

SECTION J



**Wall Mounted  
Displacement  
Diffusers**



# Protective Film

Price is proud to offer a protective plastic film on the face and inlet of displacement ventilation products for protection during shipping and installation.

The protective film:

- Helps protect the diffuser face from damage during shipping and installation
- Seals the inlet and face of the diffuser of most models during installation
- Can contribute to IEQ Credit 3.1: Construction Indoor Air Quality Management Plan – During Construction, LEED for New Construction and Renovations 2009

Available for  
Price's entire  
Displacement  
Ventilation  
Product Offering.



Protects the diffuser face from damage

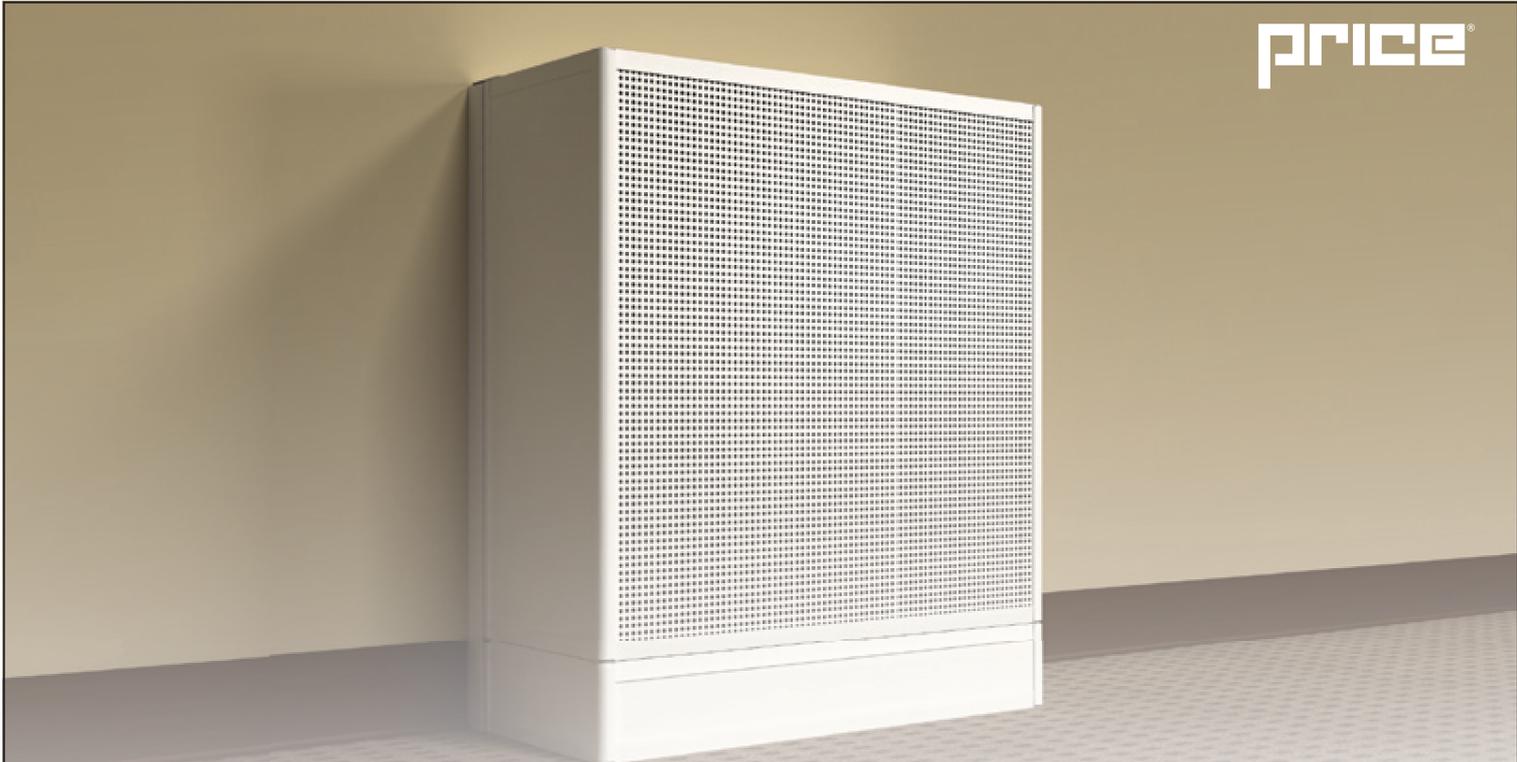


Seals the face of the diffuser



Seals the inlet of the diffuser

[priceindustries.com](http://priceindustries.com) for additional product information, including product videos and brochures.



# Wall Mounted Diffusers

Price Wall Mounted Displacement Diffusers supply fresh, clean air directly into the occupied zone, offer traditional displacement style, and can be easily integrated into architectural features or blended into a space. Typical applications for these diffusers include classrooms, lobbies, offices, and large public spaces such as libraries. The superior air quality achieved by displacement ventilation systems offers unique benefits for educational applications, including reduced absenteeism and higher test scores.

#### Wall Mounted Family:

- DF1
- DF3
- DF1C
- DR90
- DR180
- DR180U



Superior air quality for classrooms



Optional duct covers and bases



Rail-mounting system for easy installation



Architectural integration

[priceindustries.com](http://priceindustries.com) for additional product information, including product videos and brochures.

# Displacement Ventilation Wall Mounted Diffusers



## Product Overview

### Models

PriceWall Mounted Displacement Diffusers are designed to be integrated with the architecture in a space and provide a low velocity air pattern into a room. These diffusers are typically placed against a wall, pillar or in the corner of a room with no visible fasteners. They are most commonly used in hotels, schools, office spaces, convention centers and theaters.

### Applications

PriceWall Mounted Displacement Diffusers feature high gauge steel, flat perforated faces that are held by high strength extruded aluminum frames. The perforated faces and internal baffle ensure equalized air flow across the face of the diffuser and provide low velocity air into the room. These diffusers are typically installed along a side-wall, against a pillar, or integrated onto features such as bookcases. The **DF1** can also be recessed into a wall to maintain a flush appearance. With the exception of the **DF1C**, Price Wall Mounted Displacement Diffusers use a patent-pending rail mounting system that is easy to install and has no visible fasteners.

### Accessories

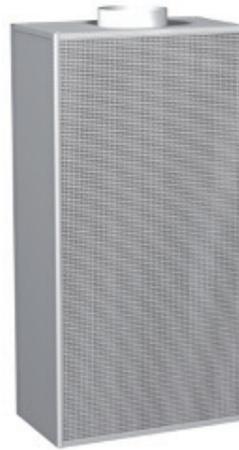
The accessories available for Price Wall Mounted Displacement Diffusers include duct covers, bases and adjustable flow sensing devices (AFSDs).

Duct covers are commonly used to hide ductwork to the diffusers and increase architectural appeal. Price duct covers are constructed of the same heavy gauge steel panels and high strength extruded aluminum frames used in their applicable diffuser. Following the same contour as its respective diffuser, duct covers are available in solid or perforated steel, and are ideal for hiding ductwork and other vertically running cables or conduit. When using a perforated duct cover, Price recommends that the duct be painted black to avoid any visible metal through the duct cover.

With the exception of the DF1C, duct covers are supplied assembled in solid or perforated steel are available in varying lengths, and use the same easy-to-install patent-pending Price rail-mounting system.

Diffuser bases offer a look that is consistent with the rest of the space, providing protection from damage or the moisture of cleaning while hiding the ductwork. The bases are designed to be inset 1" from the face of the diffuser; however, they are free to be specified to match any décor or baseboard appearance.

**DF1**



**DF1C**



The Adjustable Flow Sensing Device features both a manually adjustable damper for volume control and the Price SP300 multi-point sensor to provide accurate pressure measurement. Utilizing the gauge taps for flow measurement and the damper locking mechanism ensures quick and accurate balancing of each diffuser during the balancing process.

# Wall Mounted Displacement Diffusers DF1 Series



## Product Information

**Price DF1 Series** displacement diffusers are designed to produce a 1 way low velocity air supply, perpendicular to the diffuser face. The DF1 discharges air evenly across its perforated face with minimal turbulence or induction of room air. The cool supply air flows down to the floor level and gradually fills the occupied space. Typically installed against a wall or pillar, the diffuser can blend with a variety of surroundings. The superior air quality and low noise levels realized with the DF1 make it suitable for office spaces, restaurants, supermarkets, theaters, hotels, convention centers, schools or any application where air quality and occupant comfort demands are high.

### Features

- Optional inlet locations: bottom, top, rear, or from either side.
- Field-cut inlet option.
- Ships with protective film on face and inlet.

### Construction/Finish

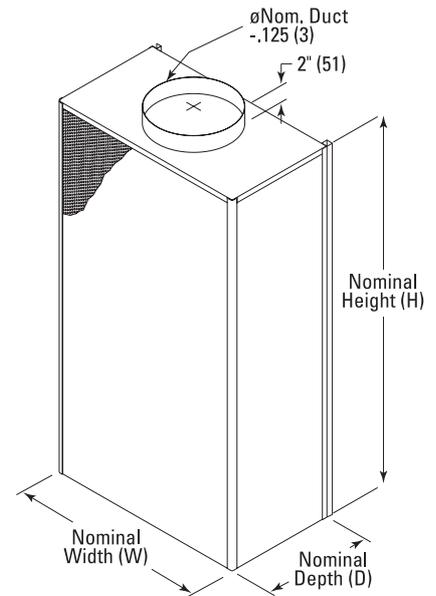
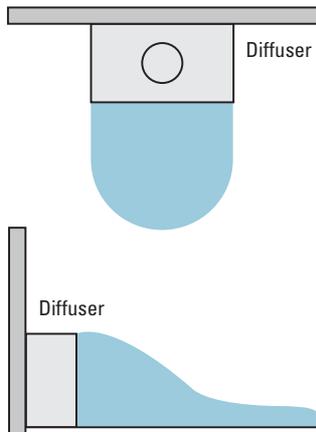
- Diffuser Frame and Equalization Baffle – Aluminum
- Side, Top and Bottom Panels – Coated Steel
- Perforated Front Panel – Coated Steel
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

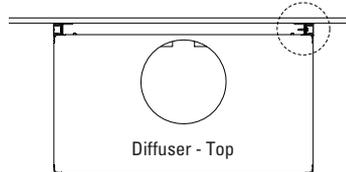
### Accessories

- Base
- Duct Covers
- AFSD

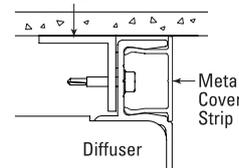
### Air Pattern



### Rail-Mounting System Detail



### Mounting Bracket



### Dimensional Data - Imperial (inches)

W X H	Duct	Depth
24x24	8, 10, 14 x 6	13
24x48	8, 10, 16 x 8	13
24x60	8, 10, 16 x 8	13
36x48	10, 12, 18 x 8	16
36x60	10, 12, 18 x 8, 24 x 8	16
48x24	8, 10, 14 x 6	13
48x36	10, 12, 16 x 8	16
60x24	8, 10, 14 x 6	13
60x36	10, 12, 16 x 8, 18 x 8	16

### Dimensional Data - Metric (mm)

W X H	Duct	Depth
600 x 600	200, 250, 400 x 150	330
600 x 1200	200, 250, 400 x 200	330
600 x 1500	200, 250, 400 x 200	330
900 x 1200	250, 315, 500 x 200	410
900 x 1500	250, 315, 500 x 200, 600 x 200	410
1200 x 600	200, 250, 400 x 150	330
1200 x 900	250, 315, 400 x 200	410
1500 x 600	200, 250, 400 x 150	330
1500 x 900	250, 315, 500 x 200	410

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

# Wall Mounted Displacement Diffusers DF1 Series



## Performance Data – Imperial Units

Unit Size W x H x D [in] Face Area [ft²]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
							ΔT = 5 °F		ΔT = 10 °F	
							DR		DR	
							15%	20%	15%	20%
24 x 24 x 13 [3.6]	8	20	72	--	--	--	--	--	1	--
		30	108	0.02	--	--	3	1	5	2
		40	144	0.03	--	--	6	3	8	5
		50	180	0.05	0.03	--	8	5	10	7
24 x 48 x 13 [7.4]	8	20	148	0.02	--	--	4	1	6	3
		30	222	0.04	--	--	8	4	10	6
		40	295	0.07	0.02	--	10	7	13	9
		50	369	0.11	0.04	20	13	9	15	11
24 x 60 x 13 [9.3]	8	20	186	0.02	--	--	5	2	7	4
		30	278	0.05	--	--	9	6	11	8
		40	371	0.09	--	17	12	8	14	11
		50	464	0.14	0.03	25	14	11	17	13
	10	30	278	0.03	--	--	9	6	11	8
		40	371	0.06	0.03	--	12	8	14	11
		50	464	0.10	0.05	20	14	11	17	13
		50	464	0.10	0.05	20	14	11	17	13
36 x 48 x 16 [11.3]	10	20	226	0.02	--	--	5	2	8	4
		30	338	0.04	--	--	9	6	12	8
		40	451	0.08	0.03	16	12	9	14	11
		50	564	0.12	0.05	23	14	11	17	13
	12	30	338	0.03	--	--	9	6	12	8
		40	451	0.06	0.04	--	12	9	14	11
		50	564	0.09	0.06	19	14	11	17	13
		50	564	0.09	0.06	19	14	11	17	13
36 x 60 x 16 [14.2]	10	20	284	0.02	--	--	7	4	9	6
		30	425	0.06	--	--	11	7	13	9
		40	567	0.10	0.03	20	14	10	16	12
		40	567	0.07	0.04	16	14	10	16	12
	12	30	425	0.04	0.02	--	11	7	13	9
		40	567	0.07	0.04	16	14	10	16	12
		50	709	0.11	0.06	23	16	12	18	15
		50	709	0.11	0.06	23	16	12	18	15
48 x 24 x 13 [7.4]	10	20	148	0.01	--	--	2	--	4	1
		30	222	0.03	--	--	6	3	8	5
		40	295	0.05	0.03	--	8	5	11	7
		50	369	0.07	0.05	16	10	7	13	9
48 x 36 x 16 [11.3]	10	20	226	0.02	--	--	5	2	7	4
		30	338	0.04	--	--	8	5	11	7
		40	451	0.08	0.03	16	11	8	14	10
		50	564	0.12	0.05	23	13	10	16	12
60 x 24 x 13 [9.3]	10	20	186	0.02	--	--	3	--	5	2
		30	278	0.03	--	--	6	3	9	5
		40	371	0.06	0.03	--	9	6	11	8
		50	464	0.10	0.05	20	11	8	14	10
	12	30	278	0.03	--	--	6	3	9	5
		40	371	0.06	0.03	--	9	6	11	8
		50	464	0.10	0.05	20	11	8	14	10
		50	464	0.10	0.05	20	11	8	14	10
60 x 36 x 16 [14.2]	10	20	284	0.02	--	--	5	2	7	4
		30	425	0.06	--	--	9	6	11	8
		40	567	0.10	0.03	20	12	9	14	11
		50	709	0.15	0.05	27	14	11	17	13
	12	30	425	0.04	0.02	--	9	6	11	8
		40	567	0.07	0.04	16	12	9	14	11
		50	709	0.11	0.06	23	14	11	17	13
		50	709	0.11	0.06	23	14	11	17	13
	18 x 8	30	425	0.03	0.02	--	9	6	11	8
		40	567	0.06	0.04	--	12	9	14	11
		50	709	0.09	0.06	21	14	11	17	13
		50	709	0.09	0.06	21	14	11	17	13

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DF1 Series



## Performance Data – Metric Units

Unit Size W x H x D [mm] Face Area [m <sup>2</sup> ]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]				
							$\Delta T = 2.8\text{ }^{\circ}\text{C}$		$\Delta T = 5.6\text{ }^{\circ}\text{C}$		
							DR		DR		
							15%	20%	15%	20%	
600 x 600 x 330 [0.33]	200	0.10	33	--	--	--	--	--	0.3	--	
		0.15	49	4.2	--	--	0.9	0.3	1.5	0.6	
		0.20	66	7.5	--	--	1.8	0.9	2.4	1.5	
		0.25	82	11.7	7.7	--	2.4	1.5	3.0	2.1	
600 x 1200 x 330 [0.69]	200	0.10	67	4.2	--	--	1.2	0.3	1.8	0.9	
		0.15	101	9.5	--	--	2.4	1.2	3.0	1.8	
		0.20	135	16.9	5.9	--	3.0	2.1	4.0	2.7	
		0.25	168	26.5	9.1	20	4.0	2.7	4.6	3.4	
600 x 1500 x 330 [0.86]	200	0.10	85	5.5	--	--	1.5	0.6	2.1	1.2	
		0.15	127	12.3	--	--	2.7	1.8	3.4	2.4	
		0.20	169	21.9	--	17	3.7	2.4	4.3	3.4	
		0.25	212	34.2	6.9	24	4.3	3.4	5.2	4.0	
	250	0.15	127	8.5	--	--	2.7	1.8	3.4	2.4	
		0.20	169	15.0	7.9	--	3.7	2.4	4.3	3.4	
		0.25	212	23.5	12.3	19	4.3	3.4	5.2	4.0	
		0.10	103	4.7	--	--	1.5	0.6	2.4	1.2	
900 x 1200 x 410 [1.05]	250	0.15	154	10.5	--	--	2.7	1.8	3.7	2.4	
		0.20	206	18.7	8.1	16	3.7	2.7	4.3	3.4	
		0.25	258	29.3	12.7	23	4.3	3.4	5.2	4.0	
		0.15	154	7.1	--	--	2.7	1.8	3.7	2.4	
	315	0.20	206	12.7	8.5	--	3.7	2.7	4.3	3.4	
		0.25	258	19.8	13.3	18	4.3	3.4	5.2	4.0	
		0.10	129	6.1	--	--	2.1	1.2	2.7	1.8	
		0.15	194	13.6	--	--	3.4	2.1	4.0	2.7	
900 x 1500 x 400 [1.32]	250	0.20	259	24.3	7.5	20	4.3	3.0	4.9	3.7	
		0.15	194	9.2	5.5	--	3.4	2.1	4.0	2.7	
		0.20	259	16.4	9.8	15	4.3	3.0	4.9	3.7	
		0.25	324	25.7	15.3	22	4.9	3.7	5.5	4.6	
	315	0.10	129	2.9	--	--	0.6	--	1.2	0.3	
		0.15	101	6.5	--	--	1.8	0.9	2.4	1.5	
		0.20	135	11.6	7.1	--	2.4	1.5	3.4	2.1	
		0.25	168	18.2	11.1	15	3.0	2.1	4.0	2.7	
1200 x 600 x 330 [0.69]	250	0.10	103	4.7	--	--	1.5	0.6	2.1	1.2	
		0.15	154	10.5	--	--	2.4	1.5	3.4	2.1	
		0.20	206	18.7	8.1	16	3.4	2.4	4.3	3.0	
		0.25	258	29.3	12.7	23	4.0	3.0	4.9	3.7	
	1500 x 600 x 330 [0.86]	250	0.10	85	3.8	--	--	0.9	--	1.5	0.6
			0.15	127	8.5	--	--	1.8	0.9	2.7	1.5
			0.20	169	15.0	7.9	--	2.7	1.8	3.4	2.4
			0.25	212	23.5	12.3	19	3.4	2.4	4.3	3.0
1500 x 900 x 410 [1.32]	250	0.10	129	6.1	--	--	1.5	0.6	2.1	1.2	
		0.15	194	13.6	--	--	2.7	1.8	3.4	2.4	
		0.20	259	24.3	7.5	20	3.7	2.7	4.3	3.4	
		0.25	324	37.9	11.7	27	4.3	3.4	5.2	4.0	
	315	0.15	194	9.2	5.5	--	2.7	1.8	3.4	2.4	
		0.20	259	16.4	9.8	15	3.7	2.7	4.3	3.4	
		0.25	324	25.7	15.3	22	4.3	3.4	5.2	4.0	
		0.15	194	7.5	5.2	--	2.7	1.8	3.4	2.4	
	500 x 200	0.20	259	13.3	9.3	--	3.7	2.7	4.3	3.4	
		0.25	324	20.8	14.5	19	4.3	3.4	5.2	4.0	

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in Litres per second, L/s.
- Pressure is in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- $\Delta T$  is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
- Proximity to Outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR Value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DF3 Series



## Product Information

**Price DF3 Series** displacement diffusers are designed to produce a low turbulence horizontal air supply in three directions. Typically installed against a wall pillar or free standing, the DF3 discharges air evenly across its perforated face with minimal turbulence or induction of room air. The cool supply air flows down to the floor level and gradually fills the occupied space. The superior air quality and low noise levels realized with the DF3 make it suitable for office spaces, restaurants, supermarkets, theaters, hotels, convention centers, schools, or any application where air quality demands are high.

### Features

- Optional inlet locations: bottom, top, or rear.
- Field-cut inlet option.
- Ships with protective film on face and inlet.

### Construction/Finish

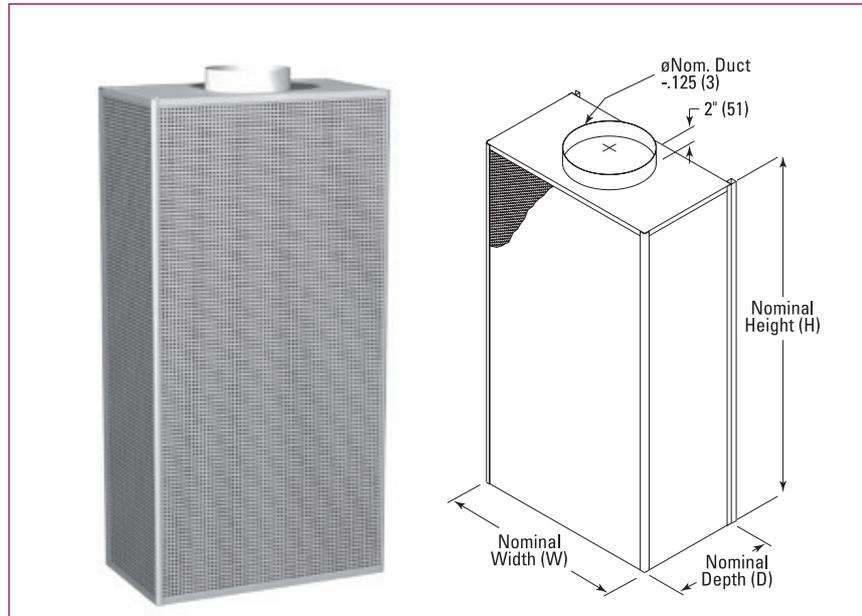
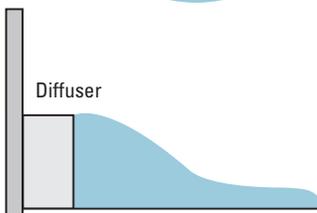
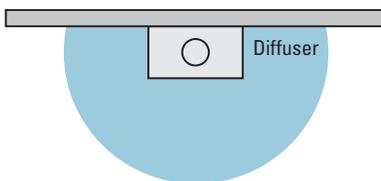
- Diffuser Frame and Equalization Baffle – Aluminum
- Side, Top and Bottom Panels – Coated Steel
- Perforated Front Panel – Coated Steel
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

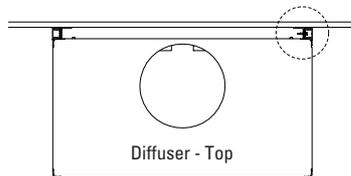
### Accessories

- Base
- Duct Covers
- AFSD

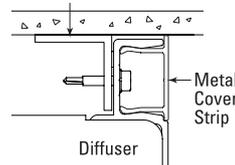
### Air Pattern



### Rail-Mounting System Detail



### Mounting Bracket



### Dimensional Data - Imperial (inches)

W X H	Duct	Depth
24x24	8, 10, 14x6	13
24x48	8, 10, 14x6, 16x8	13
24x60	8, 10, 14x6, 16x8	13
36x48	10, 12, 18x8	16
36x60	10, 12, 16x8, 18x8, 24x8	16
48x24	8, 10, 14x6	13
48x36	10, 12, 16x8, 18x8	16
60x24	8, 10, 16x8	13
60x36	10, 12, 14, 16x8, 18x8, 20x10	16
60x48	10, 12, 14, 16x8, 18x8, 20x10	16

### Dimensional Data - Metric (mm)

W X H	Duct	Depth
600x600	200, 250, 400x150	330
600x1200	200, 250, 400x150, 400x200	330
600x1500	200, 250, 400x150, 400x200	330
900x1200	250, 315, 500x200, 500x300	410
900x1500	250, 315, 400x200, 500x200, 500x300, 600x200	410
1200x600	250, 315, 400x200, 500x200	330
1200x900	250, 315, 400x200, 500x200	410
1500x600	200, 250, 400x200	330
1500x900	250, 315, 400x200, 500x200, 500x300, 600x200, 600x300	410
1500x1200	250, 315, 400x200, 500x200, 500x300, 600x200, 600x300	410

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

# Wall Mounted Displacement Diffusers DF3 Series



## Performance Data – Imperial Units

Unit Size W x H [in] Face Area [ft²]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]				
							ΔT = 5 °F		ΔT = 10 °F		
							DR		DR		
							15%	20%	15%	20%	
24 x 24 x 13 [7.7]	10	20	155	--	--	--	1	--	4	1	
		30	232	0.02	0.01	--	5	2	8	4	
		40	310	0.04	0.02	--	8	4	11	7	
		50	387	0.06	0.03	17	10	6	14	9	
24 x 48 x 13 [11.6]	10	20	232	0.02	--	--	6	3	9	6	
		30	347	0.04	0.01	--	11	7	14	10	
		40	463	0.07	0.02	16	14	10	17	13	
		50	579	0.10	0.03	23	17	12	20	16	
24 x 60 x 13 [13.5]	10	20	270	0.02	--	--	8	5	12	7	
		30	405	0.05	0.01	--	13	9	16	12	
		40	540	0.09	0.03	20	16	12	20	15	
	14 x 6	30	405	0.04	0.01	--	13	9	16	12	
		40	540	0.08	0.02	18	16	12	20	15	
		50	675	0.12	0.04	26	19	15	22	18	
	16 x 8	30	405	0.02	--	--	13	9	16	12	
		40	540	0.04	0.02	--	16	12	20	15	
50		675	0.06	0.02	16	19	15	22	18		
36 x 48 x 16 [19.1]	12	20	382	0.02	--	--	7	3	9	6	
		30	572	0.05	0.02	--	11	7	14	10	
		40	763	0.09	0.03	21	14	10	18	13	
	18 x 8	30	572	0.03	0.01	--	11	7	14	10	
		40	763	0.06	0.02	16	14	10	18	13	
		50	954	0.09	0.04	24	17	12	20	16	
36 x 60 x 16 [22]	12	20	440	0.03	--	--	8	5	12	8	
		30	660	0.07	0.02	16	13	9	16	12	
		40	880	0.12	0.04	26	16	12	20	15	
	18 x 8	30	660	0.04	0.02	--	13	9	16	12	
		40	880	0.08	0.03	20	16	12	20	15	
		50	1100	0.12	0.05	28	19	15	22	18	
	24 x 8	30	660	0.03	0.01	--	13	9	16	12	
		40	880	0.05	0.02	--	16	12	20	15	
		50	1100	0.08	0.03	22	19	15	22	18	
	48 x 24 x 13 [15.8]	10	20	317	0.03	--	--	--	--	2	--
			30	475	0.06	0.02	--	4	--	6	3
			40	633	0.11	0.03	24	6	3	9	6
16 x 8		30	475	0.06	0.02	--	4	--	6	3	
		40	633	0.10	0.03	23	6	3	9	6	
		50	791	0.16	0.05	30	9	5	12	8	
18 x 8		30	475	0.02	--	--	4	--	6	3	
		40	633	0.04	0.02	--	6	3	9	6	
		50	791	0.07	0.03	18	9	5	12	8	
48 x 36 x 16 [21.7]		12	20	434	0.03	--	--	4	1	7	3
			30	651	0.06	0.02	16	8	4	11	7
			40	868	0.11	0.04	25	11	7	14	10
	18 x 8	30	651	0.04	0.02	--	8	4	11	7	
		40	868	0.08	0.03	20	11	7	14	10	
		50	1085	0.12	0.04	28	13	9	17	13	
	24 x 8	30	651	0.03	0.01	--	8	4	11	7	
		40	868	0.05	0.02	--	11	7	14	10	
		50	1085	0.07	0.03	21	13	9	17	13	
	60 x 24 x 13 [19.9]	10	20	397	0.04	0.01	--	--	--	2	--
			30	596	0.10	0.02	21	3	--	6	2
			40	795	0.06	0.02	17	6	2	9	5
18 x 8		30	596	0.04	0.01	--	3	--	6	2	
		40	795	0.06	0.02	17	6	2	9	5	
		50	994	0.10	0.04	25	8	4	11	7	
60 x 36 x 16 [27.2]	18 x 8	20	545	0.03	0.01	--	3	--	6	2	
		30	817	0.07	0.02	17	7	4	10	6	
		40	1090	0.12	0.04	27	10	6	14	9	
	24 x 8	30	817	0.04	0.02	--	7	4	10	6	
		40	1090	0.07	0.03	21	10	6	14	9	
		50	1362	0.11	0.05	28	13	9	16	12	

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

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For more information on additional imperial and metric sizes please visit [priceindustries.com](http://priceindustries.com) or contact your local Price representative.

**J-63**

# Wall Mounted Displacement Diffusers DF3 Series



## Performance Data – Metric Units

Unit Size W x H [mm] Face Area [m²]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]				
							ΔT = 2.8 °C		ΔT = 5.6 °C		
							DR		DR		
							15%	20%	15%	20%	
600 x 600 x 330 [0.7]	250	0.10	71	2.5	--	--	0.3	--	1.2	0.3	
		0.15	107	5.6	2.8	--	1.5	0.6	2.4	1.2	
		0.20	143	10.0	4.9	--	2.4	1.2	3.4	2.1	
		0.25	178	15.6	7.7	17	3.0	1.8	4.3	2.7	
600 x 1200 x 330 [1.05]	250	0.10	106	4.2	--	--	1.8	0.9	2.7	1.8	
		0.15	160	9.5	3.1	--	3.4	2.1	4.3	3.0	
		0.20	213	16.8	5.5	16	4.3	3.0	5.2	4.0	
		0.25	266	26.3	8.6	24	5.2	3.7	6.1	4.9	
600 x 1500 x 330 [1.22]	250	0.10	124	5.4	--	--	2.4	1.5	3.7	2.1	
		0.15	186	12.1	3.5	--	4.0	2.7	4.9	3.7	
		0.20	248	21.5	6.2	20	4.9	3.7	6.1	4.6	
	400 x 150	0.15	186	8.7	2.9	--	4.0	2.7	4.9	3.7	
		0.20	248	15.4	5.2	15	4.9	3.7	6.1	4.6	
		0.25	310	24.1	8.1	23	5.8	4.6	6.7	5.5	
	400 x 200	0.15	186	5.4	--	--	4.0	2.7	4.9	3.7	
		0.20	248	9.6	3.8	--	4.9	3.7	6.1	4.6	
		0.25	310	14.9	5.9	16	5.8	4.6	6.7	5.5	
900 x 1200 x 410 [1.73]	315	0.10	176	4.7	--	--	2.1	0.9	2.7	1.8	
		0.15	264	10.6	3.7	--	3.4	2.1	4.3	3.0	
		0.20	352	18.9	6.6	19	4.3	3.0	5.5	4.0	
	500 x 200	0.15	264	7.0	2.8	--	3.4	2.1	4.3	3.0	
		0.20	352	12.5	5.0	--	4.3	3.0	5.5	4.0	
		0.25	440	19.5	7.8	21	5.2	3.7	6.1	4.9	
900 x 1500 x 410 [2.0]	305	0.10	203	6.9	--	--	2.4	1.5	3.7	2.4	
		0.15	304	15.5	5.1	15	4.0	2.7	4.9	3.7	
		0.20	405	27.6	9.0	25	4.9	3.7	6.1	4.6	
	500 x 200	0.15	304	9.2	3.6	--	4.0	2.7	4.9	3.7	
		0.20	405	16.3	6.4	18	4.9	3.7	6.1	4.6	
		0.25	507	25.5	10.1	26	5.8	4.6	6.7	5.5	
	600 x 200	0.15	304	6.8	2.9	--	4.0	2.7	4.9	3.7	
		0.20	405	12.1	5.2	--	4.9	3.7	6.1	4.6	
		0.25	507	18.8	8.1	21	5.8	4.6	6.7	5.5	
	1200 x 600 x 330 [1.44]	250	0.10	146	7.2	--	--	--	--	0.6	--
			0.15	219	16.1	4.2	--	1.2	--	1.8	0.9
			0.20	292	28.7	7.5	24	1.8	0.9	2.7	1.8
400 x 150		0.15	219	11.6	3.6	--	1.2	--	1.8	0.9	
		0.20	292	20.6	6.3	20	1.8	0.9	2.7	1.8	
		0.25	364	32.1	9.9	27	2.7	1.5	3.7	2.4	
500 x 200		0.15	219	4.9	--	--	1.2	--	1.8	0.9	
		0.20	292	8.8	3.7	--	1.8	0.9	2.7	1.8	
		0.25	364	13.7	5.7	16	2.7	1.5	3.7	2.4	
1200 x 900 x 410 [1.98]		315	0.10	201	6.1	--	--	1.2	0.3	2.1	0.9
			0.15	301	13.6	4.7	--	2.4	1.2	3.4	2.1
			0.20	402	24.3	8.3	23	3.4	2.1	4.3	3.0
	500 x 200	0.15	301	9.0	3.6	--	2.4	1.2	3.4	2.1	
		0.20	402	16.0	6.3	18	3.4	2.1	4.3	3.0	
		0.25	502	25.0	9.9	25	4.0	2.7	5.2	4.0	
	600 x 200	0.15	301	6.6	2.9	--	2.4	1.2	3.4	2.1	
		0.20	402	11.8	5.1	--	3.4	2.1	4.3	3.0	
		0.25	502	18.5	8.0	21	4.0	2.7	5.2	4.0	
	1500 x 600 x 330 [1.8]	250	0.10	183	11.0	2.6	--	--	--	0.6	--
			0.15	275	24.7	5.9	21	0.9	--	1.8	0.6
			0.20	366	38.4	9.6	28	1.8	0.6	2.7	1.5
500 x 200		0.15	275	7.6	3.0	--	0.9	--	1.8	0.6	
		0.20	366	13.4	5.4	--	1.8	0.6	2.7	1.5	
		0.25	458	21.0	8.4	22	2.4	1.2	3.4	2.1	
1500 x 900 x 410 [2.48]	500 x 200	0.10	252	6.2	--	--	0.9	--	1.8	0.6	
		0.15	378	13.9	5.4	15	2.1	1.2	3.0	1.8	
		0.20	504	24.8	9.5	25	3.0	1.8	4.3	2.7	
	600 x 200	0.15	378	10.3	4.3	--	2.1	1.2	3.0	1.8	
		0.20	504	18.3	7.7	21	3.0	1.8	4.3	2.7	
		0.25	630	28.6	12.0	28	4.0	2.7	4.9	3.7	

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in Litres per second, L/s.
- Pressure is in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DF1C Series



## Product Information

The **Price DF1C Series** displacement diffusers are designed to produce a low velocity air supply perpendicular to the diffuser face. The DF1C discharges air evenly across its perforated face with minimal turbulence or induction of room air. The cool supply air flows down to the floor level and gradually fills the occupied space. Typically installed at the junction of two walls or in a 90° recess, this appealing diffuser meshes seamlessly into any décor. The superior air quality and low noise levels realized with the DF1C make it suitable for office space, restaurants, supermarkets, theaters, hotels, convention centers, schools, or any application where air quality and occupant comfort demands are high.

### Features

Optional inlet location:

- Top inlet location for exposed ductwork or with duct cover option.
- Bottom inlet location for hidden ductwork.
- Field-cut inlet option.
- Ships with protective film on face and inlet.

### Construction/Finish

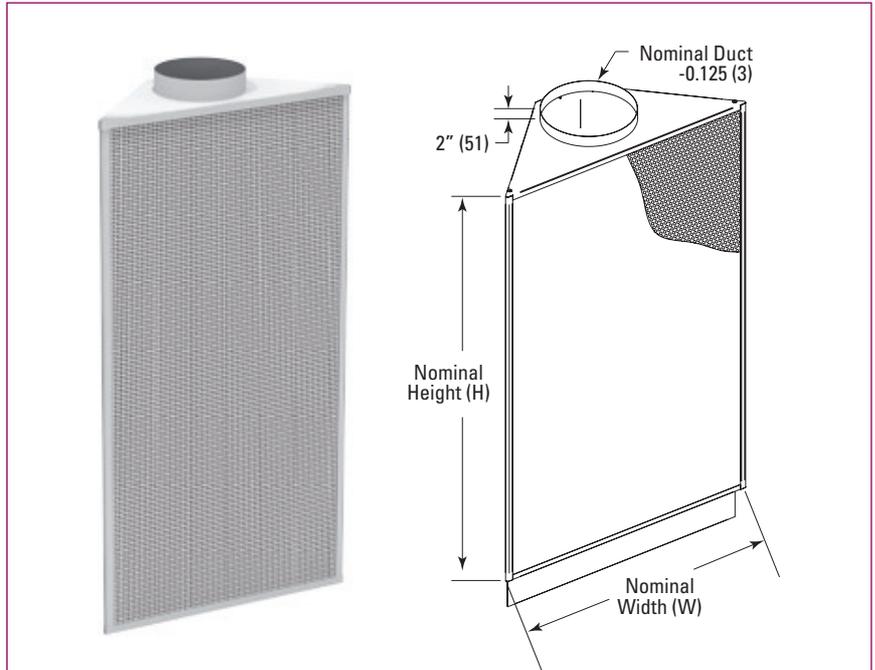
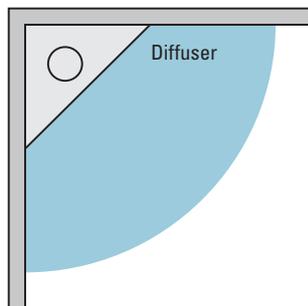
- Diffuser Frame and Equalization Baffle – Aluminum
- Side, Top and Bottom Panels – Coated Steel
- Perforated Front Panel – Coated Steel
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

### Accessories

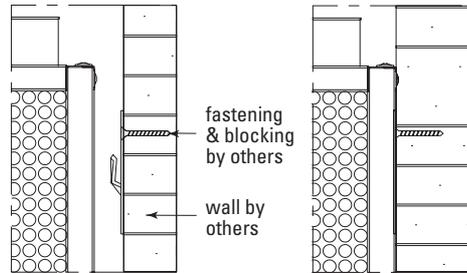
- Base
- Duct Covers
- AFSD

### Air Pattern



### Surface Mount Detail

Slide Plenum Onto Wall Mount Plate



### Dimensional Data - Imperial (inches)/Metric (mm)

W X H	Duct	W X H	Duct
24x24	8	30x60	10
24x36	8	30x72	10
24x48	8	36x24	8
24x60	8	36x24	10
24x72	8	36x24	12
30x24	8	36x36	12
30x24	10	36x48	12
30x36	8	36x60	12
30x36	10	36x72	12
30x48	10		

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

### Dimensional Data - Metric (mm)

W X H	Duct
600 x 600	200
600 x 900	200
600 x 1200	200
600 x 1500	200
750 x 600	200, 250
750 x 900	200
750 x 1200	250
750 x 1500	250
750 x 1800	250
900 x 600	200, 250, 315
900 x 900	315
900 x 1500	315
900 x 1800	315

# Wall Mounted Displacement Diffusers DF1C Series



## Performance Data – Imperial Units

Unit Size W x H [in] Face Area [ft <sup>2</sup> ]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
							ΔT = 5 °F		ΔT = 10 °F	
							DR		DR	
							15%	20%	15%	20%
24 x 24 [3.6]	8	20	71	--	--	--	--	2	--	
		30	107	0.02	0.01	--	2	--	5	
		40	142	0.03	0.02	--	4	1	7	
		50	178	0.04	0.03	--	5	3	8	
30 X 24 [4.5]	10	20	90	--	--	--	--	2	--	
		30	135	0.01	--	--	2	--	4	
		40	180	0.02	0.02	--	4	1	6	
		50	225	0.04	0.02	--	5	2	8	
36 x 24 [5.5]	12	20	109	--	--	--	--	2	--	
		30	164	0.01	--	--	2	--	4	
		40	218	0.02	0.01	--	3	1	6	
		50	273	0.03	0.02	--	5	2	8	
24 x 36 [5.4]	8	20	109	0.01	--	--	3	--	5	
		30	163	0.02	0.01	--	5	2	8	
		40	217	0.04	0.02	--	7	4	10	
		50	272	0.07	0.03	--	9	6	10	
30 x 36 [6.9]	10	20	138	--	--	--	2	--	5	
		30	206	0.02	0.01	--	5	2	8	
		40	275	0.03	0.02	--	7	4	10	
		50	344	0.05	0.03	--	9	5	12	
36 x 36 [8.3]	12	20	167	--	--	--	2	--	5	
		30	250	0.02	--	--	5	2	8	
		40	333	0.03	0.02	--	7	4	10	
		50	417	0.04	0.03	--	9	5	12	
24 x 48 [7.3]	8	20	146	0.01	--	--	5	2	8	
		30	219	0.03	--	--	8	5	11	
		40	292	0.06	0.01	--	10	7	13	
		50	365	0.09	0.02	19	12	8	15	
30 x 48 [9.3]	10	20	185	0.01	--	--	5	2	7	
		30	278	0.03	--	--	7	4	10	
		40	370	0.05	0.02	--	10	6	13	
		50	463	0.07	0.03	16	11	8	15	
36 x 48 [11.2]	12	20	224	--	--	--	4	2	7	
		30	336	0.02	0.01	--	7	4	10	
		40	448	0.04	0.02	--	9	6	13	
		50	560	0.06	0.03	--	11	8	15	
24 x 60 [9.2]	8	20	184	0.02	--	--	7	4	10	
		30	276	0.04	--	--	10	6	13	
		40	367	0.07	--	15	12	9	15	
		50	459	0.11	--	22	14	10	17	
30 x 60 [11.6]	10	20	233	0.01	--	--	7	3	9	
		30	349	0.03	--	--	9	6	13	
		40	465	0.06	0.01	--	12	8	15	
		50	582	0.09	0.02	19	14	10	17	
36 x 60 [14.1]	12	20	282	0.01	--	--	6	3	9	
		30	422	0.03	--	--	9	6	13	
		40	563	0.05	0.02	--	12	8	15	
		50	704	0.07	0.02	17	14	10	17	
24 x 72 [11.1]	8	20	221	0.02	--	--	8	5	12	
		30	332	0.05	--	--	12	8	15	
		40	442	0.08	--	18	14	10	17	
		50	553	0.13	--	25	16	12	19	
30 x 72 [14]	10	20	280	0.02	--	--	8	5	11	
		30	420	0.04	--	--	11	8	14	
		40	560	0.07	--	15	14	10	17	
		50	700	0.11	--	22	16	12	19	
36 x 72 [17]	12	20	339	0.01	--	--	8	5	11	
		30	509	0.03	--	--	11	8	14	
		40	678	0.06	0.01	--	14	10	17	
		50	848	0.09	0.02	20	16	12	19	

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DF1C Series



## Performance Data – Metric Units

Unit Size W x H [mm] Face Area [m <sup>2</sup> ]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]			
							ΔT = 2.8 °C		ΔT = 5.6 °C	
							DR		DR	
							15%	20%	15%	20%
600 x 600 [0.3]	200	0.10	35	--	--	--	--	--	0.6	--
		0.15	52	4.5	2.9	--	0.6	--	1.5	0.6
		0.20	70	8.2	5.2	--	1.2	--	2.1	1.2
		0.25	88	12.9	8.2	--	1.5	0.9	2.4	1.5
750 X 600 [0.4]	200	0.10	44	2.5	--	--	--	--	0.6	--
		0.15	66	5.7	3.0	--	0.6	--	1.2	0.6
		0.20	88	10.1	5.4	--	1.2	--	1.8	0.9
		0.25	110	15.8	8.4	--	1.5	0.6	2.4	1.5
900 x 600 [0.5]	315	0.10	53	--	--	--	--	--	0.6	--
		0.15	79	2.7	--	--	0.6	--	1.2	0.6
		0.20	106	4.9	3.8	--	0.9	--	1.8	0.9
		0.25	132	7.6	5.8	--	1.5	0.6	2.4	1.5
600 x 900 [0.5]	200	0.10	53	3.0	--	--	0.9	--	1.5	0.6
		0.15	79	6.7	2.9	--	1.5	0.6	2.4	1.5
		0.20	106	12.1	5.2	--	2.1	1.2	3.0	2.1
		0.25	132	18.7	8.1	--	2.7	1.8	3.0	3.7
750 x 900 [0.6]	250	0.10	67	--	--	--	0.6	--	1.5	0.6
		0.15	100	5.4	2.9	--	1.5	0.6	2.4	1.5
		0.20	133	9.6	5.2	--	2.1	1.2	3.0	2.1
		0.25	166	14.9	8.0	--	2.7	1.5	3.7	2.4
900 x 900 [0.7]	315	0.10	80	--	--	--	0.6	--	1.5	0.6
		0.15	120	4.04	2.61	--	1.5	0.6	2.4	1.5
		0.20	160	7.18	4.6	--	2.1	1.2	3.0	2.1
		0.25	200	11.22	7.3	--	2.7	1.5	3.7	2.4
600 x 1200 [0.7]	315	0.10	71	--	--	--	1.5	0.6	2.4	1.5
		0.15	106	3.6	2.50	--	2.4	1.5	3.4	2.1
		0.20	142	6.5	4.5	--	3.0	2.1	4.0	3.0
		0.25	177	10.1	7.0	--	3.7	2.4	4.6	3.4
750 x 1200 [0.8]	250	0.10	89	3.2	--	--	1.5	0.6	2.1	1.2
		0.15	134	7.2	2.7	--	2.1	1.2	3.0	2.1
		0.20	178	12.6	4.7	--	3.0	1.8	4.0	2.7
		0.25	222	19.6	7.3	--	3.4	2.4	4.6	3.4
900 x 1200 [1.0]	315	0.10	107	--	--	--	1.2	0.6	2.1	1.2
		0.15	160	5.3	2.8	--	2.1	1.2	3.0	2.1
		0.20	214	9.5	4.9	--	2.7	1.8	4.0	2.7
		0.25	268	14.8	7.7	--	3.4	2.4	4.6	3.4
600 x 1500 [0.8]	200	0.10	89	5.0	--	--	2.1	1.2	3.0	1.8
		0.15	133	11.1	--	--	3.0	1.8	4.0	2.7
		0.20	177	19.6	--	--	3.7	2.7	4.6	3.7
		0.25	222	30.9	--	20	4.3	3.0	5.2	4.3
750 x 1500 [1]	250	0.10	111	3.9	--	--	2.1	0.9	2.7	1.8
		0.15	167	8.8	--	--	2.7	1.8	4.0	2.7
		0.20	223	15.7	3.2	--	3.7	2.4	4.6	3.7
		0.25	278	24.3	5.0	17	4.3	3.0	5.2	4.0
900 x 1500 [1.3]	315	0.10	134	2.9	--	--	1.8	0.9	2.7	1.8
		0.15	201	6.6	2.60	--	2.7	1.8	4.0	2.7
		0.20	268	11.7	4.6	--	3.7	2.4	4.6	3.4
		0.25	335	18.3	7.2	--	4.3	3.0	5.2	4.0
600 x 1800 [1.0]	200	0.10	107	5.9	--	--	2.4	1.5	3.7	2.4
		0.15	160	13.2	--	--	3.7	2.4	4.6	3.4
		0.20	213	23.5	--	16	4.3	3.0	5.2	4.0
		0.25	267	36.9	--	23	4.9	3.7	5.8	4.6
750 x 1800 [1.3]	250	0.10	134	4.7	--	--	2.4	1.5	3.4	2.4
		0.15	201	10.5	--	--	3.4	2.4	4.3	3.4
		0.20	268	18.7	--	--	4.3	3.0	5.2	4.0
		0.25	335	29.2	--	20	4.9	3.7	5.8	4.6
900 x 1800 [1.5]	315	0.10	161	3.5	--	--	2.4	1.5	3.4	2.4
		0.15	242	7.9	--	--	3.4	2.4	4.3	3.4
		0.20	322	14.0	3.7	--	4.3	3.0	5.2	4.0
		0.25	403	21.9	5.8	17	4.9	3.7	5.8	4.6

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in Litres per second, L/s.
- Pressure is in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR180 Series



## Product Information

**Price DR180 Series** displacement diffusers are designed to produce a low turbulence horizontal air supply in an 180° pattern. Typically installed against a wall or pillar, the DR180 discharges air evenly across its perforated face. The cool air then drops to the floor and gently floats into the occupied zone. This appealing diffuser meshes seamlessly into any décor, providing a curved detail to the space. The superior air quality and low noise levels realized with the DR180 make it suitable for office spaces, hotels, convention centers, schools or any application where air quality demands are high.

### Features

- Optional inlet locations:
  - Top inlet available for use with duct covers.
  - Bottom and rear inlet locations also available.
- Field-cut inlet option.
- Ships with protective film on face and inlet.

### Construction/Finish: DR180

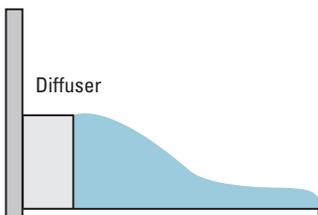
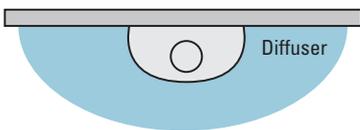
- Diffuser Frame and Equalization Baffle - Aluminum
- Plenum Caps – Rolled Steel
- Perforated Face and Plenum Back – Coated Steel
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

### Options

- Base
- Duct Cover
- AFSD

### Air Pattern



#### Rail-Mounting System Detail

#### Mounting Bracket

#### Dimensional Data - Imperial (inches)

W X H	Duct
18x24	6,7
18x36	6, 7, 10x4
18x48	6, 7, 10x4
24x24	8, 9, 10
24x36	8, 9, 10
24x48	8, 9, 10
24x60	9, 10, 16x5
30x24	8, 10
30x36	8, 10, 12
30x48	10, 12
30x60	10, 12, 20x6
36x24	10, 12
36x36	10, 12, 14, 16
36x48	12, 14, 16
36x60	14, 16
42x36	12, 14, 16
42x48	12, 14, 16
42x60	12, 14, 16
48x36	12, 14, 16
48x48	14, 16
48x60	14, 16

#### Dimensional Data - Metric (mm)

W X H	Duct
457x600	150, 200
457x900	150, 200, 250x100
457x1200	150, 200, 250x100
610x600	200, 250
610x900	200, 250
610x1200	200, 250
610x1500	200, 250, 400x150
762x610	200, 250
762x900	200, 250, 315
762x1200	250, 315
762x1500	250, 315, 500x150
915x600	250, 315
915x900	250, 315, 400
915x1200	315, 400
915x1500	400
1067x900	315, 400
1067x1200	315, 400
1067x1500	315, 400
1219x900	315, 400
1219x1200	400
1219x1500	400

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

DISPLACEMENT VENTILATION

# Wall Mounted Displacement Diffusers DR180 Series



## Performance Data – Imperial Units

Unit Size W x H [in] Face Area [ft²]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
							ΔT = 5 °F		ΔT = 10 °F	
							DR		DR	
							15%	20%	15%	20%
18 x 24 [4.3]	6	20	85	0.02	--	--	1	--	2	1
		30	128	0.05	0.02	--	2	1	5	2
		40	171	0.09	0.04	21	3	1	7	3
		50	213	0.13	0.06	28	5	2	10	5
24 x 24 [5.8]	8	20	115	0.01	--	--	1	--	2	1
		30	173	0.03	0.02	--	2	1	5	2
		40	230	0.05	0.03	--	3	1	7	3
		50	288	0.08	0.04	19	5	2	10	5
30 x 24 [7.2]	8	20	145	0.02	--	--	1	--	2	1
		30	217	0.04	0.02	--	2	1	5	2
		40	290	0.07	0.03	--	3	1	7	3
		50	362	0.12	0.05	18	5	2	10	5
18 x 36 [6.5]	6	20	130	0.04	0.01	--	2	1	4	2
		30	196	0.09	0.02	22	4	2	8	4
	10 x 4	40	261	0.09	0.04	26	6	3	12	6
		50	326	0.14	0.06	34	9	4	17	8
24 x 36 [8.8]	8	20	176	0.02	--	--	2	1	4	2
		30	264	0.05	0.02	--	4	2	8	4
		40	352	0.10	0.03	20	6	3	12	6
		50	440	0.15	0.05	27	9	4	17	8
30 x 36 [11.1]	8	20	221	0.03	--	--	2	1	4	2
		30	332	0.04	0.01	--	4	2	8	4
	10	40	443	0.07	0.03	--	6	3	12	6
		50	554	0.11	0.04	19	9	4	17	8
18 x 48 [8.8]	6	20	175	0.06	--	20	3	1	7	3
		30	263	0.13	0.02	33	6	2	12	6
	10 x 4	40	351	0.14	0.04	36	9	4	18	9
		50	439	0.21	0.06	44	12	6	25	12
24 x 48 [11.8]	8	20	237	0.04	--	--	3	1	7	3
		30	355	0.08	0.02	19	6	2	12	6
	9	40	473	0.10	0.03	25	9	4	18	9
		50	592	0.16	0.05	32	12	6	25	12
30 x 48 [14.9]	10	20	298	0.03	--	--	3	1	7	3
		30	447	0.06	0.02	--	6	2	12	6
	12	40	596	0.10	0.03	19	9	4	18	9
		50	745	0.09	0.04	21	12	6	25	12
24 x 60 [14.9]	9	20	297	0.03	--	--	4	2	9	4
		30	446	0.08	0.01	23	8	4	16	8
	16 x 5	40	595	0.10	0.03	28	12	6	24	12
		50	744	0.15	0.04	36	17	8	31	16
30 x 60 [18.7]	12	20	374	0.02	--	--	4	2	9	4
		30	561	0.04	0.01	--	8	4	16	8
		40	749	0.08	0.02	19	12	6	24	12
	20 x 6	50	936	0.12	0.04	27	17	8	31	16
		40	749	0.07	0.02	18	12	6	24	12
		50	936	0.11	0.04	26	17	8	31	16

DISPLACEMENT VENTILATION

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR180 Series



## Performance Data – Metric Units

Unit Size W x H [in] Face Area [m <sup>2</sup> ]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]			
							$\Delta T = 2.8\text{ }^{\circ}\text{C}$		$\Delta T = 5.6\text{ }^{\circ}\text{C}$	
							DR		DR	
							15%	20%	15%	20%
457 x 600 [0.39]	150	0.10	40	5.4	--	--	0.3	--	0.6	0.3
		0.15	59	12.3	5.5	--	0.6	0.3	1.5	0.6
		0.20	79	21.8	9.7	21	0.9	0.3	2.1	0.9
		0.25	99	34.0	15.1	28	1.5	0.6	3.0	1.5
610 x 600 [0.53]	200	0.10	53	3.5	--	--	0.3	--	0.6	0.3
		0.15	80	7.8	3.9	--	0.6	0.3	1.5	0.6
		0.20	107	13.8	6.9	--	0.9	0.3	2.1	0.9
		0.25	134	21.6	10.7	19	1.5	0.6	3.0	1.5
762 x 600 [0.66]	200	0.10	67	4.7	--	--	0.3	--	0.6	0.3
		0.15	101	10.6	4.4	--	0.6	0.3	1.5	0.6
		0.20	135	18.9	7.9	--	0.9	0.3	2.1	0.9
		0.25	168	29.5	12.3	18	1.5	0.6	3.0	1.5
457 x 900 [0.6]	150	0.10	60	9.7	2.6	--	0.6	0.3	1.2	0.6
		0.15	91	21.8	5.9	22	1.2	0.6	2.4	1.2
	250 x 100	0.20	121	23.1	9.0	26	1.8	0.9	3.7	1.8
		0.25	151	36.0	14.0	34	2.7	1.2	5.2	2.4
610 x 900 [0.8]	200	0.10	82	6.2	--	--	0.6	0.3	1.2	0.6
		0.15	123	13.8	4.7	--	1.2	0.6	2.4	1.2
		0.20	163	24.6	8.4	20	1.8	0.9	3.7	1.8
		0.25	204	38.4	13.1	28	2.7	1.2	5.2	2.4
762 x 900 [1.01]	200	0.10	103	8.4	--	--	0.6	0.3	1.2	0.6
		0.15	154	9.7	3.8	--	1.2	0.6	2.4	1.2
	250	0.20	206	17.2	6.7	--	1.8	0.9	3.7	1.8
		0.25	257	26.9	10.5	20	2.7	1.2	5.2	2.4
457 x 1200 [0.8]	150	0.10	82	14.5	--	20	0.9	0.3	2.1	0.9
		0.15	122	19.4	5.1	27	1.8	0.6	3.7	1.8
	250 x 100	0.20	163	34.5	9.0	36	2.7	1.2	5.5	2.7
		0.25	204	54.0	14.1	44	3.7	1.8	7.6	3.7
610 x 1200 [1.08]	200	0.10	110	9.2	--	--	0.9	0.3	2.1	0.9
		0.15	165	20.7	4.2	19	1.8	0.6	3.7	1.8
	250	0.20	220	18.9	6.8	21	2.7	1.2	5.5	2.7
		0.25	275	29.5	10.7	29	3.7	1.8	7.6	3.7
762 x 1200 [1.36]	250	0.10	138	6.5	--	--	0.9	0.3	2.1	0.9
		0.15	208	14.5	3.8	--	1.8	0.6	3.7	1.8
	315	0.20	277	25.8	6.7	19	2.7	1.2	5.5	2.7
		0.25	346	20.2	8.3	19	3.7	1.8	7.6	3.7
610 x 1200 [1.08]	250	0.10	110	4.7	--	--	1.2	0.6	2.7	1.2
		0.15	165	10.6	3.8	--	2.4	1.2	4.9	2.4
	400 x 150	0.20	220	14.0	5.9	18	3.7	1.8	7.3	3.7
		0.25	275	21.8	9.2	26	5.2	2.4	9.4	4.9
762 x 1500 [1.71]	315	0.10	174	4.4	--	--	1.2	0.6	2.7	1.2
		0.15	261	9.9	3.2	--	2.4	1.2	4.9	2.4
		0.20	348	17.6	5.7	18	3.7	1.8	7.3	3.7
		0.25	435	27.5	8.8	25	5.2	2.4	9.4	4.9
	508 x 152	0.20	348	18.7	5.7	18	3.7	1.8	7.3	3.7
		0.25	435	29.2	9.0	26	5.2	2.4	9.4	4.9

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in Litres per second, L/s.
- Pressure is in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- $\Delta T$  is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR180U Series



## Product Information

**Price DR180U Series** displacement diffusers produce a low turbulence horizontal air supply in an 180° pattern. Due to its shape, the DR180U can accommodate large inlets and can handle higher flows than a standard DR180. Typically installed against a wall or pillar, this unit has a seamless curved front and makes an appealing addition to any decor.

The superior air quality and low noise levels realized with the DR180U make it suitable for office spaces, hotels, convention centers, schools or any application where air quality demands are high. The DR180U is constructed of a perforated steel face and with a solid steel back, top and bottom. With the option of both top and rear ducted units, as well as its optional bases or duct covers, the DR180U can adapt to be part of any interior design.

### Features

- Top inlet available for use with duct covers.
- Bottom and rear inlets also available
- Ships with protective film on face and inlet.

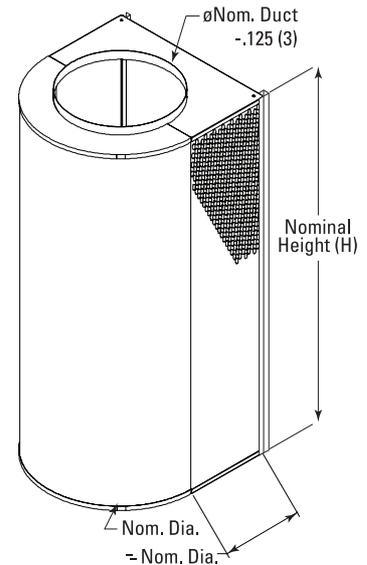
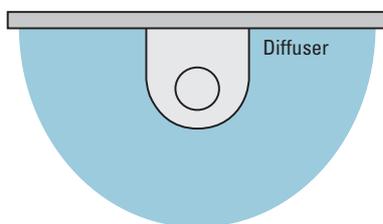
### Construction/Finish: DR180U

- Diffuser Frame and Equalization Baffle - Aluminium
  - Plenum Caps and Perforated Face - Rolled Steel
  - Plenum Back - Coated Steel
  - Finish - B12 White (Standard)
- For optional and special finishes see color matrix.

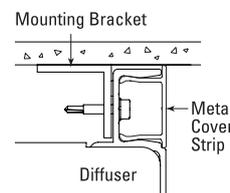
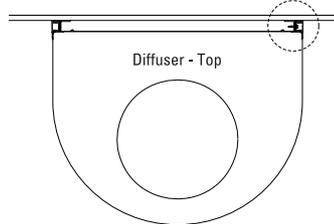
### Accessories

- Base
- Duct Cover
- AFSD flow sensor/damper

### Air Pattern



### Rail-Mounting System Detail



### Dimensional Data - Imperial (inches)

Diameter	Duct	Height*	
		Min.	Max.
18	10, 12	24	60
24	16	24	60
30	20	24	60
36	24	24	60

\*Standard heights available in 1" increments

### Dimensional Data - Metric (mm)

Diameter	Duct	Height*	
		Min.	Max.
457	250, 315	600	1500
610	400	600	1500
762	500	600	1500
914	600	600	1500

\*Standard heights available in 25 mm increments

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

# Wall Mounted Displacement Diffusers DR180U Series



## Performance Data – Imperial Units

Unit Size W x H [in] Face Area [ft²]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
							ΔT = 5 °F		ΔT = 10 °F	
							DR		DR	
							15%	20%	15%	20%
18 x 36 [10.86]	12	20	217	0.01	--	--	2	1	3	2
		30	326	0.02	0.01	--	3	2	4	2
		40	434	0.04	0.03	--	3	2	5	3
		50	543	0.07	0.04	21	4	2	6	4
24 x 36 [14.58]	16	20	292	0.01	--	--	2	1	3	2
		30	437	0.02	0.01	--	3	2	4	2
		40	583	0.03	0.02	--	3	2	5	3
		50	729	0.05	0.03	17	4	2	6	4
30 x 36 [22.03]	20	20	366	0.01	--	--	2	1	3	2
		30	549	0.01	--	--	3	2	4	2
		40	732	0.02	0.01	--	3	2	5	3
		50	915	0.03	0.02	--	4	2	6	4
36 x 36 [22.03]	24	20	441	0.00	--	--	2	1	3	2
		30	661	0.01	--	--	3	2	4	2
		40	881	0.02	0.01	--	3	2	5	3
		50	1101	0.03	0.02	--	4	2	6	4
18 x 48 [14.61]	12	20	292	0.01	--	--	3	2	4	2
		30	438	0.03	0.01	--	4	2	5	3
		40	585	0.06	0.02	18	5	3	7	4
		50	731	0.09	0.03	25	6	4	8	5
24 x 48 [19.62]	16	20	392	0.01	--	--	3	2	4	2
		30	589	0.02	0.01	--	4	2	5	3
		40	785	0.04	0.02	--	5	3	7	4
		50	981	0.06	0.03	20	6	4	8	5
30 x 48 [24.62]	20	20	492	0.01	--	--	3	2	4	2
		30	739	0.02	0.01	--	4	2	5	3
		40	985	0.03	0.02	--	5	3	6	4
		50	1231	0.05	0.03	--	6	4	8	5
18 x 60 [18.36]	12	20	367	0.01	--	--	3	2	4	3
		30	551	0.03	--	--	5	3	6	4
		40	735	0.06	--	20	6	4	8	5
		50	918	0.09	--	27	7	5	10	7
24 x 60 [24.65]	16	20	493	0.01	--	--	3	2	4	3
		30	740	0.03	--	--	5	3	6	4
		40	986	0.05	0.02	--	6	4	8	5
		50	1233	0.08	0.03	20	7	5	10	7

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cubic feet per minute, cfm.
- Pressure is in inches of water, in. w.g.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR180U Series



## Performance Data – Metric Units

Unit Size W x H [mm] Face Area [m <sup>2</sup> ]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]			
							$\Delta T = 2.8\text{ }^{\circ}\text{C}$		$\Delta T = 5.6\text{ }^{\circ}\text{C}$	
							DR		DR	
							15%	20%	15%	20%
457 x 900 [0.99]	315	0.10	99	--	--	--	0.6	0.3	0.9	0.6
		0.15	149	5.44	3.25	--	0.9	0.6	1.2	0.6
		0.20	199	9.68	5.77	--	0.9	0.6	1.5	0.9
		0.25	248	15.12	9.02	21	1.2	0.6	1.8	1.2
610 x 900 [1.41]	400	0.10	141	--	--	--	0.6	0.3	0.9	0.6
		0.15	212	4.45	2.75	--	0.9	0.6	1.2	0.6
		0.20	282	7.92	4.89	--	0.9	0.6	1.5	0.9
		0.25	353	12.37	7.64	17	1.2	0.6	1.8	1.2
762 x 900 [1.76]	500	0.10	176	--	--	--	0.6	0.3	0.9	0.6
		0.15	264	3.25	--	--	0.9	0.6	1.2	0.6
		0.20	353	5.78	3.84	--	0.9	0.6	1.5	0.9
		0.25	441	9.03	6.01	--	1.2	0.6	1.8	1.2
915 x 900 [2.12]	600	0.10	212	--	--	--	0.6	0.3	0.9	0.6
		0.15	317	--	--	--	0.9	0.6	1.2	0.6
		0.20	423	4.42	3.07	--	0.9	0.6	1.5	0.9
		0.25	529	6.91	4.80	--	1.2	0.6	1.8	1.2
457 x 1200 [1.41]	315	0.10	141	3.29	--	--	0.9	0.6	1.2	0.6
		0.15	212	7.39	2.97	--	1.2	0.6	1.5	0.9
		0.20	282	13.15	5.27	18	1.5	0.9	2.1	1.2
		0.25	353	20.54	8.24	25	1.8	1.2	2.4	1.5
610 x 1200 [1.88]	400	0.10	188	2.63	--	--	0.9	0.6	1.2	0.6
		0.15	282	5.91	2.88	--	1.2	0.6	1.5	0.9
		0.20	376	10.50	5.12	--	1.5	0.9	2.1	1.2
		0.25	470	16.41	8.00	20	1.8	1.2	2.4	1.5
762 x 1200 [2.35]	500	0.10	235	--	--	--	0.9	0.6	1.2	0.6
		0.15	353	4.50	2.56	--	1.2	0.6	1.5	0.9
		0.20	470	7.99	4.55	--	1.5	0.9	1.8	1.2
		0.25	588	12.49	7.11	--	1.8	1.2	2.4	1.5
457 x 1500 [1.76]	315	0.10	176	3.55	--	--	0.9	0.6	1.2	0.9
		0.15	264	7.99	--	--	1.5	0.9	1.8	1.2
		0.20	353	14.20	--	20	1.8	1.2	2.4	1.5
		0.25	441	22.19	2.98	27	2.1	1.5	3.0	2.1
600 x 1500 [2.35]	400	0.10	235	3.02	--	--	0.9	0.6	1.2	0.9
		0.15	353	6.80	--	--	1.5	0.9	1.8	1.2
		0.20	470	12.08	3.67	--	1.8	1.2	2.4	1.5
		0.25	588	18.88	5.74	20	2.1	1.5	3.0	2.1

### Performance Notes:

- Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in Litres per second, L/s.
- Pressure is in Pascals, Pa.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
- $\Delta T$  is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
- Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
- Distances closer to the diffuser have a higher DR than the cataloged value.
- DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
- Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
- DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
- Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR90 Series



## Product Information

**Price DR90 Series** displacement diffusers are designed to produce a low turbulence horizontal air supply in a 90° pattern. Typically installed at the joining of two walls or in a 90° recess, the DR90 discharges air evenly across its perforated face. The cool air then drops to the floor and gently floats into the occupied zone in a layer 2-5" thick. This appealing diffuser meshes seamlessly into any décor, providing a curved detail to the space. The superior air quality and low noise levels realized with the DR90 make it suitable for office space, hotels, convention centers, schools, or any application where air quality demands are high.

### Features

- Top inlet option for use with duct covers.
- Bottom inlet option for bottom duct connection.
- Field-cut inlet option available.
- Ships with protective film on face and inlet.

### Construction/Finish: DR90

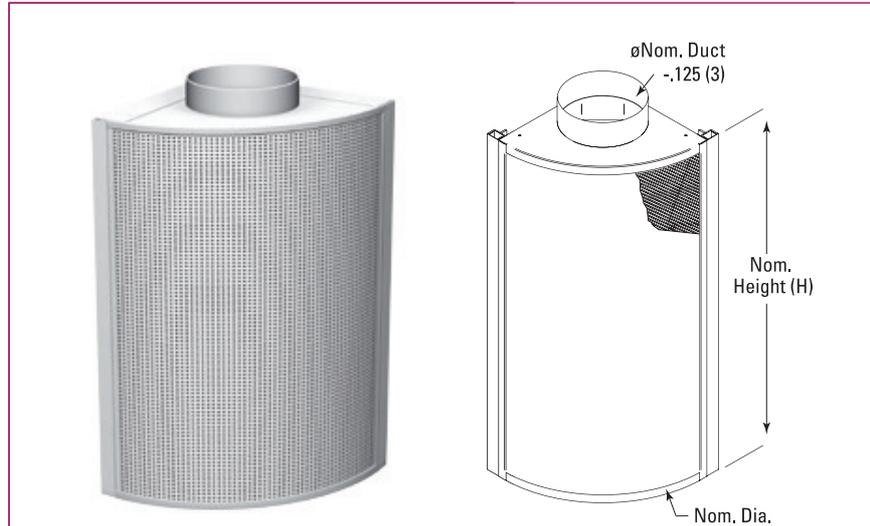
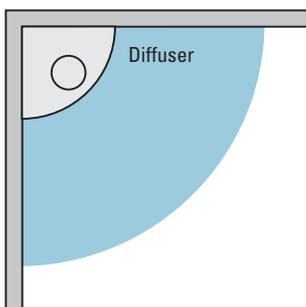
- Diffuser Frame and Equalization Baffle – Aluminum
- Plenum Caps – Rolled Steel
- Perforated Face and Plenum Back – Coated Steel
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

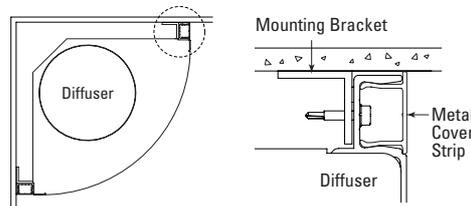
### Accessories

- Base
- Duct Covers
- AFSD

### Air Pattern



### Rail-Mounting System Detail



### Dimensional Data - Imperial (inches)

Dia. X H	Duct
18x24	6,7
18x36	6, 7, 10x4
18x48	6, 7, 10x4
24x24	8, 9, 10
24x36	8, 9, 10
24x48	8, 9, 10
24x60	9, 10, 16x5
30x24	8, 10
30x36	8, 10, 12
30x48	10, 12
30x60	10, 12, 20x6
36x24	10, 12
36x36	10, 12, 14, 16
36x48	12, 14, 16
36x60	14, 16
42x36	12, 14, 16
42x48	12, 14, 16
42x60	12, 14, 16
48x36	12, 14, 16
48x48	14, 16
48x60	14, 16

### Dimensional Data - Metric (mm)

Dia. X H	Duct
457 x 600	100
457 x 900	100
610 x 600	150
610 x 900	150
610 x 1200	150
610 x 1500	150
762 x 600	200
762 x 900	200
762 x 1200	200
762 x 1500	200
915 x 610	250, 315
915 x 900	250, 315
915 x 1200	250, 315
915 x 1500	250, 315
1067 x 1200	315
1067 x 1500	315
1219 x 1200	400
1219 x 1500	400
1219x900	315, 400
1219x1200	400
1219x1500	400

For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

# Wall Mounted Displacement Diffusers DR90 Series



## Performance Data – Imperial Units

Unit Size Dia. x H [in] Face Area [ft <sup>2</sup> ]	Inlet Size [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]			
							ΔT = 5°F		ΔT = 10°F	
							DR		DR	
							15%	20%	15%	20%
18 x 24 [2]	4	20	41	0.03	0.01	--	1	--	3	2
		30	61	0.06	0.03	--	2	1	4	2
		40	81	0.10	0.05	19	2	1	6	3
		50	102	0.16	0.08	26	3	1	8	4
24 x 24 [2.8]	6	20	56	0.01	--	--	1	--	3	1
		30	83	0.03	0.02	--	2	1	5	2
		40	111	0.06	0.04	--	3	2	7	3
		50	139	0.09	0.06	17	4	2	9	4
30 x 24 [3.5]	8	20	70	0.01	--	--	1	--	3	1
		30	106	0.02	0.02	--	3	1	5	3
		40	141	0.04	0.03	--	3	2	8	4
		50	176	0.06	0.04	--	5	2	10	5
18 x 36 [3.1]	4	20	62	0.03	--	--	2	--	4	2
		30	93	0.06	--	16	3	1	6	3
		40	124	0.11	--	25	4	2	9	4
		50	155	0.18	--	33	5	2	11	6
24 x 36 [4.2]	6	20	85	0.02	0.01	--	2	1	4	2
		30	127	0.05	0.02	--	4	2	7	3
		40	170	0.09	0.04	16	5	2	10	5
		50	212	0.14	0.07	23	7	3	13	7
30 x 36 [5.4]	8	20	108	0.02	--	--	2	1	5	2
		30	162	0.04	0.02	--	4	2	8	4
		40	215	0.06	0.04	--	6	3	11	6
		50	269	0.10	0.06	17	7	4	15	8
24 x 48 [5.7]	6	20	114	0.03	--	--	2	1	6	3
		30	171	0.06	0.01	--	4	2	9	5
		40	229	0.10	0.02	20	7	3	13	7
		50	286	0.16	0.03	28	9	4	18	10
30 x 48 [7.2]	8	20	145	0.02	0.01	--	3	1	7	3
		30	217	0.05	0.02	--	5	2	11	6
		40	290	0.08	0.04	--	8	4	15	8
		50	362	0.13	0.06	21	10	5	20	11
24 x 60 [7.2]	6	20	144	0.02	--	--	3	2	7	3
		30	215	0.05	--	--	6	3	12	6
		40	287	0.09	--	24	8	4	17	9
		50	359	0.15	--	31	11	6	22	12
30 x 60 [9.1]	8	20	182	0.02	--	--	4	2	8	4
		30	273	0.05	0.02	--	7	3	14	7
		40	364	0.09	0.03	17	9	5	19	10
		50	455	0.15	0.04	24	13	7	25	14

### Performance Notes:

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3. Pressure is in inches of water, in. w.g.
4. The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
5. ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
6. Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
7. Distances closer to the diffuser have a higher DR than the cataloged value.
8. DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
9. Blanks (--) indicate that the DR is below the specified value at all distances from the diffuser face.
10. DR catalog data is presented for an occupant density of 25 people/1000ft<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
11. Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Diffusers DR90 Series



## Performance Data – Metric Units

Unit Size Dia. x H [mm] Face Area [m <sup>2</sup> ]	Inlet Size [mm]	Face Velocity [m/s]	Air Flow [L/s]	Total Pressure [Pa]	Static Pressure [Pa]	Noise Criteria [NC]	Proximity to Outlet [m]			
							$\Delta T = 2.8\text{ }^{\circ}\text{C}$		$\Delta T = 5.6\text{ }^{\circ}\text{C}$	
							DR		DR	
							15%	20%	15%	20%
457 x 600 [0.19]	100	0.10	19	6.5	3.0	--	0.3	--	0.9	0.6
		0.15	28	14.6	6.8	--	0.6	0.3	1.2	0.6
		0.20	38	25.9	12.0	19	0.6	0.3	1.8	0.9
		0.25	47	40.5	18.8	26	0.9	0.3	2.4	1.2
610 x 600 [0.25]	150	0.10	26	3.7	--	--	0.3	--	0.9	0.3
		0.15	39	8.4	5.5	--	0.6	0.3	1.5	0.6
		0.20	51	14.9	9.7	--	0.9	0.6	2.1	0.9
		0.25	65	23.2	15.2	17	1.2	0.6	2.7	1.2
762 x 600 [0.32]	200	0.10	33	2.3	--	--	0.3	--	0.9	0.3
		0.15	49	5.3	3.8	--	0.9	0.3	1.5	0.9
		0.20	66	9.4	6.8	--	0.9	0.6	2.4	1.2
		0.25	82	14.7	10.6	--	1.5	0.6	3.0	1.5
457 x 900 [0.28]	100	0.10	29	7.0	--	--	0.6	--	1.2	0.6
		0.15	43	15.8	--	16	0.9	0.3	1.8	0.9
		0.20	58	28.1	--	25	1.2	0.6	2.7	1.2
		0.25	72	43.9	--	33	1.5	0.6	3.4	1.8
610 x 900 [0.39]	150	0.10	40	5.7	2.7	--	0.6	0.3	1.2	0.6
		0.15	59	12.8	6.1	--	1.2	0.6	2.1	0.9
		0.20	79	22.8	10.8	16	1.5	0.6	3.0	1.5
		0.25	99	35.6	16.9	23	2.1	0.9	4.0	2.1
762 x 900 [0.49]	200	0.10	50	4.0	--	--	0.6	0.3	1.5	0.6
		0.15	75	8.9	5.5	--	1.2	0.6	2.4	1.2
		0.20	100	15.8	9.7	--	1.8	0.9	3.4	1.8
		0.25	125	24.7	15.2	17	2.1	1.2	4.6	2.4
610 x 1200 [0.52]	150	0.10	53	6.5	--	--	0.6	0.3	1.8	0.9
		0.15	80	14.7	--	--	1.2	0.6	2.7	1.5
		0.20	106	26.1	4.4	20	2.1	0.9	4.0	2.1
		0.25	133	40.7	6.9	28	2.7	1.2	5.5	3.0
762 x 1200 [0.66]	200	0.10	67	5.2	--	--	0.9	0.3	2.1	0.9
		0.15	101	11.8	5.6	--	1.5	0.6	3.4	1.8
		0.20	135	21.0	9.9	--	2.4	1.2	4.6	2.4
		0.25	168	32.8	15.5	21	3.0	1.5	6.1	3.4
610 x 1500 [0.66]	150	0.10	67	5.7	--	--	0.9	0.6	2.1	0.9
		0.15	100	12.8	--	--	1.8	0.9	3.7	1.8
		0.20	134	22.8	--	24	2.4	1.2	5.2	2.7
		0.25	167	35.6	--	31	3.4	1.8	6.7	3.7
762 x 1500 [0.83]	200	0.10	84	5.9	--	--	1.2	0.6	2.4	1.2
		0.15	127	13.4	3.6	--	2.1	0.9	4.3	2.1
		0.20	169	23.4	7.1	17	2.7	1.5	5.8	3.0
		0.25	211	36.6	11.0	24	4.0	2.1	7.6	4.3

### Performance Notes:

1. Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in Litres per second, L/s.
3. Pressure is in Pascals, Pa.
4. The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts and one diffuser.
5.  $\Delta T$  is the difference between the room air temperature 1 m above the floor and the temperature of the supply air.
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8. DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy.
9. Blanks (-) indicate that the DR is below the specified value at all distances from the diffuser face.
10. DR catalog data is presented for an occupant density of 25 people/100m<sup>2</sup>, which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2004. For other occupant densities, please refer to the DV Room Designer Software.
11. Performance data for standard diffusers not listed in the catalog is available in Price AIO Software.

# Wall Mounted Displacement Accessories Duct Covers

## Product Information

**Price Duct Covers** for displacement diffusers provide a consistent look from floor to ceiling. These products continue the appearance of the diffuser while concealing the ductwork for an architecturally appealing installation. Duct covers can be supplied in solid steel or perforated material to match the diffuser face. When using a perforated duct cover, the ductwork can be painted black for a finished look. The duct cover is available in varying lengths and can be split into multiple sections to create a symmetric look with the diffuser. These units are perfect for top ducted diffusers where exposed ductwork is not desired, such as hotel lobbies, office boardrooms, schools, and restaurants. See specific product for availability.

### Features

- Seamless construction.
- Matches corresponding product design.
- Variable height to match look of diffuser and fit into any room height.
- Duct covers for DF1, DF3, DR90, DR180, and DR180U:
  - Ship assembled from factory.
  - Use rail-mounting method.
- Available with protective film.

### Construction/Finish

- Face – 21 Gauge steel
  - Support Extrusion (where required) – Aluminum
  - Finish – B12 White (Standard)
- For optional and special finishes see color matrix.

### Options

- Solid steel duct cover.
- Perforated steel duct cover.

### Sizes

- Width, radius/diameter, depth are all based on diffuser.
- Support extrusion (where required) – Aluminum.

### Duct Covers are available for:

- DF1
- DF3
- DF1C
- DR90
- DR180
- DR180U



For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)

# Wall Mounted Displacement Accessories Bases



## Product Information

**Price Bases** for displacement diffusers allow the diffuser to be installed above floor level, creating a look that is consistent with the existing décor. These products continue the look of base board heights and provide access to bottom ducted units for easier installation. The base also provides protection from damage or moisture during cleaning. The base is available in varying lengths and is inset from the face of the diffuser by 1 inch (25 mm). The easy installation of the product allows it to be ordered with a displacement unit or as a secondary order if the look is required after the original diffuser's installation. See specific product for availability.

### Features

- Seamless construction.
- Matches corresponding product design.
- Variable height to match desired look of diffuser.
- Ships with protective film.

### Construction/Finish

- Face – 21 Gauge steel
- Legs – Extruded Aluminum
- Finish – B12 White (Standard)

For optional and special finishes see color matrix.

### Sizes

- Width, radius/diameter, depth are all based on diffuser ordered.
- Height ranges from 2" to 6" (50mm to 150mm).

### Bases are available for:

- DF1
- DF3
- DF1C
- DR90
- DR180
- DR180U
- DR360



For a complete list of standard sizes and inlets, refer to [www.priceindustries.com/resources/type/literature/submittals](http://www.priceindustries.com/resources/type/literature/submittals)