Damper Selection Guide











































			Leakage	Door	Velocity	Pressure			Installation			wings
Model	Door Type	Pressure Relief	Class	Maximum Size	(FPM)	(in. wg)	AMCA Listing	Submittal	Instructions	CSI Specs	PDF	DWG
					Ac	cess Doors						
CAD	Cam	-	-	24 x 24	-	41/2	-	A	-	w	*	A
HAD	Hinged	-	-	24 x 24	-	41/2	-	2	-	w	2	A
RAD	Round	-	-	16 x 12	-	20	-	2	-	w	2	A
					Re	elief Doors						
PRAD	-	Positive	-	24 x 24	-	12	-	2	2	w <u></u>	2	A
VRAD	-	Negative	-	24 x 24	-	12	-	2	2	w <u></u>	2	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	PDF	DWG
					Air Me	asuring Stat	ion					
AMS	-	-	-	60 x 72	300 - 3000	-	-	2	2	w	2	A
					Air Measuring	- Pressure	Differential					
AMD-23	3V	Galvanized Steel	1A	144 x 148	300 - 2000	4	Air Performance/ Air Leakage	1	2	will	2	A
AMD-33	Airfoil	Galvanized Steel	1A	144 x 148	300 - 3000	4	Air Performance/ Air Leakage	2	2	w	2	A
AMD-42	Airfoil	Aluminum	1A	144 x 148	300 - 3000	4	-	2	2	w	2	A
AMD-42V	Airfoil - Vertical	Aluminum	1A	74 x 48	300 - 3000	4	-	2	2	w	2	A
					Air Measuring	ı - Thermal I	Dispersion					
AMD-23-TD	3V	Galvanized Steel	1A	118 x 74	100 - 2000	4	-	2	2	will	2	A
AMD-33-TD	Airfoil	Galvanized Steel	1A	118 x 74	100 - 3000	4	-	2	2	w <u></u>	2	A
AMD-42-TD	Airfoil	Aluminum	1A	118 x 74	100 - 3000	4	-	2	2	w	2	A
AMD-42V-TD	Airfoil - Vertical	Aluminum	1A	74 x 60	100 - 3000	4	-	2	2	w	2	A

*Maximum size can be single or multiple sections.



















	Frame	Blade	Velocity	Pressure	Counter		rflow Direc	tion	Mounting	AMCA		Installation		Dra	wings
Model	Material	Material	(FPM)	(in. wg)	Balance	Vertical Up	Vertical Down	Horizontal		Listing	Submittal	Instructions	CSI Specs	PDF	DWG
							Comme	ercial Backdra	aft						
BD-100	Galv. Steel	Aluminum	1500	2		✓			Horizontal	Air Performance/ Air Leakage	یک	-	w	۵	A
BD-300	Galv. Steel	Aluminum	1500	2				✓	Vertical	Air Performance/ Air Leakage	۸	-	w	یک	A
EM-1x Series	Aluminum	Aluminum	3500	10	✓	✓			Horizontal	Air Performance/ Air Leakage	یک	人	w	۵	A
EM-3x Series	Aluminum	Aluminum	3500	10	✓			✓	Vertical	Air Performance/ Air Leakage	یک	人	w	۵	A
EM-4x Series	Aluminum	Aluminum	3500	10	✓		✓		Horizontal		2	1	w	1	A
EMV-11	Aluminum	Aluminum	3500	10	✓	✓			Horizontal		2	2	-	-	-
GM-3x Series	Galv. Steel	Aluminum	2500	4	✓			✓	Vertical		2	2	-	2	A
WD-1xx Series	Galv. Steel	Aluminum	2500	1		✓			Horizontal		2	-	will	2	A
WD-2xx Series	Galv. Steel	Aluminum	2500	1		✓	✓	✓	Horizontal, Vertical		2	-	w	2	A
WD-3xx Series	Galv. Steel	Aluminum	2500	2				✓	Vertical		2	-	w	2	A
WD-340	Galv. Steel	Aluminum	2500	2				✓	Vertical		2	-	w	2	A
WD-400, 420, 430	Galv. Steel	Aluminum	2500	2				✓	Vertical		2	-	w	1	A
WD-410	Galv. Steel	Aluminum	2500	2			✓		Horizontal		×	-	w	٨	A



















	Frame	Blade	Velocity	Pressure	Counter	A	irflow Direc	tion	Mounting		Installation		Drav	wings
Model	Material	Material	(FPM)	(in. wg)	Balance	Vertical Up	Vertical Down	Horizontal	_	Submittal	Instructions	CSI Specs	PDF	DWG
						True Rou	nd Commerc	cial Backdraft	t					
WDR-53	Galv. Steel	Aluminum	2000	3		✓	0	0	Horizontal, Vertical	2	-	w	2	A .
SSWDR-53	304SS	304SS	2000	3		✓	0	0	Horizontal, Vertical	2	-	w	2	A
						Heavy-D	Outy/Industri	al Backdraft						
HB-110	Galv. Steel	Aluminum	3900	5	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A .
HB-120	Galv. Steel	Galv. Steel	5150	8.5	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A .
HB-230	Galv. Steel	Galv. Steel	5150	13.5	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A .
HB-240	Galv. Steel	Aluminum	5150	13.5	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A .
HB-330	Galv. Steel	Galv. Steel	6400	20	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A
					Tru	e Round H	eavy-Duty/In	dustrial Back	draft					
HBR-050	Painted Steel	Painted Steel	3000	6	✓	0	0	✓	Horizontal, Vertical	2	2	w	2	A
HBR-150	Painted Steel	Painted Steel	4000	6	✓	0	0	✓	Horizontal, Vertical	2	2	w≣	2	A .







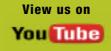




		Damper	Velocity	Pressure			Installation		Drav	vings
Model	Blade Type	Maximum Size	(FPM)	(in. wg)	Operator	Submittal	Instructions	CSI Specs	PDF	DWG
					Automatic Balancing Dampers					
ABD	Thermoplastic Round	8	425 cfm	2	-	2	2	w	2	A
ABD-RB	Thermoplastic Round	8	425 cfm	2	-	2	2	w	2	A
ABD-T	Thermoplastic Round	8	425 cfm	2	-	2	2	w	2	A .
ABD-FD	Thermoplastic Round/Curtain	6	275 cfm	2	-	2	2	-	2	A .
ABD-Z1	Thermoplastic Round/Galv. Steel	6	275 cfm	2	Actuator	2	,	w	1	A .
ABD-Z2	Thermoplastic Round/Galv. Steel	6	275 cfm	2	Actuator	2	2	w	-	A .
					Manual Balancing Dampers					
MBD-10	Single Blade	36 x 12	2000	2	Manual Quadrant or Cable Operated	2	2	w	2	A
MBD-15	3V	96 x 96	2000	4	Manual Quadrant or Cable Operated	2	2	w	2	A
MBDR-50	True Round	24	2000	1	Manual Quadrant or Cable Operated	2	-	w	۸	A
					Remote Balancing Dampers					
RBD-10	Single Blade	36 x 12	2000	1	Remote Control with 9 Volt Actuator	2	×	w	人	A
RBD-15	Multi-Blade	48 x 48	2000	4	Remote Control with 9 Volt Actuator	2	2	w	-	A
RBDR-50	True Round	24	2000	1	Remote Control with 9 Volt Actuator	2	2	w	2	A
					Bowtie Damper					
BTDR-50	True Round	15	1600	1	Cable Operated	2	人	-	-	A



















			Leakage	Damper l	Maximum Size	(Inches)		Installation		Draw	ings
Model	Blade Type	Fire Resistance Rating*	Class	Roof/Floor Assembly	Wood Truss Assembly	Wood Joist Assembly	Submittal	Instructions	CSI Specs	PDF	DWG
				Ceiling Rad	liation Dampers	5					
CRD-1	Butterfly	3 Hour	-	24 x 24	-	-	٨	2	w	人	A
CRD-1LP	Low Profile Butterfly	3 Hour	-	24 x 24	-	-	2	2	w	2	A
CRD-1WJ	Butterfly	1 Hour (UL Wood Joist)	-	-	-	16 x 12	2	2	w	*	A
CRD-1WT	Butterfly	1 Hour (UL Wood Truss)	-	-	21 x 18	-	2	2	w	人	A
CRD-2	Round Butterfly	3 Hour	-	24	-	-	2	2	w	人	A
CRD-2WT	Butterfly	1 Hour (UL Wood Truss)			12 x 12		2	2	w	人	A
CRD-60	Curtain	3 Hour	-	24 x 24	-	-	2	2	w	1	A
CRD-60X	Curtain w/Insulation skirt	3 Hour	-	24 x 24	-	-	2	2	w	٨	A
			Cei	iling Radiation D	ampers Leakaç	ge Rated					
CRD-501	True Round	3 Hour	ı	12	-	-	2	2	w	2	A

^{*} Fire rated floor/ceiling assemblies.

















Model	Blade	Fire Resistance		Damper M Size		Velocity	Pressure	AMCA	Submittal	Installation	CSI Specs		Drawings	
	Туре	Rating	Class	Horizontal	Vertical	(FPM)	(in. wg)	Listing		Instructions		PDF	DWG	Revit
						Corri	idor Fire Sn	noke						
CFSD-211	3V	1 hour	I	24 x 24	24 x 24	2000	6	Air Performance	,	2	w	2	A	-
					Tr	aditional C	ombination	Fire Smoke						
FSD-211	3V	1½ hour	I	144 x 96	128 x 100	2000	6	Air Performance	,	2	w	2	A	R
FSD-212	3V	1½ hour	II	144 x 96	128 x 100	2000	6	Air Performance	,	2	w	2	A	R
FSD-213	3V	1½ hour	III	144 x 96	128 x 100	2000	6	Air Performance	۸	2	w≣	٨	A	R
FSD-311	Airfoil	1½ hour	I	144 x 96	128 x 100	4000	8	Air Performance	2	2	w	2	A	R
FSD-312	Airfoil	1½ hour	II	144 x 96	128 x 100	4000	8	Air Performance	2	2	w	2	A	R
FSD-331	Airfoil	3 hour	I	120 x 96	120 x 96	4000	8	Air Performance	2	2	w	2	A	R
SEFSD-211	3V	1½ hour	I	48 x 30	88 x 72	2000	6	Air Performance	۸	2	w≣	٨	A	R
SSFSD-211	3V	1½ hour	I	48 x 30	88 x 72	2000	6	Air Performance	2	2	w	2	A	R
						Modul	ating Fire S	moke						
FSD-211M	3V	1½ hour	I	72 x 72	72 x 72	2000	4	Air Performance	2	2	w	2	A	R
FSD-311M	Airfoil	1½ hour	I	128 x 96	128 x 100	2000	4	Air Performance	1	2	w	2	A	R
						Vertical	Blade Fire	Smoke						
FSD-311V	Airfoil	1½ hour	I	-	100 x 32	4000	4	-	2	2	w	2	A	R

^{*}Maximum size can be single or multiple sections.

Combination Fire Smoke Dampers cont....











Model	Blade	Fire Resistance	U	Damper M Size		Velocity	Pressure	AMCA	Submittal	Installation	CSI Specs		Drawings	
2120 6702	Type	Rating	Class	Horizontal	Vertical	(FPM)	(in. wg)	Listing		Instructions	ост оросо	PDF	DWG	Revit
					(Out of Wall	Fire Smoke	•						
GFSD-211	3V	1½ hour	I	48 x 48	48 x 48	2000	4	-	2	2	w	2	A	R
OFSD-211	3V	1½ hour	I	36 x 36	36 x 36	2000	6	Air Performance	٨	2	w	2	A .	R
OFSD-212	3V	1½ hour	II	36 x 36	36 x 36	2000	6	Air Performance	1	2	w	2	A	R
OFSD-311	Airfoil	1½ hour	I	36 x 36	36 x 36	4000	8	Air Performance	٨	2	wi	2	A	R
					1	rue Round	Fire Smoke	•						
FSDR-511	True Round	1½ hour	ı	24	24	3000	4	-	٨	2	w≣	2	A	R
SSFSDR-511	True Round	1½ hour	ı	24	24	3000	4	-	2	2	will	۸	A	R

^{*}Maximum size can be single or multiple sections.



















		Damper	Velocity	Pressure	Leakage			Installation			Drawings	
Model	Blade Type	Maximum Size	(FPM)	(in. wg)	Class @ 1 in. wg	AMCA Listing	Submittal	Instructions	CSI Specs	PDF	DWG	Revit
					Commercia	Il Control Dampers						
VCD-20	3V	Unlimited	3000	5	-	Air Performance	1	2	w	2	A	R
VCD-23	3V	Unlimited	3000	5	1A	Air Performance Air Leakage	٨	2	w	2	A	R
VCD-33	Airfoil	Unlimited	4000	8	1A	Air Performance Air Leakage	1	2	w	2	A	R
VCD-34	Insulated Airfoil	Unlimited	4000	8	1A	Air Performance Air Leakage	1	2	w	2	A	R
VCD-40	Airfoil	Unlimited	6000	6	1A	Air Performance	1	2	w	2	A	R
VCD-42	Extruded Airfoil	Unlimited	6000	6	1A	-	٨	2	w≣	2	A	R
VCD-43	Extruded Airfoil	Unlimited	6000	8	1A	Air Performance Air Leakage	2	2	w	2	A	R
SEVCD-23	3V	Unlimited	3000	5	1A	Air Performance Air Leakage	1	2	w	2	A	R
SEVCD-33	Airfoil	Unlimited	4000	8	1A	Air Performance Air Leakage	,	2	w	2	A	R
					Face & Bypa	ss Control Dampers						
FBH-23	3V	144 x 74	3000	5	1A	-	2	2	w	2	A	-
FBV-23	3V	96 x 148	3000	5	1A	-	2	2	w	2	A .	-
FBH-33	Airfoil	156 x 74	4000	8	1A	-	2	*	w	*	A	-
FBV-33	Airfoil	120 x 120 or 96 x 148	4000	8	1A	-	1	2	w	2	A	-
FBH-43	Extruded Aluminum	156 x 74	6000	8	1A	-	2	2	w≣	2	A	-
FBV-43	Extruded Aluminum	120 x 120 or 96 x 148	6000	8	1A	-	٨	2	w	٨	A	-

Control Dampers cont....

















		Damper	Velocity	Pressure	Leakage			Installation			Drawings	
Model	Blade Type	Maximum Size	(FPM)	(in. wg)	Class @ 1 in. wg	AMCA Listing	Submittal	Instructions	CSI Specs	PDF	DWG	Revit
					Vertical Blad	e Control Dampers						
VCD-23V	3V	148 x 96	3000	5	1A	-	2	2	w	人	A	R
VCD-33V	Airfoil	148 x 120	4000	8	1A	-	2	2	w	*	A	R
VCD-34V	Insulated Airfoil	148 x 120	4000	8	1A	-	2	2	w	2	A	R
VCD-43V	Extruded Airfoil	148 x 120	6000	8	1A	-	2	2	w	2	A	R
				Insula	ited Thermally	Broken Control Dampers						
ICD-44	Extruded Aluminum	180 x 148	4000	8	1A	Air Performance/ Air Leakage/ Efficiency	2	2	w	2	A	-
ICD-45	Extruded Aluminum - Thermally Broken	180 x 120	4000	8	1A	Air Performance/ Air Leakage/ Efficiency	2	2	w	2	A	-
					True Round	Control Dampers						
VCDR-50	True Round	24	3000	4	-	-	2	2	w	2	A	-
VCDR-53	True Round	24	3000	4	1	-	یگ	2	w	2	A	-
				Tru	e Round Multi	blade Control Dampers						
VCDRM-53	Single Thickness	48	2500	5	1	-	۸	2	w	2	A	-















HCD-120 3V 96 x 96 3000 8.5 See Submittal			Damper	Velocity	Pressure	Leakage		Installation		Drav	vings
HCD-120 3V 96 x 96 3000 8.5 See Submittal	Model	Blade Type	Maximum Size	•		Class @ 1 in. wg	Submittal		CSI Specs	PDF	DWG
HCD-130				Не	avy-Duty/Ir	ndustrial Contro	Dampers				
HCD-130-LE Airfoil 120 x 96 4000 8.5 See Submittal	HCD-120	3V	96 x 96	3000	8.5	See Submittal	2	2	w≣	1	A
HCD-135 Insulated Airfoil 120 x 96 4000 8.5 See Submittal	HCD-130	Airfoil	120 x 96	4000	8.5	See Submittal	2	2	wi	2	A
HCD-220 3V 96 x 96 4000 15 See Submittal	HCD-130-LE	Airfoil	120 x 96	4000	8.5	See Submittal	2	۸	w	-	-
HCD-221 Flat Dual Skin w/ Perimeter Seal 96 x 60 4000 10 Less than 1	HCD-135	Insulated Airfoil	120 x 96	4000	8.5	See Submittal	2	2	w	2	A
HCD-230	HCD-220	3V	96 x 96	4000	15	See Submittal	2	2	w	2	A
HCD-230-LE	HCD-221		96 x 60	4000	10		2	2	will	٨	A
HCD-240 Extruded Airfoil 120 x 96 5000 15 See Submittal	HCD-230	Airfoil	120 x 96	5000	15	See Submittal	2	2	wi	2	A
HCD-324 High Temp Airfoil 48 x 60 5000 25 See Submittal	HCD-230-LE	Airfoil	120 x 96	5000	15	See Submittal	2	2	w	-	-
HCD-330	HCD-240	Extruded Airfoil	120 x 96	5000	15	See Submittal	2.	*	wil	2	A
HCD-430	HCD-324	High Temp Airfoil	48 x 60	5000	25	See Submittal	2.	2	will	2	A
HCD-524 High Temp Airfoil 60 x 60 5000 45 See Submittal	HCD-330	Airfoil	120 x 96	5000	25	See Submittal	2	2	will	2	A
HCD-530 Airfoil 120 x 96 6000 45 See Submittal	HCD-430	Airfoil	120 x 96	6000	35	See Submittal	2	2	will	2	A
True Round Heavy-Duty/Industrial Control Dampers HCDR-050 True Round 24 3000 6 See Submittal Image: Control Dampers HCDR-150 True Round 48 4000 6 See Submittal Image: Control Dampers HCDR-150 True Round 48 4000 6 See Submittal Image: Control Dampers HCDR-150 True Round 48 4000 6 See Submittal Image: Control Dampers HCDR-150 True Round 48 4000 6 See Submittal Image: Control Dampers HCDR-150 True Round 72 5150 13.5 See Submittal Image: Control Dampers HCDR-250 True Round 72 5150 13.5 See Submittal Image: Control Dampers	HCD-524	High Temp Airfoil	60 x 60	5000	45	See Submittal	2	2	w	2	A
HCDR-050 True Round 24 3000 6 See Submittal Image: Control of the control of	HCD-530	Airfoil	120 x 96	6000	45	See Submittal	2	٨	will	2	A
HCDR-150 True Round 48 4000 6 See Submittal Image: Control of the control of				True Rou	ınd Heavy-I	Outy/Industrial C	ontrol Damp	ers			
HCDR-152 Two-Blade 48 4000 6 See Submittal Image: Control of the control of	HCDR-050	True Round	24	3000	6	See Submittal	2	2	w 🗐	1	A
HCDR-250 True Round 72 5150 13.5 See Submittal	HCDR-150	True Round	48	4000	6	See Submittal	2	2	w≣	2	A
	HCDR-152	Two-Blade	48	4000	6	See Submittal	1	2	w	2	A
HCDR-350 True Round 72 6400 20 See Submittal	HCDR-250	True Round	72	5150	13.5	See Submittal	2	2	will	یگ	A
1.521.555	HCDR-350	True Round	72	6400	20	See Submittal	٨	2	wil	2	A
HCDR-351 True Round 48 6500 20 See Submittal 🚨 🚨	HCDR-351	True Round	48	6500	20	See Submittal	٨	*	w	2	A
HCDR-450 True Round 60 7000 30 See Submittal Image: Control of the property of th	HCDR-450	True Round	60	7000	30	See Submittal	2	2	₩≣	2	A

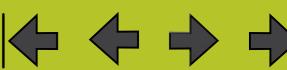












Model	Blade	Fire Resistance	Closure	Damper M Size		Velocity	Pressure	AMCA Listing	Submittal	Installation	CSI Specs	Draw	vings
-12000	Туре	Rating	Rating	Horizontal	Vertical	(FPM)	(in. wg)			Instructions		PDF	DWG
						Multi	blade Fire						
DFD-210	3-V	1½ hour	Dynamic	128 x 96	128 x 100	4000	10	Air Performance	*	2	w	*	A
DFDAF-310	Airfoil	1½ hour	Dynamic	144 x 96	128 x 100	4000	8	Air Performance	2	2	w	2	A
DFDAF-330	Airfoil	3 hour	Dynamic	144 x 96	120 x 96	4000	8	Air Performance	2	2	w	<u> </u>	A
SEDFD-210	3-V	1½ hour	Dynamic	48 x 30	48 x 30	4000	10	Air Performance	2	2	w	1	A
						Out	of Wall Fire						
ODFD-150	Curtain	1½ hour	Dynamic	36 x 36	36 x 36	4000	4	-	2	2	w	<u> </u>	A
OFD-150	Curtain	1½ hour	Static	36 x 36	36 x 36	-	-	-	2	2	w≣	2	A
						True	Round Fire						
DFDR-510	True Round	1½ hour	Dynamic	24	24	2000	4	-	2	2	w≣	2	A
SSDFDR-510	True Round	1½ hour	Dynamic	24	24	2000	4	-	2	2	w	2	A
						Tradition	al Curtain Fi	ire					
DFD-110	Curtain	1½ hour	Dynamic	48 x 36	72 x 48	4000	4	-	2	2	w≣	2	A
DFD-150	Curtain	1½ hour	Dynamic	48 x 36	72 x 48 or 60 x 60 or 120 x 30	4000	4	-	2	,	w	2	A
DFD-310	Curtain	3 hour	Dynamic	40 x 36	48 x 48	4000	4	-	2	2	w	2	A
DFD-350	Curtain	3 hour	Dynamic	40 x 36	48 x 48	4000	4	-	2	2	w	2	A

^{*}Maximum size can be single or multiple sections.

















Fire Dampers cont...



Model	Blade	Fire Resistance	Closure	Damper M Size		Velocity	Pressure		Submittal	Installation	CSI Specs	Draw	vings
2120002	Туре	Rating	Rating	Horizontal	Vertical	(FPM)	(in. wg)		0,000.111.000.1	Instructions	SSI SPEC	PDF	DWG
					Trad	itional Cur	tain Fire cor	ntinued					
FD-110	Curtain	1½ hour	Static	96 x 48	96 x 48	-	-		2	2	₩≣	*	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	-	-		2	2	w	۸	A
FD-310	Curtain	3 hour	Static	-	48 x 48	-	-		2	2	w≣	2	A
FD-350	Curtain	3 hour	Static	80 x 40	48 x 48	-	-		2	2	w	2	A
KFD-150	Curtain	1½ hour	Static	48 x 48	-	-	-		2	2	-	2	A
KFD-350	Curtain	3 hour	Static	40 x 40	-	-	-		2	2	-	2	A
SSDFD-150	Curtain	1½ hour	Dynamic	-	30 x 30	2000	4		1	2	w	2	A
SSDFD-350	Curtain	3 hour	Dynamic	-	30 x 30	2000	4		٨	2	w	2	A
SSFD-150	Curtain	1½ hour	Static	36 x 36	96 x 48 or 120 x 40	-	-		٨	2	w	2	A
SSFD-350	Curtain	3 hour	Static	-	48 x 48	-	-		2	2	w	2	A
					C	urtain Fire	- Integral S	leeve					
DFD-150X12	Curtain	1½ hour	Dynamic	30 x 30	36 x 36	4000	4		2	2	w≣	2	A
DFD-150X16	Curtain	1½ hour	Dynamic	30 x 30	36 x 36	4000	4		2	2	w	2	A
FD-150X12	Curtain	1½ hour	Static	48 x 48	48 x 48	-	-		2	2	w	2	A
FD-150X16	Curtain	1½ hour	Static	48 x 48	48 x 48	-	-		<u>بر</u>	2	w	2	A

*Maximum size can be single or multiple sections.



















Model	Die de Terre	Leakage	Damper Max	kimum Size*	Velocity	Pressure	AMCA Linding	Ch	Installation	CCIC		Drawings	
Model	Blade Type	Class	Horizontal	Vertical	(FPM)	(in. wg)	AMCA Listing	Submittal	Instructions	CSI Specs	PDF	DWG	Revit
					Traditio	nal Smoke							
SMD-201	3V	I	144 x 96, 128 x 100, or 288 x 50	144 x 96, 128 x 100, or 288 x 50	2000	6	Air Performance	1	2	w	2	A	R
SMD-201M	3V	I	72 x 72	72 x 72	2000	4	Air Performance	1	1	w	1	A	R
SMD-202	3V	II	144 x 96, 128 x 100, or 288 x 50	144 x 96, 128 x 100, or 288 x 50	2000	6	Air Performance	1	1	w	1	A	R
SMD-301	Airfoil	I	192 x 100	192 x 100	4000	8	Air Performance	1	٨	w	1	A	R
SMD-301M	Airfoil	I	128 x 100	128 x 100	2000	4	Air Performance	1	1	w	1	A	R
SMD-302	Airfoil	II	192 x 100	192 x 100	4000	8	Air Performance	٨	2	w	2	A	R
SMD-302M	Airfoil	II	128 x 100	128 x 100	2000	4	Air Performance	٨	2	w	2	A	R
SMD-401	Extruded Airfoil	I	192 x 120	192 x 120	3000	6	-	1	2	w	人	A	R
SMD-401EF	Extruded Airfoil	I	192 x 120	192 x 120	3000	6	Air Performance	1	1	w	人	A	R
SMD-401M	Extruded Airfoil	I	36 x 72	36 x 72	2000	4	-	1	1	w	人	A	R
SESMD-201	3V	I	48 x 72	88 x 72	2000	6	Air Performance	1	1	w	2	A	R
SSSMD-201	3V	I	48 x 72	88 x 72	2000	6	Air Performance	1	1	w	人	A	R
					Vertical E	Blade Smoke	•						
SMD-301V	Airfoil	I	-	100 x 32	4000	4	-	1	2	w	*	A	R
					True Ro	und Smoke							
SMDR-501	True Round	I	24	24	3000	4	-	٨	人	w	2	A	-
SSSMDR-501	True Round	I	24	24	3000	4	-	٨	2	w	2	A	-

*Maximum size can be single or multiple sections.



















	Frame	Blade	Counter	Velocity	Back	A	irflow Direc	ction	Mounting		Installation	CSI	Draw	rings
Model	Material Material	Material	Balance	(FPM)	Pressure (in. wg)	Vertical Up	Vertical Down	Horizontal	Position	Submittal	Instructions	Specs	PDF	DWG
						Ba	rometric Rel	ief						
BR-1x Series	Galv. Steel	Aluminum	✓	2000	2	✓			Horizontal	2	2	w	1	A
BR-3x Series	Galv. Steel	Aluminum	✓	2000	2			✓	Vertical	2	2	w	2	A
BR-4x Series	Galv. Steel	Aluminum	✓	2000	2		✓		Horizontal	2	2	w	2	A
SEBR-1x Series	316SS	316SS	✓	2000	2	✓			Horizontal	2	2	w	2	A
SEBR-3x Series	316SS	316SS	✓	2000	2			✓	Vertical	2	2	w	2	A
SEBR-4x Series	316SS	316SS	✓	2000	2		✓		Horizontal	2	2	w	2	A
					Н	eavy-Duty/I	ndustrial Pro	essure Relief						
HPR-120	Galv. Steel	Galv. Steel	✓	5150	8.5	✓	✓	✓	Horizontal, Vertical	2.	2	w	2	A
HPR-230	Galv. Steel	Galv. Steel	✓	5150	13.5	✓	✓	✓	Horizontal, Vertical	2	2	w	2	A
HPR-330	Galv. Steel	Galv. Steel	✓	6400	20	✓	✓	✓	Horizontal, Vertical	2	2	w	۸	A

















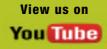


Model	Blade Type	Damper Maximum	Velocity	Pressure	Maximum	Submittal	Installation	CSI Specs		vings
1/10001	Diade Type	Size	(FPM)	(in. wg)	Temperature		Instructions	der opees	PDF	DWG
				Heavy-Duty	Industrial Contro					
HCD-120	3V	96 x 96	3000	8.5	400°F	2	2	w	2	A
HCD-130	Airfoil	120 x 96	4000	8.5	400°F	*	1	w	2	A .
HCD-130-LE	Airfoil	120 x 96	4000	8.5	400°F	Å	2	w	-	A
HCD-135	Insulated Airfoil	120 x 96	4000	8.5	250°F	2	2	w	2	A
HCD-220	3V	96 x 96	4000	15	600°F	2	2	w	2	A
HCD-221	Flat Dual Skin w/ Perimeter Seal	96 x 60	4000	10	400°F	2	<u>بد</u>	w	2	A
HCD-230	Airfoil	120 x 96	5000	15	600°F	2	2	w	۸	A
HCD-230-LE	Airfoil	120 x 96	5000	15	600°F	2	Å	w	-	A
HCD-240	Extruded Airfoil	120 x 96	5000	15	250°F	2	2	w	2	A
HCD-324	High Temp Airfoil	48 x 60	5000	25	1000°F	2	2	w	2	A
HCD-330	Airfoil	120 x 96	5000	25	600°F	2	,	w	2	A
HCD-430	Airfoil	120 x 96	6000	35	600°F	2	2	w	2	A
HCD-524	High Temp Airfoil	60 x 60	5000	45	1000°F	2	2	w	2	A
HCD-530	Airfoil	120 x 96	6000	45	600°F	2	<u>بد</u>	w	2	A
			H	leavy-Duty/Ind	lustrial Round Co	ntrol Dampers				
HCDR-050	True Round	24	3000	6	250°F	2	2	w	۸	A
HCDR-150	True Round	48	4000	6	400°F	2	2	w	2	A
HCDR-152	Two-Blade	48	4000	6	400°F	2	<u>بد</u>	w	2	A
HCDR-250	True Round	72	5150	13.5	600°F	2	<u>بد</u>	w	٨	A
HCDR-350	True Round	72	6400	20	1000°F	2	<u>بد</u>	w	٨	A
HCDR-351	True Round	48	6500	20	400°F	2	<u>ب</u>	w	2	A
HCDR-450	True Round	60	7000	30	400°F	2	2	w	2	A

Heavy-Duty Dampers cont...

















Model	Frame	Blade	Counter	Velocity	Back Pressure	A	Airflow Direction		Mounting	Submittal	Installation	CSI	Drav	vings
Model	Material	Material	Balance	(FPM)	(in. wg)	Vertical Up	Vertical Down	Horizontal	Position	Subilittal	Instructions	Specs	PDF	DWG
					н	eavy-Duty/Ind	ustrial Pressure F	Relief						
HPR-120	Galv. Steel	Galv. Steel	✓	5150	8.5	0	0	✓	Horizontal, Vertical	2	2	w	2	A
HPR-230	Galv. Steel	Galv. Steel	✓	5150	13.5	0	0	✓	Horizontal, Vertical	2	2	w	2	A
HPR-330	Galv. Steel	Galv. Steel	✓	6400	20	0	0	✓	Horizontal, Vertical	2	2	w	2	A

	Enous e	Diada	Valasita	D		Airflo	ow Direction			Massatina		Installation	CSI	Draw	rings
Model	Frame Material	Blade Material	Velocity (FPM)	Pressure (in. wg)	Vertical Up	Vertical Down	Horizontal	Angular Up	Angular Down	Mounting Position	Submittal	Installation Instructions	Specs	PDF	DWG
						Heavy-Duty	/Industrial Ba	ckdraft							
HB-110	Galv. Steel	Aluminum	3900	5	0	0	✓	0	0	Horizontal, Vertical	2	2	wil	2	A
HB-120	Galv. Steel	Galv. Steel	5150	8.5	0	0	✓	0	0	Horizontal, Vertical	2	<u> ,</u>	w	2	A
HB-230	Galv. Steel	Galv. Steel	5150	13.5	0	0	✓	0	0	Horizontal, Vertical	2	<u> </u>	w	2	A
HB-240	Galv. Steel	Aluminum	5150	13.5	0	0	✓	0	0	Horizontal, Vertical	2	1	w	2	A
HB-330	Galv. Steel	Galv. Steel	6400	20	0	0	✓	0	0	Horizontal, Vertical	*	1	w	2	A
					Tru	ie Round Heav	y-Duty/Indust	rial Backdr	raft						
HBR-050	Galv. Steel	Galv. Steel	3000	6	0	0	✓			Horizontal, Vertical	2	<u>,</u> ,	wil	2	A
HBR-150	Painted Steel	Painted Steel	4000	6	0	0	✓			Horizontal, Vertical	2	<u>,</u> ,	w 📃	2	A



















			Spe	ecialty Application	HD Dampers				
Model	Blast Direction	Velocity (FPM)	Pressure (in. wg)	Maximum Temperature	Submittal	Installation Instructions	CSI Specs	Drav PDF	vings DWG
			, O	Blast Dam	per				
HBS-330	Same as Normal Airflow	500-6400	160 (5.77 psi)	250°F	2	2	w	<u>ب</u>	A
HBS-331	Opposite Normal Airflow	500-6400	160 (5.77 psi)	250°F	2	2	w	2	A
HBS-430	Same as Normal Airflow	500-4000	415 (15 psi)	250°F	2	2	w	2	A
HBS-431	Opposite Normal Airflow	500-4000	415 (15 psi)	250°F	2	2	w	2	A
				Tornado Da	mper				
HTOD-330	Same as Normal Airflow	500-6400	83	250°F	2	2	w	2	A
HTOD-331	Opposite Normal Airflow	500-6400	83	250°F	2	2	w	2	A

Model	Diada Tuna	Velocity	Pressure	Maximum	Submittal	Installation	CSI Specs	Drav	vings
Model	Blade Type	(FPM)	(in. wg)	Temperature	Submittai	Instructions	CSI Specs	PDF	DWG
				Rectangula	ar Shock and Toxic G	as Damper			
HSV-230	Fabricated Airfoil	5000	15	250°F	2	-	-	<u>ب</u>	A
HTG-230	Fabricated Airfoil	5000	15	250°F	2	-	-	-	A
				True Roun	d Shock and Toxic G	as Damper			
HSVR-250	True Round	4000	13.5	400°F	٨	-	-	2	A
HTGR-250	True Round	4000	13.5	400°F	2	-	-	-	A















Model	Blade Type	Damper	Velocity		Pressure	NFPA 130	NFPA 502	BS476	Submittal	Installation	CSI Specs	Drav	vings
1/10001	Diage Type	Maximum Size	(FPM)	Temperature	(in. wg)	111111111111111111111111111111111111111	11111002	20110	Susmitta	Instructions	der opees	PDF	DWG
					Tu	nnel Transit							
HTD-621	Dual Skin w/ Perimeter Seal	60 x 96	4000	250°F continuous; 482°F for 2 hours	24	✓	✓		2	2	-	Consult	Factory
HTD-630	Airfoil	60 x 96 or 72 x 120	4000	250°F continuous; 482°F for 2 hours	24	✓	✓		2	2	-	Consult	Factory
HTD-636	Airfoil	48 x 96	4000	482°F for 2 hours; 752°F for 1 hour	24	✓	✓	✓	2	2	-	Consult	Factory
HTD-640	Extruded Airfoil	48 x 96	4000	250°F continuous; 482°F for 1 hour	24	✓			2	2	-	Consult	Factory

Model	Blade Type	Velocity	Pressure	Maximum	Submittal	Installation	CSI Specs	Drav	vings
Model	brade Type	(FPM)	(in. wg)	Temperature	Sublilitial	Instructions	Cor opecs	PDF	DWG
				True R	Round Bubble-Tight I	Damper			
HBTR-151	True Round	3900	10	250°F	یک	2	w	ک	A
HBTR-451	True Round	6500	30	250°F	يك ا	2	w	2	A
HBTR-551	True Round	6500	30	250°F	2	*	w	2	A
				Recta	ngular Bubble-Tight [Damper			
HBT-221	Rectangular	3900	10	250°F	2	2	w≣	2	A

M 1.1	'T'	Heater Max		At a Di di	0.1.21	Installation	COLO	Drav	vings
Model	Type	Size	Capacity	Airflow Direction	Submittal	Instructions	CSI Specs	DWG	Revit
					Duct Heaters				
IDHB	Basic	36 x 36 or 35 x 34	39.9 kW	Horizontal, Vertical Up	2	<u>ب</u>	w	-	R
IDHE	Universal	120 x 144	478.8 kW	Universal	2	2	w	A GAO	R
IDHE-O	Universal - Outdoor	120 x 58	478.8 kW	Universal	2	2	w	-	R













