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.











7



		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.









4

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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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