



Rodent & IVC - Ventilated Systems



Alternative Design
MANUFACTURING & SUPPLY

Proven Products. Creative Solutions.

Rodent & IVC - Ventilated Systems



Air Delivery Systems

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For more information about the features and specs, including part numbers and product dimensions on each individual product, scan the QR code to visit our website.

Overview

Features

Specs

Care

Warranty





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

Part Numbers:

MACS-AHU-TWR - (110 volt)

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

YouTube™
SCAN TO WATCH



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more info



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)

YouTube™
SCAN TO WATCH



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more info



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)

You Tube
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more info

Part Numbers:

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

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

Rack Accessory Kits

Air Delivery Systems



Standard Features Include:

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

Photo Not Available



Multiple Racks

scan here



more info

Single Rack

scan here



more info

Part Numbers:

MACS-TWR-MRA - (Multiple Racks)

MACS-TWR-SRA - (Single Rack)



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

Part # – MACS-AHU-S-DE



Dual Fan Supply & Exhaust Air Handling Unit



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

Part # – MACS-AHU-TOP





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



Flex-Air Exhaust Hood Assembly



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

Guardian Animal Transfer Station

Change Cage Station



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



Large Mouse/
Hamster



Rat/
Guinea Pig



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

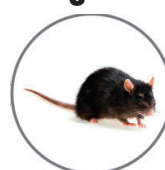
Part Numbers:

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

Vertical Cage Stack - Large Mouse/Hamster

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

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

Flex-Air P.I. Stationary Unit



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

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

Part # – FA-PI-24-UD-WB

Gentle-Air 24-Cage P.I. Mobile Unit



Dura Cage



Max 75 Cage



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

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



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 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

Part # – GA-PI-32-M-UD-WB-HEAT

Ultra-Air Wall Mount Main Frame

Ventilated Caging Systems



MACS
MODULAR ANIMAL CAGING SYSTEM



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

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 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

Part Number:

MAC-UA-F10W-8

MAC-UA-F10W-7

Cages:

80

70

Gentle-Air Wall Mount Main Frame

Ventilated Caging Systems



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

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 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

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

Flex-Air Wall Mount Main Frame



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

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 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

Part Number:

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

Cages:

70
60

Rat Wall Mount Main Frame



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

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 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

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

Large Mouse Wall Mount Expansion Frame



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

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 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

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 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

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 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

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

Large Mouse Single Sided Mobile Frame



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

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 25-36 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

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

Ultra-Air Double Sided Mobile Frame



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

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 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

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 80-140 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

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 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

Part Number:

MAC-FA-F10R-12
MAC-FA-F9S-12
MAC-FA-F8S-12

Cages:

120
108
96

Gentle-Air Rotary

Ventilated Caging Systems



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

Part Number:

MAC-GA-F10R-12
MAC-GA-F9S-12
MAC-GA-F8S-12

Cages:

120
108
96

Alternative Design Manufacturing & Supply

Where you get quality products and service for all your rodent & IVC needs.

Whether it's an animal housing design to maximize your space usage, or material handling & storage 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



Find more products for rodents in this catalog

- Plastic Caging
- Accessories



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 pro-rated 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.

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