

Heavy Duty/Industrial Damper Product Selection Guide

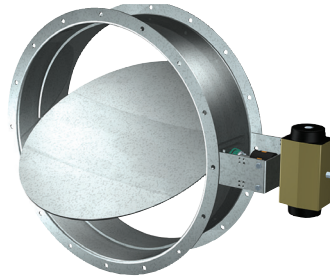


Greenheck offers a wide variety of products for industrial and severe environment applications. This product selection guide is a quick reference to our heavy duty/industrial damper offering. In addition to the standard products, Greenheck's experienced staff can also work with you to develop custom products to meet your application needs. For more information on heavy duty/industrial dampers, visit our web site at www.greenheck.com or contact your local Greenheck representative.

Industrial Round Control - HCDR series

Applications

- Process Control
- Flue Gas Stack
- System Isolation
- Spiral Duct for Larger Sizes
- Dust Collection Systems
- Pneumatic Conveying Systems



Industrial Control - HCD series

Applications

- Air Handling
 - Makeup
 - Return
 - Supply
- Process Control
- Pressure Control
- Isolation - Duct/Fan



Models	Blade Type	Max. Velocity	Max. Pressure*	Temperature Ranges
		fpm (m/s)	in. wg (kPa)	°F (°C)
HCD-120	3-V	3000 (15.2)	8.5 (2.1)	-40 to 400 (-40 to 204)
HCD-130	Airfoil	4000 (20.3)	8.5 (2.1)	-40 to 400 (-40 to 204)
HCD-135	Airfoil- Insulated	4000 (20.3)	8.5 (2.1)	-40 to 250 (-40 to 121)
HCD-140	Airfoil	6000 (30.5)	6 (1.5)	-40 to 250 (-40 to 121)
HCD-220	3-V	4000 (20.3)	15 (3.7)	-60 to 600 (-51 to 315)
HCD-230	Airfoil	5000 (25.4)	15 (3.7)	-60 to 600 (-51 to 315)
HCD-240	Airfoil	5000 (25.4)	15 (3.7)	-60 to 250 (-51 to 121)
HCD-330	Airfoil	5000 (25.4)	25 (6.2)	-60 to 600 (-51 to 315)
HCD-430	Airfoil	6000 (30.5)	35 (8.7)	-60 to 600 (-51 to 315)
HCD-530	Airfoil	6000 (30.5)	45 (11.2)	-60 to 600 (-51 to 315)
HCDR-050	Round	4000 (20.3)	6 (1.5)	-40 to 250 (-40 to 121)
HCDR-150	Round	4000 (20.3)	6 (1.5)	-60 to 400 (-51 to 204)
HCDR-250	Round	5150 (26.2)	13.5 (3.4)	-60 to 600 (-51 to 315)
HCDR-350	Round	6400 (32.5)	20 (5)	-60 to 1000 (-51 to 538)

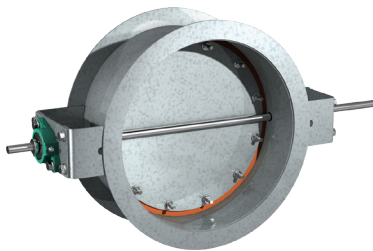
Industries Served

- Power Generation
- Paint Booths
- Pollution Control
- General Industry
- Nuclear
- Heavy Manufacturing
- Heat Recovery
- Processing Applications
- Dirty Air Applications
- High Temperature Application

Isolation Control - HCDR-351 & HBTR Series

Applications

- Clean rooms
- Medical Facilities
- Food Processing
- Laboratories
- Federal Buildings
- Microelectronic Manufacturing



Models	Max. Velocity	Max. Pressure*	Temperature Ranges
	fpm (m/s)	in. wg (kPa)	°F (°C)
HCDR-351	6500 (33)	20 (5)	-60 to 400 (-51 to 204)
HBTR-151	3900 (19.8)	10 (2.5)	-40 to 250 (-40 to 121)
HBTR-451	6500 (33)	30 (7.5)	-40 to 250 (-40 to 121)

* Maximum pressure and velocity are size dependent. Contact Greenheck for specific information.

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Backdraft - HB & HBR series

Applications

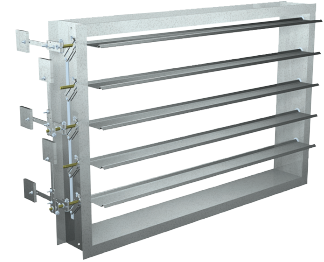
- Blower Outlets
- Branch Duct Isolation
- Industrial Process Isolation
- Emergency Generator Radiator Outlets



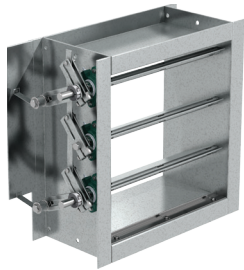
Pressure Relief - HPR series

Applications

- Fume Exhaust
- Duct/Plenum Protection
- Nominal Pressure Control



Models	Max. Back Pressure	Start - Open Pressure	Pressure Relief	Velocity	Temperature Ranges
	in. wg (kPa)			fpm (m/s)	°F (°C)
HBR-050	6 (1.5)	0.12 (0.03)	-	4000 (20.3)	-20 TO 250 (-29 TO 121)
HB-110	5 (1.2)	0.02 (0.005)	-	3900 (20)	-20 TO 200 (-29 TO 93)
HB-120	8.5 (2.1)	0.045 (0.11)	-	5150 (26)	-20 to 250 (-29 to 121)
HB-230	13.5 (3.4)	0.04 (0.01)	-	5150 (26)	-40 to 250 (-40 to 121)
HB-240	13.5 (3.4)	0.04 (0.01)	-	5150 (26)	-40 to 250 (-40 to 121)
HB-330	20 (5)	0.25 (0.06)	-	6400 (33)	-40 to 250 (-40 to 121)
HPR-120	8.5 (2.1)	-	0.1 - 2 (0.02 - 0.5)	5150 (26)	-20 TO 250 (-29 TO 121)
HPR-230	13.5 (3.4)	-	0.25 - 4 (0.06 - 1)	5150 (26)	-40 TO 250 (-40 TO 121)
HPR-330	20 (5)	-	0.50 - 6 (0.12 - 1.5)	6400 (33)	-40 TO 250 (-40 TO 121)



Blast - HBS series

Applications

- Personnel Protection
- Equipment Protection
- Blast Containment

Models	Max. Velocity	Temperature Ranges	Pressure Rise/Decrease
	fpm (m/s)	°F (°C)	
HBS-330	6400 (32.5)	-40 to 250 (-40 to 121)	5.77 psi
HBS-331	6400 (32.5)	-40 to 250 (-40 to 121)	5.77 psi
HBS-430	4000 (20.3)	-40 to 250 (-40 to 121)	15 psi
HBS-431	4000 (20.3)	-40 to 250 (-40 to 121)	15 psi
HTOD-330	6400 (32.5)	-40 to 250 (-40 to 121)	3 psi
HTOD-331	6400 (32.5)	-40 to 250 (-40 to 121)	3 psi

Tornado - HTOD series

Applications

- Personnel Protection
- Duct Protection



Smoke - HSD series

Applications

- Smoke Containment
- Personnel Protection



Models	Max. Velocity	Max. Pressure*	Temperature Ranges	UL555S Leakage Class
	fpm (m/s)	in. wg (kPa)	°F (°C)	
HSD-401	3000 (15.2)	6 (1.5)	-40 to 250 (-40 to 121)	I

* Maximum pressure and velocity are size dependent. Contact Greenheck for specific information.

