

Providing Solutions To The HVAC Industry



Hurricane And AMCA Rated
Louver Product Catalog



Introduction

Aire Technologies is proud to present our line of air management and life safety products for integration into your HVAC system design, fabrication, or installation. You can expect from **Aire Technologies**, the same unrivaled engineering, manufacturing quality, and delivery expertise, along with the commitment to excellence and value for which the **DMI** name has been known for more than 40 years.

Some of the largest HVAC contractors select **Aire Technologies** as their partner for HVAC air management and life safety devices. This is because they respect the partnership and the added value ATI brings to their business! **Aire Technologies** goes the extra mile to deliver more than quality products; they deliver peace of mind and a commitment to excellence.

Behind each product stands an engineering and technical support staff to ensure you have the right product to meet the requirements of your design or installation, and a sales, marketing, manufacturing, and shipping team to get you what you need, **when you need it**.

Product Summary

HURRICANE AND AMCA RATED LOUVERS

Aire Technologies offers a variety of extruded aluminum louvers to provide fresh air intake or exhaust. The louvers are rated and licensed by AMCA and Miami-Dade County. The products are designed to meet the performance criteria specified by engineers and architects. A number of styles and configurations are available including stationary drainable and non-drainable blades, combination louver/dampers, gravity/backdraft style blades, flanges, and sleeves.

CERTIFICATIONS AND APPROVALS

Aire Technologies certifies the louvers shown here are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and complies with the requirements of the AMCA.

Standard Construction:

Material
Mill Finish 6063-T5 Aluminum

Profile
Channel Frame

Screen
Birdscreen

Note
All Louvers are built 1/4" under size both directions unless ordered actual size

Stationary

Extruded Aluminum Louvers



Model 245-SD

Frame And Blades:

Frame: Heavy gauge 2" deep x .081" thick
Blade: 45° drainable .081" thick spaced 3" apart

Sizes:

Minimum: 6"W x 6"H
Single-Section Maximum: 60"W x 96"H
96"W x 60"H



Model 445-SW

Frame And Blades:

Frame: Heavy gauge 4" deep x .081" thick
Blade: 45° non-drainable weather control .081" thick - spaced 4" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 84"W x 120"H
120"W x 84"H

Multisections Available



Model 436-SD

Frame And Blades:

Frame: Heavy gauge 4" x .081" thick
Blade: 36° drainable .081" thick spaced 3.25" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 84"W x 120"H
120"W x 84"H

Multisections Available



Model 438-SD

Frame And Blades:

Frame: Heavy gauge 4" deep x .081" thick
Blade: 38° drainable .081" thick spaced 3.5" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 84"W x 120"H
120"W x 84"H

Multisections Available



Model 638-SD

Frame And Blades:

Frame: Heavy gauge 6" deep x .081" thick
Blade: 38° drainable .081" thick spaced 4.75" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 84"W x 120"H
120"W x 84"H

Multisections Available

Performance Features:

Published performance ratings based on testing in accordance with AMCA Standard 500-L

Combination Louver/Dampers

Extruded Aluminum Louvers



Model 445-CW

Frame And Blades:

Frame: Heavy gauge 4" deep x .081" thick
Blade: 45° non-drainable weather control .081" thick - spaced 4" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 72"W x 120"H
Multisections Available



Model 438-CD

Frame And Blades:

Frame: Heavy gauge 4" deep x .081" thick
Blade: 38° drainable .081" thick spaced 3.5" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 72"W x 120"H
Multisections Available

Performance Features:

Published performance ratings based on testing in accordance with AMCA Standard 500-L



Model 638-CD

Frame And Blades:

Frame: Heavy gauge 6" deep x .081" thick
Blade: 38° drainable .081" thick spaced 4.75" apart

Sizes:

Minimum: 12"W x 12"H
Single-Section Maximum: 72"W x 120"H
Multisections Available

Standard Construction:

Material

Mill Finish 6063-T5 Aluminum

Profile

Channel Frame

Screen

Birdscreen

Note

All Miami-Dade County Louvers are built 1/2" under sized both directions unless ordered actual size

Severe Duty Louvers

Extruded Aluminum Louvers



Model DC-436

Hurricane Louver

Frame And Blades:

Frame: Heavy gauge 4" deep x .081" thick
 Blade: 36° drainable .081" thick - spaced 3.25" apart mechanically fastened and welded to jamba on backside of blade
 Bird Screen: Expanded metal
 Anchor Clips: 2" x 2" x 3/16" x 2" long if not sleeved
 2" x 2" x 3/16" continuous angle if sleeved

Sizes:

Minimum: 12"W x 12"H
 Single-Section Maximum: 84"W x 120"H
 120"W x 84"H

Multisections Available

Performance Features:

Published performance ratings based on testing in accordance with Miami-Dade County Large Missile Impact Test, Uniform Static Air Pressure Test, Cycle Wind Loading Test and AMCA Standard 500-L.



Model DC-638

Hurricane Louver

Frame And Blades:

Frame: Heavy gauge 6" deep x .081" thick
 Blade: 38° drainable .081" thick - spaced 4.75" apart mechanically fastened and welded to jamba on backside of blade
 Bird Screen: Expanded metal
 Anchor Clips: 2" x 2" x 3/16" x 2" long if not sleeved
 2" x 2" x 3/16" continuous angle if sleeved

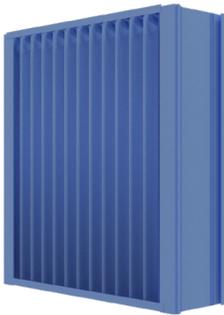
Sizes:

Minimum: 12"W x 12"H
 Single-Section Maximum: 84"W x 120"H
 120"W x 84"H

Multisections Available

Performance Features:

Published performance ratings based on testing in accordance with Miami-Dade County Large Missile Impact Test, Uniform Static Air Pressure Test, Cycle Wind Loading Test and AMCA Standard 500-L.



Model WDV-6

Wind-Driven Rain Louver

Frame And Blades:

Frame: Heavy Gauge 6" deep x .081" thick
 Blade: Vertical rain resistant style, .080 nominal wall thickness

Sizes:

Minimum: 120"W x 120"H
 Single-Section Area Not to Exceed 40 sq. ft.

Performance Features:

Published performance ratings based on testing in accordance with AMCA Standards 500-L and AMCA 550.

PRODUCTS ARE APPROVED BY THE FOLLOWING AGENCIES:



PRODUCTS MANUFACTURED BY MEMBERS OF THE SMART SHEET METAL WORKERS UNION



Product Survey

Hurricane and AMCA Rated Louvers

Information required for Louvers:

1. What is the required depth of the louver?
 - 2"
 - 4"
 - 6"
 - Other _____
2. What are the dimensions of the wall opening? W _____ X H _____
Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
3. Does the louver need to have drainable blades?
 - Yes
 - No
4. Does the louver require adjustable damper blades?
 - Yes
 - Manual Hand Quadrant
 - Electric Motor Actuation
 - No
5. Does the louver require a flange?
 - No Flange
 - Full Flange
 - Bottom Flange
6. Does the louver require a sleeve?
 - Yes
 - If Yes, Sleeve Length?
 - 8"
 - 10"
 - 12"
 - 14"
 - 16"
 - If Yes, Sleeve Gauge
 - 12GA
 - 14GA
 - 16GA
 - No
7. Is a mesh screen required?
 - No Screen
 - Bird Screen - Front or Back
 - Insect Screen - Front or Back
8. What ratings, if any, does the louver need to meet?
 - _____
9. What is the quantity needed?
 - _____

Additional information on all of our products may be found on our website: AireTechnologies.com

**Please direct all requests to our AtiOrders@AireTechnologies.com email



Providing Solutions To The HVAC Industry



Providing Solutions To The HVAC Industry



LIMITED WARRANTY
All Aire Technologies, Inc. products are warranted for a period of one (1) year from the date of delivery, under normal use and service, against defective materials or workmanship. Any implied warranties are also limited in duration to the one (1) year period. Any defect appearing more than one (1) year from date of delivery shall be deemed to be due to ordinary wear and tear. This warranty is void if the product has been damaged by unreasonable use, neglect, improper service or other causes not within our control or material or workmanship. Purchaser's rights under this limited warranty shall consist solely of requiring Aire Technologies, Inc. to repair, or to Aire Technologies Inc. a like replacement. To receive free of charge, P.O.D. factors, any defective items received at our factory within said year and determined by Aire Technologies, Inc. to be defective. The foregoing constitutes the sole and exclusive remedy of the purchaser and the exclusive liability of Aire Technologies, Inc., Monroeville, PA, 15146. Cover made under the jurisdiction of Local 12 Sheet Metal Workers International Association, Pittsburgh, PA.

Aire Technologies, Inc.

CAUTION
Dampers must be checked before installation, ensure Link whether horizontal or vertical to be a damper works.

VERT. DAMPER

INSTALL WITH ARROW UP

1. Label square in a workability manner.
2. If damper malfunctions notify our Agent immediately.
3. Refer to manufacturer's installation instructions.

Aire Technologies, Inc.

FOR USE IN STATIC SYSTEMS ONLY
MODEL # _____ DATE _____

Introduction

Aire Technologies is proud to present our line of air management and life safety products for integration into your HVAC system design, fabrication, or installation. You can expect from **Aire Technologies**, the same unrivaled engineering, manufacturing quality, and delivery expertise, along with the commitment to excellence and value for which the **DMI** name has been known for more than 40 years.

Some of the largest HVAC contractors select **Aire Technologies** as their partner for HVAC air management and life safety devices. This is because they respect the partnership and the added value ATI brings to their business! **Aire Technologies** goes the extra mile to deliver more than quality products; they deliver peace of mind and a commitment to excellence.

Behind each product stands an engineering and technical support staff to ensure you have the right product to meet the requirements of your design or installation, and a sales, marketing, manufacturing, and shipping team to get you what you need, **when you need it**.

Product Summary

FIRE DAMPERS

Fire Dampers are offered in two frame profiles: standard 4¼" and thinline 2"

Blades are of an interlocking, curtain style.

Fire Dampers are offered in three types:

Type A - in which the blades and frame are in the airstream

Type B - in which the blades are out of the airstream

Type C - in which the blades and frame are out of the airstream (100% Free Area)

Fire Dampers are offered in two mounting attitudes:

Vertical - mounted in horizontal duct run and where blade closure is via gravity

Horizontal - mounted in vertical duct run and where blade closure is spring facilitated

Fire dampers are UL 555 Classified and rated for 1½ hours or 3 hours. The dampers are activated via a heat responsive device known as a fusible link.

Fire dampers are offered for use in both static and dynamic systems

Static systems are those in which the system fans shut down during fire and smoke control.

Dynamic systems are those in which the system fans remain running during fire and smoke control.

In accordance with industry standard, fire dampers are undersized ¼".

Fire dampers are available in galvanized and stainless steel.

CERTIFICATIONS AND APPROVALS

Aire Technologies Fire Dampers have been approved by the New York City Department of Buildings MEA Division and by the California State Fire Marshal.

PRODUCTS ARE APPROVED BY THE FOLLOWING AGENCIES:



PRODUCTS MANUFACTURED BY MEMBERS OF THE SMART SHEET METAL WORKERS UNION



Standard Construction: Profiles

Standard Profile - 4 1/4" 22Ga 1 Piece Rollformed Frame

Thinline Profile - 2" 22Ga 1 Piece Rollformed Frame

Materials

Galvanized Steel - Standard
Stainless Steel - Optional

Orientations

Vertical or Horizontal Installations
Type C Round, Oval, or Rectangular Transitions

22Ga Optional Sleeves

12" Sleeve - Standard
8", 17", 20", or 24" - Optional

Fusible Links

165° Rated Link - Standard
212° Rated Link - Optional

Series 75

Static Fire Dampers - UL Classified UL 555 - 1 1/2 Hour Rating, Static for Use in Installations Rated 3 Hours or less



Type A

Blades
In Air-Stream

Vertical Sizes
4" x 4" to 60" x 60"
Multi-section
up to 120" x 120"

Horizontal Sizes
4" x 4" to 40" x 60"
Multi-section
up to 120" x 120"

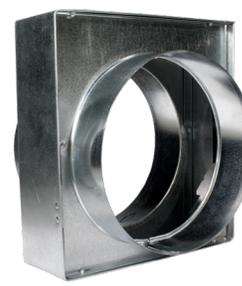


Type B

Blades
Out of Air-Stream

Vertical Sizes
4" x 3" to 60" x 54"
Multi-section
up to 120" x 114"

Horizontal Sizes
4" x 3" to 40" x 54"
Multi-section
up to 120" x 108"



Type C

Blades
Blades and Frame Out of Air-Stream 100% Free Area

Vertical Sizes
4" to 53"
Oval and Rectangular
6" x 6" to 58" x 52"

Horizontal Sizes
4" to 38"
Oval and Rectangular
6" x 6" to 38" x 52"

Series 05

Static Fire Dampers - UL Classified UL 555 - 3 Hour Rating, Static for Use in Installations Rated 3 Hours or Greater



Type A

Blades
In Air-Stream

Vertical Sizes
4" x 4" to 60" x 60"
Multi-section
up to 120" x 120"

Horizontal Sizes
4" x 4" to 40" x 60"
Multi-section
120" x 60" or 80" x 96"

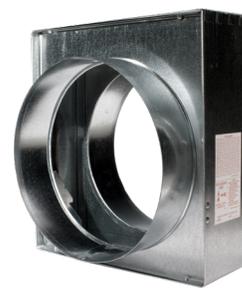


Type B

Blades
Out of Air-Stream

Vertical Sizes
4" x 3" to 60" x 54"
Multi-section
up to 120" x 114"

Horizontal Sizes
4" x 3" to 40" x 54"
Multi-section
120" x 54" or 80" x 84"



Type C

Blades
Blades and Frame Out of Air-Stream 100% Free Area

Vertical Sizes
4" to 53"
Oval and Rectangular
6" x 6" to 58" x 52"

Horizontal Sizes
4" to 38"
Oval and Rectangular
6" x 6" to 38" x 52"

Series 65

Thinline Static Fire Dampers - UL Classified UL 555 - 1 1/2 Hour Rating, Static for Use in Installations Rated 3 Hours or less



Type A

Blades
In Air-Stream

Vertical Sizes
4" x 4" to 48" x 49"

Horizontal Sizes
4" x 4" to 36" x 36"



Type B

Blades
Out of Air-Stream

Vertical Sizes
4" x 3" to 48" x 41"

Horizontal Sizes
4" x 3" to 36" x 30"

Series 95

Thinline Static Fire Dampers - UL Classified UL 555 - 3 Hour Rating, Static for Use in Installations Rated 3 Hours or Greater



Type A

Blades
In Air-Stream

Vertical Sizes
4" x 4" to 48" x 49"



Type B

Blades
Out of Air-Stream

Vertical Sizes
4" x 3" to 48" x 41"

Standard Construction: Profiles

Standard Profile - 4¼" 22Ga 1 Piece Rollformed Frame
 Thinline Profile - 2" 22Ga 1 Piece Rollformed Frame
 Dynamic for Installation in Systems Where Fans Remain Running During Fire and Smoke Control

Materials

Galvanized Steel - Standard
 Stainless Steel - Optional

Orientations

Vertical or Horizontal Installations
 Type C Round, Oval, or Rectangular Transitions

22Ga Optional Sleeves

12" Sleeve - Standard
 8", 17", 20", or 24" - Optional

Fusible Links

165° Rated Link - Standard
 212° Rated Link - Optional

Series 77

Dynamic Fire Dampers - UL Classified UL 555 - 1½ Hour Rating, Dynamic for Use in Installations Rated 3 Hours or less



Type A

Blades

In Air-Stream

Vertical Sizes

4" x 4" to 36" x 36"

Horizontal Sizes

4" x 4" to 24" x 24"

Airflow Pressure Ratings

Airflow Pressure Ratings:
 Up to 3,000 FPM at 4" W.G.
 See Data Sheet for Details



Type B

Blades

Out of Air-Stream

Vertical Sizes

4" x 3" to 36" x 32"

Horizontal Sizes

4" x 3" to 24" x 21"

Airflow Pressure Ratings

Airflow Pressure Ratings:
 Up to 3,000 FPM at 4" W.G.
 See Data Sheet for Details



Type C

Blades

Blades and Frame Out of Air-Stream 100% Free Area

Vertical Sizes

4" to 31"

Oval and Rectangular
 6" x 6" to 34" x 31"

Horizontal Sizes

4" to 20"

Oval and Rectangular
 6" x 6" to 22" x 20"

Series 99

Dynamic Fire Dampers - UL Classified UL 555 - 3 Hour Rating, Dynamic for Use in Installations Rated 3 Hours or Greater



Type A

Blades

In Air-Stream

Vertical Sizes

4" x 4" to 36" x 36"

Horizontal Sizes

4" x 4" to 24" x 24"

Airflow Pressure Ratings

Airflow Pressure Ratings:
 Up to 3,000 FPM at 4" W.G.
 See Data Sheet for Details



Type B

Blades

Out of Air-Stream

Vertical Sizes

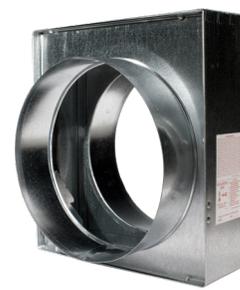
4" x 4" to 36" x 32"

Horizontal Sizes

4" x 4" to 24" x 21"

Airflow Pressure Ratings

Airflow Pressure Ratings:
 Up to 3,000 FPM at 4" W.G.
 See Data Sheet for Details



Type C

Blades

Blades and Frame Out of Air-Stream 100% Free Area

Vertical Sizes

4" to 31"

Oval and Rectangular
 6" x 6" to 34" x 31"

Horizontal Sizes

4" to 20"

Oval and Rectangular
 6" x 6" to 22" x 20"

Series 61

Dynamic Thinline Fire Dampers - UL Classified UL 555 - 1½ Hour Rating, Dynamic for Use in Installations Rated 3 Hours or less



Type A

Blades

In Air-Stream

Vertical Sizes

4" x 4" to 24" x 24"

Horizontal Sizes

4" x 4" to 12" x 12"



Type B

Blades

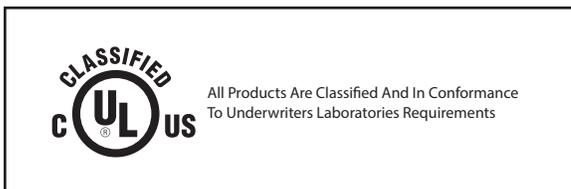
Out of Air-Stream

Vertical Sizes

4" x 4" to 24" x 20"

Horizontal Sizes

4" x 4" to 4" x 9"



CSFM Numbers:

Series 75 and 05: 3225-1650:0107

Thinline Models 65 and 95: 3225-1650:0107

Product Survey

Fire Dampers

Information required for Fire Dampers:

1. Are these dampers to be installed in a system in which the fans continue to run during fire and smoke control?
 - Yes (Dynamic)
 - No (Static)
2. Are these dampers to be installed in ducts where they penetrate a:
 - Wall (Ductwork running horizontal)
 - Floor (Ductwork running vertical)
3. What is the fire rating of the partition? _____
4. Are there any dimensional restrictions in the partition that might impact the profile (thickness) of the damper's frame?
 - Yes
 - No
5. What are the duct dimensions? W _____ X H* _____
Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
** The number of blades increases with damper height.*
6. The damper's blades are to be:
 - In the air stream (Type A)
 - Out of the air stream (Type B)
7. The whole appliance, blades AND frame, are to be out of the air stream (100% free area):
 - Yes (Type C may have round, oval, or rectangular collars)
 - No
8. What fusible link temperature is required?
 - 165°
 - 212°
9. Are there any requirements for a product manufactured in stainless steel?
 - Yes
 - No
10. Will sleeves be factory or field installed?
 - Factory
 - Field

If factory, what is the length of sleeve required?

 - 8"
 - 12"
 - 17"
 - 20"
11. Retaining angles to be supplied from:
 - Factory
 - Field

Additional information on all of our products may be found on our website: AireTechnologies.com

**Please direct all requests to our AtiOrders@AireTechnologies.com email



Providing Solutions To The HVAC Industry



Providing Solutions To The HVAC Industry

Introduction

Aire Technologies is proud to present our line of air management and life safety products for integration into your HVAC system design, fabrication, or installation. You can expect from **Aire Technologies**, the same unrivaled engineering, manufacturing quality, and delivery expertise, along with the commitment to excellence and value for which the **DMI** name has been known for more than 40 years.

Some of the largest HVAC contractors select **Aire Technologies** as their partner for HVAC air management and life safety devices. This is because they respect the partnership and the added value ATI brings to their business! **Aire Technologies** goes the extra mile to deliver more than quality products; they deliver peace of mind and a commitment to excellence.

Behind each product stands an engineering and technical support staff to ensure you have the right product to meet the requirements of your design or installation, and a sales, marketing, manufacturing, and shipping team to get you what you need, **when you need it.**

Product Summary

FIRE AND LEAKAGE RATED DAMPERS

Aire Technologies offers a variety of leakage rated dampers including Combination Fire & Smoke Dampers, Smoke Dampers, and Air Control Dampers. Smoke Dampers and Combination Fire & Smoke Dampers are available in three leakage ratings: Class I (ultra low leakage), Class II (low leakage), or Class III (leakage). ATI Smoke Dampers are UL 555S rated. The Combination Fire & Smoke Dampers are UL 555 & 555S rated for 1½ hours or 3 hours at 250° or 350°. Combination Fire & Smoke Dampers are provided in factory installed sleeves. The actuator may be mounted internally or externally.

CERTIFICATIONS AND APPROVALS

Aire Technologies Combination Fire and Smoke Dampers have been approved by the California State Fire Marshal and by the Texas Department of Insurance.



Series 10 and 30 - CSFM BML Listing No. 3235-1650:0108

Series 20 - CSFM BML Listing No. 3230-1650:0109

Series 40 - CSFM BML Listing No. 3235-1650:0500

PRODUCTS ARE APPROVED BY THE FOLLOWING AGENCIES:



PRODUCTS MANUFACTURED BY MEMBERS OF THE SMART SHEET METAL WORKERS UNION



Standard Construction:	Leakage Classes Class 1 - Ultra-Low Class 2 - Low	Materials Galvanized Steel	Orientations Vertical or Horizontal Installations	22Ga Optional Sleeves 17" Sleeve - Standard 20" or 24" - Optional	Temperature Ratings 250° Rated - Standard 350° Rated - Optional	Thermal Disk Ratings 165° - Standard 212° - Optional
-------------------------------	--	--------------------------------------	---	--	--	---

Series 10

Fire And Smoke Damper - UL Classified UL 555 and 555S - 1½ Hour Rating, for Use in Installations Rated Less Than 3 Hours



Sizes

Single-Section up to 36" x 48"
Multi-Section up to 144"x48"

Blades

16Ga Galvanized 3 "V" Formed for Rigidity
Opposed Operation
Double Yoke Kneelock for Increased Stability

Airflow Pressure Ratings

2,000 FPM at 4" W.G. Maximum

Options

Rectangle, Round, Oval or Special Transitions
External or Internal Electric Actuator

Series 30

Fire And Smoke Damper - UL Classified UL 555 and 555S - 3 Hour Rating, for Use in Installations Rated 3 Hours or Greater



Sizes

Single-Section up to 36" x 36"

Blades

16Ga Galvanized 3 "V" Formed for Rigidity
Opposed Operation
Double Yoke Kneelock for Increased Stability

Airflow Pressure Ratings

2,000 FPM at 4" W.G. Maximum

Options

Rectangle, Round, Oval or Special Transitions
External or Internal Electric Actuator

Series 40

Corridor Damper - UL Classified UL 555 and 555S - 1 Hour Rating



Uses

Where Air Ducts Penetrate or Terminate at Openings in the Ceilings of Interior Corridors

Sizes

Single-Section up to 24" x 24"

Blades

16Ga Galvanized 3 "V" Formed for Rigidity
Opposed Operation
Double Yoke Kneelock for Increased Stability

Airflow Pressure Ratings

2,000 FPM at 4" W.G. Maximum

Options

Rectangle, Round, Oval or Special Transitions
External or Internal Electric Actuator

Standard Construction:**Materials**

Galvanized Steel

Orientations

Vertical or Horizontal Installations

22Ga Optional Sleeves12" Sleeve - Standard
8", 17", 20" or 24" - Optional**Temperature Ratings**250° Rated - Standard
350° Rated - Optional**Temperature Ratings**250° - Standard
350° - Optional

Series 20

Smoke Damper - UL Classified UL 555S

**Standards**

NFPA Standard 90A ICC Building Codes

Sizes

Single-Section up to 36" x 48"

Multi-Section: Leakage Class 1 Ultra-Low: 108" x 48"

Leakage Class 2 Low: 144" x 48"

Airflow Pressure Ratings

2,000 FPM at 4" W.G. Maximum

Series 80

Air Control Damper

**Standard Profile**

4¼" 22Ga 1 Piece Rollformed Frame

Sizes

Single-Section Sizes From 8" x 8" to 36" x 48"

Frame

16Ga Galvanized Steel 5" x 1" Channel Construction with Die-Formed Corner Gussets

Blades

16Ga Galvanized 3" V" Formed for Rigidity

Opposed Closed Action

Bearings

Sintered Bronze Oil Impregnated or Non-Metallic Celcon® Acetal Plastic

Axles

½" Square Zinc Plated Steel

Linkage

Zinc Plated Steel Concealed in the Channel Frame

Optional Components

Manual Hand Quad Regulator (Shipped Loose)

Blade and Jamb Seals

Extended Jack Shafts:

4" (Series 80)

6" (Series 81)

11" (Series 82)

** Consult Aire Technologies for Factory Installed Actuator*Series 10, 20, 30, and 40 Are Classified And In Conformance
To Underwriters Laboratories Requirements

Product Surveys

Leakage Rated Dampers

Information Required for Combination Fire and Smoke Dampers:

1. What leakage class is required?
 - Class I Ultra-Low Leakage
 - Class II Low Leakage
2. What is the fire rating of the partition?
 - 1½ Hours
 - 3 Hours
 - 1 Hour Corridor Ceiling
3. What temperature rating do you require?
 - 250°F
 - 350°F
4. What are the duct dimensions? W ____ X H ____
Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
5. Does the damper require a transition?
 - Round
 - Oval
 - Rectangular
 - None
6. What voltage actuator is required?
 - 24 Volt
 - 120 Volt
7. Where is the actuator to be mounted?
 - External (Outside damper; out of the airstream)
 - Internal (Inside damper; in the airstream)
 - Grille access required
8. Do you require an end switch?
 - Yes
 - No
9. What sleeve length is required?
 - 17"
 - 20"
 - 24"
10. At what temperature does the damper need to close?
 - 165°F
 - 212°F

Information Required for Smoke Dampers:

1. What leakage class is required?
 - Class I Ultra-Low Leakage
 - Class II Low Leakage
2. What temperature rating do you require?
 - 250°F
 - 350°F
3. What are the damper dimensions? W ____ X H ____
Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
4. Does the damper require a transition?
 - Round
 - Oval
 - Rectangular
 - None
5. What voltage actuator is required?
 - 24 Volt
 - 120 Volt
6. Where is the actuator to be mounted?
 - External (Outside damper; out of the airstream)
 - Internal (Inside damper; in the airstream)
7. Do you require an end switch?
 - Yes
 - No

Information Required for Air Control Dampers:

1. Do you require an ultra low leakage damper?
 - Yes
 - No
2. What are the damper dimensions? W ____ X H ____
Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
3. Bearing material?
 - Non-metallic Celcon® (Standard)
 - Bronze
4. What size jackshaft extension is required?
 - 4"
 - 6"
 - 11"
5. What voltage actuator is required?
 - None, Manual
 - 24v
 - 120v
 - 240v
6. Do you require an End Switch?
 - Yes
 - No
7. 2 position or Modulating Actuator?
 - 2 Position
 - Modulating

Additional information on all of our products may be found on our website: AireTechnologies.com

**Please direct all requests to our AtiOrders@AireTechnologies.com email



Providing Solutions To The HVAC Industry



Providing Solutions To The HVAC Industry

Introduction

Aire Technologies is proud to present our line of air management and life safety products for integration into your HVAC system design, fabrication, or installation. You can expect from **Aire Technologies**, the same unrivaled engineering, manufacturing quality, and delivery expertise, along with the commitment to excellence and value for which the **DMI** name has been known for more than 40 years.

Some of the largest HVAC contractors select **Aire Technologies** as their partner for HVAC air management and life safety devices. This is because they respect the partnership and the added value ATI brings to their business! **Aire Technologies** goes the extra mile to deliver more than quality products; they deliver peace of mind and a commitment to excellence.

Behind each product stands an engineering and technical support staff to ensure you have the right product to meet the requirements of your design or installation, and a sales, marketing, manufacturing, and shipping team to get you what you need, **when you need it**.

Product Summary

CEILING RADIATION DAMPERS

Ceiling Radiation Dampers (CRDs) are offered in rectangular and round configurations. These are UL 555C classified for use in installations rated up to 3 hours. CRD blades are either a single blade style or a centrally hinged butterfly style.

Two options for link attachment are:

Standard link- a link mounted between the blades

Easy Access link- a link mounted between a hook and catch on the side of the blades

In accordance with industry standard, CRDs are undersized 1/4".

CRDs are available in galvanized steel.

WOOD TRUSS ASSEMBLIES

A combustible assembly is a form of construction comprised of a floor-ceiling or roof-ceiling as an assembly which, when fire tested as a unit, has been assigned a fire endurance rating expressed in hours.* Series 50 with boot or box, Series 51 with boot, Series 57, and Series 58 are approved for floor/ceiling UL L-587 and roof/ceiling P-556 designs among others. Further information about L-587 and P-556 can be found in the UL Product iQ. Contact Aire Technologies for assistance in selecting the right device for your application.

CERTIFICATIONS AND APPROVALS

Aire Technologies Ceiling Radiation Dampers have been approved by the New York City Department of Buildings MEA Division and by the California State Fire Marshal.

ATI products that have been approved by UL for exclusive use in L-587 and P-556; and have been approved for use in other fire resistive assemblies. For a complete list of approved designs, please see our product submittal sheets.

PRODUCTS ARE APPROVED BY THE FOLLOWING AGENCIES:



PRODUCTS MANUFACTURED BY MEMBERS OF THE SMART SHEET METAL WORKERS UNION



Standard Construction: Profiles
22Ga 1 Piece Rollformed Frame and Blades

Materials
Galvanized Steel

Fusible Links
165° Rated Link - Standard
212° Rated Link - Optional

Series 50

Ceiling Radiation Dampers - UL Classified UL 555C - For Use in Installations Rated 3 Hours or Less.



Series 50

Sizes:
4" x 6" or 6" x 4" to 24" x 24"

Insulation:
Ceramic Thermal Blanket
Provide on Units with Area
> 84 in²



Series 50 In Boot

Sizes:
4" x 6" x 4"0 to 14" x 14" x 10"0

Enclosure Types:
Flanged or Non-Flanged
90° Boot, Straight Boot or
End Boot

UL Design:
UL 263 Approved for Use in:
Floor/Ceiling L587*, L528, L558,
L562, L563, L574, and L585
Roof/Ceiling P556*, P533, P544,
P545, and P547, and P580



Series 50 In Box

Sizes:
4" x 8" to 14" x 14"

Enclosure Types:
Flanged or Non-Flanged Box

UL Design:
UL 263 Approved for Use in:
Floor/Ceiling L587*, L528,
and L562
Roof/Ceiling P556* and P580



Series 51

Ceiling Radiation Dampers - UL Classified UL 555C - For Use in Installations Rated 3 Hours or Less.



Series 51SB

Vertical Sizes:
6" x 4" to 24" x 12"



Series 51SB In Boot

Sizes:
6" x 4" x 4"0 to 14" x 12" x 10"0

Enclosure Types:
Flanged or Non-Flanged
90° Boot

UL Design:
UL 263 Approved for Use in:
Floor/Ceiling L587*, L528, L558, L562, L563 L574, and L585
Roof/Ceiling P556*, P533, P544, P545, and P580



Series 55

Ceiling Radiation Dampers - UL Classified UL 555C - For Use in Installations Rated 3 Hours or Less.



Series 55SL

Sizes:
4"0 to 24"0

Insulation:
Ceramic Thermal Blanket
Provide on Units with Area
> 84 in²



Series 55EA

Sizes:
5"0 to 24"0

Insulation:
Ceramic Thermal Blanket Provide on Units with Area > 84 in²

Series 57

Ceiling Radiation Dampers - UL Classified UL 263 - For Use in Wood Truss Floor/Ceiling and Roof/Ceiling Assemblies Rated 1 Hour or Less.



Series 57IB

Sizes:
4" x 8" x 4"0 to 16" x 16" x 12"0

Enclosure Types:
28Ga Box and Collar Available with 1½" R-6 or 2" R-8 Duct Liner
Insulation

Insulation:
Ceramic Thermal Blanket Provide on Units with Area > 84 in²

UL Design:
UL 263 Approved for Use in:
Floor/Ceiling L587*, L528, L558, L562, L574, and L585
Roof/Ceiling P556*, P533, P545, P547, and P580

Exclusive Feature:
Approval for Class 0 and 1 Flex-Duct or Steel Pipe Elbow Connections
to Achieve Top-Out or Side-Out Configurations



Standard Construction:

Profiles

22Ga 1 Piece Rollformed Frame and Blades

Materials

Galvanized Steel

Fusible Links

165° Rated Link - Standard
212° Rated Link - Optional

UL Design

UL263 Approved for use in:
Floor/Ceiling L587*, L528, L558, L562, L574, and L585
Roof/Ceiling P556*, P533, P545, P547, and P580

Series 58

Ceiling Radiation Dampers For Duct Opening - UL Classified UL 263 - For Use in Wood Truss Floor/Ceiling and Roof/Ceiling Assemblies Rated 1 Hour or Less



Sizes:

4" x 8" x 14"h to 20" x 16" x 16"h

Enclosure Types - 58DD:

Incorporates Series 50 UL555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Box - BOX INCLUDED

Insulation:

Ceramic Thermal Blanket Provide on Units with Area > 84 in2

Enclosure Types - 58EAD/SD:

Incorporates Series 50 UL 555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Retainer - BOX NOT INCLUDED

Series 58

Ceiling Radiation Dampers For Register Connections - UL Classified UL 263 - For Use in Wood Truss Floor/Ceiling Assemblies Rated 1 Hour or Less



Sizes:

4" x 8" x 14"h to 20" x 16" x 16"h

Enclosure Types - 58DR:

Incorporates Series 50 UL555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Box - BOX INCLUDED

Insulation:

Ceramic Thermal Blanket Provide on Units with Area > 84 in2

Enclosure Types - 58EAR/SR:

Incorporates Series 50 UL 555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Retainer - BOX NOT INCLUDED

Series 58

Ceiling Radiation Dampers For Round Inlet - UL Classified UL 263 - For Use in Wood Truss Floor/Ceiling Assemblies Rated 1 Hour or Less



Sizes:

6" Diameter to 14" Diameter

Enclosure Types - 58DC:

Incorporates Series 50 UL 555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Box - BOX INCLUDED

Insulation:

Ceramic Thermal Blanket Provide on Units with Area > 84 in2

Enclosure Types - 58EAC/SC:

Incorporates Series 50 UL 555C Rated Ceiling Damper with 1½" R-6 or R-8 Ductboard Retainer - BOX NOT INCLUDED



All Products Are Classified And In Conformance To Underwriters Laboratories Requirements



CSFM Numbers:

Series 58: 3226-1650:0102

Series 50 and 55: 3226-1650:0103

Series 51SB: 3226-1650:0104

Series 50 w/Boot and w/Box: 3226-1650:0105

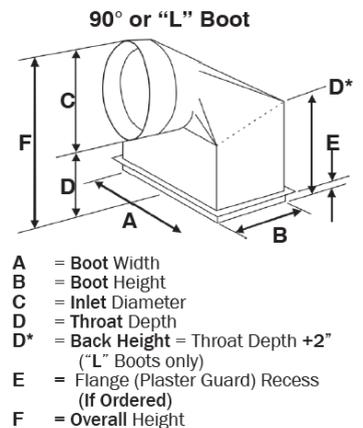
Series 571B: 3226-1650:0106

Product Survey

Ceiling Radiation Dampers

Information required for Ceiling Radiation Dampers:

- Quantity: _____
- The dimensions of the duct opening are:
 - Rectangular
 - Round
- What are the dimensions of the duct? W _____ X H _____
Always indicate the width first even if it is shorter than the height. The width dimension of a CRD will dictate the length of the blade and hinge.
- What temperature fusible link is required?
 - 165°
 - 212°
- Are these products being installed in a UL Classified wood truss floor/ceiling or roof/ceiling assembly?
 - Yes
If yes, do you know the UL classified assembly number? This number will be specified by the architect.
Example: Aire Technologies L-587. _____
 - No
- Does it need to be factory insulated?
 - Yes
 - No
If no, please choose one of the following¹:
 - Series 50 with L Boot²
 - Series 50 with Straight Boot²
 - Series 50 with End Boot²
 - Series 50 with Metal Box (Model 50EAX)
 - Series 51 with Boot
 - If yes, please choose one of the following:
 - Series 57 – grille outlet
 - Series 58 – grille outlet
 - Series 58 – duct drop
- If Series 58 is chosen, would you like the ductboard factory supplied or field supplied?
 - Factory
 - Field
- What is the diameter of the collar of the register boot or register box (see dimension "C" in figure to the right) _____



- For applications requiring increased airflow/efficiency a single blade "free-flow" CRD is available.
- Optional 8" throat available upon request.

Additional information on all of our products may be found on our website: AireTechnologies.com

**Please direct all requests to our AtiOrders@AireTechnologies.com email



Providing Solutions To The HVAC Industry



AireTechnologies.com
210 5th Street, Charleroi PA, 15022
Quotes And Orders: AtiOrders@AireTechnologies.com
P: 1.866.421.AIRE | F: 724.310.1262