Highest Cage Density in the Industry
Based on patented direct exhaust ventilation technology, 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.

<table>
<thead>
<tr>
<th>Optimice Rack</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inches (mm)</td>
<td>Pounds (kg)</td>
</tr>
<tr>
<td></td>
<td>Depth</td>
<td>Width</td>
</tr>
<tr>
<td>Full rack</td>
<td>40.5</td>
<td>40.5</td>
</tr>
<tr>
<td>with card holders</td>
<td>(1029)</td>
<td>(1029)</td>
</tr>
<tr>
<td>Full rack</td>
<td>39.7</td>
<td>39.7</td>
</tr>
<tr>
<td>no card holders</td>
<td>(1001)</td>
<td>(1001)</td>
</tr>
<tr>
<td>Empty rack</td>
<td>33.7</td>
<td>39.7</td>
</tr>
<tr>
<td></td>
<td>(856)</td>
<td>(1001)</td>
</tr>
</tbody>
</table>

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®

Optimice Bare Rack Assembly—No Cages
Product: C77200

Rack Capacity:
10 Platters
10 Cages/Platter
100 Cages

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

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

With External Water Bottles:
Polysulfone: C89104PFF
Polysulfone Smoke: C89104SFF
Polycarbonate: C89104MFF

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

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

Rack options may be ordered only with rack assemblies.
Optimice Basic Cage Assembly
Includes internal water bottle and standard feeder.
Polysulfone: C79100PFF
Polysulfone Smoke: C79100SFF
Polycarbonate: C79100MFF

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

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

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

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

**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 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

**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

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

**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: C78250PBPDFF

**Basic Red Polycarbonate**
Add to C79100MRED complete cage assembly or basic rack assembly.
Product: C78250MREDBPD

**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: C78252MREDBPDFF

**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: C78252PBPDFF

**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: C78251PBPDFF

**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
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

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
**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.
### Optimice®

#### 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

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

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

#### 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

#### Optimice Auto-Water 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

#### Optimice Cage Base Skid
- Edstrom Product: M45050
- SE Lab Product: C45021
Standard Cage Top Assembly
Polysulfone: C79290P
Polysulfone Smoke: C79290S
Polycarbonate: C79290M

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

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

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

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®

Optimice Flat Filter Assembly
Product: C79070

Filter Flange
Product: C40135

Filter Seal Clip
Product: C79070SLCG
with

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
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

Bottle without Cap
Product: C79132PRED

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

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

Bottle without Cap
Polysulfone: C79132P
Polysulfone Smoke: C79132S
Polycarbonate: C79132M

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

### 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 With Scruffing Grid
Product: C40103SG

### Optimice Standard Feeder
All stainless with scruffing grid.
Capacity: 510 cubic centimeters (31 cubic inches)
Product: C40101SG

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

### 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 With Scruffing Grid
Product: C40103SG

### 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 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 Adapter Kit
Product: C79252

Stainless Steel Cage Card Holder
Product: C40252

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 Adapter Kit
Product: C79252

Stainless Steel Cage Card Holder
Product: C40252

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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

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

**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

**DomicelISLE**
3-inch-high, polycarbonate construction; sterilizable.
Single Product: C43810
Box of 50: C43810-50
Box of 250: C43810-250

**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