Damper Selection Guide



Combination Fire Smoke Dampers



Control Dampers



Fire Dampers



Smoke Dampers



Relief Dampers







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| Model | Door Type | Pressure Relief | Leakage Class | Door Maximum Size | Velocity (FPM) | Pressure (in. wg) | AMCA Listing | Submittal | Installation Instructions | CSI Specs | DWG Drawings |
|--------------|-----------|--------------------|------------------|-------------------------|-------------------|----------------------|--------------|-----------|------------------------------|--------------|-----------------|
| Access Doors | | | | | | | | | | | |
| CAD | Cam | - | - | 24 x 24 | - | 41⁄2 | - | æ | - | w | A |
| HAD | Hinged | - | - | 24 x 24 | - | 41⁄2 | - | æ | - | w | A |
| RAD | Round | - | - | 16 x 12 | - | 20 | - | æ | - | w | A |
| | | | | | Relief | Doors | | | | | |
| PRAD | - | Positive | - | 24 x 24 | - | 2-16 | - | æ | Å | w | A |
| VRAD | - | Negative | - | 24 x 24 | - | 2-16 | - | æ | ð | w | A |

| Model | Blade Type | Blade Material | Leakage Class @ 1 in. wg | Damper Maximum Size* | Velocity Range (FPM) | Pressure (in. wg) | AMCA Listing | Submittal | Installation Instructions | CSI Specs | DWG Drawings | | | |
|---------|---------------------------------------|---------------------|--------------------------------|----------------------------|----------------------------|----------------------|---------------------------------|-----------|------------------------------|--------------|-----------------|--|--|--|
| | Air Measuring Station | | | | | | | | | | | | | |
| AMS | - | - | - | 60 x 72 | 300 - 3000 | - | - | æ | × | w | A | | | |
| | Air Measuring - Pressure Differential | | | | | | | | | | | | | |
| AMD-23 | 3V | Galvanized Steel | 1A | 144 x 148 | 300 - 2000 | 4 | Air Performance/ Air Leakage | æ | × | w | A | | | |
| AMD-33 | Airfoil | Galvanized Steel | 1A | 120 x 148 | 300 - 3000 | 4 | Air Performance/ Air Leakage | æ | × | w | A | | | |
| AMD-42 | Airfoil | Aluminum | 1A | 120 x 148 | 300 - 3000 | 4 | - | æ | × | w | A | | | |
| AMD-42V | Airfoil - Vertical | Aluminum | 1A | 74 x 48 | 300 - 3000 | 4 | - | æ | × | w | A | | | |





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| | Frame | Blade | Velocity | Pressure | Counter | Ai | rflow Dired | ction | Mounting | AMCA | | Installation | CSI | DWG |
|---------------------|----------------|----------|----------|----------|---------|----------------|------------------|--------------|-------------------------|------------------------------------|-----------|--------------|-------|----------|
| Model | Material | Material | (FPM) | (in. wg) | Balance | Vertical Up | Vertical Down | Horizontal | Position | Listing | Submittal | Instructions | Specs | Drawings |
| | | | | | | C | Commercia | al Backdraft | | | | | | |
| BD-100 | Galv. Steel | Aluminum | 1500 | 2 | | ✓ | | | Horizontal | Air Performance/ Air Leakage | گ | - | w | A |
| BD-300 | Galv. Steel | Aluminum | 1500 | 2 | | | | ~ | Vertical | Air Performance/ Air Leakage | گ | - | w | A |
| EM-1x Series | Aluminum | Aluminum | 3500 | 10 | ~ | ✓ | | | Horizontal | Air Performance/ Air Leakage | گ | 2 | w | A |
| EM-3x Series | Aluminum | Aluminum | 3500 | 10 | ~ | | | ~ | Vertical | Air Performance/ Air Leakage | Å | × | w | A |
| EM-4x Series | Aluminum | Aluminum | 3500 | 10 | ✓ | | ✓ | | Horizontal | | x | æ | w | A |
| EMV-11 | Aluminum | Aluminum | 3500 | 10 | ✓ | \checkmark | | | Horizontal | | æ | æ | - | - |
| GM-3x Series | Galv. Steel | Aluminum | 3500 | 10 | ~ | | | ✓ | Vertical | | æ | æ | - | A |
| WD-1xx Series | Galv. Steel | Aluminum | 2500 | 1 | | \checkmark | | | Horizontal | | æ | - | w | A |
| WD-2xx Series | Galv. Steel | Aluminum | 2500 | 1 | | \checkmark | \checkmark | ✓ | Horizontal, Vertical | | æ | - | w | A |
| WD-3xx Series | Galv. Steel | Aluminum | 2500 | 2 | | | | ✓ | Vertical | | æ | - | w | A |
| WD-340 | Galv. Steel | Aluminum | 2500 | 2 | | | | ✓ | Vertical | | æ | - | w | A |
| WD-400, 420, 430 | Galv. Steel | Aluminum | 2500 | 2 | | | | ✓ | Vertical | | æ | - | w | A |
| WD-410 | Galv. Steel | Aluminum | 2500 | 2 | | | ✓ | | Horizontal | | ٨ | - | w | A |





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| | Frame | Blade | Velocity | Pressure | Counter | | Aiı | flow Directio | on | | Mounting | | Installation | CSI | DWG |
|----------|------------------|------------------|----------|----------|---------|----------------|------------------|---------------|---------------|-----------------|-------------------------|-----------|--------------|-------|----------|
| Model | Material | Material | (FPM) | (in. wg) | Balance | Vertical Up | Vertical Down | Horizontal | Angular Up | Angular Down | Position | Submittal | Instructions | Specs | Drawings |
| | | | | | | True | Round Co | ommercial B | ackdraft | | | | | | |
| WDR-53 | Galv. Steel | Aluminum | 2000 | 3 | | \checkmark | \checkmark | ~ | | | Horizontal, Vertical | æ | - | w | A |
| SSWDR-53 | 304SS | 304SS | 2000 | 3 | | ✓ | \checkmark | ~ | | | Horizontal, Vertical | æ | - | w | A |
| | | | | | | Не | avy-Duty/I | ndustrial Ba | ckdraft | | | | | | |
| HB-110 | Galv. Steel | Aluminum | 3900 | 5 | ✓ | ✓ | \checkmark | ~ | ✓ | ✓ | Horizontal, Vertical | æ | 2 | w | A |
| HB-120 | Galv. Steel | Galv. Steel | 5150 | 8.5 | ✓ | ✓ | \checkmark | ~ | ✓ | ✓ | Horizontal, Vertical | æ | 2 | w | A |
| HB-230 | Galv. Steel | Galv. Steel | 5150 | 13.5 | ✓ | ✓ | \checkmark | ~ | ✓ | ✓ | Horizontal, Vertical | × | ~ | w | A |
| HB-240 | Galv. Steel | Aluminum | 5150 | 13.5 | ✓ | ✓ | \checkmark | ~ | ✓ | ✓ | Horizontal, Vertical | æ | ~ | w | A |
| HB-330 | Galv. Steel | Galv. Steel | 6400 | 20 | ✓ | ✓ | \checkmark | ~ | ✓ | ✓ | Horizontal, Vertical | æ | ~ | w | A |
| | | | | | | True Rou | nd Heavy- | Duty/Indust | rial Backo | Iraft | | | | | |
| HBR-050 | Painted Steel | Painted Steel | 3000 | 6 | ✓ | ✓ | \checkmark | ~ | | | Horizontal, Vertical | æ | × | w | A |
| HBR-150 | Painted Steel | Painted Steel | 4000 | 6 | ✓ | ✓ | \checkmark | ~ | | | Horizontal, Vertical | æ | æ | w | A |













| Model | Blade Type | Damper Maximum Size | Velocity (FPM) | Pressure (in. wg) | Operator | Submittal | Installation Instructions | CSI Specs | DWG Drawings |
|---------|---------------------------------------|---------------------------|-------------------|----------------------|-------------------------------------|-----------|------------------------------|-----------|-----------------|
| | | | | Auto | matic Balancing Dampers | | | | |
| ABD | Thermoplastic Round | 8 | 425 cfm | 2 | _ | æ | × | w | A |
| ABD-RB | Thermoplastic Round | 8 | 425 cfm | 2 | - | æ | × | w | A |
| ABD-T | Thermoplastic Round | 8 | 425 cfm | 2 | - | × | × | w | A |
| ABD-FD | Thermoplastic Round/Curtain | 6 | 275 cfm | 2 | - | × | × | - | A |
| ABD-Z1 | Thermoplastic Round/Galv. Steel | 6 | 275 cfm | 2 | Actuator | گ | یک | w | A |
| ABD-Z2 | Thermoplastic Round/Galv. Steel | 6 | 275 cfm | 2 | Actuator | گ | یک | w | A |
| | | | | Mai | nual Balancing Dampers | | | | |
| MBD-10 | Single Blade | 36 x 12 | 2000 | 2 | Manual Quadrant or Cable Operated | æ | 2 | w | A |
| MBD-15 | 3V | 96 x 96 | 2000 | 4 | Manual Quadrant or Cable Operated | æ | r | w | A |
| MBDR-50 | True Round | 24 | 2000 | 1 | Manual Quadrant or Cable Operated | æ | - | w | A |
| | | | | Ren | note Balancing Dampers | | | | |
| RBD-10 | Single Blade | 36 x 12 | 2000 | 1 | Remote Control with 9 Volt Actuator | æ | æ | w. | A |
| RBD-15 | Multi-Blade | 4 sq. ft. | 2000 | 4 | Remote Control with 9 Volt Actuator | æ | æ | w | A |
| RBDR-50 | True Round | 24 | 2000 | 1 | Remote Control with 9 Volt Actuator | Å | × | W | A |
| | | | | | Bowtie Damper | | | | |
| BTDR-50 | True Round | 15 | 1600 | 1 | Cable Operated | æ | æ | - | A |





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| | | | | Damper N | laximum Size | e (Inches) | | | | |
|---------|-------------------------------|----------------------------|------------------|------------------------|---------------------------|------------------------|-----------|------------------------------|-----------|-----------------|
| Model | Blade Type | Fire Resistance Rating* | Leakage Class | Roof/Floor Assembly | Wood Truss Assembly | Wood Joist Assembly | Submittal | Installation Instructions | CSI Specs | DWG Drawings |
| | | | Ce | eiling Radiatio | on Dampers | | | | | |
| CRD-1 | Butterfly | 3 Hour | - | 24 x 24 | - | - | æ | × | w | A |
| CRD-1WJ | Butterfly | 1 Hour (UL Wood Joist) | - | - | - | 16 x 12 | æ | æ | w | A |
| CRD-1WT | Butterfly | 1 Hour (UL Wood Truss) | - | - | 21 x 18 | - | x | æ | w | A |
| CRD-2 | Round Butterfly | 3 Hour | - | 24 | - | - | x | æ | w | A |
| CRD-2WT | Butterfly | 1 Hour (UL Wood Truss) | - | - | 12 x 12 | - | x | æ | w. | A |
| CRD-60 | Curtain | 3 Hour | - | 24 x 24 | - | - | x | æ | w | A |
| CRD-60X | Curtain w/Insulation skirt | 3 Hour | - | 24 x 24 | - | - | æ | æ | w | A |
| | | | Ceiling Ra | diation Damp | oers Leakage | Rated | | | | |
| CRD-501 | True Round | 3 Hour | I | 12 | - | - | æ | æ | w. | A |

* Fire rated floor/ceiling assemblies.













| Model | Blade | Fire Resistance | Leakage | Damper M Siz | | Velocity | Pressure | AMCA Listing | Submittal | Installation | CSI | Draw | vings |
|------------|---------------|--------------------|---------|-----------------|-----------|------------|-------------|---|-----------|--------------|----------|------|-------|
| | Туре | Rating | Class | Horizontal | Vertical | (FPM) | (in. wg) | - In the second s | | Instructions | Specs | DWG | Revit |
| | | | | | (| Corridor F | ire Smoke | | | | | | |
| CFSD-211 | 3V | 1 hour corridor | I | 24 x 24 | 24 x 24 | 2000 | 6 | Air Performance | × | 2 | w | A | - |
| | | | | | Tradition | al Combi | nation Fire | Smoke | | | | | |
| FSD-211 | 3V | 1½ hour | I | 144 x 96 | 128 x 100 | 2000 | 6 | Air Performance | × | × | w | A | R |
| FSD-212 | 3V | 1½ hour | II | 144 x 96 | 128 x 100 | 2000 | 6 | Air Performance | æ | × | w | A | R |
| FSD-213 | 3V | 1½ hour | 111 | 144 x 96 | 128 x 100 | 2000 | 6 | Air Performance | æ | × | w | A | R |
| FSD-311 | Airfoil | 1½ hour | I | 144 x 96 | 128 x 100 | 4000 | 8 | Air Performance | Å | 2 | w_ | A | R |
| FSD-312 | Airfoil | 1½ hour | II | 144 x 96 | 128 x 100 | 4000 | 8 | Air Performance | Å | 2 | w. | A | R |
| FSD-331 | Airfoil | 3 hour | I | 120 x 96 | 120 x 96 | 4000 | 8 | Air Performance | æ | 2 | w. | A | R |
| SEFSD-211 | 3V | 1½ hour | I | 48 x 30 | 88 x 72 | 2000 | 6 | Air Performance | æ | 2 | W | A | R |
| | | | | | M | odulating | Fire Smoke | • | | | | | |
| FSD-211M | 3V | 1½ hour | I | 72 x 72 | 72 x 72 | 2000 | 4 | Air Performance | æ | æ | w. | A | R |
| FSD-311M | Airfoil | 1½ hour | I | 72 x 72 | 72 x 72 | 2000 | 4 | Air Performance | æ | & | W | A | R |
| | | | | | Ver | tical Blad | e Fire Smol | (e | | | | | |
| FSD-311V | Airfoil | 1½ hour | I | - | 100 x 32 | 4000 | 4 | - | æ | 2 | W | A | R |
| | | | | | 0 | ut of Wall | Fire Smoke |) | | | | | |
| GFSD-211 | 3V | 1½ hour | I | 48 x 48 | 48 x 48 | 2000 | 4 | - | Å | 2 | w_ | A | R |
| OFSD-211 | 3V | 1½ hour | I | 36 x 36 | 36 x 36 | 2000 | 6 | Air Performance | × | 2 | w | A | R |
| OfSD-212 | 3V | 1½ hour | Ш | 36 x 36 | 36 x 36 | 2000 | 6 | Air Performance | × | × | w | A | R |
| OFSD-311 | Airfoil | 1½ hour | I | 32 x 30 | 32 x 30 | 4000 | 4 | Air Performance | æ | × | w | A | R |
| | | | | | Tr | ue Round | Fire Smoke | • | | | | | |
| FSDR-511 | True Round | 1½ hour | I | 24 | 24 | 4000 | 4 | - | × | × | w | A | R |
| SSFSDR-511 | True Round | 1½ hour | Ι | 24 | 24 | 4000 | 4 | - | æ | × | w | A | R |





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| | | Damper | Velocity | Pressure | Leakage | | | Installation | | Draw | /ings |
|----------|-------------------|-----------------|----------|----------|---------------------|--------------------------------|-----------|--------------|-----------|------|-------|
| Model | Blade Type | Maximum Size | (FPM) | (in. wg) | Class @ 1 in. wg | AMCA Listing | Submittal | Instructions | CSI Specs | DWG | Revit |
| | | | | | | ercial Control | | | | | |
| VCD-20 | 3V | Unlimited | 3000 | 5 | - | Air Performance | æ | æ | w | A | R |
| VCD-23 | 3V | Unlimited | 3000 | 5 | 1A | Air Performance Air Leakage | æ | Å | w | A | R |
| VCD-33 | Airfoil | Unlimited | 4000 | 8 | 1A | Air Performance Air Leakage | æ | Å | w | A | R |
| VCD-34 | Insulated Airfoil | Unlimited | 4000 | 8 | 1A | Air Performance Air Leakage | æ | Å | w | A | R |
| VCD-40 | Airfoil | Unlimited | 6000 | 6 | 1A | Air Performance | æ | Å | w | A | R |
| VCD-42 | Extruded Airfoil | Unlimited | 6000 | 6 | 1A | - | æ | Å | w | A | R |
| VCD-43 | Extruded Airfoil | Unlimited | 6000 | 8 | 1A | Air Performance Air Leakage | æ | Å | w | A | R |
| SEVCD-23 | 3V | Unlimited | 3000 | 5 | 1A | Air Performance Air Leakage | x | Å | w | A | R |
| SEVCD-33 | Airfoil | Unlimited | 4000 | 8 | 1A | Air Performance Air Leakage | × | × | w | A | R |
| | | | | | Face & E | Bypass Control | | | | | |
| FBV-23 | 3V | 96 x 74 | 3000 | 5 | 1A | - | × | æ | <u>w</u> | A | - |
| | | | | | Vertical | Blade Control | | | | | |
| VCD-23V | 3V | 148 x 96 | 3000 | 5 | 1A | - | æ | æ | w | A | R |
| VCD-33V | Airfoil | 148 x 120 | 4000 | 8 | 1A | - | æ | æ | w | A | R |
| VCD-34V | Insulated Airfoil | 148 x 120 | 4000 | 8 | 1A | - | æ | æ | w | A | R |
| VCD-43V | Extruded Airfoil | 156 x 120 | 6000 | 8 | 1A | - | æ | æ | W | A | R |

Control Dampers continued on next page....

*Maximum size can be single or multiple sections.











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| | | Damper | Velocity | Pressure | Leakage | | | Installation | CSI | Draw | vings |
|----------|--|-----------------|----------|---------------------|---------------------|---|-----------|--------------|-------|------|-------|
| Model | Blade Type | Maximum Size | (FPM) | (in. wg) | Class @ 1 in. wg | AMCA Listing | Submittal | Instructions | Specs | DWG | Revit |
| | | | | ally Broken Control | | | | | | | |
| ICD-44 | Extruded Aluminum Thermally Broken Blade | 180 x 156 | 4000 | 8 | 1A | Air Performance/ Air Leakage/ Efficiency | æ | 2 | w | A | - |
| ICD-45 | Extruded Aluminum Thermally Broken Blade and Frame | 180 x 156 | 4000 | 8 | 1A | Air Performance/ Air Leakage/ Efficiency | æ | × | w | A | - |
| | | | | | True Ro | und Control | | | | | |
| VCDR-50 | True Round | 24 | 3000 | 4 | - | - | æ | 2 | w | A | - |
| VCDR-53 | True Round | 24 | 3000 | 4 | 1 | - | æ | × | w | A | - |
| | | | | | | | | | | | |
| VCDRM-53 | Single Thickness | 48 | 2500 | 5 | 1 | - | æ | æ | w | A | - |













| Model | Blade Type | Damper | Velocity | Pressure | Maximum | Submittal | Installation | CSI Specs | Drav | vings |
|------------|-------------------------------------|--------------|----------|--------------|-----------------|-------------|--------------|-----------|------|-------|
| Widder | | Maximum Size | (FPM) | (in. wg) | Temperature | | Instructions | | DWG | Revit |
| | 1 | | Н | eavy-Duty Ir | ndustrial Contr | | _ | | | |
| HCD-120 | 3V | 96 x 96 | 3000 | 8.5 | 400°F | æ | æ | <u>w</u> | A | R |
| HCD-130 | Airfoil | 120 x 96 | 4000 | 8.5 | 400°F | æ | æ | w - | A | R |
| HCD-130-LE | Airfoil | 57 x 57 | 4000 | 8.5 | 400°F | æ | æ | w | A | - |
| HCD-135 | Insulated Airfoil | 120 x 96 | 4000 | 8.5 | 250°F | æ | æ | w | A | - |
| HCD-220 | 3V | 96 x 96 | 4000 | 15 | 600°F | æ | æ | w | A | - |
| HCD-221 | Flat Dual Skin w/ Perimeter Seal | 96 x 60 | 4000 | 10 | 400°F | æ | × | w | A | - |
| HCD-230 | Airfoil | 120 x 96 | 5000 | 15 | 600°F | æ | æ | w | A | - |
| HCD-230-LE | Airfoil | 78 x 75% | 5000 | 15 | 600°F | æ | æ | w | A | - |
| HCD-240 | Extruded Airfoil | 120 x 96 | 5000 | 15 | 250°F | æ | æ | w | A | - |
| HCD-330 | Airfoil | 120 x 96 | 5000 | 25 | 600°F | æ | æ | w | A | - |
| HCD-430 | Airfoil | 120 x 96 | 6000 | 35 | 600°F | æ | æ | w | A | - |
| HCD-530 | Airfoil | 120 x 96 | 6000 | 45 | 600°F | æ | æ | w | A | - |
| | | | Heav | y-Duty/Indus | strial Round C | ontrol Damp | ers | | | |
| HCDR-050 | True Round | 24 | 3000 | 6 | 250°F | æ | æ | w | A | - |
| HCDR-150 | True Round | 48 | 4000 | 6 | 400°F | æ | æ | w | A | - |
| HCDR-152 | Two-Blade | 48 | 4000 | 6 | 400°F | æ | æ | w | A | - |
| HCDR-250 | True Round | 72 | 5150 | 13.5 | 600°F | Å | × | w. | A | - |
| HCDR-350 | True Round | 72 | 6400 | 20 | 1000°F | æ | × | w. | A | - |
| HCDR-351 | True Round | 48 | 6500 | 20 | 400°F | Å | æ | w - | A | - |
| HCDR-450 | True Round | 60 | 7000 | 30 | 400°F | æ | æ | w | A | - |





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| | Blade | Fire | Closure | Damper Max | kimum Size* | Velocity | Pressure | | Installation | CSI | DWG |
|------------|---------------|----------------------|---------|------------|-----------------------|------------|----------|-----------|--------------|-------|----------|
| Model | Туре | Resistance Rating | Rating | Horizontal | Vertical | (FPM) | (in. wg) | Submittal | Instructions | Specs | Drawings |
| | | | | | Multibla | de Fire | | | | | |
| DFD-210 | 3V | 1½ hour | Dynamic | 128 x 96 | 128 x 100 | 4000 | 10 | Å | æ | w | A |
| DFDAF-310 | Airfoil | 1½ hour | Dynamic | 144 x 96 | 128 x 100 | 4000 | 8 | x | æ | w | A |
| DFDAF-330 | Airfoil | 3 hour | Dynamic | 144 x 96 | 120 x 96 | 4000 | 8 | Å | æ | w | A |
| SEDFD-210 | 3V | 1½ hour | Dynamic | 48 x 30 | 48 x 30 | 4000 | 10 | æ | × | w | A |
| | | | | | Out of V | Vall Fire | | | | | |
| ODFD-150 | Curtain | 1½ hour | Dynamic | 36 x 36 | 36 x 36 | 4000 | 4 | Å | æ | w | A |
| OFD-150 | Curtain | 1½ hour | Static | 36 x 36 | 36 x 36 | - | - | æ | × | w | A |
| | | | | | True Rou | und Fire | | | | | |
| DFDR-510 | True Round | 1½ hour | Dynamic | 24 | 24 | 2000 | 4 | æ | æ | w | A |
| SSDFDR-510 | True Round | 1½ hour | Dynamic | 24 | 24 | 2000 | 4 | æ | æ | w | A |
| | | | | | Traditional (| Curtain Fi | re | | | | |
| DFD-110 | Curtain | 1½ hour | Dynamic | 48 x 36 | 72 x 48 or 60 x 60 | 4000 | 4 | æ | æ | w | A |
| DFD-150 | Curtain | 1½ hour | Dynamic | 48 x 36 | 72 x 48 or 60 x 60 | 4000 | 4 | æ | æ | w | A |
| DFD-310 | Curtain | 3 hour | Dynamic | 48 x 36 | 48 x 48 | 4000 | 4 | æ | æ | w | A |
| DFD-350 | Curtain | 3 hour | Dynamic | 48 x 36 | 48 x 48 | 4000 | 4 | æ | æ | w | A |

Fire Dampers cont...

*Maximum size can be single or multiple sections.









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| Model | Blade | Fire | Closure | Damper Max | kimum Size* | Velocity | Pressure | Outputition | Installation | CSI | DWG |
|------------|---------|----------------------|---------|------------------------|--------------------------------------|------------|----------|-------------|--------------|-------|----------|
| Model | Туре | Resistance Rating | Rating | Horizontal | Vertical | (FPM) | (in. wg) | Submittal | Instructions | Specs | Drawings |
| | | | | Tradit | ional Curtaiı | n Fire con | tinued | | | | |
| FD-110 | Curtain | 1½ hour | Static | 96 x 48 | 96 x 48 | - | - | æ | Å | w] | A |
| FD-150 | Curtain | 1½ hour | Static | 96 x 48 or 120 x 40 | 96 x 48 or 120 x 40 or 74 x 74 | - | - | ž | × | w | A |
| FD-310 | Curtain | 3 hour | Static | - | 48 x 48 | - | - | æ | 2 | w | A |
| FD-350 | Curtain | 3 hour | Static | 80 x 40 | 48 x 48 | - | - | æ | × | w_ | A |
| SSDFD-150 | Curtain | 1½ hour | Dynamic | - | 30 x 30 | 2000 | 4 | æ | æ | w_ | A |
| SSDFD-350 | Curtain | 3 hour | Dynamic | - | 30 x 30 | 2000 | 4 | æ | × | w_ | A |
| SSFD-150 | Curtain | 1½ hour | Static | 48 x 48 | 96 x 48 or 120 x 40 | - | - | æ | × | w. | A |
| SSFD-350 | Curtain | 3 hour | Static | - | 48 x 48 | - | - | æ | × | w_ | A |
| | | | | Cu | rtain Fire - I | ntegral S | leeve | | | | |
| DFD-150X12 | Curtain | 1½ hour | Dynamic | 30 x 30 | 36 x 36 | 4000 | 4 | 2 | 2 | w. | A |
| DFD-150X16 | Curtain | 1½ hour | Dynamic | 30 x 30 | 36 x 36 | 4000 | 4 | Å | æ | w_ | A |
| FD-150X12 | Curtain | 1½ hour | Static | 48 x 48 | 48 x 48 | - | - | Å | æ | w | A |
| FD-150X16 | Curtain | 1½ hour | Static | 48 x 48 | 48 x 48 | - | - | æ | æ | w | A |













| Model | Blade Type | Leakage | Damper Max | ximum Size* | Velocity | Pressure | AMCA Listing | Submittal | Installation | CSI | Draw | vings |
|------------|---------------------|---------|--------------------------|--------------------------|------------|------------|-----------------|-----------|--------------|-------|------|-------|
| wodei | Байе туре | Class | Horizontal | Vertical | (FPM) | (in. wg) | | Submittai | Instructions | Specs | DWG | Revit |
| | | | | | Traditio | onal Smoke |) | | | | | |
| SMD-201 | 3V | I | 144 x 100 or 288 x 50 | 144 x 100 or 288 x 50 | 2000 | 6 | Air Performance | æ | æ | w | A | R |
| SMD-201M | 3V | I | 72 x 72 | 72 x 72 | 2000 | 4 | Air Performance | * | æ | w | A | R |
| SMD-202 | 3V | 11 | 144 x 100 or 288 x 50 | 144 x 100 or 288 x 50 | 2000 | 6 | Air Performance | æ | æ | w | A | R |
| SMD-301 | Airfoil | I | 128 x 100 or 256 x 50 | 128 x 100 or 256 x 50 | 4000 | 8 | Air Performance | æ | × | w | A | R |
| SMD-301M | Airfoil | I | 72 x 72 | 72 x 72 | 2000 | 4 | Air Performance | * | æ | w | A | R |
| SMD-302 | Airfoil | 11 | 128 x 100 or 256 x 50 | 128 x 100 or 256 x 50 | 4000 | 8 | Air Performance | æ | æ | w | A | R |
| SMD-401 | Extruded Airfoil | I | 192 x 100 | 192 x 100 | 3000 | 6 | - | æ | × | w | A | R |
| SMD-401EF | Extruded Airfoil | I | 192 x 120 | 192 x 120 | 3000 | 6 | Air Performance | æ | æ | W | A | R |
| SMD-401M | Extruded Airfoil | 1 | 72 x 72 | 72 x 72 | 2000 | 4 | - | æ | x | w | A | R |
| SESMD-201 | 3V | I | 48 x 30 | 88 x 72 | 2000 | 6 | Air Performance | æ | æ | w. | A | R |
| | | | | | Vertical I | Blade Smol | ke | | | | | |
| SMD-301V | Airfoil | I | - | 100 x 32 | 4000 | 4 | - | 2 | æ | W | A | R |
| | | | | | True Ro | und Smok | e | | | | | |
| SMDR-501 | True Round | | 24 | 24 | 3000 | 4 | - | æ | æ | w | A | - |
| SSSMDR-501 | True Round | I | 24 | 24 | 3000 | 4 | - | æ | æ | w | A | - |





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| | Frame | Blade | Counter | Velocity | Back | | Airflow Direction | | Mounting | | Installation | CSI | DWG |
|-------------------|----------------|-------------|--------------|----------|----------------------|--------------|-------------------|------------|-------------------------|-----------|--------------|-------|----------|
| Model | Material | Material | Balance | (FPM) | Pressure (in. wg) | Vertical Up | Vertical Down | Horizontal | Position | Submittal | Instructions | Specs | Drawings |
| Barometric Relief | | | | | | | | | | | | | |
| BR-1x Series | Galv. Steel | Aluminum | ✓ | 2000 | 2 | ✓ | | | Horizontal | 2 | × | w | A |
| BR-3x Series | Galv. Steel | Aluminum | ✓ | 2000 | 2 | | | ~ | Vertical | æ | × | w | A |
| BR-4x Series | Galv. Steel | Aluminum | ✓ | 2000 | 2 | | \checkmark | | Horizontal | æ | × | w | A |
| SEBR-1x Series | 316SS | 316SS | ✓ | 2000 | 2 | ✓ | | | Horizontal | æ | × | w | A |
| SEBR-3x Series | 316SS | 316SS | ✓ | 2000 | 2 | | | ~ | Vertical | æ | × | w | A |
| SEBR-4x Series | 316SS | 316SS | \checkmark | 2000 | 2 | | \checkmark | | Horizontal | 2 | æ | w | A |
| | | | | | Hea | vy-Duty/Indu | ustrial Pressure | Relief | | | | | |
| HPR-120 | Galv. Steel | Galv. Steel | ✓ | 5150 | 8.5 | ✓ | \checkmark | ~ | Horizontal, Vertical | æ | × | w | A |
| HPR-230 | Galv. Steel | Galv. Steel | ✓ | 5150 | 13.5 | ✓ | \checkmark | ~ | Horizontal, Vertical | æ | × | w | A |
| HPR-330 | Galv. Steel | Galv. Steel | \checkmark | 6400 | 20 | ✓ | \checkmark | ~ | Horizontal, Vertical | æ | × | w | A |













| Model | Blade Type | Damper | Velocity | Pressure | Maximum | Submittal | Installation | CSI Specs | | vings |
|------------|-------------------------------------|--------------|----------|--------------------------|-----------------|-------------|--------------|-----------|-----|-------|
| | | Maximum Size | (FPM) | (in. wg) eavy-Duty Ir | Temperature | | Instructions | | DWG | Revit |
| HCD-120 | 3V | 96 x 96 | 3000 | 8.5 | 400°F | | <u>گر</u> | w | A | R |
| | | | | | | | | | | |
| HCD-130 | Airfoil | 120 x 96 | 4000 | 8.5 | 400°F | x | æ | <u>w</u> | A | R |
| HCD-130-LE | Airfoil | 57 x 57 | 4000 | 8.5 | 400°F | æ | æ | <u>w</u> | A | - |
| HCD-135 | Insulated Airfoil | 120 x 96 | 4000 | 8.5 | 250°F | × | × | w | A | - |
| HCD-220 | 3V | 96 x 96 | 4000 | 15 | 600°F | × | × | w | A | - |
| HCD-221 | Flat Dual Skin w/ Perimeter Seal | 96 x 60 | 4000 | 10 | 400°F | × | 2 | w | A | - |
| HCD-230 | Airfoil | 120 x 96 | 5000 | 15 | 600°F | × | × | w | A | - |
| HCD-230-LE | Airfoil | 78 x 75% | 5000 | 15 | 600°F | × | × | w | A | - |
| HCD-240 | Extruded Airfoil | 120 x 96 | 5000 | 15 | 250°F | æ | æ | w | A | - |
| HCD-330 | Airfoil | 120 x 96 | 5000 | 25 | 600°F | æ | æ | w. | A | - |
| HCD-430 | Airfoil | 120 x 96 | 6000 | 35 | 600°F | æ | æ | w. | A | - |
| HCD-530 | Airfoil | 120 x 96 | 6000 | 45 | 600°F | æ | æ | w | A | - |
| | | | Heav | y-Duty/Indus | strial Round Co | ontrol Damp | ers | | | |
| HCDR-050 | True Round | 24 | 3000 | 6 | 250°F | × | × | w | A | - |
| HCDR-150 | True Round | 48 | 4000 | 6 | 400°F | × | × | w | A | - |
| HCDR-152 | Two-Blade | 48 | 4000 | 6 | 400°F | æ | æ | w | A | - |
| HCDR-250 | True Round | 72 | 5150 | 13.5 | 600°F | × | × | w | A | - |
| HCDR-350 | True Round | 72 | 6400 | 20 | 1000°F | × | × | w | A | - |
| HCDR-351 | True Round | 48 | 6500 | 20 | 400°F | × | × | w | A | - |
| HCDR-450 | True Round | 60 | 7000 | 30 | 400°F | × | × | w | A | - |

Heavy-Duty Dampers continued on next page...

*Maximum size can be single or multiple sections.





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| Model | Blade | Counter | Velocity | Back | A | irflow Directio | n | Mounting | | Installation | CSI | DWG | |
|---------|-------------|-------------|--------------|-------|----------------------|-----------------|------------------|------------|-------------------------|--------------|--------------|-----|----------|
| | | Material | Balance | (FPM) | Pressure (in. wg) | Vertical Up | Vertical Down | Horizontal | Position | Submittal | Instructions | | Drawings |
| | | | | | Heavy | -Duty/Indust | rial Pressure I | Relief | | | | | |
| HPR-120 | Galv. Steel | Galv. Steel | ✓ | 5150 | 8.5 | ✓ | \checkmark | ✓ | Horizontal, Vertical | æ | æ | w. | A |
| HPR-230 | Galv. Steel | Galv. Steel | \checkmark | 5150 | 13.5 | ✓ | \checkmark | ✓ | Horizontal, Vertical | æ | æ | w | A |
| HPR-330 | Galv. Steel | Galv. Steel | \checkmark | 6400 | 20 | \checkmark | \checkmark | ✓ | Horizontal, Vertical | æ | æ | w | A |

| | Frame | Blade | Velocity | Pressure (in. wg) | | Airfle | ow Direction | | | Mounting | | Installation | CSI | DWG |
|---------|---------------|---------------|----------|----------------------|----------------|------------------|-----------------------|---------------|-----------------|-------------------------|-----------|--------------|-------|----------|
| Model | Material | Material | (FPM) | | Vertical Up | Vertical Down | Horizontal | Angular Up | Angular Down | Position | Submittal | Instructions | Specs | Drawings |
| | | | | | | Heavy-Duty | Industrial B | ackdraft | | | | | | |
| HB-110 | Galv. Steel | Aluminum | 3900 | 5 | \checkmark | ~ | ~ | ✓ | ✓ | Horizontal, Vertical | æ | × | w. | A |
| HB-120 | Galv. Steel | Galv. Steel | 5150 | 8.5 | \checkmark | ✓ | ~ | ✓ | ✓ | Horizontal, Vertical | æ | × | w. | A |
| HB-230 | Galv. Steel | Galv. Steel | 5150 | 13.5 | ✓ | ~ | ~ | ✓ | ✓ | Horizontal, Vertical | × | × | w. | A |
| HB-240 | Galv. Steel | Aluminum | 5150 | 13.5 | \checkmark | ✓ | ~ | ✓ | ✓ | Horizontal, Vertical | æ | × | w. | A |
| HB-330 | Galv. Steel | Galv. Steel | 6400 | 20 | \checkmark | ✓ | ~ | ✓ | ✓ | Horizontal, Vertical | æ | × | w. | A |
| | | | | | True F | Round Heavy | -Duty/Indus | trial Back | draft | | | | | |
| HBR-050 | Galv. Steel | Galv. Steel | 3000 | 6 | \checkmark | \checkmark | ~ | | | Horizontal, Vertical | æ | × | w. | A |
| HBR-150 | Painted Steel | Painted Steel | 4000 | 6 | \checkmark | ✓ | ✓ | | | Horizontal, Vertical | æ | × | w | A |

DWG files will open with AutoCAD or DWG Viewer.





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| Model | Damper Maximum Size | Velocity (FPM) | Pressure (in. wg) | Maximum Temperature | Submittal | Installation Instructions | CSI Specs | DWG Drawings |
|----------|------------------------|-------------------|----------------------|------------------------|-----------|------------------------------|-----------|-----------------|
| | | | | Blast Dampe | er | | | |
| HBS-330 | 77 x 96 | 4000 | 160 (5.77 psi) | 250°F | æ | x | w | A |
| HBS-430 | 36 x 48 | 4000 | 415 (15 psi) | 250°F | × | × | w | A |
| | | | | Tornado Damp | ber | | | |
| HTOD-330 | 48 x 60 | 4000 | 83 (3 psi) | 250°F | 2 | ٨ | w | A |

| Model | Plada Tuna | Velocity | Pressure | Maximum | Submittal | Installation | CSI Specs | Drav | vings | | | |
|--------------------------------|-------------|----------|----------|-------------|--------------------|--------------|-----------|------|-------|--|--|--|
| Model | Blade Type | (FPM) | (in. wg) | Temperature | Submittai | Instructions | CSI Specs | DWG | Revit | | | |
| True Round Bubble-Tight Damper | | | | | | | | | | | | |
| HBTR-151 | True Round | 3900 | 10 | 250°F | × | × | w_ | A | R | | | |
| HBTR-451 | True Round | 6500 | 30 | 250°F | x | x | w_ | A | - | | | |
| HBTR-551 | True Round | 6500 | 40 | 250°F | x | × | w_ | A | - | | | |
| | | | | Rectan | gular Bubble-Tight | Damper | | | | | | |
| HBT-221 | Rectangular | 4000 | 10 | 250°F | × | × | w_ | A | - | | | |
| HBT-321 | Rectangular | 4000 | 20 | 250°F | یم | Å | w. | A | - | | | |

| Maslal | T | Heater | Max | Airflow | Quinitial | Installation | | Drawings | | |
|--------|------------------------|-----------------------|----------|----------------------------|----------------|--------------|-----------|----------|-------|--|
| Model | Туре | Max Size | Capacity | Direction | Submittal | Instructions | CSI Specs | DWG | Revit | |
| | | | | | Duct Heaters | | | | | |
| IDHB | Basic | 36 x 36 or 35 x 34 | 39.9 kW | Horizontal, Vertical Up | <mark>گ</mark> | × | w | - | R | |
| IDHE | Universal | 120 x 144 | 478.8 kW | Universal | × | × | w | A | R | |
| IDHE-O | Universal - Outdoor | 120 x 58 | 478.8 kW | Universal | × | × | w | - | R | |





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