



**Rodent & IVC - Ventilated Systems**



# ALTERNATIVE DESIGN



[alternativedesign.com/rodent-ivc](http://alternativedesign.com/rodent-ivc)

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# Rodent & IVC - Ventilated Systems



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For more information about the features and specs, including part numbers and product dimensions on each individual product, visit our website. [alternativedesign.com](http://alternativedesign.com)

**Overview**

**Features**

**Specs**

**Care**

**Warranty**





**Part Numbers:**

MACS-AHU-TWR - (110 volt)  
 MACS-AHU-TWR-220 - (220 volt)

**Standard Features Include:**

- Balanced airflow
- Serviceable plug and play electronics
- LED touch screen display
- Screen saver settings with custom dimming
- Mouse cage capacity of 320 cages (at lower air changes per hour)
- New fan technology
- Noise level below 46db
- Local on screen error code diagnostics
- Filter loading indicators
- Integral molded-in pen holder
- Connects to building exhaust
- Display air changes per hour (ACH)
- Supplies 30-80 air changes per hour selectable by cage type used
- Both positive isolation or negative containment operation
- Displays temperature and humidity readings of supply and exhaust
- Historic performance data collection on internal memory and external USB drive – chartable reporting data
- Energy efficient as it uses as little as 30 watts of energy consumption
- Easy access to pre-filters
- Connect to wired building maintenance systems including remote alarm systems
- Available in both standard 110V or 220V
- Made specifically for the Rat, Large Mouse and Hamster Ventilated Rack System



**This model includes all the features of the standard model plus the following:**

- Alarm with Text (SMS) Notifications to Mobile Device
- *Safe Guard* Wireless Monitoring Capability
- Remote Error Code Diagnostics
- Can be upgraded to the premium model onsite

**Part Numbers:**

MACS-AHU-TWR-DAB - (110 volt)  
 MACS-AHU-TWR-DAB-220 - (220 volt)



**This model includes all the features of the standard & enhanced models plus the following:**

- Safety Battery Type Identification Sensor
- Programmable Battery Back-Up Optimize Mode
- Extended Battery Back-Up Capability - Minimum 12hrs @ Max AC/H (80)

**Part Numbers:**

MACS-AHU-TWR-BB-WL - (110 volt)

MACS-AHU-TWR-BB-WL-220 - (220 volt)



**Standard Features Include:**

- Accessory kit to connect the Halcyon Air Tower to the Modular Animal Caging System (M.A.C.S.)

Photo Not Available



**Part Numbers:**

MACS-TWR-MRA - (Multiple Racks)

MACS-TWR-SRA - (Single Rack)



**Part #** – MACS-AHU-S-DE

**Standard Features Include:**

- Versatile top-mounted air handling unit that works with all frames and cages on the Modular Animal Caging System (M.A.C.S.)
- Minimize your initial investment with this single fan with direct exhaust configuration
- Heat, moisture and odor from the rack animals are exhausted directly into the building HVAC duct system
- Provides greatest control & balance for the supply fan to maintain desired positive or negative mode and consistent air changes per hour (ACH) to cages
- No need to re-balance HVAC system if you remove a rack from service
- Easy touch screen programming to change air changes per hour (ACH) and from positive to negative pressure
- Easy access to both pre-filters and HEPA filters
- Visual and audible alarms if insufficient airflow is detected
- Plug-in port for remote monitoring capability
- On/Off switch with a removable power cord socket
- Air handling unit and HEPA filters are not autoclavable
- Made specifically for the Rat, Large Mouse and Hamster Ventilated Rack System



**Part #** – MACS-AHU-TOP

**Standard Features Include:**

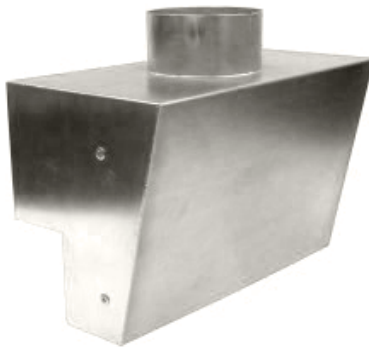
- Versatile top-mounted air handling unit that works with all frames and cages on the Modular Animal Caging System (M.A.C.S.)
- Provides greatest control & balance between the supply & exhaust fans to maintain desired positive or negative mode and consistent air changes per hour (ACH) to cages
- No need to re-balance HVAC system if you remove a rack from service
- Exhaust fan automatically shuts off if the supply fan fails so the rack will not go to negative pressure
- Easy touch screen programming to change air changes per hour (ACH) and from positive to negative pressure
- Easy access to both pre-filters and HEPA filters
- Visual and audible alarms if insufficient airflow is detected
- Plug-in port for remote monitoring capability
- On/Off switch with a removable power cord socket
- Air handling unit and HEPA filters are not autoclavable
- Made specifically for the Rat, Large Mouse and Hamster Ventilated Rack System



**Standard Features Include:**

- For use with the Gentle-Air caging system from Alternative Design
- Works with all Gentle-Air caging systems, year 2000 model and newer

**Part #** – GA-EH-4



**Standard Features Include:**

- For use with the Flex-Air caging system from Alternative Design

**Part Numbers:**

FA-EH-4 - (4 inch)

FA-EH-6 - (6 inch)


**Standard Features Include:**

- For use with the Modular Animal Caging System (M.A.C.S.) from Alternative Design
- Includes PVC thimble and 5 foot hose
- Connect the M.A.C.S. air handling unit to the building HVAC exhaust

**Part #** – MAC-EH-PVC


**Standard Features Include:**

- HEPA filtered air
- Laminar air flow with low air velocity
- Durable, stainless steel construction
- Ultra quiet operation
- Easy to move on 5" stainless steel casters
- Main view panel made from a high strength polycarbonate material for durability and visibility

**Available Options:**

- Choose from two models – 5 ft. (60") or 6 ft. (72")

**Part #** – CCPS-82X34.25X69

**Standard Features Include:**

- Made from durable 304 stainless steel
- Includes 5" swivel casters with grease zerks, 2 with brakes
- Positive docking bar latch lifts opens for easy docking or removing of cages
- Drip chain to prevent cage flooding
- In-cage hanging feeders

**Part Numbers:**

Dura Cage  
SPCR49-71-PC-WB  
SPCR49-71-UD-WB

**Part Numbers:**

Uni Cage  
SPCR49-71-UPC-WB  
SPCR49-71-UUD-WB

**Designed for use with:**

mouse

**Standard Features Include:**

- Made from durable 304 stainless steel
- Includes 5" swivel casters with grease zerks, 2 with brakes
- Positive docking bar latch lifts opens for easy docking or removing of cages
- Drip chain to prevent cage flooding
- In-cage hanging feeders

**Part Numbers:**

Rat/Guinea Pig  
SPCR30-88-PC-WB  
SPCR30-88-UD-WB  
SPCR36-88-PC-WB  
SPCR36-88-UD-WB

**Part Numbers:**

Large Mouse/Hamster  
SPCR30-86-PC-WB  
SPCR30-86-UD-WB  
SPCR36-86-PC-WB  
SPCR36-86-UD-WB

**Designed for use with:**

large mouse



rat



hamster



guinea pig



**Standard Features Include:**

- Vertical uprights are made of 1" square tubing for greater strength from 304 stainless steel
- Shelves are made from 304 stainless steel

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth

**Part Number:**

SRF6-60x24x72  
 SRF5-60x24x72  
 SRF4-60x24x72

**Shelves:**

6  
 5  
 4

**Standard Features Include:**

- Vertical uprights are made of 1" square tubing for greater strength from 304 stainless steel
- Shelves are made from 304 stainless steel
- Assembly required
- Assembly adjusting bracket including a bolt plate, socket head screw and washers

**Available Options:**

- Additional shelving

**Part Number:**

SRA7-60x24x72  
 SRA6-60x24x72  
 SRA5-60x24x72  
 SRA4-60x24x72

**Shelves:**

7  
 6  
 5  
 4


**Standard Features Include:**

- Holds up to 10 of the Ultra-Air 502/520 cages
- Hands-free cage latching design
- Orange indicator appears at the end of the left bracket when the cage is docked properly
- Stack body is made of extruded aluminum with brackets molded from composite resin for durability
- Autoclavable

**Part Numbers:**

MAC-UA-V10-EXT - (10 high)

MAC-UA-V9-EXT - (9 high)

**Designed for use with:**


mouse


**Standard Features Include:**

- Holds up to 10 Flex-Air style mouse cages
- High visibility yellow cage latches make it easy to confirm which cages are properly docked
- Stack body is made of extruded aluminum with brackets molded from composite resin for durability
- Autoclavable

**Part Numbers:**

MAC-FA-V10 - (10 high)

MAC-FA-V9 - (9 high)

MAC-FA-V8 - (8 high)

**Designed for use with:**


mouse



Photo Not Available



### Standard Features Include:

- Holds up to 10 standard size mouse cages with either a 65 square inch floor or 75 square inch floor
- Works with multiple cage types including the Max 75, Dura Cage or Uni Cage
- Stack body is made of extruded aluminum with brackets molded from composite resin for durability
- High visibility yellow cage latches
- Autoclavable

### Part Numbers:

MAC-GA-V10-6575-EXT - (10 high)

MAC-GA-V9-6575-EXT - (9 high)

MAC-GA-V8-6575-EXT - (8 high)

### Designed for use with:



mouse

### Ventilated Caging Systems



### Standard Features Include:

- Holds up to 7 standard size large mouse/hamster cages
- Has both a supply plenum side and an exhaust plenum
- Cage brackets are attached to the vertical stack and fold up for easy moving and storage
- Ends are open for easy cleaning
- Stack body is made of extruded aluminum with brackets molded from composite resin for durability
- Autoclavable

### Part Numbers:

MAC-LM-V7 - (7 high)

MAC-LM-V6 - (6 high)

### Designed for use with:



large mouse



hamster

**Standard Features Include:**

- Holds up to 6 standard size rat/guinea pig cages
- Has both a supply plenum side and an exhaust plenum
- Cage brackets are attached to the vertical stack and fold up for easy moving and storage
- Ends are open for easy cleaning
- Stack body is made of extruded aluminum with brackets molded from composite resin for durability
- Autoclavable

**Part Numbers:**

MAC-RV-V6 - (6 high)

MAC-RV-V5 - (5 high)

**Designed for use with:**

rat



guinea pig

**Standard Features Include:**

- Frame, plenums and wall made from 304 stainless steel
- Holds Flex-Air style mouse cages
- Operates in either positive pressure mode or negative pressure mode for containment
- Delivers around 30-40 air changes per hour (AC/H) to each cage
- Entire unit is autoclavable with the exception of the air handling unit, HEPA filters, and air supply hose

**Available Options:**

- Flex-Air 4-Cage P.I. Stationary Unit
- Flex-Air 10-Cage P.I. Stationary Unit
- Auto water – stainless steel manifold with fixed drinkers

**Part Numbers:**

FA-PI-04-UD-WB - (4-cage)

FA-PI-10-UD-WB - (10-cage)



### Standard Features Include:

- Made from 304 stainless steel
- Holds up to 24 Flex-Air style mouse cages with 12 cages per side
- Operates in either positive pressure mode or negative pressure mode for containment
- Delivers around 30-40 air changes per hour (AC/H) to each cage
- Removable top shelf serves as a work surface
- 5" casters, 2 with step brakes
- Entire cart and caging are autoclavable with the exception of the air handling unit, HEPA filters, and air supply hose
- On-board rechargeable battery for moving animals from one area to another
- Battery has transport and emergency modes – battery lasts

**Part #** – FA-PI-24-UD-WB

### Ventilated Caging Systems



### Standard Features Include:

- Made from 304 stainless steel
- Holds up to 24 Gentle-Air style cages with 12 cages per side
- Supplies positive pressure to the cages only
- Delivers around 65-75 air changes per hour (AC/H) to each cage
- Removable top shelf serves as a work surface
- 5" casters, 2 with brakes
- Entire cart and caging are autoclavable with the exception of the air handling unit, HEPA filters, and air supply hose
- On-board battery for moving animals from one area to another
- Battery has transport and emergency modes – battery lasts up to 24 hours in emergency mode

### Part Numbers:

GA-PI-24-M-UD-WB - (Max 75 Cage)

GA-PI-24-D-UD-WB- (Dura Cage)



**SOLACE  
ZONE**  
Thermal Neutral Zone Technology



**Part #** – GA-PI-32-M-UD-WB-HEAT

#### Standard Features Include:

- Only heated IVC rack in the industry
- Patent-pending technology
- Creates a thermal neutral zone within each individual cage
- Help alleviate cold stress in your rodent research models
- Provides heated area and HEPA filtered ventilated air
- Unit holds up to 32 Gentle-Air style cages with 16 cages per side
- Control the temperature within each cage through the air handling unit

#### Available Options:

- Available as a stand-alone unit or an accessory for your existing M.A.C.S.® racks



**MACS**  
MODULAR ANIMAL CAGING SYSTEM



#### Part Number:

MAC-UA-F10W-8B

MAC-UA-F10W-7B

#### Cages:

80

70

#### Standard Features Include:

- Frame made from 304 stainless steel
- Holds between 70-80 Ultra-Air 502/520 mouse cages
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the shelf bracket for the air handling unit fans
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

#### Available Options:

- Available in both Dura Cage and Uni Cage designs
- Manual water with 16 oz Reduced Height water bottles
- Auto water – stainless steel manifold with fixed drinkers from either Edstrom or Systems Engineering Lab Group



**MACS**  
MODULAR ANIMAL CAGING SYSTEM

**Part Number:**

MAC-UA-F10W-8

MAC-UA-F10W-7

**Cages:**

80

70

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 70-80 additional Ultra-Air 502/520 mouse cages when connected to a main frame for air supply
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the upper plenums coupling which connects the expansion frame plenums to the main frame plenums for supply and exhaust air to the cages
- Also includes the plenums coupling support
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Flex-Air Principal Investigator 4-Cage P.I. Stationary Unit
- Auto water – stainless steel manifold with fixed drinkers from either Edstrom or Systems Engineering Lab Group

## Ventilated Caging Systems

**MACS**  
MODULAR ANIMAL CAGING SYSTEM

**Part Number:**

MAC-GA-F10W-8-B

MAC-GA-F10W-7-B

MAC-GA-F10W-6-B

**Cages:**

80

70

60

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 60-80 Gentle-Air style mouse cages including Dura Cage, Uni Cage or Max 75 Cage
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the shelf bracket for the air handling unit fans
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

**Part Number:**

MAC-GA-F10W-8  
 MAC-GA-F10W-7  
 MAC-GA-F10W-6  
 MAC-GA-F10W-5  
 MAC-GA-F10W-4  
 MAC-GA-F10W-3

**Cages:**

80  
 70  
 60  
 50  
 40  
 30

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 30-80 additional Gentle-Air style mouse cages when connected to a main frame for air supply
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the upper plenums coupling which connects the expansion frame plenums to the main frame plenums for supply and exhaust air to the cages
- Also includes the plenums coupling support
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

**Part Number:**

MAC-FA-F10W-7-B  
 MAC-FA-F10W-6-B

**Cages:**

70  
 60

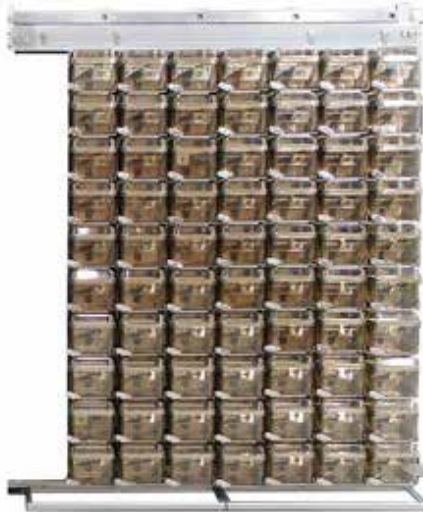
**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 50-70 Flex-Air mouse cages
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the shelf bracket for the air handling unit fans
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available





**Part Number:**

MAC-FA-F10W-7  
MAC-FA-F10W-6

**Cages:**

70  
60

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 20-70 additional Flex-Air mouse cages when connected to a main frame for air supply
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the upper plenums coupling which connects the expansion frame plenums to the main frame plenums for supply and exhaust air to the cages
- Also includes the plenums coupling support
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

Ventilated Caging Systems



**Part Number:**

MAC-RV-F6W-5-MR-B  
MAC-RV-F6W-5-MRS-B  
MAC-RV-F6W-4-MR-B

**Cages:**

30  
30  
24

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 24-30 rat/guinea pig cages
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the shelf bracket for the air handling unit fans
- Available in your choice of 2 cage stack heights – 6 or 5 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-RV-F6W-5-MR  
 MAC-RV-F6W-4-MR  
 MAC-RV-F6W-3-MR  
 MAC-RV-F6W-2-MR

**Cages:**

30  
 24  
 18  
 12

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 12-30 additional rat/guinea pig cages when connected to a main frame for air supply
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the upper plenums coupling which connects the expansion frame plenums to the main frame plenums for supply and exhaust air to the cages
- Also includes the plenums coupling support
- Appropriate hardware for installation is included
- Available in your choice of 2 cage stack heights – 6 or 5 high
- Also includes the plenums coupling support
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-LM-F7W-5-MR  
 MAC-LM-F7W-5-MRS  
 MAC-LM-F7W-4-MR  
 MAC-LM-F7W-3-MR  
 MAC-LM-F7W-2-MR

**Cages:**

35  
 35  
 28  
 21  
 14

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 14-35 large mouse/hamster cages
- Frame assembly has an upper mounting rail with brackets to hold the upper plenums
- Lower mounting rail holds the cage stack bottom support
- Protective bumper rail on frame
- Frame includes upper main supply and exhaust plenums
- Assembly includes the shelf bracket for the air handling unit fans
- Appropriate hardware for installation is included
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-UA-F10S-8  
MAC-UA-F9S-8  
MAC-UA-F10S-7  
MAC-UA-F9S-7  
MAC-UA-F8S-8  
MAC-UA-F8S-7

**Cages:**

80  
80  
70  
63  
64  
56

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 56-80 Ultra-Air 502/520 mouse cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

Ventilated Caging Systems



**Part Number:**

MAC-GA-F10S-8  
MAC-GA-F9S-8  
MAC-GA-F10S-7  
MAC-GA-F8S-8  
MAC-GA-F10S-6  
MAC-GA-F8S-6

**Cages:**

80  
72  
70  
64  
60  
48

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 48-80 Gentle-Air style mouse cages including Dura Cage, Uni Cage or Max 75 Cage
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-FA-F10S-7  
 MAC-FA-F10S-6  
 MAC-FA-F8S-7  
 MAC-FA-F9S-6  
 MAC-FA-F10S-5  
 MAC-FA-F8S-5

**Cages:**

70  
 60  
 56  
 54  
 50  
 40

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 40-70 Flex-Air mouse cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-LM-F7S-6  
 MAC-LM-F6S-6-MR  
 MAC-LM-F6S-5-MR

**Cages:**

42  
 30  
 25

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 25-42 large mouse/hamster cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- Available in your choice of 2 cage stack heights – 7 or 6 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-RV-F6S-6-MR  
 MAC-RV-F6S-5-MR  
 MAC-RV-F5S-6-MR  
 MAC-RV-F5S-5-MR

**Cages:**

36  
 30  
 30  
 25

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 25-36 rat/guinea pig cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- 

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available



**Part Number:**

MAC-UA-F10D-16  
 MAC-UA-F9D-16  
 MAC-UA-F10D-14  
 MAC-UA-F8D-16  
 MAC-UA-F9D-14  
 MAC-UA-F8D-14

**Cages:**

160  
 144  
 140  
 128  
 126  
 112

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 112-160 Ultra-Air 502/520 mouse cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- 

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

**Part Number:**

MAC-GA-F10D-16  
 MAC-GA-F9D-16  
 MAC-GA-F10D-14  
 MAC-GA-F8D-16  
 MAC-GA-F9D-14  
 MAC-GA-F10D-12

**Cages:**

160  
 144  
 140  
 128  
 126  
 120

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 80-160 Gentle-Air style mouse cages including Dura Cage, Uni Cage or Max 75 Cage
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

**Part Number:**

MAC-FA-F10D-14  
 MAC-FA-F9D-14  
 MAC-FA-F10D-12  
 MAC-FA-F8D-14  
 MAC-FA-F10D-10

**Cages:**

140  
 126  
 120  
 112  
 100

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds between 80-140 Flex-Air mouse cages
- Frame includes upper main supply and exhaust plenums
- Plenums are made from 22 gauge stainless steel and are removable for cleaning
- Frame sits on 4 rugged 5" casters with zerks, 2 of which have brakes
- Frames and the plenum are both autoclavable
- One round tube handle on each end within frame for hand protection
- Available in your choice of 3 cage stack heights – 10, 9 or 8 high

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

**Part Number:**

MAC-FA-F10R-12

MAC-FA-F9S-12

MAC-FA-F8S-12

**Cages:**

120

108

96

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds up to 120 Flex-Air mouse cages
- Unit rotates 180 degrees in either direction with a 58" turning diameter
- 5" casters with a foot brake to secure the unit in place
- Fits into tight spaces within rooms to increase cages per square feet
- From one location, the laboratory technician can access all 120 cages
- Fits through doors 42" or wider
- Frame is autoclavable

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

## Ventilated Caging Systems

**Part Number:**

MAC-GA-F10R-12

MAC-GA-F9S-12

MAC-GA-F8S-12

**Cages:**

120

108

96

**Standard Features Include:**

- Frame made from 304 stainless steel
- Holds up to 120 standard size mouse cages including Dura Cage, Uni Cage, Max 75 Cage and Ultra-Air 502/520 cages
- Unit rotates 180 degrees in either direction with a 58" turning diameter
- 5" casters with a foot brake to secure the unit in place
- Fits into tight spaces within rooms to increase cages per square feet
- From one location, the laboratory technician can access all 120 cages
- Fits through doors 42" or wider
- Frame is autoclavable

**Available Options:**

- Additional shelving
- Available with auto water
- Additional size units by length, height and/or depth are available

## Alternative Design Manufacturing & Supply

Whether it's an animal housing design to maximize your space usage, or material handling equipment to improve workflow efficiency, our commitment is to work closely with you to deliver the animal room solution that best meets your facility's space, needs, and budget.

### Warranty



Alternative Design Manufacturing & Supply offers a 5-year warranty on all stainless steel fabricated products. These products are warranted to be free from material and workmanship defects during this period. The warranty period will begin from either the date put into service, installation (if applicable), or 6 months from date of shipment, whichever occurs first.

- Individually Ventilated Caging (IVC) systems including rack frames and fabricated components
- All other stainless steel fabricated caging systems
- Fabricated material handling, storage and processing equipment made of stainless steel



Alternative Design offers a 2-year warranty on all Polysulfone plastic caging products and electrical components. These products are warranted to be free from material and workmanship defects during this period. The warranty period will begin from the date of delivery. Our Polysulfone products will have a 2-year prorated warranty\*. Please note – Polycarbonate caging is not recommended for autoclaving and any warranty will be voided if autoclaved.

- All electrical components
- Polysulfone plastic caging products or components

\* Plastic caging materials that show physical, chemical, or heat damage will not be covered under warranty.



Alternative Design offers a 1-year warranty on all other products. These products are warranted to be free from material and workmanship defects during this period. The warranty period will begin from the date of delivery unless otherwise stated.

- All other products manufactured or sold by Alternative Design Manufacturing & Supply

Should a failure occur within any of the the above listed time frames, Alternative Design will have the option to repair or replace the defective product(s), part(s), or component(s). This warranty is extended only to the original purchaser of the product and excludes damage due to abuse, misuse, as well as normal wear and tear. All non-warranty repairs will include a 90-day warranty from the date of delivery.

For more information on our industry-leading warranties, please contact Customer Service.

### Warranty Repair or Service

It is the goal of Alternative Design to provide a quality product with full service warranty support. Ask about Alternative Design's Performance Maintenance Agreement program. You may obtain warranty repair or service by contacting our Customer Service Department.