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For decades, bioresearch facilities have relied on negative air pressure containment to secure and handle the world’s most dangerous biological agents. The same principle extends to our exhaust ventilation technology, which uses negative pressure from the animal room exhaust system to draw and filter room air through cages and racks in a one-pass flow pattern, providing superior air quality and complete bioisolation between the cages and surrounding room. This technology eliminates airborne contaminants, including allergens, waste gases, and thermal loads at the cage level. Our caging systems improve and control air quality for animals, personnel, and the environment.

1. Fresh or HEPA-filtered air, represented in blue, is supplied by the building’s HVAC system to the animal room.

2. Because the racks are connected to the negatively pressurized exhaust system, this fresh air (blue arrows) is drawn into cages through their inlet filters at the appropriate flow rate to maintain the cage at the same temperature and relative humidity as the room.
How it Works

3. The air then leaves each cage through its rear exhaust filter and passes into the rack’s central plenum. Red arrows indicate the various points at which air is drawn into the exhaust system, whether through the animal racks or from the room directly.

4. The building’s exhaust system then evacuates this air, represented in yellow, and it is processed and released to the outside.

Because the rack is ventilated by exhaust only, the cages are held at a negative pressure relative to the room, and the central plenum of the rotating carousel is negative relative to the cages. This completely eliminates the possibility of material traveling backward through the air path — a raft never drifts upstream against a river current. This constant but modest negative pressure facilitates a controlled, low-velocity, one-pass airflow pattern free from turbulence and excessive dry-air turnover.

In addition, all Animal Care Systems caging systems achieve a total volume air change within each cage, which results in exceptional air quality for the animals and a highly stable microenvironment.
Optimice®

Highest Cage Density in the Industry

Based on the patented direct exhaust ventilation technology used in the original M.I.C.E. system, Optimice boasts the highest cage density in the industry, optimizing the density-value equation.

Optimice can be positioned against a wall or next to another rack. By rotating the carousel using conveniently located handles on each platter, cages are easily accessed. There’s no need to waste space with large aisles, and no need to move racks for access. Simply stand in one place and bring the cages to you.

Because Optimice creates a low-stress, non-variable environment, it is ideal for housing and breeding research mice and delicate strains. Optimice cages bio-exclude and bio-isolate, and can be used for quarantine and biocontainment.

Optimice is simply the best possible system for optimizing space and enhancing the quality of life for animals and their caregivers.

Caging Accessories

We offer a full range of standard and custom accessories designed to optimize our caging systems and maximize the efficacy of lab animal research.

Optimice features

- Small footprint, ultra-high density
- No motors, blowers, noise, or vibration
- Eliminates odors and allergens in the animal room
- Low-stress environment
- Available single-use caging, interchangeable in Optimice racks

Same operating principles as all Animal Care Systems racks

- Complete biocontainment and isolation
- Low-velocity, one-pass airflow with total volume air changes
- Lightweight, easy to maintain
- Simple cage assemblies with as few as three component parts

Optional automatic watering options

- Valve-on-cage (VOC)
- Valve-on-rack (VOR)
- Removable valve-on-rack (RVOR)

Optimice Rack

<table>
<thead>
<tr>
<th>Dimensions</th>
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<tr>
<td>Depth</td>
<td>Width</td>
</tr>
<tr>
<td>Full rack with card holders</td>
<td>40.5 (1029)</td>
</tr>
<tr>
<td>Full rack no card holders</td>
<td>39.7 (1001)</td>
</tr>
<tr>
<td>Empty rack</td>
<td>33.7 (856)</td>
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Optimice Bare Rack Assembly—No Cages
Product: C77200

Optimice Full Rack Assembly—Standard Cages
Polysulfone: C89100PFF
Polysulfone Smoke: C89100SFF
Polycarbonate: C89100MFF

With external water bottles:
Polysulfone: C89104PFF
Polysulfone Smoke: C89104SFF
Polycarbonate: C89104MFF

Rack Capacity:
10 Platters
10 Cages/Platter
100 Cages

Required Floor Space:
11.4 square feet (1.06 square meters)

All Optimice racks have four 4-inch swivel casters; two casters have locks.
External Water Bottles
Replaces standard cage tops with external bottle top and C79123 M/P/S bottle assembly.
Polysulfone: C78020PB
Polysulfone Smoke: C78020SB
Polycarbonate: C78020MB

External Water Bags
Replaces standard cage tops with external water bag tops and omits the bottle assemblies.
Polysulfone: C78020PH
Polysulfone Smoke: C78020SH
Polycarbonate: C78020MH

Internal Water Bags
Replaces standard water bottles with polysulfone internal water bag adapter.
Polysulfone: C78021PH

Filtered Cage Tops
Replaces standard cage tops with those containing an additional inlet air filter.
Polysulfone: C78220PFF
Polysulfone Smoke: C78220SFF
Polycarbonate: C78220MFF

Manual Feed Port
Replaces standard cage tops with those equipped with a spring-loaded manual feed port.
Polysulfone: C78231P
Polysulfone Smoke: C78231S
Polycarbonate: C78231M

Surgical Implant Feeder-Bottle Guard
Replaces standard water bottle and feeder with a feeder-bottle guard.
Polysulfone: C78130P
Polysulfone Smoke: C78130S
Polycarbonate: C78130M

Rack options may be ordered only with rack assemblies.
**Optimice Bare Rack Assemblies**
No cages.

**With Fixed Rack-Mounted Edstrom Valves**
Compatible with C79102(M/P/S)FF Optimice auto-water cages.
Product: C77302

**Removable Edstrom Valve Option**
Add to above rack to change valves to removable type.
Option: C78120

**Ready for Cage-Mounted Edstrom Valves**
Compatible with C79101(M/P/S)FF Optimice auto-water cages. Valves not included with rack; all other auto-water provisions included.
Product: C77301

**Ready For Cage-Mounted SE Lab Group Valves**
Compatible with C79105(M/P/S)FF Optimice auto-water cages. Valves not included with rack; all other auto-water provisions included.
Product: C77305

**With Auto-Water, No Valves or Valve Couplings***
Cage compatibility depends on valve selection.
Product: C77602

---

**Optimice Full Rack Assemblies**

**With Fixed Rack-Mounted Edstrom Valves**
Includes C79102(M/P/S)FF Optimice auto-water cages.
Polysulfone: C89302PFF
Polysulfone Smoke: C89302SFF
Polycarbonate: C89302MFF

**Removable Edstrom Valve Option**
Add to above rack to change valves to removable type.
Option: C78120

**With Cage-Mounted Edstrom Valves**
Includes C79101(M/P/S)FF Optimice auto-water cages.
Polysulfone: C89300PFF
Polysulfone Smoke: C89300SFF
Polycarbonate: C89300MFF

**With Fixed Rack-Mounted SE Lab Group Valves**
Includes C79102(M/P/S)FF Optimice auto-water cages.
Polysulfone: C89307PFF
Polysulfone Smoke: C89307SFF
Polycarbonate: C89307MFF

**Removable SE Lab Group Valve Option**
Add to above rack to change valves to removable type.
Option: C78122

**With Cage-Mounted SE Lab Group Valves**
Includes C79105(M/P/S)FF Optimice auto-water cages.
Polysulfone: C89305PFF
Polysulfone Smoke: C89305SFF
Polycarbonate: C89305MFF

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* Rack is plumbed for auto-water; however, valves/valve couplings must be acquired and installed before the auto-water system can be used.

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Optimice Basic Cage Assembly
Includes internal water bottle and standard feeder.
Polysulfone: C79100PFF
Polysulfone Smoke: C79100SFF
Polycarbonate: C79100MFF

Optimice Auto-Water VOC Cage Assembly
Cage-mounted watering valve. Includes standard feeder.
With SE Lab Valve:
Polysulfone: C79105PFF
Polysulfone Smoke: C79105SFF
Polycarbonate: C79105MFF
With Edstrom Valve:
Polysulfone: C79101PFF
Polysulfone Smoke: C79101SFF
Polycarbonate: C79101MFF

Red Optimice Basic Cage Assembly
Available in polycarbonate only. Includes internal water bottle and standard feeder.
Product: C79100MREDFF

Optimice Auto-Water VOR Cage Assembly
Accommodates rack mounted valves (Edstrom or SE Lab; fixed or removable). Includes standard feeder.
Polysulfone: C79102PFF
Polysulfone Smoke: C79102SFF
Polycarbonate: C79102MFF

Optimice Basic Cage Assembly with External Water Bottle
Includes external water bottle and standard feeder.
Polysulfone: C79104PFF
Polysulfone Smoke: C79104SFF
Polycarbonate: C79104MFF
Filtered Cage Top
Replaces standard cage top with one containing an additional inlet air filter. C79070 filter included.
- Polysulfone: C78210PFF
- Polysulfone Smoke: C78210PFF
- Polycarbonate: C78210PFF

External Water Bottle Top
Replaces the standard cage top and water bottle with a top containing a recess for an external water bottle and the necessary C79123 bottle assembly.
- Polysulfone: C78240PB
- Polysulfone Smoke: C78240SB
- Polycarbonate: C78240MB

Internal Water Bag
Replaces the standard water bottle with the polysulfone internal water bag holder.
- Product: C78241PH

Manual Feed Port Top
Replaces standard cage top with one equipped with a spring-loaded manual feed port.
- Polysulfone: C78230P
- Polysulfone Smoke: C78230S
- Polycarbonate: C78230M

External Water Bag Top
Replaces standard cage top with one equipped to hold an external water bag and deletes the standard water bottle.
- Polysulfone: C78240PH
- Polysulfone Smoke: C78240SH
- Polycarbonate: C78240MH

Surgical Implant Feeder-Bottle Guard
Replaces standard water bottle and feeder with a feeder-bottle guard.
- Polysulfone: C78030P
- Polysulfone Smoke: C78030S
- Polycarbonate: C78030M
The Blockparty accessory option allows groups of two or more cages within the same level of a rack to be connected to combine living quarters. When the connecting tubes are removed, spring-loaded doors automatically close to block the openings. Available cages are compatible with all styles of Optimice racks.

**Blockparty Cage Options**

Add an option to the indicated cage or rack assembly to replace the existing cage base with one equipped for Blockparty.

**Basic (Bottle or Bag Watering)**

Add to C79100(P/S/M)FF complete cage assembly or basic rack assembly.

Product: C78250PBPFDF

**Basic Red Polycarbonate**

Add to C79100MRED complete cage assembly or basic rack assembly.

Product: C78250MREDPBPF

**Auto-Water Red, Rack-Mounted Valve**

Add to C79102MREDFF complete cage assembly. Use appropriate quantity for auto-water rack assembly with rack-mounted valves.

Product: C78252MREDPBPF

**Auto-Water, Rack-Mounted Valve**

Add to C79102(P/S/M)FF complete cage assembly. Use appropriate quantity for auto-water rack assembly with rack-mounted valves.

Product: C78252PBPFDF

**Auto-Water, Cage-Mounted Valve**

Add to C79101(P/S/M)FF or C79105(P/S/M)FF complete cage assembly or auto-water rack assembly with cage-mounted valves.

Product: C78251PBPFDF

**Cage Upgrade**

This option will retrofit existing customer cages to Blockparty cages. *(Customer is responsible for shipment of cages to and from the Animal Care Systems warehouse.)*

Product: C79BPUPGRADE
Optimice Blockparty Cage Bases
Cage bases include filters, cage card adapter, and applicable auto-watering provisions. Cage tops, bottles, and feeders (all interchangeable with standard Optimice caging) are not included. Blockparty connecting tubes also must be ordered separately.

Basic (Bottle or Bag Watering)
Polysulfone: C79110PBPDFF
Polysulfone Smoke: C79110SBPDFF
Polycarbonate: C79110MBPDFF

Auto-Water, Cage-Mounted Valve Ready
Cage bases do not include watering valves.
Polysulfone: C79111PBPDFF
Polysulfone Smoke: C79111SBPDFF
Polycarbonate: C79111MBPDFF

Auto-Water, Rack-Mounted Valve Ready
Polysulfone: C79112PBPDFF
Polysulfone Smoke: C79112SBPDFF
Polycarbonate: C79112MBPDFF

Basic Red Polycarbonate
Product: C79110MREDBPDFF

Auto-Water, Cage-Mounted Valve Ready
Cage bases do not include watering valves.
Product: C79111MREDBPDFF
Individual Blockparty Tube Components

**Bare Tube Half**
Plastic tube half only; two required per tube assembly.
Amber:  C43BP050
Red:  C43BP050RED

**End Connector**
Blue anodized aluminum. Sold individually (two required per tube assembly).
Product:  C40BP050

**O-Ring**
Provides the necessary air-tight seal when tube is installed.
Product:  C32BP010

Blockparty Connecting Tube Assemblies
Connecting tubes simply press into ports on cages. A detent locks the connection, and a mildly firm pull releases the connection. Available in amber or red color. Constructed from Radel R and sterilizable.
Amber:  C79BP050
Red:  C79BP050RED

**Optimice-Blockparty**
Single-Use Cage Base
Packaged 26 per box.
Product: DBASE2

Single-Use Water Bottle Assembly
Includes bottle and cap; sold 128 per box.
Product: C79722

Bedding
Please contact your local sales representative for more information.
Product: C49100C

Single-Use Docking Tray
Allows a rack to accept single-use caging; trays are reusable.
Product: DTRAY

Single-Use Cage Top Types
Feeders and cage card holders are included with cage tops. Boxes contain 32 of each.

Single-Use Cage Top for Water Bag
Product: DTOP3.HYD

Single-Use Cage Top for Water Bottle
Product: DTOP3.BOT

Orders are for full boxes, unless otherwise noted. Box quantities are noted in each product description.
Basic Cage Base Assembly
Includes cage card adapter kit and filters.
Polysulfone: C79110PFF
Polysulfone Smoke: C79110SFF
Polycarbonate: C79110MFF

Auto-Water Cage Base Assembly
Accommodates rack-mounted water valves. Includes cage card adapter kit and filters.
Polysulfone: C79112PFF
Polysulfone Smoke: C79112SFF
Polycarbonate: C79112MFF

Auto-Water Cage Base Assembly
For cage-mounted water valves; valves provided separately. Includes cage card adapter kit and filters.
Polysulfone: C79111PFF
Polysulfone Smoke: C79111SFF
Polycarbonate: C79111MFF

Compatible Valves
Edstrom Product: M45050
SE Lab Product: C45021

Basic Red Cage Base Assembly
Available in polycarbonate only. Includes cage card adapter kit and filters.
Product: C79110MREDFF

Optimice Auto-Water Pre-charge Station
Purge trapped air from cage-mounted valves before use.
Edstrom Product: C79360
SE Lab Product: C79365

Optimice Cage Base Skid
Placed at the bottom of a stack of cages, the cage skid enables sliding short cage stacks across floors; for tall stacks, the bulk cart is recommended.
Product: C79390
Standard Cage Top Assembly
Polysulfone: C79290P
Polysulfone Smoke: C79290S
Polycarbonate: C79290M

Standard Red Cage Top Assembly
Available in polycarbonate only.
Product: C79290MRED

External Water Bag Cage Top Assembly
C79280 cage top plug available upon request.
Polysulfone: C79290PH
Polysulfone Smoke: C79290SH
Polycarbonate: C79290MH

External Water Bottle Cage Top Assembly
Accommodates C79123 water bottle.
Polysulfone: C79290PB
Polysulfone Smoke: C79290SB
Polycarbonate: C79290MB

Filtered Cage Top Assembly
Standard cage top equipped with an additional inlet air filter.
Polysulfone: C79290FPFF
Polysulfone Smoke: C79290FSFF
Polycarbonate: C79290FMFF

Wire Bar Cage Top Assembly
Allows a standard cage to ventilate statically. Do not use on cages installed in Optimice rack.
Product: C79295
Optimice

**Manual Feed Port Cage Top**
Equipped with a spring-loaded manual feed port.
Polysulfone: C79292P
Polysulfone Smoke: C79292S
Polycarbonate: C79292M

**Optimice Cage Top Clip**
Replacement latching clips, sold as individual.
Product: C43170
Replacement screws: C30120
Optimice Flat Filter Assembly
Product: C79070

Filter Flange
Product: C40135

Filter Seal Clip
Product: C79070SLCG

Filter Seal
Product: C79070SEAG

40 Mesh Screen
Product: C79070S40

Reemay Filter Media
Product: C79070FLT

16 Mesh Screen
Product: C79070S16

Filter Retainer
Product: C79070RET
Optimice Pleated Filter Assembly
Product: C79073

Flat Filter Table Top Fixture Kit
Includes 1 table top fixture with clamps, 2 press tools, 1 pair pliers
Product: C79070TTF1
Optimice

Metering Bottle and Holder Assembly
Includes two (2) autoclavable metering bottles and holder.
Product: C79125

Metering Bottle Only
Autoclavable
Product: C79135

Light-sensitive Bottle and Holder Assembly
Includes two (2) light-sensitive bottles and one holder; bottle not autoclavable.
Product: C79125A

Light Sensitive Bottle Only
Product: C79135A

Optimice Double Water Bag Holder for Divided Cage
Double water bag holder made from stainless steel with polycarbonate windows to easily view water levels. Holds two 250-mL water bags. Compatible with both polycarbonate and stainless steel dividers.
Product: C79336

Optimice Bottle Hanger
Product: C40320
**Optimice**

**Optimice Internal Water Bag Holder Assembly**
Available in polysulfone only.
Product: C79126

**Optimice External Bottle Assembly**
Includes hanger and cap.
Capacity: 400 mL
- Polysulfone: C79123P
- Polysulfone Smoke: C79123S
- Polycarbonate: C79123M

**Bottle without cap**
- Polysulfone: C79132P
- Polysulfone Smoke: C79132S
- Polycarbonate: C79132M

**Red Bottle Assembly**
Available in polysulfone only.
Includes hanger and cap.
Capacity: 400 mL
Product: C79122PRED

**Optimice Internal Bottle Assembly**
Includes hanger and cap.
Capacity: 400 mL
- Polysulfone: C79122P
- Polysulfone Smoke: C79122S
- Polycarbonate: C79122M

**Black Bottle Assembly**
Available in polysulfone only.
Includes hanger and cap.
Capacity: 400 mL
Product: C79122PBLK

**Bottle without cap**
Product: C79132PBLK

**Optimice Bottle Seal**
Product: C41050
Optimice

**Standard Internal Bottle Cap**
Product: C40150

**Ball Sipper Tube Bottle Cap**
Ball provides a better seal with fewer incidental drips.
Product: C40153

**External Bottle Cap**
Allows bottles to fit the external bottle cage top.
Product: C40152

**Watering Valves, Rack-Mount Removable**
Valve: C45027A
Air Seal: C45160

**Watering Valves, Cage-Mount**
Edstrom: M45050
SE Lab: C45021

**Edstrom Auto-Water Deprivation Cap**
Product: M45055
**Optimice Standard Feeder**
All stainless with scruffing grid.
Capacity: 510 cubic centimeters (31 cubic inches)
Product: C40101SG

**Optimice High Clearance Feeder**
Provides increased clearance between feeder bottom and cage floor.
Product: C40106

**Optimice Large Capacity Feeder**
Capacity: 721 cubic centimeters (44 cubic inches)
Product: C40103

**Optimice J-Feeder**
For powdered or fine pellet feed.
Capacity: 500 cubic centimeters (30 cubic inches)
Product: C40180

**Optimice Standard Feeder**
Capacity: 510 cubic centimeters (31 cubic inches)
Product: C40101SG

**Optimice Feeder Bottom Guard**
Guard prevents mice from going under the feeder. Can be used in the standard feeder hanging position or with a Unimice Cage Divider.
Product: C40110

**Surgical Implant Feeder-Bottle Guard Assembly**
A special trough feeder and water bottle that minimizes the risk of damage to head implants.
Feed capacity: 100 cubic centimeters (6 cubic inches); bottle capacity: 236 mL
Product: C79130

**Feeder Guard Only**
Product: C40328

**Water Bottle Only**
Product: C79140

**Optimice J-Feeder**
For powdered or fine pellet feed.
Capacity: 500 cubic centimeters (30 cubic inches)
Product: C40180

**Optimice Feeder Bottom Guard**
Guard prevents mice from going under the feeder. Can be used in the standard feeder hanging position or with a Unimice Cage Divider.
Product: C40110
**Cage Card Holders & Accessories**

**Optimice**

**Cage Card Adapter Kit**
Includes card holder and adapter.
Product: C79253

**Cage Card Holder**
Fits standard 3-inch x 5-inch cards.
Product: C43251

**Cage Card Adapter**
Sterilizable.
Product: C43250

**Cage Cards**
Five colors available.
2.5-by-5-inch: C52011
3-by-5-inch: M52010

**Stainless Steel Cage Card Holder**
Product: C40252

**Stainless Steel Cage Card Adapter Kit**
Product: C79252

*Back to Table of Contents*
Unimice Polycarbonate Cage Divider Kits
Divide living quarters and food access; includes C40102 feeder. Not for use with auto-water cages. Water bottles must be ordered separately.
Standard (shown): C79170M
Tox Floor Compatible: C79172M
Social Holes: C79173M

Individual Component Parts:
Front Clip: C40160
Rear Clip: C40161
Feeder: C40102

Unimice Stainless Steel Cage Divider Kit
Divide living quarters and food access; includes C40104 feeder. For use with auto-water cages or water bottles. Water bottles must be ordered separately.
Standard: C79171
Standard*: C79174
Social Holes: C79171SOC
Social Holes*: C79174SOC
*For use without bottle

Unimice Universal Stainless Steel Cage Divider
Compatible with auto-water; one water bottle must be present. Does not include feeder.
Standard: C40331
Social Holes: C40331
Feeder: C40104
Non-Auto-water: C40336

Unimice Wire Bar Tox Floor
Large openings for thorough waste isolation.
Product: C40173

Optimice Standard Tox Floor
Stamped from flat sheet, more gentle on feet.
Product: C40170
**Optimice**

**Trough Tunnel**
Nylon construction, not suitable for sterilization.
Product: M43040

**DomicelISLE**
3-inch-high, polycarbonate construction; sterilizable.
Single Product: C43810
Box of 50: C43810-50
Box of 250: C43810-250
Optimice Cage Top Prop
Suspends open cage top to avoid contamination from setting down.
Dimensions (L x W x H): 12 x 14.25 x 11 inches (30.5 x 36.2 x 28 cm)
Product: C61030

Gas Alert Extreme Single Gas Detector for NH3
Product: C79NH3KIT1
Optimice

**Front Nozzle**
Use with rear cap or rear nozzle.
Product: C7907FN

**Rear Nozzle**
Use with front cap or front nozzle.
Product: C7907RN

**Rear Cap**
Use with front nozzle or with front cap and inhalation cage top.
Product: C7907RC

**Front Cap**
Use with rear nozzle or with rear cap and inhalation cage top.
Product: C7907FC
Ergomice®

Animal Care Systems’ Ergomice provides a compact and ergonomic caging system with all the features and benefits of our Optimice system.

The Ergomice line of racks provides a lightweight, lower-cost alternative to the Optimice caging, and is available in 50-, 70-, or 80-cage capacities. The 70-cage model eliminates the bottom three levels to minimize the need to bend down for access, while the 80-cage model has reduced height to accommodate shorter personnel; the 50-cage model incorporates both of these features but has the lowest animal density.

Ergomice racks use our standard Optimice cages and accessories, which are available in polycarbonate or two types of polysulfone plastic. While the 80-cage configuration has all the same watering options as Optimice, the 50- and 70-cage versions are not available with auto-watering options; bottles and other individual cage watering options are available (external bottles, water pouches, etc.).

**Optimice Form and Function, Superior Ergonomics**

- No noise or vibration
- Saves energy
- Extremely lightweight
- Easy and comfortable handling and maintenance
- Eliminates allergens and odors
- Low-velocity, one-pass airflow, and total volume air change
- Shares Optimice caging and accessories
- Available in three capacities: 50-, 70-, and 80-cage
Ergomice 50-Cage Racks

Ergomice Bare Rack Assembly Only
No cages.
Product: C77250

Ergomice Full Rack Assembly
Cages included.
Polysulfone: C89150PFF
Polysulfone Smoke: C89150SFF
Polycarbonate: C89150MFF

Ergomice 50-Cage Rack Options

External Water Bags
Replaces standard cage tops with external water bag tops and omits the bottle assemblies.
Polysulfone: C78025PH
Polysulfone Smoke: C78025SH
Polycarbonate: C78025MH

External Water Bottles
Replaces standard cage tops with external bottle top and C79123(P/S/M) bottle assembly.
Polysulfone: C78025PB
Polysulfone Smoke: C78025SB
Polycarbonate: C78025MB

### Ergomice 50 Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Depth</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>With cages</strong></td>
<td>40.5 (102.9)</td>
<td>40.5 (102.9)</td>
<td>63.9 (162.3)</td>
</tr>
<tr>
<td><strong>Without ages</strong></td>
<td>33.8 (85.6)</td>
<td>39.8 (101.1)</td>
<td></td>
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</tbody>
</table>

All Ergomice racks have four 4-inch swivel casters; two casters have locks
Ergomice 70-Cage

Ergomice 70-Cage Racks

Ergomice Bare Rack Assembly Only
No cages.
Product:  C77270

Ergomice Full Rack Assembly
Cages included.
Polysulfone:  C89170PFF
Polysulfone Smoke:  C89170SFF
Polycarbonate:  C89170MFF

Ergomice 70-Cage Rack Options

External Water Bags
Replaces standard cage tops with external water bag tops and omits the bottle assemblies.
Polysulfone:  C78027PH
Polysulfone Smoke:  C78027SH
Polycarbonate:  C78027MH

External Water Bottles
Replaces standard cage tops with external bottle top and C79123(P/S/M) bottle assembly.
Polysulfone:  C78027PB
Polysulfone Smoke:  C78027SB
Polycarbonate:  C78027MB

<table>
<thead>
<tr>
<th></th>
<th>Depth (Inches)</th>
<th>Width (Inches)</th>
<th>Height (Inches)</th>
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<tbody>
<tr>
<td>With cages</td>
<td>40.5 (102.9)</td>
<td>40.5 (102.9)</td>
<td>77.1 (195.8)</td>
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<tr>
<td>Without ages</td>
<td>33.8 (85.6)</td>
<td>39.8 (101.1)</td>
<td></td>
</tr>
</tbody>
</table>

All Ergomice racks have four 4-inch swivel casters; two casters have locks.
Ergomice 80-Cage Racks

**Ergomice Bare Rack Assembly Only**
No cages.
Product: C77280

**Ergomice Full Rack Assembly**
Cages included.
- Polysulfone: C89180PFF
- Polysulfone Smoke: C89180SFF
- Polycarbonate: C89180MFF

**Ergomice 80-Cage Rack Options**

**External Water Bags***
Replaces standard cage tops with external water bag tops and omits the bottle assemblies.
- Polysulfone: C78028PH
- Polysulfone Smoke: C78028SH
- Polycarbonate: C78028MH

**External Water Bottles**
Replaces standard cage tops with external bottle top and C79123(P/S/M) bottle assembly.
- Polysulfone: C78028PB
- Polysulfone Smoke: C78028SB
- Polycarbonate: C78028MB

### Ergomice 80 Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Inches (cm)</th>
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<tbody>
<tr>
<td><strong>Depth</strong></td>
<td></td>
</tr>
<tr>
<td>With cages</td>
<td>40.5 (102.9)</td>
</tr>
<tr>
<td>Without ages</td>
<td>33.8 (85.6)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>40.5 (102.9)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>63.9 (162.3)</td>
</tr>
</tbody>
</table>

All Ergomice racks have four 4-inch swivel casters; two casters have locks.
Animal Care Systems offers ground transport boxes for shipping your research rodents safely and conveniently. These containers are sturdier than cardboard boxes, ship flat, and are economical. Each box can be easily divided and all lids are equipped with a viewing window. For sales outside North America, please contact Triple A Trading.

**Features:**
- Made from 3-mm white polypropylene Akylux
- Durable, lightweight, reusable, recyclable
- Washable and sterilizable at 121 degrees Celsius (250 F) for 20 minutes
- Easily divide boxes into 2 or 4 compartments
- Filters are protected from animals by a fine wire mesh
- Window flap for easy inspection of animals
- Opaque plastic protects animals from bright light and being viewed in public spaces
- Ships flat, saving on transport costs
- Easy to fold and assemble — no staples or tape needed

**Filter Media**
Cooltex 2693, 70 g/m²

**Large Box for Rats or Mice**
Maximum floor space = 200 square inches (1290 square centimeters). Dividable into 2 or 4 compartments.

**Small box for Mice**
Maximum floor space = 100 square inches (645 square centimeters). Dividable into 2 compartments.

**Small Transport Box**
Product: TPB010

**Large Transport Box**
Product: TPB020

**Large Transport Box Divider**
For further division of large box (into quadrants). Pack of 20.
Product: TPBD020

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**Transport Box Assembled Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>Depth (inches)</th>
<th>Width (inches)</th>
<th>Height (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small box</td>
<td>11.8 (30)</td>
<td>8.5 (21.5)</td>
<td>6.3 (16)</td>
</tr>
<tr>
<td>Large box</td>
<td>16.9 (43)</td>
<td>11.8 (30)</td>
<td>6.3 (16)</td>
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</tbody>
</table>
Optirat® Plus

Our Largest, Most Advanced Cages

Optirat Plus combines our proven motor-free, exhaust-ventilated technology and high-density carousel design with vastly increased cage volume while improving ease of use and maintenance. The feeder is located near the rear of the cage for improved visibility, and the water bottles are externally located to allow changing without opening cages. Optirat Plus racks each contain 30 cages, arrayed in six levels of five cages per level, and each cage is equipped with a 1.1-liter feeder and two 500-mL water bottles or optional water bag adapters; auto-watering is also available.

As with all Animal Care Systems racks, Optirat Plus meets domestic and international housing recommendations and exceeds animal comfort guidelines while providing high-density caging for rats. Like our other carousel-style racks, Optirat Plus can be positioned against a wall or next to another rack. The rotating carousel provides easy cage access without moving racks or forming large aisles. Simply stand in one place and bring the cages to you. Optirat Plus also can house hamsters, gerbils, guinea pigs, deer mice, and wild-caught rodents. The cage is suitable for invertebrates, as well.

Caging Accessories

We offer a full range of standard and custom accessories designed to optimize our caging systems and maximize the efficacy of lab animal research.

Optirat Plus features

• Ultra-large cages; improved height and floor area
• Optional mezzanine further expands living space
• Externally accessible water bottles
• Inexpensive replacement filters
• Flat-bottom cage bases
• Integrated cage card holder

Same operating principles as all Animal Care Systems racks

• One-pass, low-velocity airflow with total volume air changes
• No electric motors, no energy consumption, no vibration
• Simple cage assemblies with as few as three component parts
• Complete biological isolation and containment

Optional automatic watering options

• Valve-on-cage (VOC)
• Valve-on-rack (VOR)
• Removable valve-on-rack (RVOR)

Optirat Plus Rack

<table>
<thead>
<tr>
<th>Dimensions (inches (mm))</th>
<th>Weight (pounds (kg))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth Width Height</td>
<td>Basic Auto-Water</td>
</tr>
<tr>
<td>Full rack, carousel rotation</td>
<td>41 (1041)</td>
</tr>
<tr>
<td>Full rack, carousel rotated for precise entryways</td>
<td>39.4 (1000)</td>
</tr>
<tr>
<td>Empty rack</td>
<td>33.7 (856)</td>
</tr>
</tbody>
</table>

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Optirat Plus

Basic Optirat Plus Racks
Water bottles or water bags.

Bare Rack Assembly
No cages.
Product: CP77R100

Full Rack Assembly With Water Bottles
Complete cage assemblies included.
Polysulfone: CP86100P
Polycarbonate: CP86100M†

Full Rack Assembly For Use With Water Bags
No water bottles. Includes stainless steel water bag valve, CP45Q100. Includes water bag adapter, CP43T110.
Polysulfone: CP86101P
Polycarbonate: CP86101M†

†Polycarbonate orders must meet minimum quantities.

All Optirat Plus racks have four 4-inch swivel casters; two casters have locks

Back to Table of Contents
## Optirat Plus

### Optirat Plus Bare Rack Assemblies
No cages.

### With Rack-Mounted Edstrom Valves
Compatible with CP79C202(P/M) Optirat Plus auto-water cages.
Product: CP77R202

### Removable Valve Option
Add to above rack to change valves to removable type.
Option: CP75R120

### Ready For Cage-Mounted Edstrom Valves
Compatible with CP79C200(P/M) Optirat Plus VOC auto-water cages. Valves not included with rack.
Product: CP77R200

### Ready For Cage-Mounted SE Lab Group Valves
Compatible with CP79C205(P/M) Optirat Plus VOC auto-water cages. Valves not included with rack.
Product: CP77R205

### With Auto-Water, No Valves or Valve Couplings*
Cage compatibility depends on valve selection.
Product: CP77R20

### Optirat Plus Full Rack Assemblies
Cages included.

### With Rack-Mounted Edstrom Valves
Includes CP79C202(P/M) Optirat Plus auto-water cages.
Polysulfone: CP86202P
Polycarbonate: CP86202M†

### Edstrom Removable Valve Option
Add to above rack CP86202(P/M) to change valves to removable type. Includes CP79C202 M/P Optirat Plus auto-water cages.
Option: CP75R120

### With Rack-Mounted SE Lab Group Valves
Includes CP79C202P Optirat Plus auto-water cages.
Product: CP86207P

### SE Lab Removable Valve Option
Add to above rack CP86207P to change valves to removable type. Includes CP79C202P Optirat Plus auto-water cages.
Product: CP75R122

### With Cage-Mounted Edstrom Valves
Includes CP79C200(P/M) Optirat Plus VOC auto-water cages.
Polysulfone: CP86200P
Polycarbonate: CP86200M†

### With Cage-Mounted SE Lab Group Valves
Includes CP79C205(P/M) Optirat Plus VOC auto-water cages.
Polysulfone: CP86205P
Polycarbonate: CP86205M†

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* Rack is plumbed for auto-water; however, valves must be acquired and installed before the auto-water system can be used.

† Polycarbonate orders must meet minimum quantities.

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Rack options may be ordered only with rack assemblies.
Optirat Plus

Basic With External Water Bottle

Standard Cage Assembly
Polysulfone: CP79C100P
Polycarbonate: CP79C100M†

Auto-Water Cage Assemblies
Utilize different cage tops with no bottle recesses and provide extra headroom at the front corners.

With Cage-Mounted Valves
With SE Lab Valve:
Polysulfone: CP79C205P
Polycarbonate: CP79C205M†

With Edstrom Valve:
Polysulfone: CP79C200P
Polycarbonate: CP79C200M†

Accommodates Rack-Mounted Valves
Polysulfone: CP79C202P
Polycarbonate: CP79C202M†

Basic, External Water Bag Ready
Includes stainless steel water bag valves, CP45Q100, and water bag adapters, CP43T110.
Polysulfone: CP79C101P
Polycarbonate: CP79C101M†

Surgical Implant Cage Assembly
A special trough feeder and angled sipper tubes minimize the risk of damage to head implants.
Polysulfone: CP79C102P
Polycarbonate: CP79C102M†

†Polycarbonate orders must meet minimum quantities.
Optirat Plus

**Basic Cage Base Assembly**
Standard cage base for use with water bottles or bags.
Polysulfone: CP79B100P
Polycarbonate: CP79B100M†

**Auto-Water Cage Base Assembly, Rack-Mounted Valve**
Spring-loaded door accommodates fixed and removable rack-mounted valves.
Polysulfone: CP79B202P
Polycarbonate: CP79B202M†

**Auto-Water Cage Base Assembly, Cage-Mounted Valve**
Cage bases can be sold with or without watering valves installed.
With SE Lab Group Valve:
Polysulfone: CP79B205P
Polycarbonate: CP79B205M†
With Edstrom Valve:
Polysulfone: CP79B200P
Polycarbonate: CP79B200M†
Base Without Valve:
Polysulfone: CP79B210P
Polycarbonate: CP79B210M†

**Cage-Mounted Watering Valves**
For use with CP79B210 cage bases.
Edstrom: M45050
SE Lab: C45021

†Polycarbonate orders must meet minimum quantities.
**Optirat Plus**

**Basic Cage Top Assembly For Water Bottles/Bags**
Does not include bottles or water bag adapters.
- Polysulfone: CP79T100P
- Polycarbonate: CP79T100M†

**Auto-Water Cage Top Assembly**
No recesses for bottles or water bags.
- Polysulfone: CP79T200P
- Polycarbonate: CP79T200M†

**Manual Port Cage Top**
Equipped with a spring-loaded manual feed port.

**Optirat Plus Single Feed Port Standard Top (Shown)**
- Polysulfone: CP79T105P
- Polycarbonate: CP79T105M†

**Optirat Plus Dual Feed Port Standard Top**
- Polysulfone: CP79T106P
- Polycarbonate: CP79T106M†

**Optirat Plus Single Feed Port Auto-Water Top**
- Polysulfone: CP79T205P
- Polycarbonate: CP79T205M†

**Optirat Plus Dual Feed Port Auto-Water Top**
- Polysulfone: CP79T206P
- Polycarbonate: CP79T206M†

**Optirat Plus Cage Top Clip**
Sold individually.
- Product: CP43T010

†Polycarbonate orders must meet minimum quantities.
Filter Media—Reemay 2024

Front Filter
Small, four per cage.
Product: CP43L101

Rear Filter
Large, one per cage.
Product: CP43L102

Rear Screen Clip
Product: CP40L106

Outer Filter Screens

Front Outer Filter Screen
Product: CP40L102

Rear Outer Filter Screen
Product: CP40L105
Optirat Plus

Inner Filter Screens

Front Inner Filter Screen
Product: CP40L101

Rear Inner Filter Screen
Product: CP40L104

Front Filter Retainer
Product: CP40L103

Optirat Plus Rear Filter Cover
Product: CP43T050 M/P
Polysulfone: CP43T050P
Polycarbonate: CP43T050M†

Rear Filter Cover Latch
Product: CP43T011

†Polycarbonate orders must meet minimum quantities.
Optirat Plus

Optirat Plus Water Bottle Assembly
Cap has integrated stainless steel sipper tube that extends down into the cage. Capacity: 500 mL
With Cap:
- Polysulfone: CP79W100P
- Polycarbonate: CP79W100M†
Without Cap:
- Polysulfone: CP79W110P
- Polycarbonate: CP79W110M†
Cap Only: CP79W050R
Seal Only: C41050

Optirat Plus Caps for Additional Species
The bottle cap supplies facilities with options for mice, guinea pigs, and other rodents.
- Mice (shown): CP79W051R
- Guinea Pigs: CP79W053R

Watering Valves, Rack-Mount Removable
Valve: C45027A
Air Seal: C45160

Watering Valves, Cage-Mount
Edstrom: M45050
SE Lab: C45021

Optirat Plus Water Bag Adapter
Installs in the cage top recesses to allow the use of water bags.
Product: CP43T110

Optirat Plus Water Bag Drinking Valve
Constructed from stainless steel; length provides access to bagged water in Optirat Plus applications.
Product: CP45Q100

Surgical Implant Rat Bottle Cap
Angled sipper tube used for rodents with head implants. Provides ample head space clearance for implants when drinking.
Product: CP79W052R

†Polycarbonate orders must meet minimum quantities.
Optirat Plus

**Optirat Plus Feeder Assembly**
Hinged cover keeps animals out of the feeder.  
Capacity: 1,100 cubic centimeters (67 cubic inches)  
Product: CP40F105

**Feeder only (no cover)**  
Product: CP40F100

**Feeder Cover**  
Product: CP40F050

**Optirat Plus J-Feeder**  
For powdered or small-pellet feed.  
Product: CP40F115

**Surgical Implant Rat Feeder**  
Trough feeder minimizes damage to head implants.  
Capacity: 400 cubic centimeters (24 cubic inches)  
Product: CP40F112

**Optirat Plus Small J-Feeder**  
For powdered or small-pellet feed.  
Capacity: 400 cubic centimeters (24 cubic inches)  
Product: CP40F113
Optirat Plus

Optirat Plus Mezzanine
Expand internal floor area by 33 percent. Material: polycarbonate.
Product: CP79A102M

Optirat Plus Tox Floor
Stamped from flat sheet. More gentle on feet.
Product: CP40B171

Optirat Plus Standard Cage Divider and Feeder
Divide living quarters and food access. Provide visual and auditory contact with conspecifics.
Standard: CP79A110F
Social Holes: CP79A111F

Optirat Plus Cage Divider for Mezzanine Kit
Divide living quarters and food access with a mezzanine for increased floor area.
Product: CP79A105MF

Feeder Only
Product: M40022OR

Divider Only
Standard: CP79A110
Social Holes: CP79A111

Divider for Mezzanine Only
Compatible only with a CP79A102MD
Product: CP79A113M
Social Holes: CP79A111.6

Mezzanine for Divider Only
Compatible only with a CP79A113M
Product: CP79A102MD

Note: Not all rat dividers compatible with auto-water cages
Optirat Plus

Optirat Plus Water Bottle Basket, 15-Bottle
Hinged lid and clip secure bottles for washing
Product: CP61A100

Optirat Plus Water Bottle Basket, 20-Bottle
Hinged lid and clip secure bottles for washing
Product: CP61A101

Cage Cards
3-by-5-inch — five colors available
Product: M52010
The Optirat GenII caging system is built on the same structural frame as Optimice and employs the same motor-free, exhaust ventilated technology as all Animal Care Systems racks. The cages are large enough to comfortably accommodate rats and provide superior visibility, thanks to the wide front face.

Each rack contains 42 cages, arrayed in seven levels with six cages per level. Each cage is equipped with two standard Optimice 400-mL water bottles and a 1.1-liter stainless steel feeder. Cages are available in the same plastic options as all standard Animal Care Systems cages: amber polysulfone and clear polycarbonate.

Like our other carousel-style racks, Optirat GenII can be positioned against a wall or next to another rack. The rotating carousel provides easy cage access without moving racks or forming large aisles. Simply stand in one place, and bring the cages to you. Optirat GenII also can house hamsters, gerbils, guinea pigs, deer mice, and wild-caught rodents. The cage is suitable for invertebrates, as well.

**Caging Accessories**

We offer a full range of standard and custom accessories designed to optimize our caging systems and maximize the efficacy of lab animal research.

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**Optirat GenII features**

- **Ultra-high density**
- **Simple and lightweight**
- **Fast and easy cage filter replacement**
- **Large enough to house rats and other large rodents**
- **Integrated cage card holder**

**Same operating principles as all Animal Care Systems racks**

- **One-pass, low-velocity airflow and total volume air changes**
- **No electric motors, no energy consumption, no vibration**
- **Complete biological isolation and containment**

**Optional automatic watering options**

- **Valve-on-cage (VOC)**
- **Valve-on-rack (VOR)**
- **Removable valve-on-rack (RVOR)**

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**Optirat GenII Rack**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optirat GenII Rack</strong></td>
<td><strong>Pounds (kg)</strong></td>
</tr>
<tr>
<td><strong>Inches (mm)</strong></td>
<td><strong>Auto-Water Height</strong></td>
</tr>
<tr>
<td><strong>Full rack</strong></td>
<td>76.5 (1943)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td><strong>Basic</strong></td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>39.7 (1008)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>39.4 (1001)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>33.7 (856)</td>
</tr>
</tbody>
</table>
All Optirat GenII racks have four 4-inch swivel casters; two casters have locks.

Bare Rack Assembly
No cages.
Product: C76200

Standard Full Rack Assembly, Water Bottles
Complete cage assemblies included.
Polysulfone: C87100P
Polycarbonate: C87100M

Standard Full Rack Assembly, Water Bags
Remove bottle assemblies and replace with one internal water bag holder.
Polysulfone: C87010P
Polycarbonate: C87010M

†Polycarbonate orders must meet minimum quantities.
Optirat GenII

**Optirat GenII Bare Rack Assemblies**
No cages.

**With Rack-Mounted Edstrom Valves**
Compatible with C79502(P/M) Optirat GenII auto-water cages.
Product: C76202

**Removable Valve Option**
Add to above rack to change valves to removable type.
Option: C75120

**Ready For Cage-Mounted Edstrom Valves**
Compatible with C79501(P/M) Optirat GenII VOC auto-water cages. Valves not included with rack.
Product: C76201

**Ready For Cage-Mounted SE Lab Group Valves**
Compatible with C79505(P/M) Optirat GenII VOC auto-water cages. Valves not included with rack.
Product: C76205

**With Auto-Water, No Valves or Valve Couplings***
Cage compatibility depends on valve selection.
Product: C76601

**Optirat GenII Full Rack Assemblies**
Cages included.

**With Rack-Mounted Edstrom Valves**
Includes C79502(P/M) Optirat GenII auto-water cages.
Polysulfone: C87202P
Polycarbonate: C87202M

**Removable Valve Option**
Add to above rack to change valves to removable type.
Option: C75120

**With Cage-Mounted Edstrom Valves**
Includes C79501(P/M) Optirat GenII VOC auto-water cages.
Polysulfone: C87200P
Polycarbonate: C87200M

**With Cage-Mounted SE Lab Group Valves**
Includes C79505(P/M) Optirat GenII VOC auto-water cages.
Polysulfone: C87205P
Polycarbonate: C87205M

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*Polycarbonate orders must meet minimum quantities.

* Rack is plumbed for auto-water; however, valves/valve couplings must be acquired and installed before the auto-water system can be used.
**Optirat GenII**

**Basic With Internal Water Bottle**
Standard cage assembly.
Polysulfone: C83500P  
Polycarbonate: C83500M

**Basic With Internal Water Bag**
Remove bottle assembly and replace with internal water bag holder.
Polysulfone: C74C010P  
Polycarbonate: C74C010M

**Auto-Water Cage Assemblies**
No bottles or water bag holders.

**With Cage-Mounted Valves**
With SE Lab Valve:
Polysulfone: C83505P  
Polycarbonate: C83505M
With Edstrom Valve:
Polysulfone: C83501P  
Polycarbonate: C83501M

**Accommodates Rack-Mounted Valves**
Polysulfone: C83502P  
Polycarbonate: C83502M

**Add Manual Feed Port to Cage Assembly**
Replaces standard cage top with one equipped with a spring-loaded manual feed port.
Polysulfone: C75230P  
Polycarbonate: C75230M

**Replace Standard Feeder With Bottom-protected Version**
Protect food at the bottom of the feeder with the restrictor plate feeder.
Product: C75402

†Polycarbonate orders must meet minimum quantities.
**Optirat GenII**

**Basic Cage Base Assembly**
For use with water bottles or bags. Includes filters.
- Polysulfone: C83510P
- Polycarbonate: C83510M

**Auto-Water Cage Base Assembly, Cage-Mounted Valve**
Watering valve not included with cage base. Valve type must be matched to rack.
- Polysulfone: C83511P
- Polycarbonate: C83511M

**Compatible Valves**
- Edstrom: M45050
- SE Lab: C45021

**Auto-Water Cage Base Assembly, Rack-Mounted Valve**
Spring-loaded door accommodates fixed and removable rack-mounted valves.
- Polysulfone: C83512P
- Polycarbonate: C83512M

**Optirat GenII Auto-Water Pre-Charge Station**
Purge trapped air from cage-mounted valves before use.
- Edstrom Product: C83361
- SE Lab Product: C83366

**Optirat GenII Cage Base Skid**
Placed at the bottom of a stack of cages, the cage skid enables effortless sliding across floor or other surfaces.
- Product: C83391

†Polycarbonate orders must meet minimum quantities.
Optirat GenII

**Standard Cage Top Assembly**
Polysulfone: C79520P
Polycarbonate: C79520M

**Optirat GenII Cage Top Clip**
Replacement latching clips; sold individually.
Product: C43320
Mounting Screws: C30120

**Manual Feed Port Cage Top**
Equipped with a spring-loaded manual feed port.
Polysulfone: C79522P
Polycarbonate: C79522M

**Wire Bar Cage Top Assembly**
Converts a standard cage to conventional mode. Do not use on cages installed in Optirat GenII rack.
Product: C79525

†Polycarbonate orders must meet minimum quantities.
**Optirat GenII**

**Standard Bottle Assembly**
Includes hanger, seal, and cap.
Capacity: 400 mL
- Polysulfone: C79122P
- Polycarbonate: C79122M

**Bottle without cap**
- Polysulfone: C79132P
- Polycarbonate: C79132M

**Black Bottle Assembly**
Available in polysulfone only. Includes hanger, seal, and cap.
Capacity: 400 mL
- Product: C79122PBLK

**Bottle without cap**
- Product: C79132PBLK

**Red Bottle Assembly**
Available in polysulfone only. Includes hanger, seal, and cap.
Capacity: 400 mL
- Product: C79122PRED

**Bottle without cap**
- Product: C79132PRED

**Internal Water Bag Holder**
For Hydropac only.
- Product: C79585

**Water Bottle Guard**
Compatible only with Optirat GenII.
- Product: C40416
Optirat GenII

Bottle Seal
Product: C41050

Bottle Hanger
Product: C40320
Optirat GenII

### Standard Internal Bottle Cap
Product: C40150

### Ball Sipper Tube Bottle Cap
Ball provides a better seal with fewer incidental drips.
Product: C40153

### Watering Valves, Rack-Mount Removable
Valve: C45027A
Air Seal: C45160

### Watering Valves, Cage-Mount
Edstrom: M45050
SE Lab: C45021

### Curved Sipper Tube Bottle Cap
For guinea pigs.
Product: C40151

### Bottle Cap with 1.5-inch Sipper Tube
Provides mouse pups or less mobile rodents with a lower, more easily accessed sipper tube.
Product: C40154

### Water Cap Valve Assembly
For use with cage-mounted valves only
Product: M45080A

### Edstrom Auto-Water Deprivation Cap
Product: M45055
Optirat GenII

**Rear Filter Nozzle**
Product: C43430

**Rear Filter Inner Screen**
Product: C404S040

**Rear Filter Reemay**
Product: C43L002

**Rear Filter Outer Screen**
Product: C404S041

**Rear Outer Screen Wire Retainer**
Product: C404SR01
Optirat GenII

**Front Filter Retainer**
Product: C43440

**Front Filter Reemay**
Product: C43L001

**Front Filter Inner Screen**
Product: C40L101

**Front Filter Outer Screen**
Product: C404S016

**Filter Table Top Fixture Kit**
Includes table top fixture with 2 clamps, tapered screwdriver
Product: C79070TTF1
Optirat GenII Standard Feeder
All stainless. Option to hang one bottle at two different heights. Capacity: 1,100 cubic centimeters (67 cubic inches)
Product: C40401

Optirat GenII J-Feeder
For powdered and small-pellet feed. Can be used for guinea pig feed. Capacity: 1,000 cubic centimeters (67 cubic inches)
Product: C40405

Optirat GenII Standard Feeder with Restrictor Plate
Protect food at the bottom of the feeder with the restrictor plate feeder. Capacity: 1,100 cubic centimeters (67 cubic inches)
Product: C40402

Optirat GenII Surgical Implant Feeder and Water Bottle Assembly
A special trough feeder and water bottle that minimizes the risk of damage to head implants. Bottle capacity: 500 mL. Feed capacity: 400 cubic centimeters (24 cubic inches)
Polysulfone: C79586P
Polycarbonate: C79586M

Feeder Housing Only
Product: C40408

Water Bottle Only
Product: CP79W103M
Note: Not all rat dividers are compatible with auto-water cages.

Optirat GenII Standard Cage Divider and Feeder
Divide living quarters and food access. Provide visual and auditory contact with conspecifics.
Product: C83175M

Optirat GenII Cage Divider with Social Holes and Feeder
Holes in divider allow olfactory and tactile contact.
Product: C83176M

Feeder Only
Product: M40022OR

Standard Divider Only
Product: C43117

Standard Divider with Social Holes
Product: C43118
Optirat GenII

Optirat GenII Standard Tox Floor
Stamped from flat sheet, more gentle on feet.
Product: C40175

Optirat GenII Wire Bar Tox Floor
Large openings for thorough waste isolation.
Product: C40176

Optirat GenII Upright Shelf
Allows quick access to cages for immediate cage checks; shelf height modular.
Product: C79386
Optirat®

Optirat cage lids, feeders, water bottles, and most other accessories are compatible with Optirat GenII. Additionally, the Optirat rack is compatible with Optirat GenII cage assemblies. Please contact Animal Care Systems about Optirat parts, which will be available until remaining inventory is depleted.
The original M.I.C.E. system is a modular, high-density vented caging system for healthy housing of rodents. These systems are available in a wide variety of sizes, from the smallest 14-cage system, ideal for small studies and experiments, to large 140-cage racks suitable for installation in medium-to-large animal rooms. Each size of rack is based on multiples of the 14-cage module. M.I.C.E. caging systems are sold in both single-sided and double-sided versions.

The M.I.C.E. system is the only rodent caging system in the world validated for Microenvironmental comfort, Isolation, Containment, and Enrichment (M.I.C.E.). The M.I.C.E. rack is vented using a building’s HVAC exhaust system, with a natural convective assist from the populated cages themselves. With no blowers, it is appropriate and safe even in case of power failure — a unique feature that separates the vented M.I.C.E. system from electrically powered and blower-ventilated racks.

<table>
<thead>
<tr>
<th>Rack Type</th>
<th>Length</th>
<th>Depth</th>
<th>Height (basic and auto-water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>16.25  (41.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S2</td>
<td>32.5   (82.6)</td>
<td>23.25 (59.1)</td>
<td></td>
</tr>
<tr>
<td>S3</td>
<td>48.75  (123.8)</td>
<td></td>
<td>77 (195.6)</td>
</tr>
<tr>
<td>S4</td>
<td>65     (165.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S5</td>
<td>81.25  (206.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D4</td>
<td>32.5   (82.6)</td>
<td>36.5 (92.7)</td>
<td></td>
</tr>
<tr>
<td>D6</td>
<td>48.75  (123.8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D8</td>
<td>65     (165.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D10</td>
<td>81.25  (206.4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
All M.I.C.E. racks have four 4-inch swivel casters; two casters have locks.

**M.I.C.E. 4-Module Rack (D4)**
56 mouse (28 rat) cage stations.
Product: M40200D4

**M.I.C.E. 6-Module Rack (D6)**
84 mouse (42 rat) cage stations.
Product: M40200D6

**M.I.C.E. 8-Module Rack (D8)**
112 mouse (56 rat) cage stations.
Product: M40200D8

**M.I.C.E. 10-Module Rack (D10)**
140 mouse (70 rat) cage stations.
Product: M40200D10

**Double-Sided Racks**
Cages not included.

**M.I.C.E. 4-Module Rack (S4)**
56 mouse (28 rat) cage stations.
Product: M40200S4

**M.I.C.E. 5-Module Rack (S5)**
70 mouse (35 rat) cage stations.
Product: M40200S5

**M.I.C.E. 2-Module Rack (S2)**
28 mouse (14 rat) cage stations.
Product: M40200S2

**M.I.C.E. 3-Module Rack (S3)**
42 mouse (21 rat) cage stations.
Product: M40200S3

**M.I.C.E. 1-Module Rack (S1)**
14 mouse (7 rat) cage stations.
Product: M40200S1

**Single-Sided Racks**
Cages not included.

**M.I.C.E. 1-Module Rack (S1)**
14 mouse (7 rat) cage stations.
Product: M40200S1
**Single-Sided Racks**
Configured with mouse cages.

**M.I.C.E. 1-Module Rack (S1)**
14 mouse cages. Auto-water not available.
- Polysulfone: P85010S1
- Polycarbonate: M85010S1

**M.I.C.E. 2-Module Rack (S2)**
28 mouse cages.
- Polysulfone: P85010S2
- Polycarbonate: M85010S2
- Add Auto-Water Option: M45010S2A

**M.I.C.E. 3-Module Rack (S3)**
42 mouse cages.
- Polysulfone: P85010S3
- Polycarbonate: M85010S3
- Add Auto-Water Option: M45010S3A

**M.I.C.E. 4-Module Rack (S4)**
56 mouse cages.
- Polysulfone: P85010S4
- Polycarbonate: M85010S4
- Add Auto-Water Option: M45010S4A

**M.I.C.E. 5-Module Rack (S5)**
70 mouse cages.
- Polysulfone: P85010S5
- Polycarbonate: M85010S5
- Add Auto-Water Option: M45010S5A

**Double-Sided Racks**
Configured with mouse cages.

**M.I.C.E. 4-Module Rack (D4)**
56 mouse cages.
- Polysulfone: P85015D4
- Polycarbonate: M85015D4
- Add Auto-Water Option: M45010D4A

**M.I.C.E. 6-Module Rack (D6)**
84 mouse cages.
- Polysulfone: P85015D6
- Polycarbonate: M85015D6
- Add Auto-Water Option: M45010D6A

**M.I.C.E. 8-Module Rack (D8)**
112 mouse cages.
- Polysulfone: P85015D8
- Polycarbonate: M85015D8
- Add Auto-Water Option: M45010D8A

**M.I.C.E. 10-Module Rack (D10)**
140 mouse cages.
- Polysulfone: P85015D10
- Polycarbonate: M85015D10
- Add Auto-Water Option: M45010D10A
**Single-Sided Racks**
Configured with rat cages.

**M.I.C.E. 1-Module Rack (S1)**
7 rat cages. Auto-water not available.
- Polysulfone: P85011S1
- Polycarbonate: M85011S1

**M.I.C.E. 2-Module Rack (S2)**
14 rat cages.
- Polysulfone: P85011S2
- Polycarbonate: M85011S2
- Add Auto-Water Option: M45011S2A

**M.I.C.E. 3-Module Rack (S3)**
21 rat cages.
- Polysulfone: P85011S3
- Polycarbonate: M85011S3
- Add Auto-Water Option: M45011S3A

**M.I.C.E. 4-Module Rack (S4)**
28 rat cages.
- Polysulfone: P85011S4
- Polycarbonate: M85011S4
- Add Auto-Water Option: M45011S4A

**M.I.C.E. 5-Module Rack (S5)**
35 rat cages.
- Polysulfone: P85011S5
- Polycarbonate: M85011S5
- Add Auto-Water Option: M45011S5A

**Double-Sided Racks**
Configured with rat cages.

**M.I.C.E. 4-Module Rack (D4)**
28 rat cages.
- Polysulfone: P85016D4
- Polycarbonate: M85016D4
- Add Auto-Water Option: M45011D4A

**M.I.C.E. 6-Module Rack (D6)**
42 rat cages.
- Polysulfone: P85016D6
- Polycarbonate: M85016D6
- Add Auto-Water Option: M45011D6A

**M.I.C.E. 8-Module Rack (D8)**
56 rat cages.
- Polysulfone: P85016D8
- Polycarbonate: M85016D8
- Add Auto-Water Option: M45011D8A

**M.I.C.E. 10-Module Rack (D10)**
70 rat cages.
- Polysulfone: P85016D10
- Polycarbonate: M85016D10
- Add Auto-Water Option: M45011D10A
<table>
<thead>
<tr>
<th>Cage Assembly</th>
<th>Includes external water bottle and standard feeder.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mouse Cage Assembly</strong></td>
<td>Polysulfone: P80100A</td>
</tr>
<tr>
<td></td>
<td>Polycarbonate: M80100A</td>
</tr>
<tr>
<td><strong>Auto-Water Mouse Cage Assembly</strong></td>
<td>Polysulfone: P80110A</td>
</tr>
<tr>
<td></td>
<td>Polycarbonate: M80110A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cage Assembly</th>
<th>Includes external water bottle and standard rat feeder.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rat Cage Assembly</strong></td>
<td>Polysulfone: P80121</td>
</tr>
<tr>
<td></td>
<td>Polycarbonate: M80121</td>
</tr>
<tr>
<td><strong>Auto-Water Rat Cage Assembly</strong></td>
<td>Polysulfone: P80131</td>
</tr>
<tr>
<td></td>
<td>Polycarbonate: M80131</td>
</tr>
</tbody>
</table>
Cage Bases

Mouse Cage Base Assembly
For use with water bottles.
Polysulfone: P79010
Polycarbonate: M79010

Mouse Auto-Water Cage Base Assembly
Includes water valve.
Polysulfone: P79011
Polycarbonate: M79011

Exhaust Nozzle
Compatible with all M.I.C.E. cages.
Polysulfone: P43060
Polycarbonate: M43060

Inhalation Nozzle Assembly
Allows for controlled introduction of various gas compounds.
Product: M43090

Cage Tops
Water bottles sold separately.

Type 2 Mouse Cage Top
Polysulfone: P79021
Polycarbonate: M79021
Without Feeder/Cover:
Polysulfone: P43021
Polycarbonate: M43021

Feeder Cover
Polysulfone: P43051
Polycarbonate: M43051

M.I.C.E. Cage Clips
Product: M43080
**Rat Cage Base Assembly**
For use with water bottles.
- Polysulfone: P79121
- Polycarbonate: M79121

**Rat Auto-Water Cage Base Assembly**
Includes water valve.
- Polysulfone: P79126
- Polycarbonate: M79126

**Rat Auto-Water Cage Base Assembly**
No water valve included.
- Polysulfone: P79127
- Polycarbonate: M79127

**Rat Cage Top (Type 2)**
Product: M/P 43026
- Polysulfone: P43026
- Polycarbonate: M43026

**Sipper Tube Closure**
Close the sipper tube port on cage tops when auto-water is employed instead of bottles. Accommodates Type 2 cage tops.
Product: M79280
M.I.C.E.

M.I.C.E. Filter Media — Reemay 2024
Product: M40040

Inner Filter Screen, 40-Mesh
Mouse: M40050
Rat: M40052

Filter Retaining Clip
Outside, front filter only. One per filter with mouse. Two per filter with rat.
Product: M40130

Outer Filter Screen, 16-Mesh
Same part used in mouse or rat cages.
Product: M40060
Cage Water Bottles

**Standard Bottle, Type-2**
- Polysulfone: PR79030B
- Polycarbonate: MR79030B

**Bottle without cap**
- Polysulfone: P79031A
- Polycarbonate: M79031A

**Black Bottle, Type 2**
- Product: P79101

**Black Bottle without cap**
- Product: P79031BLK

**Black Bottle without cap and seal**
- Product: P51011BLK

**Rat Cage Bottle Assemblies**

**Standard Bottle**
- Type 2 interface.
  - Polysulfone: PR79038
  - Polycarbonate: MR79038

**Bottle without cap**
- Polysulfone: P79037
- Polycarbonate: M79037

**Bottle Assembly With Short Sipper Tube**
- Equipped with shorter 2.5-inch tube.
  - Type 2 interface.
  - Polysulfone: PR79038A
  - Polycarbonate: MR79038A
**Standard Mouse Cage Feeder**
All stainless wire construction.
Capacity: 930 cubic centimeters (57 cubic inches)
Product: M40022C

**Rat Cage J-Feeder**
For guinea pigs. Compatible with rat cages only.
Capacity: 1,000 cubic centimeters (61 cubic inches)
Product: M40028

**Standard Rat Cage Feeder**
Compatible with rat cages only.
Capacity: 1,000 cubic centimeters (61 cubic inches)
Product: M40026B

**Standard Mouse Cage Feeder**
All stainless wire construction.
Capacity: 930 cubic centimeters (57 cubic inches)
Product: M40022C
M.I.C.E.

Plenum Top Cover Assemblies
For Single-Sided Racks
Product: M79060
For Double-Sided Racks
Product: M79070

M.I.C.E. Cage Shelf
Product: M40300A

Plenum Module Plug
Product: M41020

Manifold Assemblies
For Single-Sided Racks
Product: M79080
For Double-Sided Racks
Product: M79090

Rack Side Handle
Product: M40250A

Top Cover Gasket
Product: M41030
Other Accessories

Mouse Cage Tox Floor
Isolates waste by allowing it to drop below.
Product: M40010

With Larger Openings
Product: M40011

Filter Chew Guard Kit
Includes guard, filter, screen, and nut.
Mouse Type: M79140
Rat Type: M79145

Mouse Bottle Washing Basket
Secure bottles when washing or sterilizing.
Product: M61011

Rat Cage Tox Floor
Fit for rat cages.
Product: M40012

Rat Bottle Washing Basket
Designed for the larger rat bottles.
Product: M61012

Rat Bottle Basket Cover
Product: M48101

Mouse Cage Tox Floor
Isolates waste by allowing it to drop below.
Product: M40010

With Larger Openings
Product: M40011

Filter Chew Guard Kit
Includes guard, filter, screen, and nut.
Mouse Type: M79140
Rat Type: M79145

Mouse Bottle Washing Basket
Secure bottles when washing or sterilizing.
Product: M61011

Rat Cage Tox Floor
Fit for rat cages.
Product: M40012

Rat Bottle Washing Basket
Designed for the larger rat bottles.
Product: M61012

Rat Bottle Basket Cover
Product: M48101
Material Handling

Accessory Basket
For use with assorted accessories when washing or sterilizing.
Product: C61040

Cage Bulk Cart
Safely transport or store large quantities of cages. Includes restraint cable. Four 4-inch casters; two of the casters do not swivel, and the other two swivel and lock.
Product: C79345

Bulk Cart Covers
Sterilizable cover to keep dust and debris from collecting on stored cages.
With zipper: C49160
With Velcro: C49161

Spare Restraint Cable
Product: C49150

Cage Top Washing Racks
Accommodates all Optimice and Optirat cage tops; bottle/bag washing rack is required for external water tops.
Standard (pictured): C61020
Capacity: 20 lids
Bottle/Bag: C61022
Capacity: 18 lids
Stackable (pictured): C61023
Capacity: 19 lids

Opticart
Effortlessly transport water bag totes, bottle baskets, and much more. Four 4-inch non-locking casters; two fixed, two swivel
Product: C79340
**Material Handling**

**Optimice and Optirat GenII Water Bottle Basket, 15-Bottle**
Compatible with Optirat and Optimice bottles. Hinged lid and clip secure bottles for washing.
Product: C61011

**With Detachable Lid**
Product: C61012

**Protective Cover**
Protective cover for 15-bottle basket.
Product: C49COV35Z

**Optimice and Optirat GenII Water Bottle Basket, 20-Bottle**
Compatible with Optirat and Optimice bottles. Hinged lid and clip secure bottles for washing.
Product: C61010

**Protective Cover**
Protective cover for 20-bottle basket.
Product: C49COV45Z

**Bottle Cap Removal Tool**
Ergonomic bottle cap remover for Optimice, Optirat, and Optirat GenII
Product: C79190
Material Handling

Change-Out Rack for Optimice
Store, transport, wash, and sterilize Optimice cages and accessories on this customizable, durable stainless steel rack. Popular options are listed below.

**Option 1**
Two Optimice cage shelves and one accessory shelf
Product: CORA1S2

**Option 2**
Three Optimice cage shelves
Product: CORA0S3 (shown)

**Option 3**
Five Optimice cage shelves
Product: CORA0S5

**Option 4**
Two Optimice cage shelves
Product: CORA0S2

**Option 5**
Two accessory shelves
Product: CORA2S0

**Option 6**
Three accessory shelves
Product: CORA3S0

**Option 7**
Four Optimice cage shelves and one accessory shelf
Product: CORA1S4

Change-Out Rack for Optirat GenII and Optirat Plus
Rack base and shelves are ordered a la carte for greatest flexibility; shipped assembled. Between one and three shelves per base are recommended for Optirat GenII and Optirat Plus.

Change-Out Rack Base: CORA0S0
Rack Assembly with Two Shelves: CORA2S0 (shown)
Rack Assembly with Three Shelves: CORA3S0
Accessory Shelf: C50052

Protective Cover
Protective cover for change-out rack.
Product: C49164

Individual Parts
Change-out rack base: CORA0S0
Optimice cage shelf: C50051
Accessory shelf: C50052

All changeout racks have four 4-inch swivel casters; two casters have locks
**Rack Accessories**

**Anemometer Assembly Kit**
Ensure adequate air velocity to assist in rack installation.
Product: M79211

**Iris 100 Damper**
4-inch: M49D100
6-inch: M49D150

**Rack Status Monitor Kit**
Install on existing rack for continuous airflow monitoring.
Product: C79355

**Fail Safe Fan**
Provide emergency ventilation in the event of extended HVAC failure.
Product: C80011

**Individual Parts**
- Display Unit: C79355DU
- Sensor Tube Unit: C79355ST
Rack Accessories

**Opti Rack Light Kit, Frosted Lens**
Provides even, orthogonal lighting across the full height of a rack with no need to light an entire room. Powered by rechargeable battery or AC adapter. Compatible with Optimice, Optirat, Optirat GenII, and Optirat Plus.
With Battery: C80050FRS
With AC Adapter: C80051FRS

**Red Cover Lens:**
Attaches to light bar to produce red light.
Product: C43801RED

**Rack Exterior Spacers**
The side and rear spacers automates rack spacing.
Rear Spacer: C89SPACER1
Side Spacer: C89SPACER2

**Vibration Isolator Pads**
Place one pad beneath each of the rack’s casters to drastically reduce transmitted vibration from construction or large equipment. Two per package.
Product: C49200

**Opti Rack Cover**
Protective cover for carousel racks.
Product: C49163
Venting & Ducting

**V-Duct Box Assembly**
Available with 4- or 6-inch connection.
- 4-inch Product: M79V42
- 6-inch Product: M79V62

**V-Duct Box with Iris Damper Assembly**
Available with 4- or 6-inch connection.
- 4-inch Product: M79V42D
- 6-inch Product: M79V62D

**Ceiling Drop Assembly**
Connect a single exhaust hose to a 4- or 6-inch ceiling drop.
- 4-inch Product: M79230
- 6-inch Product: M79235

**Universal Exhaust Box Assembly**
4-inch Product: M79244
6-inch Product: M79264

**Universal Exhaust Box with Iris Damper Assembly**
4-inch Product: M79244D
6-inch Product: M79264D

**Exhaust Adapter Plate**
The adapter plate is custom-designed to fit your ventilation requirements in any animal room with an exhaust grill. Simply relay the dimensions to your local rep or directly to Animal Care Systems, and a price quote will be generated.
- Product: M79260
Venting & Ducting

**High-temperature 6-foot Flex Hose Assembly**
Standard hose shipped with all racks.
Product: M79H06

**High Temperature Custom Length Flex Hose; 25 Feet, Max Length**
Replace last two digits (represented by XX, below) in part number with desired length in feet.
Product: M79HXX

**Stainless Steel Hose Clamp, 3-inch**
Fits standard rack hoses.
Product: M21041

**Light Weight Flex Hose Assembly**
Not suitable for sterilization.
- 5-foot Product: M79056P
- 10-foot Product: M79055P
- 15-foot Product: M79051P
- 20-foot Product: M79052P

**Hose Connector Fitting, 3-inch**
Fits standard rack hoses.
Product: M21050GFN

**Optihose Guide Bracket**
Guides and holds exhaust hoses neatly in place alongside rack for exhaust drops not in the ceiling.
Product: C40601
**Venting & Ducting**

**Ceiling Flange**
Standard hose connection on Animal Care Systems racks.
Product: M21061GFN

**Ceiling Flange Cap**
Cap open ceiling flange connection(s) on a rack when fewer exhaust hoses are used.
Product: M21080GFN

**Load Simulator Cap**
Cap open exhaust hose connections to simulate exhaust system load when a rack is absent.
Product: M21081GFN

**Ceiling Drop Adapter**
Bare, unmodified.
Product: M21090GFN
Quatro Air

Quatro Air is a self-contained canister ventilator intended for use with an Animal Care Systems rack when room exhaust ventilation is not available. Each Quatro Air unit is fitted with either single or dual exhaust hose thimble connectors.

As air is drawn through the Quatro Air system, it undergoes three stages of filtration before being released back into the room through the louvers near the bottom. A pre-filter removes larger particles from the air, and a HEPA filter removes remaining smaller particles, rendering the air mechanically pure. Finally, an activated carbon bed removes odorous chemicals that may also represent a significant breathing hazard to personnel and animals.

The Quatro Air unit has three operation speeds and can move up to 120 cubic feet of air per minute with sufficient static pressure needed to ventilate an Animal Care Systems rack.

Quatro Air Filtration Unit

120V System: M83100
220V System: M83101

Replacement Filters

99.97% HEPA Filter: M831F074
Filter Pads (6 pack): M831F069-220
Filter Pads (12 pack): M831F069-71
Pleated Pre-Filter (6 pack): M831F071

Carbon Module

Product: M831F072-GPC

Bulk Chemical Media

Good for approximately 3-4 refills of an F072 module.
Product: M831NC-GPC