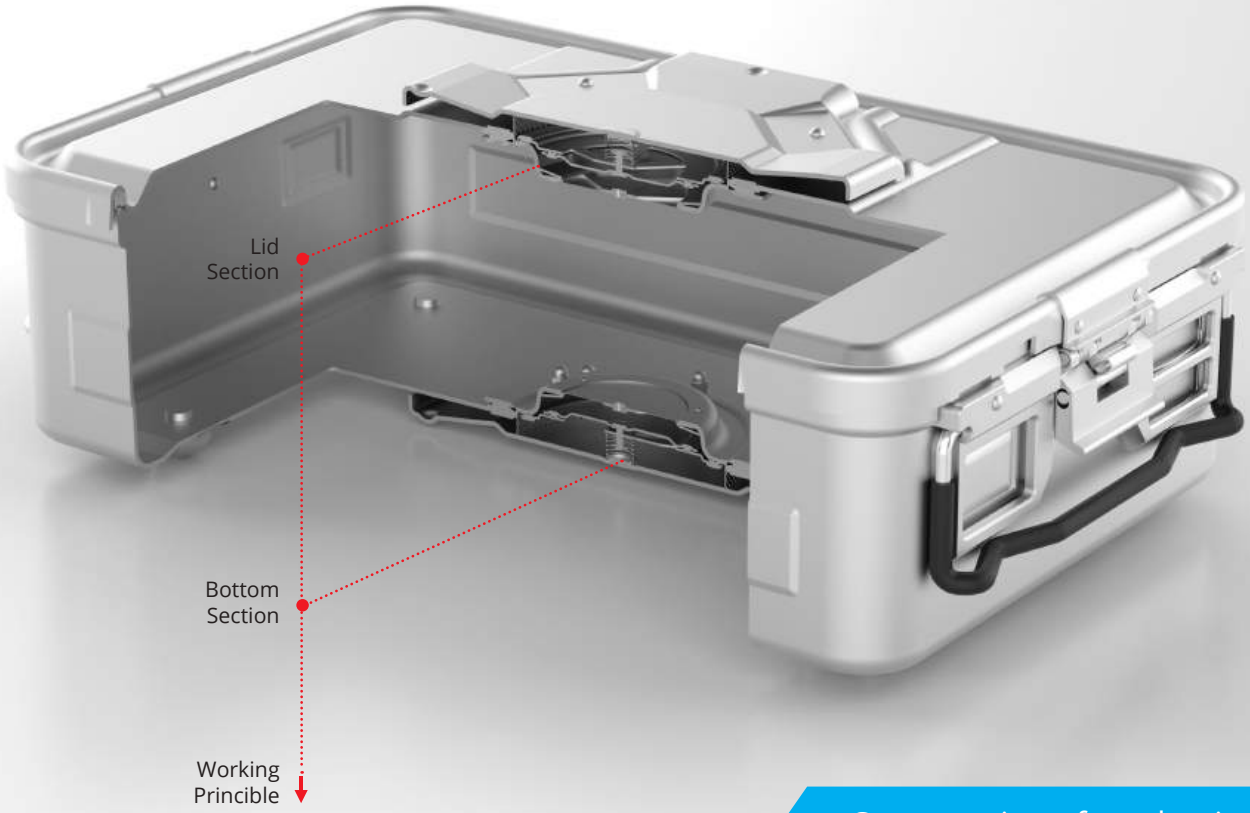


| 1/2 Half Size | 3/4 Quarter Size | 1/1 Full Size | Extra Large Size | Extra Long Size |
|---|---|---|---|---|
| Page 50 -51 | Page 48 -49 | Page 46 -47 | Page 52 -53 | Page 54 -55 |

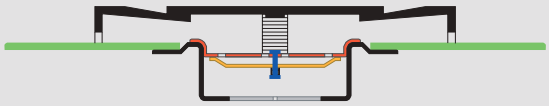


# Barrier Mechanism Parts

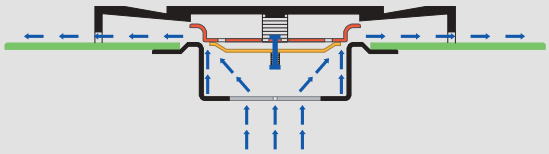
Barrier model containers are composed of a “mechanical filtering system”. The valves inside this filtering system have three different positions during the sterilization cycle which are called relax position, pre-sterilization and post-sterilization. It can be used at least 5000 cycles.



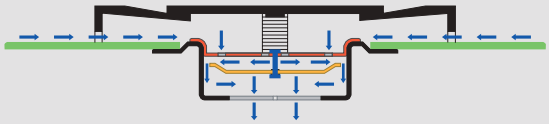

## Cross section of mechanism & Working Princibles



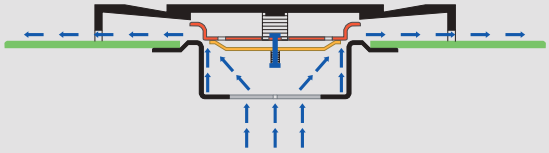
Before sterilization cycle the valves of the Barrier Model Container are closed and in relax position.



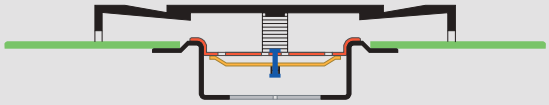
At the beginning of the sterilization cycle, by the effect of vacuum the valves are opened completely and dry air goes out of the container.



During the sterilization cycle the valves are opened with effect of pressure in the reverse way totally opposite of the way moved by the effect of vacuum.



At the end of the sterilization cycle the autoclave (sterilizer) equates the pressure level and the valves opened the way by effect of vacuum.



After sterilization cycle the valves of the Barrier Model Container are closed and in relax position.

# BIO BARRIER

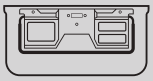
## 1/1 Full Size



## Box Types

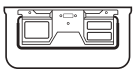


Box *(With Barrier)*



Box *(Non Perforated)*

Box *(Non Perforated)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-6105 | 600 x 272 x 96 mm | 543 x 258 x 90 mm | 1945 g |
| CN-6106 | 600 x 272 h:116 mm | 543 x 258 x 110 mm | 2100 g |
| CN-6107 | 600 x 272 h:138 mm | 543 x 258 x 132 mm | 2255 g |
| CN-6108 | 600 x 272 h:190 mm | 543 x 258 x 184 mm | 2655 g |
| CN-6109 | 600 x 272 h:235 mm | 543 x 258 x 229 mm | 3100 g |

Box *(With Barrier)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-7100 | 600 x 272 x 108 mm | 543 x 258 x 60 mm | 2640 g |
| CN-7101 | 600 x 272 h:128 mm | 543 x 258 x 76 mm | 2840 g |
| CN-7102 | 600 x 272 h:150 mm | 543 x 258 x 98 mm | 2940 g |
| CN-7103 | 600 x 272 h:197 mm | 543 x 258 x 150 mm | 3390 g |
| CN-7104 | 600 x 272 h:247 mm | 543 x 258 x 195 mm | 3780 g |




Barrier System Lids

| Dimension | Weight |
|---|---|
| 585 x 285 mm | 1840 g |



| Color | Code |
|---|---|
| Grey | CN-7120 |
| Yellow | CN-7121 |
| Green | CN-7122 |
| Blue | CN-7123 |
| Red | CN-7124 |
| Black | CN-7125 |
| Purple | CN-7126 |
| Bronze | CN-7127 |

Safety Lids

| Dimension | Weight |
|---|---|
| 606 x 288 mm | 1200 g |



| Color | Code |
|---|---|
| Grey | CN-7400 |
| Yellow | CN-7401 |
| Green | CN-7402 |
| Blue | CN-7403 |
| Red | CN-7404 |
| Black | CN-7405 |
| Purple | CN-7418 |
| Bronze | CN-7419 |

# BIO BARRIER

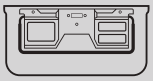
## 3/4 Quarter Size



## Box Types

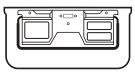


Box *(With Barrier)*



Box *(Non Perforated)*

Box *(Non Perforated)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-6305 | 475 x 272 x 96 mm | 422 x 258 x 90 mm | 1670 g |
| CN-6306 | 475 x 272 x 116 mm | 422 x 258 x 110 mm | 1760 g |
| CN-6307 | 475 x 272 x 138 mm | 422 x 258 x 132 mm | 1895 g |
| CN-6308 | 475 x 272 x 185 mm | 422 x 258 x 179 mm | 2350 g |

Box *(With Barrier)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-7300 | 475 x 272 x 108 mm | 422 x 258 x 60 mm | 2020 g |
| CN-7301 | 475 x 272 x 128 mm | 422 x 258 x 76 mm | 2130 g |
| CN-7302 | 475 x 272 x 150 mm | 422 x 258 x 98 mm | 2260 g |
| CN-7303 | 475 x 272 x 197 mm | 422 x 258 x 145 mm | 2530 g |




Barrier System Lids

| Dimension | Weight |
|---|---|
| 460 x 285 mm | 1250 g |



| Color | Code |
|---|---|
| Grey | CN-7340 |
| Yellow | CN-7341 |
| Green | CN-7342 |
| Blue | CN-7343 |
| Red | CN-7344 |
| Black | CN-7345 |
| Purple | CN-7346 |
| Bronze | CN-7347 |

Safety Lids

| Dimension | Weight |
|---|---|
| 483 x 290 mm | 1000 g |



| Color | Code |
|---|---|
| Grey | CN-7406 |
| Yellow | CN-7407 |
| Green | CN-7408 |
| Blue | CN-7409 |
| Red | CN-7410 |
| Black | CN-7411 |
| Purple | CN-7420 |
| Bronze | CN-7421 |

# BIO BARRIER

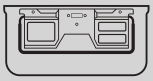
## 1/2 Half Size



## Box Types

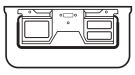


Box *(With Barrier)*



Box *(Non Perforated)*

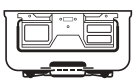
Box *(Non Perforated)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-6605 | 310 x 272 x 96 mm | 253 x 258 x 90 mm | 1285 g |
| CN-6606 | 310 x 272 x 116 mm | 253 x 258 x 110 mm | 1345 g |
| CN-6607 | 310 x 272 x 138 mm | 253 x 258 x 132 mm | 1455 g |
| CN-6608 | 310 x 272 x 190 mm | 253 x 258 x 184 mm | 1705 g |
| CN-6609 | 310 x 272 x 235 mm | 253 x 258 x 229 mm | 1955 g |

Box *(With Barrier)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-7600 | 310 x 272 x 108 mm | 253 x 258 x 60 mm | 1710 g |
| CN-7601 | 310 x 272 x 128 mm | 253 x 258 x 76 mm | 1770 g |
| CN-7602 | 310 x 272 x 150 mm | 253 x 258 x 98 mm | 1880 g |
| CN-7603 | 310 x 272 x 197 mm | 253 x 258 x 150 mm | 2130 g |
| CN-7604 | 310 x 272 x 247 mm | 253 x 258 x 195 mm | 2380 g |




Barrier System Lids

| Dimension | Weight |
|---|---|
| 295 x 280 mm | 980 g |



| Color | Code |
|---|---|
| Grey | CN-7630 |
| Yellow | CN-7631 |
| Green | CN-7632 |
| Blue | CN-7633 |
| Red | CN-7634 |
| Black | CN-7635 |
| Purple | CN-7636 |
| Bronze | CN-7637 |

Safety Lids

| Dimension | Weight |
|---|---|
| 317 x 285 mm | 700 g |



| Color | Code |
|---|---|
| Grey | CN-7412 |
| Yellow | CN-7413 |
| Green | CN-7414 |
| Blue | CN-7415 |
| Red | CN-7416 |
| Black | CN-7417 |
| Purple | CN-7422 |
| Bronze | CN-7423 |

# BIO BARRIER

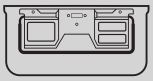
## Extra Large Size



## Box Types

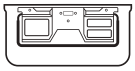


Box *(With Barrier)*



Box *(Non Perforated)*

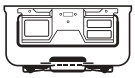
Box *(Non Perforated)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-6402 | 600 x 365 x 105 mm | 543 x 350 x 99 mm | 2365 g |
| CN-6403 | 600 x 365 x 167 mm | 543 x 350 x 161 mm | 2890 g |

Box *(With Barrier)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-7700 | 600 x 365 x 117 mm | 543 x 350 x 65 mm | 3045 g |
| CN-7701 | 600 x 365 x 179 mm | 543 x 350 x 127 mm | 3570 g |






Barrier System Lids

| Dimension | Weight |
|---|---|
| 583 x 370 mm | 2055 g |



| Color | Code |
|---|---|
| Grey | CN-7326 |
| Yellow | CN-7327 |
| Green | CN-7328 |
| Blue | CN-7329 |
| Red | CN-7330 |
| Black | CN-7331 |
| Purple | CN-7315 |
| Bronze | CN-7316 |

# BIO BARRIER

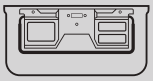
## Extra Long Size



## Box Types

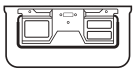


Box *(With Barrier)*



Box *(Non Perforated)*

Box *(Non Perforated)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-62005 | 725 x 275 x 127 mm | 670 x 260 x 121 mm | 2446 g |
| CN-62007 | 725 x 275 x 134 mm | 670 x 260 x 128 mm | 2503 g |
| CN-62006 | 725 x 275 x 191 mm | 670 x 260 x 185 mm | 2974 g |

Box *(With Barrier)*





| Code | Outside Dimension | Inside Dimension | Weight |
|---|---|---|---|
| CN-72000 | 725 x 275 x 138 mm | 670 x 260 x 104 mm | 3150 g |
| CN-72002 | 725 x 275 x 145 mm | 670 x 260 x 111 mm | 3282 g |
| CN-72001 | 725 x 275 x 203 mm | 670 x 260 x 170 mm | 3660 g |






Barrier System Lids

| Dimension | Weight |
|---|---|
| 710 x 285 mm | 2000 g |



| Color | Code |
|---|---|
| Grey | CN-72120 |
| Yellow | CN-72121 |
| Green | CN-72122 |
| Blue | CN-72123 |
| Red | CN-72124 |
| Black | CN-72125 |
| Purple | CN-72126 |
| Bronze | CN-72127 |