

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

Model
Maximum Temperature °F (°C)

		Pressure - in. wg (kPa)			
		<=6 (1.5)	6.1 - 13.5 (1.5-3.3)	13.6 - 20 (3.4-5)	>20 (5)
Velocity - fpm (m/s)	<=4000 (20.3)	HCDR-150 400° (204°)	HCDR-250 1500° (816°)	HCDR-350 1500° (816°) HCDR-351 800° (427°)	Consult Factory
	4001 - 5150 (20.3-26.1)	HCDR-250 1500° (816°)	HCDR-250 1500° (816°)	HCDR-350 1500° (816°) HCDR-351 800° (427°)	Consult Factory
	5151 - 6400 (26.2-32.5)	HCDR-350 1500° (816°)	HCDR-350 1500° (816°)	HCDR-350 1500° (816°) HCDR-351 800° (427°)	Consult Factory
	6401 - 6500 (32.5-33)	HCDR-351 800° (427°)	HCDR-351 800° (427°)	HCDR-351 800° (427°)	Consult Factory
	>=6501 (33)	Consult Factory	Consult Factory	Consult Factory	Consult Factory

* Special design required for temperatures over 400°F (204°C), consult factory.

Industrial Control- HCD series



Model
Maximum Temperature °F (°C)
Blade Profile

Applications

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

		Pressure in. wg (kPa)						
		<=6 (1.5)	6.1 - 8.5 (1.5-2.1)	8.6 - 15 (2.1-3.7)	15.1 - 25 (3.8-6.2)	25.1 - 35 (6.3-8.7)	35.1 - 45 (8.7-11.2)	>45 (11.2)
Velocity - fpm (m/s)	<=3000 (15)	HCD-120 400° (204°) Galvanized 3-V	HCD-120 400° (204°) Galvanized 3-V	HCD-220 1500° (816°) Galvanized 3-V	HCD-330 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-530 1500° (816°) Galvanized Airfoil	Consult Factory
	3001 - 3500 (15-18)	HCD-130 400° (204°) Galvanized Airfoil	HCD-130 400° (204°) Galvanized Airfoil	HCD-220 1500° (816°) Galvanized 3-V	HCD-330 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-530 1500° (816°) Galvanized Airfoil	Consult Factory
		HCD-135 250° (121°) Insulated Airfoil	HCD-135 250° (121°) Insulated Airfoil					
	3501 - 4000 (18-20)	HCD-130 400° (204°) Galvanized Airfoil	HCD-130 400° (204°) Galvanized Airfoil	HCD-220 1500° (816°) Galvanized 3-V	HCD-330 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-530 1500° (816°) Galvanized Airfoil	Consult Factory
		HCD-135 250° (121°) Insulated Airfoil	HCD-135 250° (121°) Insulated Airfoil					
	4001 - 5000 (20-25)	HCD-140 250°(121°) Aluminum Airfoil	HCD-230 1500° (816°) Galvanized Airfoil	HCD-230 1500° (816°) Galvanized Airfoil	HCD-330 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-530 1500° (816°) Galvanized Airfoil	Consult Factory
HCD-240 400° (204°) Aluminum Airfoil			HCD-240 400° (204°) Aluminum Airfoil					
5001 - 6000 (25-31)	HCD-140 250°(121°) Aluminum Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-430 1500° (816°) Galvanized Airfoil	HCD-530 1500° (816°) Galvanized Airfoil	Consult Factory	
>6001 (31)	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory	

* Special design required for temperatures over 400°F (204°C), consult factory.

Options Available

Wide variety of options are available such as actuators, corrosive resistant finishes, bearings, axle, blade, and jamb seals.

Heavy Duty/Industrial Damper Product Selection Guide

Pressure Relief - HPR series



Model
Back Pressure in. wg
Maximum Temperature °F (°C)
Blade Profile

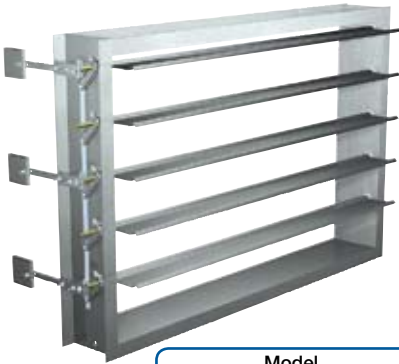
Applications

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

		Pressure Relief in. wg (kPa)			
		<=2 (0.5)	4 (1.0)	6 (1.5)	>6 (1.5)
Velocity fpm (m/s)	<=5150 (26)	HPR-120 8.5 (2.1) 250° (121°) Galvanized 2V	HPR-230 13.5 (3.4) 250° (121°) Galvanized Airfoil	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	Consult Factory
		HPR-230 13.5 (3.4) 250° (121°) Galvanized Airfoil	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	Consult Factory
	5151-6400 (26.1-33)	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	HPR-330 20 (5.0) 250° (121°) Galvanized Airfoil	Consult Factory
	>6400 (33)	Consult Factory	Consult Factory	Consult Factory	Consult Factory

* Special design required for temperatures over 250°F (121°C), consult factory.

Backdraft - HB series



Model
Maximum Temperature °F (°C)
Blade Profile

Applications

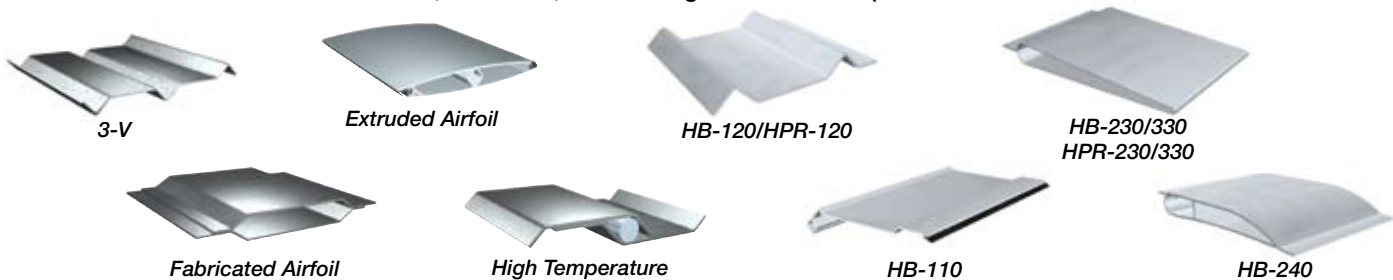
- Blower Outlets
- Branch Duct Isolation
- Industrial Process Isolation
- Emergency Generator Radiator Outlets

		Maximum Pressure in. wg (kPa)				
		<=5 (1.2)	8.5 (2.1)	13.5 (3.4)	20 (5.0)	>20 (5.0)
Velocity fpm (m/s)	<=3900 (20)	HB-110 180°F (82°) Aluminum Single Thickness	HB-120 250° (121°) Galvanized 2V	HB-230 250° (121°) Galvanized Airfoil	HB-330 250° (121°) Galvanized Airfoil	Consult Factory
				HB-240 250° (121°) Aluminum Airfoil		
	5150 (26)	HB-120 250° (121°) Galvanized 2V	HB-120 250° (121°) Galvanized 2V	HB-230 250° (121°) Galvanized Airfoil	HB-330 250° (121°) Galvanized Airfoil	Consult Factory
				HB-240 250° (121°) Aluminum Airfoil	HB-330 250° (121°) Galvanized Airfoil	Consult Factory
6400 (33)	HB-330 250° (121°) Galvanized Airfoil	HB-330 250° (121°) Galvanized Airfoil	HB-330 250° (121°) Galvanized Airfoil	HB-330 250° (121°) Galvanized Airfoil	Consult Factory	
>6400 (33)	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory	

* Special design required for temperatures over 250°F (121°C), consult factory.

Blades

Several blade options are available to meet different pressure drop and strength requirements in each damper series. Most blades are offered in the same material, thickness, and coatings found on damper frames.



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