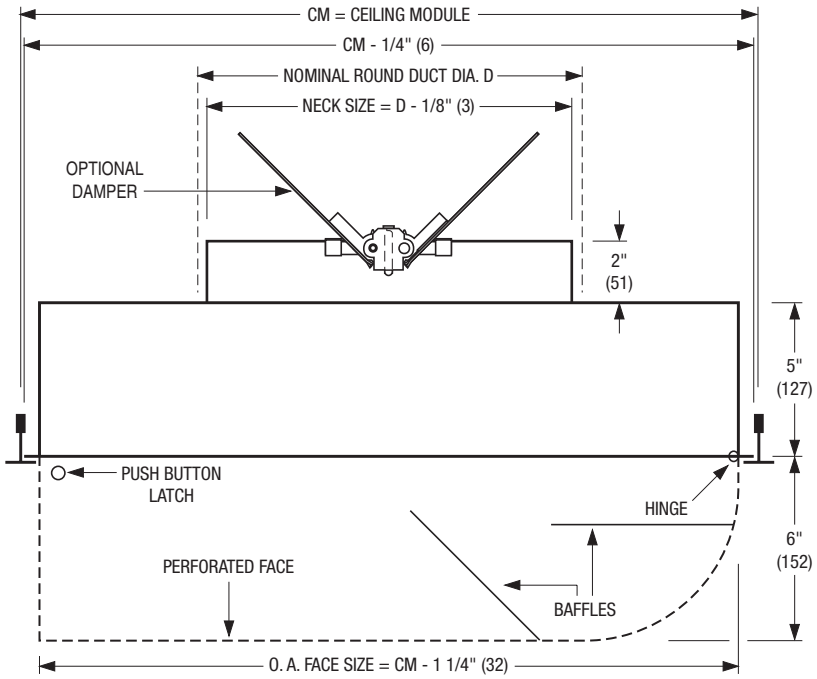
RADIAL PATTERN DIFFUSER
90 DEGREE
MODEL: 92RPD-1

Nailor Industries Inc.

❑ Type L
Lay-in Mount



Type L* Lay-in T-Bar
Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S. I. Units (mm)		S. I. Units (mm)	
D	CM	D	CM	D	CM
6, 8	24 x 12	152, 203	610 x 305	152, 203	600 x 300
8, 10	48 x 12	203, 254	1219 x 305	203, 254	1200 x 300
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

*Compatible with 15/16" (24) and 1" (25) wide T-Bars only.

DESCRIPTION:
The Model 92RPD-1 Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.
The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities.
The 92RPD introduces air in a 90 degree radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:
1. Aluminum perforated face with 3/32" (2.4) dia. holes on 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with a full length hinge and secured with wingnuts. The opposite side is secured with a push button latch mechanism. The diffuser face simply hinges down for easy access to the interior for cleaning or may be completely removed.
2. Aluminum extruded baffles secured with flush drive screws.
3. Corrosion resistant steel distribution plenum.
4. Standard finish is AW Appliance White. Other finishes available.

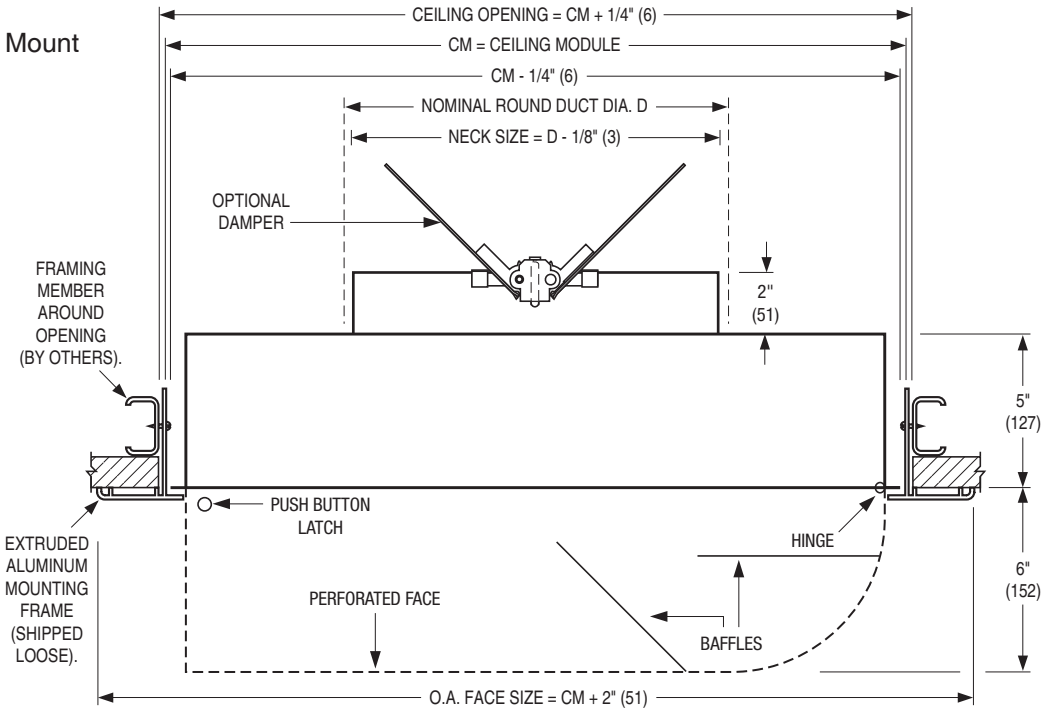
OPTIONS:
- ❑ BD Butterfly damper, coated steel, AW Appliance White finish.
- ❑ AB Aluminum backpan.
- ❑ EX05 0.5" (13) External Foil-Back Fiberglass Insulation.
- ❑ EX15 1.5" (38) External Foil-Back Fiberglass Insulation, R-4.2.
- ❑ SP Special finish _____ .
- ❑ Other _____ .

ACCESSORIES:
- ❑ DFA Aluminum Drywall/Plaster Frame. Provides simple easy installation of Type L in hard ceilings. (See submittal dwg. ACC-DFA).

SCHEDULE TYPE:	Page 1 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**7 - 26 - 23**	**9200**	**6 - 1 - 22**	**92RPD-1**

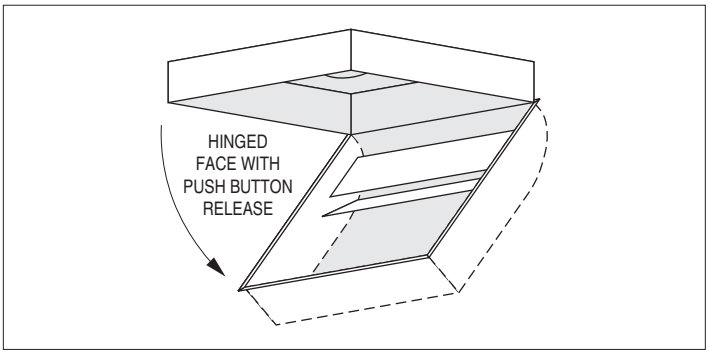
RADIAL PATTERN DIFFUSER
90 DEGREE
MODEL: 92RPD-1

❑ Type S
Surface Mount



Type S Surface Mount
Available Ceiling Module Sizes

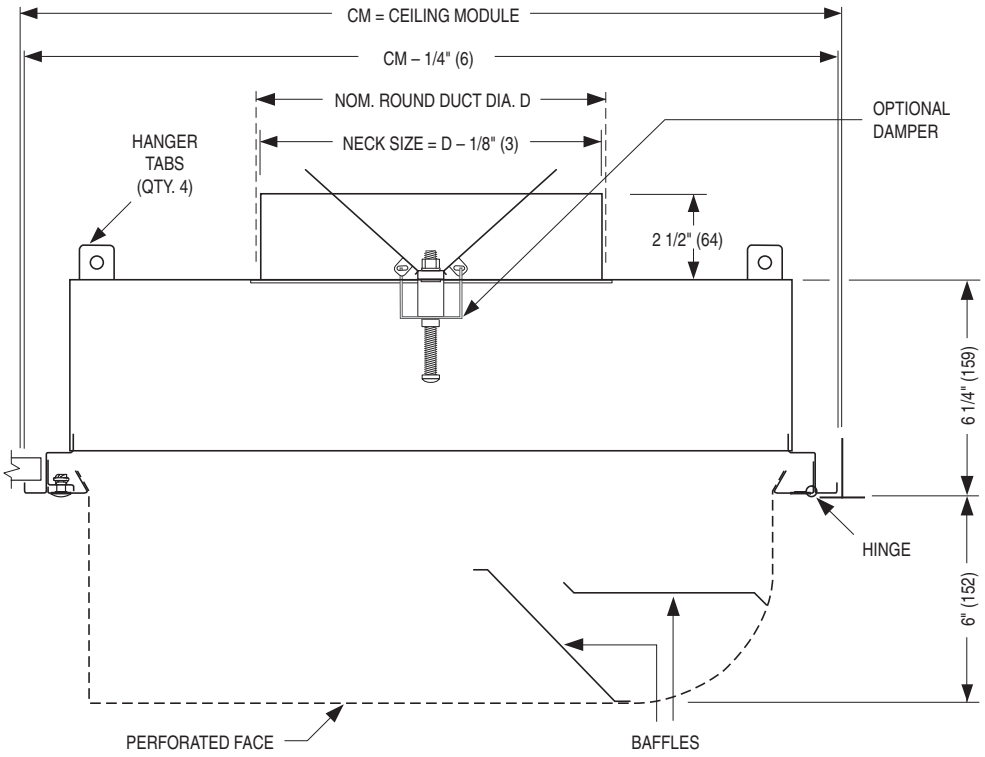
Imperial Modules				Metric Modules	
Imperial Units (inches)		S. I. Units (mm)		S. I. Units (mm)	
D	CM	D	CM	D	CM
6, 8	24 x 12	152, 203	610 x 305	152, 203	600 x 300
8, 10	48 x 12	203, 254	1219 x 305	203, 254	1200 x 300
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600



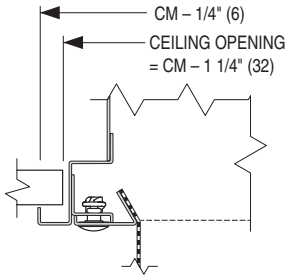
NOTE:
The Type S mounting frame is field installed separately. Framing of the ceiling opening surround for attachment is by others and permits simple removal of the unit for plenum entry or cleaning.

SCHEDULE TYPE:	Page 2 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**7 - 26 - 23**	**9200**	**6 - 1 - 22**	**92RPD-1**

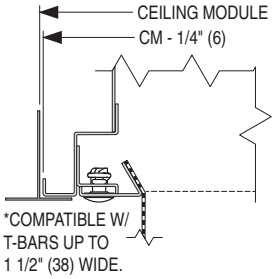
RADIAL PATTERN DIFFUSER
90 DEGREE • STAINLESS STEEL
CRITICAL ENVIRONMENT APPLICATIONS
PERFORATED FACE
MODEL: 92RPD-1SS



❑ **TYPE S** Surface Mount Detail

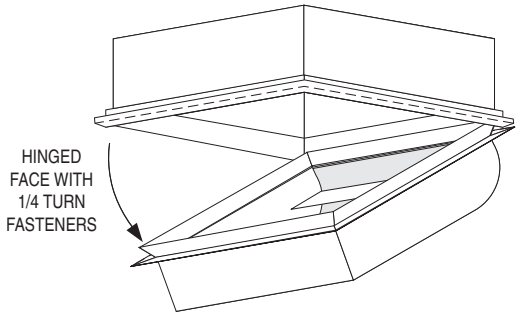


❑ **TYPE L*** Lay-in T-Bar Detail



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8	48 x 12	203	1219 x 305	203	1200 x 300
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600



DESCRIPTION:
The Model 92RPD-1SS Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.
The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities.
The 92RPD-1SS introduces air in a 90 degree radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:
1. 304 Stainless Steel perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 Stainless Steel fully welded plenum and baffles.
3. Standard finish is #4 Brushed Satin Polish.

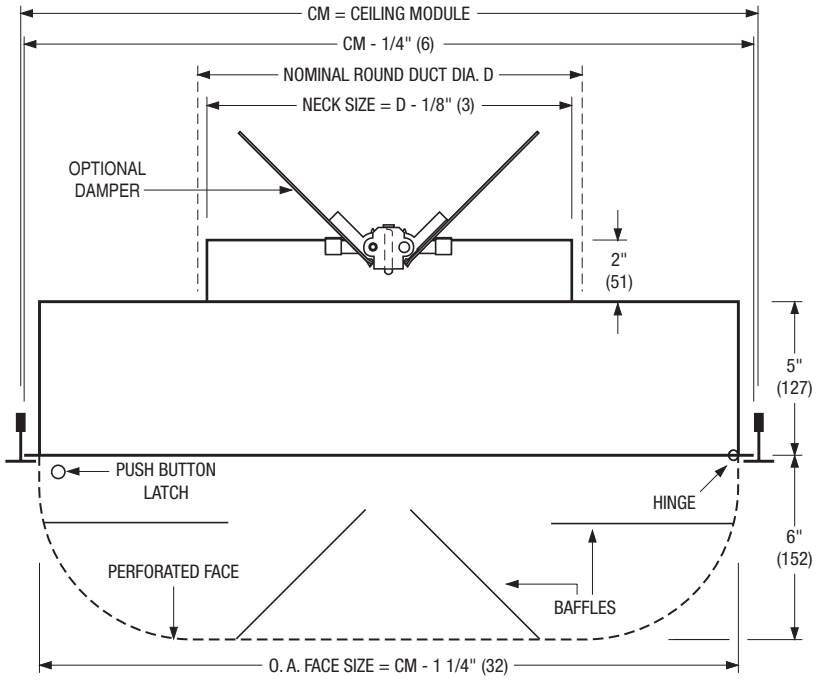
OPTIONS:
❑ 316 Stainless Steel construction.
❑ BDS Butterfly damper, Stainless Steel (face operated).
Finish:
❑ AW Appliance White.
❑ SP Special _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**9 - 2 - 16**	**9200-SS**	**12 - 12 - 11**	**92RPD-1SS**

RADIAL PATTERN DIFFUSER
180 DEGREE
MODEL: 92RPD-2

Nailor® Industries Inc.

❑ Type L
Lay-in Mount



Type L* Lay-in T-Bar
Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S. I. Units (mm)		S. I. Units (mm)	
D	CM	D	CM	D	CM
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

*Compatible with 15/16" (24) and 1" (25) wide T-Bars only.

DESCRIPTION:
The Model 92RPD-2 Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.
The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities.
The 92RPD introduces air in a semi-cylindrical radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:
1. Aluminum perforated face with 3/32" (2.4) dia. holes on 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with a full length hinge and secured with wingnuts. The opposite side is secured with a push button latch mechanism. The diffuser face simply hinges down for easy access to the interior for cleaning or may be completely removed.
2. Aluminum extruded baffles secured with flush drive screws.
3. Corrosion resistant steel distribution plenum.
4. Standard finish is AW Appliance White. Other finishes available.

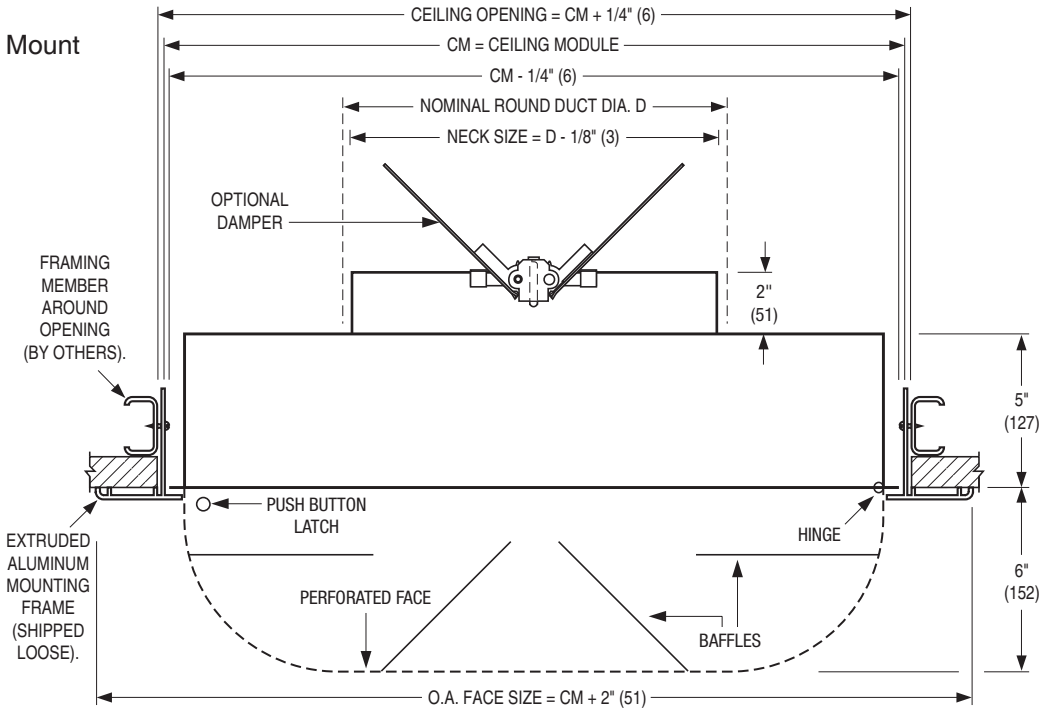
OPTIONS:
- ❑ BD Butterfly damper, coated steel, AW Appliance White finish.
- ❑ AB Aluminum backpan.
- ❑ EX05 0.5" (13) External Foil-Back Fiberglass Insulation.
- ❑ EX15 1.5" (38) External Foil-Back Fiberglass Insulation, R-4.2.
- ❑ SP Special finish _____ .
- ❑ Other _____ .

ACCESSORIES:
- ❑ DFA Aluminum Drywall/Plaster Frame. Provides simple easy installation of Type L in hard ceilings. (See submittal dwg. ACC-DFA).

SCHEDULE TYPE:	Page 1 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**6 - 1 - 22**	**9200**	**6 - 6 - 16**	**92RPD-2**

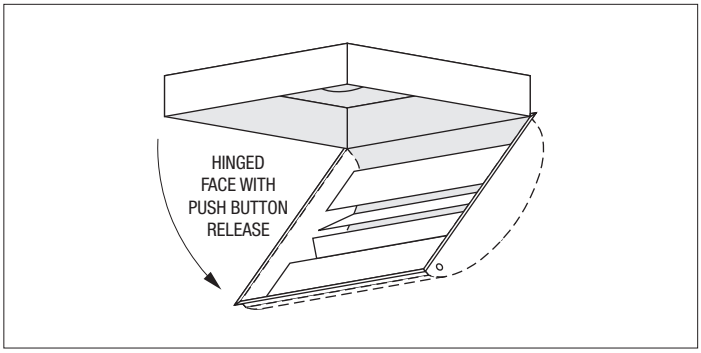
RADIAL PATTERN DIFFUSER
180 DEGREE
MODEL: 92RPD-2

❑ Type S
Surface Mount



Type S Surface Mount
Available Ceiling Module Sizes

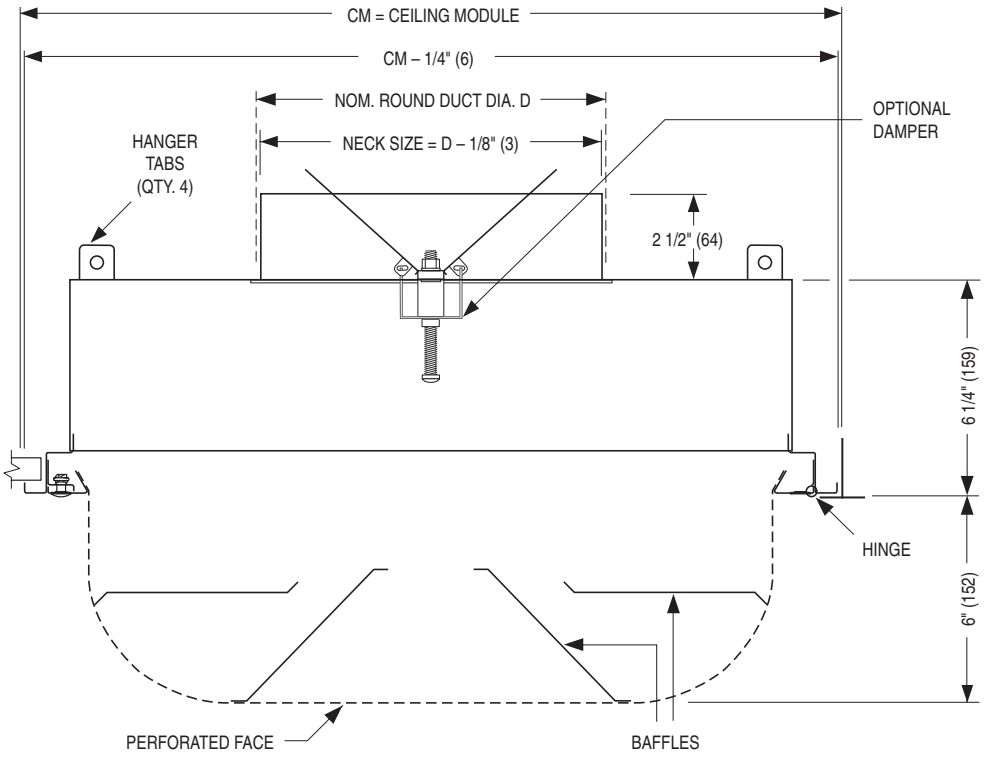
Imperial Modules				Metric Modules	
Imperial Units (inches)		S. I. Units (mm)		S. I. Units (mm)	
D	CM	D	CM	D	CM
8, 10 10, 12	24 x 24 48 x 24	203, 254 254, 305	610 x 610 1219 x 610	203, 254 254, 305	600 x 600 1200 x 600



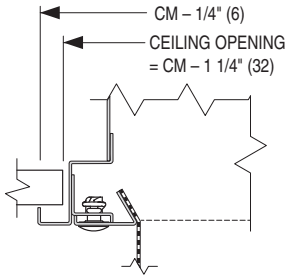
NOTE:
The Type S mounting frame is field installed separately. Framing of the ceiling opening surround for attachment is by others and permits simple removal of the unit for plenum entry or cleaning.

SCHEDULE TYPE:	Page 2 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**6 - 1 - 22**	**9200**	**6-6-16/92RPD-4**	**92RPD-2**

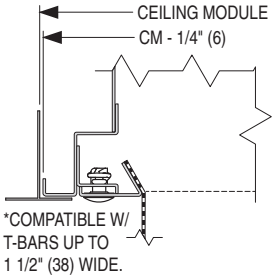
RADIAL PATTERN DIFFUSER
180 DEGREE • STAINLESS STEEL
CRITICAL ENVIRONMENT APPLICATIONS
PERFORATED FACE
MODEL: 92RPD-2SS



❑ **TYPE S** Surface Mount Detail

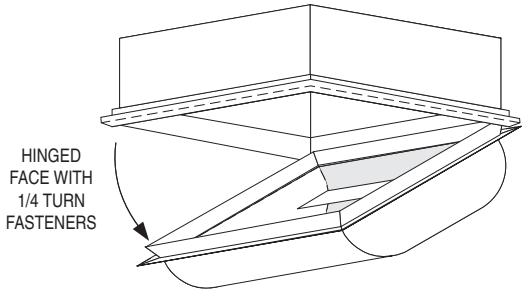


❑ **TYPE L*** Lay-in T-Bar Detail



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600



DESCRIPTION:

The Model 92RPD-2SS Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.

The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities.

The 92RPD-2SS introduces air in a semi-cylindrical radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:

1. 304 Stainless Steel perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 Stainless Steel fully welded plenum and baffles.
3. Standard finish is #4 Brushed Satin Polish.

OPTIONS:

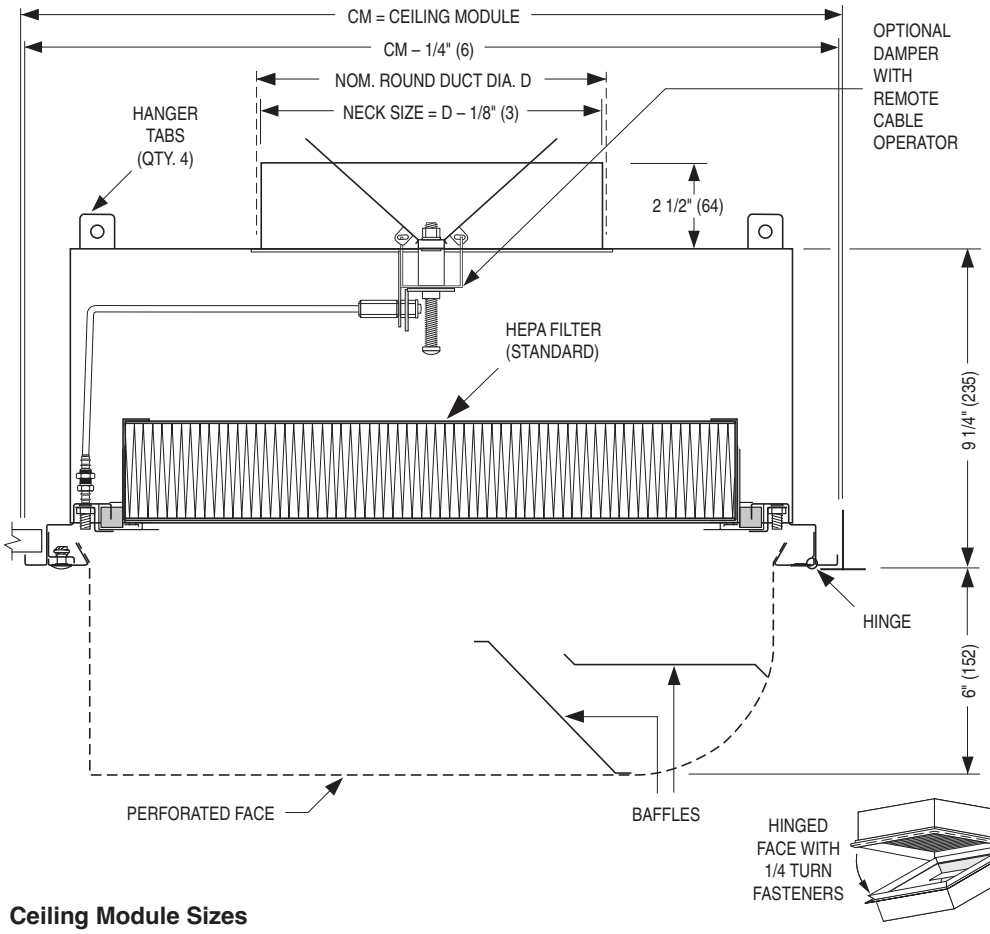
❑ 316 Stainless Steel construction.
❑ BDS Butterfly damper, Stainless Steel (face operated).
Finish:
❑ AW Appliance White.
❑ SP Special _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**9 - 2 - 16**	**9200-SS**	**12 - 12 - 11**	**92RPD-2SS**

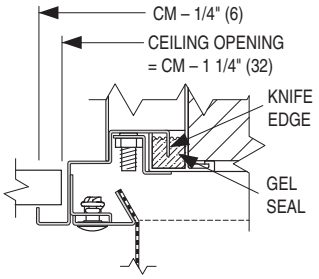
RADIAL PATTERN DIFFUSER

90 DEGREE • ALUMINUM • CRITICAL ENVIRONMENT APPLICATIONS • PERFORATED FACE • HEPA OR ULPA FILTER • DOP SCAN TESTED

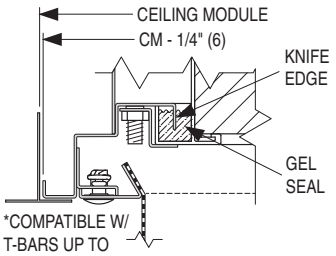
MODEL: 92RPDF-1AL



❑ **TYPE S** Surface Mount Detail

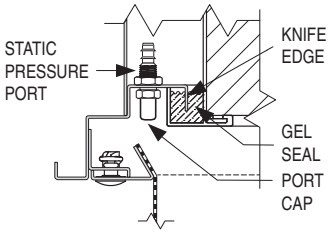


❑ **TYPE L*** Lay-in T-Bar Detail



*COMPATIBLE W/ T-BARS UP TO 1 1/2" (38) WIDE.

Optional Static Pressure Port



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8	48 x 12	203	1219 x 305	203	1200 x 300
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

DESCRIPTION:

The Model 92RPDF-1AL Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.

The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities. They are designed to accomodate a Gel Seal HEPA or ULPA filter. The filters can be easily removed and replaced from the face of the unit.

The plenum is factory DOP scan tested for leaks in accordance with Standard IEST-RP-CCO34.3.

The 92RPDF-1AL introduces air in a 90 degree radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:

1. Aluminum perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 stainless steel fully welded plenum and baffles.
3. HEPA Filter: Clear anodized extruded aluminum filter frame with port for damper adjustment.
4. Standard finish is AW Appliance White.

OPTIONS:

- ❑ UL ULPA Filter (99.9995% on 0.12 μm).
- ❑ FBO Filter by others.
- ❑ BDS Butterfly damper, Stainless Steel (face operated).
- ❑ BDSR Butterfly damper w/remote cable operator, Stainless Steel.
- ❑ SPP Static pressure test/DOP port.
- ❑ CPM DOP/PAO Challenge Port and Manifold.
- ❑ STC Scan Testing Certificate.

Finish:

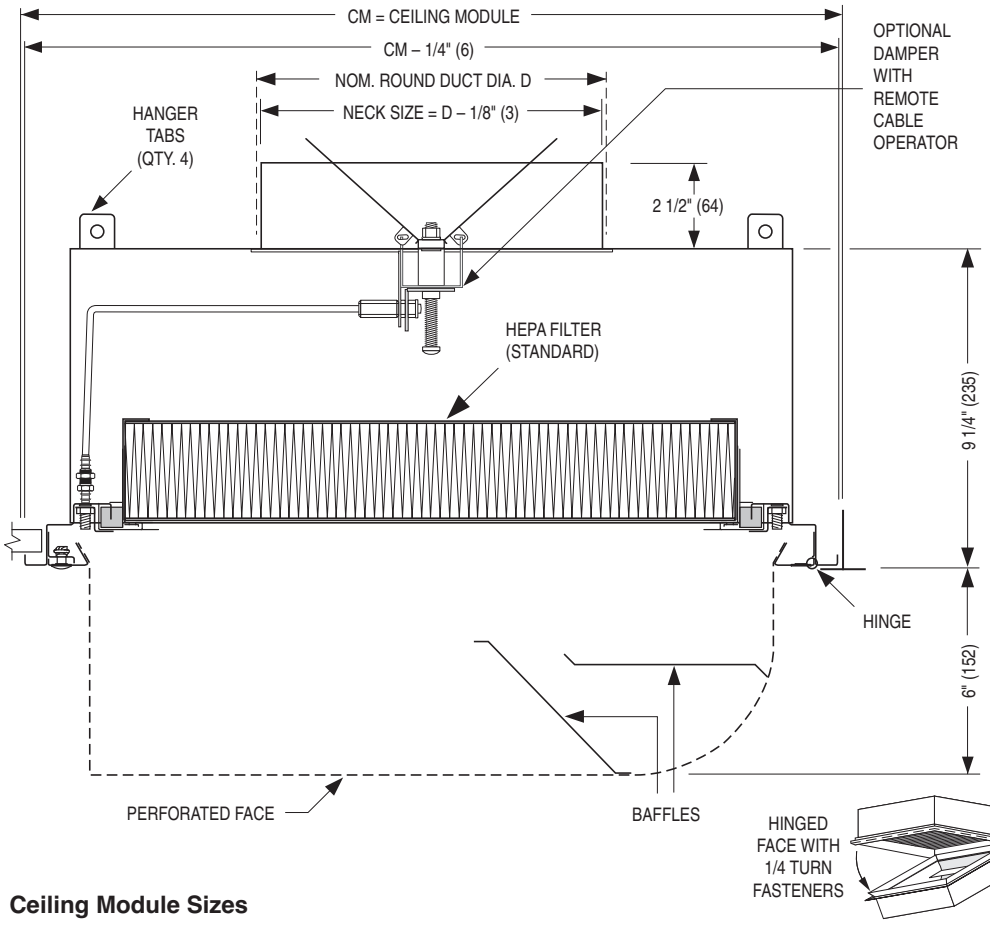
- ❑ SP Special _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**10 - 27 - 15**	**9200**	**NEW**	**92RPDF-1AL**

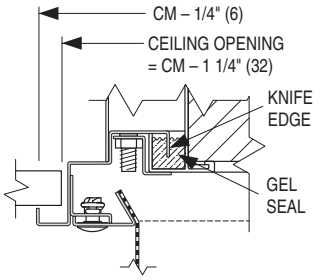
RADIAL PATTERN DIFFUSER

90 DEGREE • STAINLESS STEEL • CRITICAL ENVIRONMENT APPLICATIONS • PERFORATED FACE HEPA OR ULPA FILTER • DOP SCAN TESTED

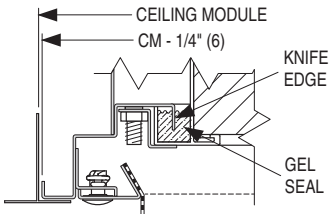
MODEL: 92RPDF-1SS



❑ **TYPE S** Surface Mount Detail

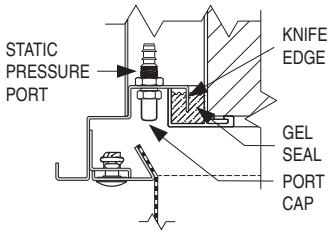


❑ **TYPE L*** Lay-in T-Bar Detail



*COMPATIBLE W/ T-BARS UP TO 1 1/2" (38) WIDE.

Optional Static Pressure Port



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8	48 x 12	203	1219 x 305	203	1200 x 300
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

DESCRIPTION:

The Model 92RPDF-1SS Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.

The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities. They are designed to accomodate a Gel Seal HEPA or ULPA filter. The filters can be easily removed and replaced from the face of the unit.

The plenum is factory DOP scan tested for leaks in accordance with Standard IEST-RP-CCO34.3.

The 92RPDF-1SS introduces air in a 90 degree radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:

1. 304 stainless steel perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 stainless steel fully welded plenum and baffles.
3. HEPA Filter: Clear anodized extruded aluminum filter frame with port for damper adjustment.
4. Standard finish is #4 Brushed Satin Polished.

OPTIONS:

- ❑ 316 Stainless Steel construction.
- ❑ UL ULPA Filter (99.9995% on 0.12 μm).
- ❑ FBO Filter by others.
- ❑ BDS Butterfly damper, Stainless Steel (face operated).
- ❑ BDSR Butterfly damper w/remote cable operator, Stainless Steel.
- ❑ SPP Static pressure test/DOP port.
- ❑ CPM DOP/PAO Challenge Port and Manifold.
- ❑ STC Scan Testing Certificate.

Finish:

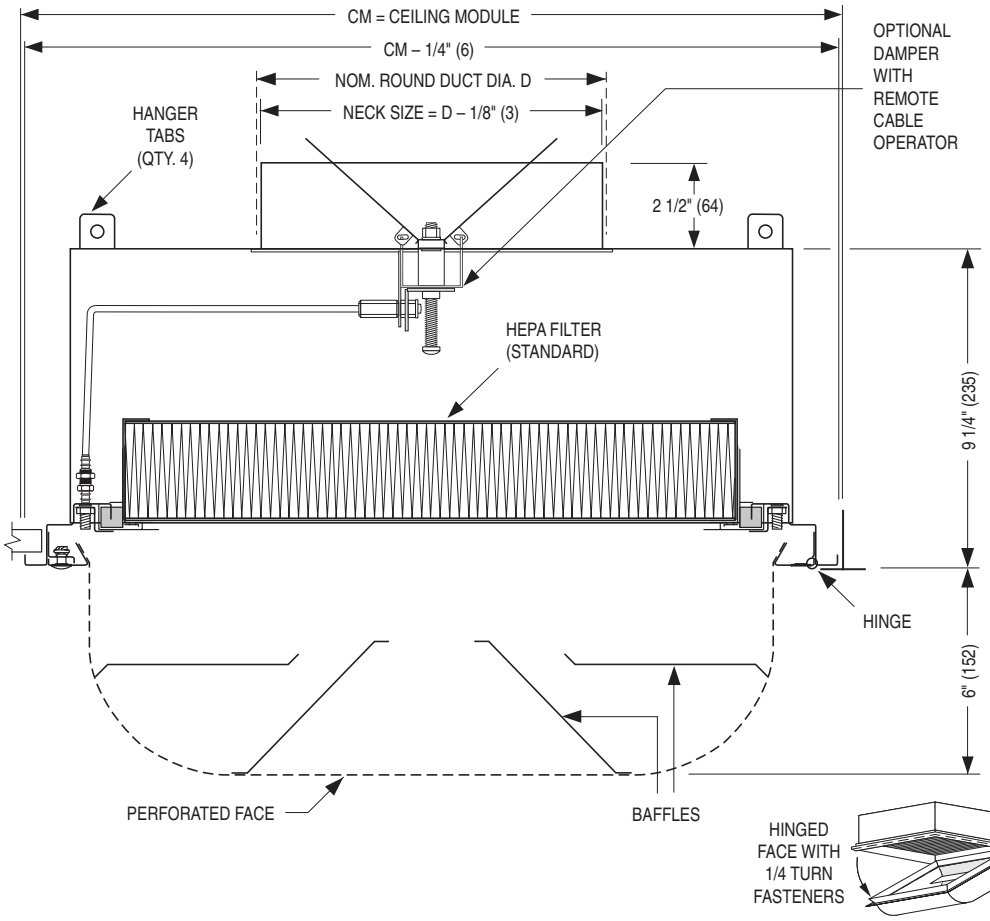
- ❑ AW Appliance White.
- ❑ SP Special _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**9 - 2 - 16**	**9200-SS**	**12 - 12 - 11**	**92RPDF-1SS**

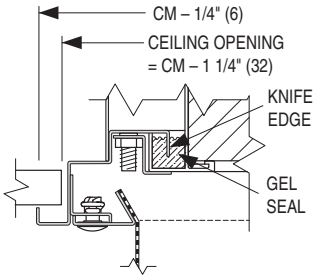
RADIAL PATTERN DIFFUSER

180 DEGREE • ALUMINUM • CRITICAL ENVIRONMENT APPLICATIONS • PERFORATED FACE • HEPA OR ULPA FILTER • DOP SCAN TESTED

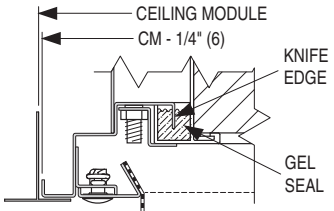
MODEL: 92RPDF-2AL



❑ **TYPE S** Surface Mount Detail

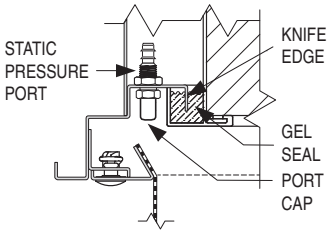


❑ **TYPE L*** Lay-in T-Bar Detail



*COMPATIBLE W/ T-BARS UP TO 1 1/2" (38) WIDE.

Optional Static Pressure Port



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

DESCRIPTION:

The Model 92RPDF-2AL Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.

The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities. They are designed to accomodate a Gel Seal HEPA or ULPA filter. The filters can be easily removed and replaced from the face of the unit.

The plenum is factory DOP scan tested for leaks in accordance with Standard IEST-RP-CCO34.3.

The 92RPDF-2AL introduces air in semi-cylindrical radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:

1. Aluminum perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 stainless steel fully welded plenum and baffles.
3. HEPA Filter: Clear anodized extruded aluminum filter frame with port for damper adjustment.
4. Standard finish is AW Appliance White.

OPTIONS:

- ❑ UL ULPA Filter (99.9995% on 0.12 μm).
- ❑ FBO Filter by others.
- ❑ BDS Butterfly damper, Stainless Steel (face operated).
- ❑ BDSR Butterfly damper w/remote cable operator, Stainless Steel.
- ❑ SPP Static pressure test/DOP port.
- ❑ CPM DOP/PAO Challenge Port and Manifold.
- ❑ STC Scan Testing Certificate.

Finish:

- ❑ SP Special _____ .

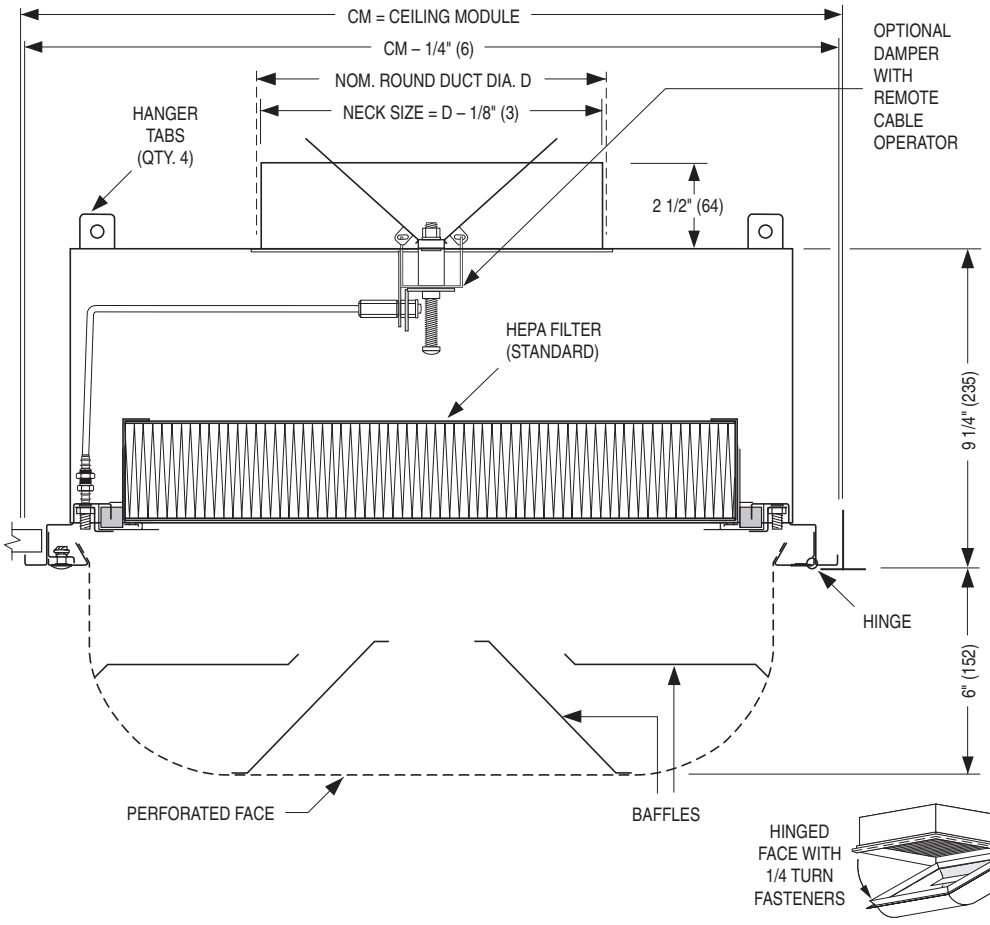
SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**10 - 27 - 15**	**9200**	**NEW**	**92RPDF-2AL**

Nailor Industries Inc.

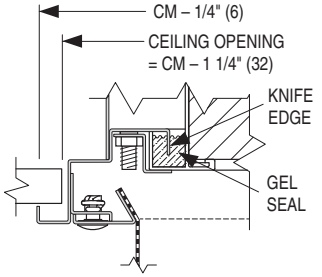
RADIAL PATTERN DIFFUSER

180 DEGREE • STAINLESS STEEL • CRITICAL ENVIRONMENT APPLICATIONS • PERFORATED FACE HEPA OR ULPA FILTER • DOP SCAN TESTED

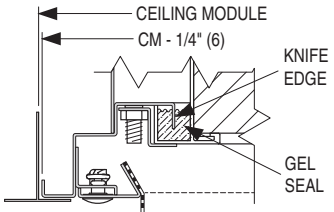
MODEL: 92RPDF-2SS



❑ **TYPE S** Surface Mount Detail

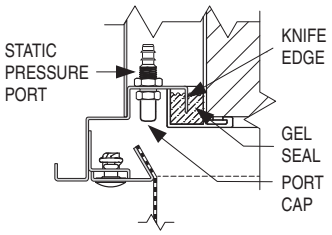


❑ **TYPE L*** Lay-in T-Bar Detail



*COMPATIBLE W/ T-BARS UP TO 1 1/2" (38) WIDE.

Optional Static Pressure Port



Ceiling Module Sizes

Imperial Modules				Metric Modules	
Imperial Units (inches)		S.I. Units (mm)		S.I. Units (mm)	
D	CM	D	CM	D	CM
8, 10	24 x 24	203, 254	610 x 610	203, 254	600 x 600
10, 12	48 x 24	254, 305	1219 x 610	254, 305	1200 x 600

DESCRIPTION:

The Model 92RPDF-2SS Radial Pattern Diffuser has been designed to provide low aspiration and high ventilation rates especially for clean room applications such as research laboratories, animal labs, food processing, hospital rooms and computer rooms.

The unique design of solid baffles in an intrusive perforated face can handle large volumes of air with low initial face velocities. They are designed to accomodate a Gel Seal HEPA or ULPA filter. The filters can be easily removed and replaced from the face of the unit.

The plenum is factory DOP scan tested for leaks in accordance with Standard IEST-RP-CCO34.3.

The 92RPDF-2SS introduces air in a semi-cylindrical radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing entrainment and hence mixing with contaminated air while still allowing low room air velocities.

CONSTRUCTION:

1. 304 stainless steel perforated face with 3/32" (2.4) dia. holes on 60 degree 1/4" (6) staggered centers (13% free area). The face of the diffuser is attached to the plenum with stainless steel hinges. The opposite side is secured with 1/4 turn fasteners. The diffuser face simply hinges down for easy access to the interior for cleaning.
2. 304 stainless steel fully welded plenum and baffles.
3. HEPA Filter: Clear anodized extruded aluminum filter frame with port for damper adjustment.
4. Standard finish is #4 Brushed Satin Polished.

OPTIONS:

- ❑ 316 Stainless Steel construction.
- ❑ UL ULPA Filter (99.9995% on 0.12 μm).
- ❑ FBO Filter by others.
- ❑ BDS Butterfly damper, Stainless Steel (face operated).
- ❑ BDSR Butterfly damper w/remote cable operator, Stainless Steel.
- ❑ SPP Static pressure test/DOP port.
- ❑ CPM DOP/PAO Challenge Port and Manifold.
- ❑ STC Scan Testing Certificate.

Finish:

- ❑ AW Appliance White.
- ❑ SP Special _____ .

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**9 - 2 - 16**	**9200-SS**	**12 - 12 - 11**	**92RPDF-2SS**

Nailor Industries Inc.

Standard and Optional Finishes For Grilles and Diffusers

Nailor offers a selection of standard colors and finishes available on our grilles, registers and diffusers. For painted finishes, our state-of-the-art paint systems provide environmentally friendly finishing solutions with uniform coverage and coating thickness. The result is an exceptionally durable finish that resists scratching, corrosion and general wear. Additional facilities for special requirements, as well as a selection of anodized or brushed finishes, complete our ability to provide unmatched beauty and durability for any application.

NAILOR POWDER COAT PROPERTIES

FILM THICKNESS	2.0 to 3.0 mils
HARDNESS	2 H
IMPACT RESISTANCE	Direct: 160 inch - lbs. Reverse 160 inch - lbs.
SALT SPRAY	1000 hours

ELECTROCOATING PROPERTIES

FILM THICKNESS	.8 to 1.2 mils
HARDNESS	HB TO H
IMPACT RESISTANCE	80 inch - lbs
SALT SPRAY	100 hours

POWDER COAT

Nailor's powder coat is a high-tech thermosetting polyester powder coating with superior physical properties that provide excellent color and gloss retention. The finish offers extreme durability and hardness that resists scratching, chipping and general wear. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse before a final powder coat finish is applied and baked. The environmentally friendly Nailor powder coat system assures uniform coverage and color consistency resulting in a long lasting superior finish. Colors, including simulated anodizing, which is far more economical than color anodizing, can be selected from Nailor's standard color chart or non-standard colors and can be matched from sample chips provided to Nailor.

ELECTROCOATING

E-Coat is an environmentally friendly coating that provides complete coverage and a wide range of performance properties, formulated to meet corrosion, durability and other performance specifications. Electrocoating is a highly automated process in which paint is electrically deposited onto a metal foundation. Film build thickness is uniform and overall application efficiencies are in excess of 90%. Paint is consistent on all part-to-part surfaces, preventing sags, runs or drips. E-Coat offers flexibility, better first yield pass and quicker production times compared to other forms of paint applications. Electrocoating is an excellent solution that offers superior properties and uniform finish.

CLEAR ANODIZING (Aluminum products only)

Clear anodizing is a clear oxide coating that exemplifies an aluminum surface's natural oxide coating producing a hard, scratch resistant surface that is resistant to general wear and mild chemicals. The process provides a natural looking, virtually maintenance free finish that will endure for many years.

COLOR ANODIZING (Aluminum products only)

Color anodizing is an electrolytic process where, after standard anodizing procedures, colored metallic pigments penetrate the oxide surface pores producing a corrosion resistant, colorfast finish. The process results in a natural metallic appearance that requires little maintenance.

BRUSHED AND CLEAR COAT

Available on specific aluminum products (consult applicable product page for availability). Surface is brushed to achieve a scratch finish texture before being degreased and chemically cleaned. A clear lacquer coating is then applied to provide a durable protective finish.

#4 BRUSHED SATIN POLISHED (Stainless Steel products only)

Surface is polished to ASTM A480 #4 standard to achieve a bright durable finish that is resistant to mild chemicals and corrosion. A final coating is not required due to the inherent anti-corrosion properties of the stainless steel.

PRIME COAT

Prime coat provides a stable base for painting in the field. Surface pretreatment includes degreasing and a chemical cleaning before an alkyd prime coat is applied. After a thorough cleaning for dust, etc. that can contaminate the final finish and cause premature flaking or peeling, finish coat should be field applied as soon as possible.

PAINT PREPARED ALUMINUM (Aluminum products only)

Allows for field applied paint. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse. Finish coat should be field applied as soon as possible.

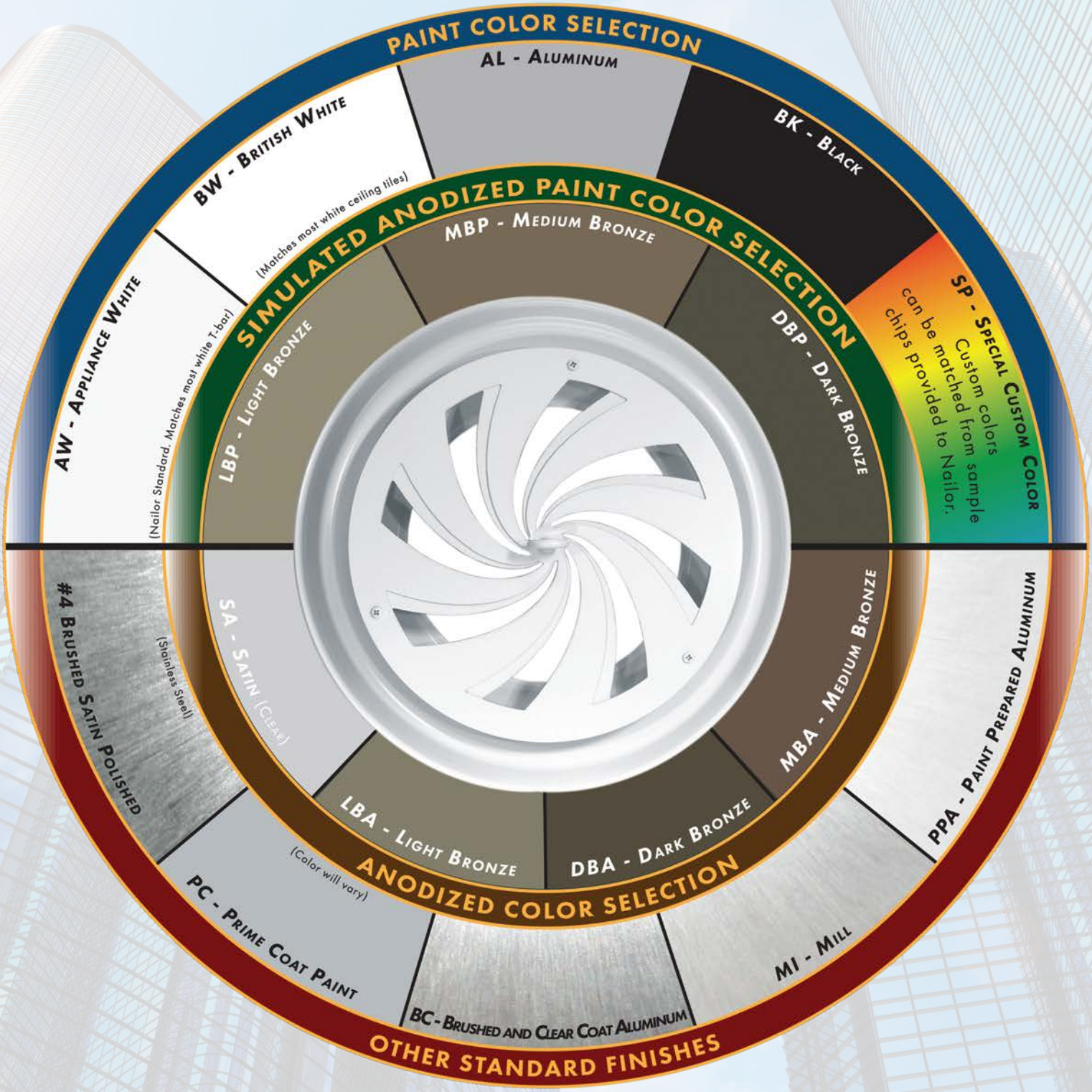
MILL FINISH

Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.

Nailor® Industries Inc.

Standard and Optional Finishes For Grilles and Diffusers

The following standard colors and finishes are available on applicable Nailor air distribution products. Consult individual product pages for availability



The pictured finishes have been represented as best as possible within printing limitations. However, actual finish may vary. Contact your Nailor representative for a color chip sample on the material specified for a more accurate representation.

DBK - Black (for registers ordered with factory mounted dampers) - ***BA*** - Perforated Diffusers (4300 series only) Appliance White (AW) face with black back pan and pattern controllers.

PERFORMANCE DATA:

MODELS 92RPD-1, 92RPD-1SS • 90° PATTERN

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT - 10°F (5.5°C)

Airflow CFM	Total Pressure	Static Pressure	Noise Criteria	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.114	.068	21	2.0	2.5	3.5	3.5	4.0	5.0
400	.203	.121	29	2.5	3.5	4.0	4.0	4.5	6.0
500	.317	.189	36	3.0	3.5	4.5	4.5	5.0	7.0

24" x 12" or 600 mm x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT - 10°F (5.5°C)

Airflow CFM	Total Pressure	Static Pressure	Noise Criteria	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
200	.067	.046	15	2.5	3.0	4.5	1.5	2.0	2.5
300	.149	.103	28	3.0	4.0	5.0	2.5	3.0	3.5
400	.265	.183	38	3.5	4.5	6.0	3.5	4.0	5.5

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT - 10°F (5.5°C)

Airflow CFM	Total Pressure	Static Pressure	Noise Criteria	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
600	.082	.046	21	1.5	2.5	3.5	3.0	4.0	6.0
800	.146	.081	30	2.0	3.0	4.0	3.5	5.0	7.5
1000	.228	.127	38	2.5	3.0	4.5	4.5	6.0	8.5

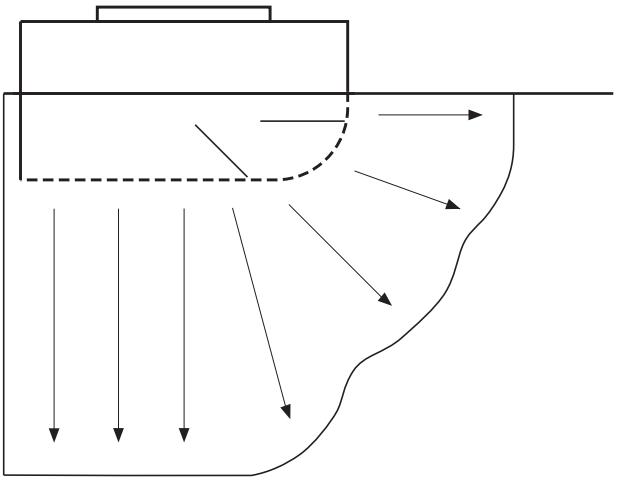
48" x 12" or 1200 mm x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT - 10°F (5.5°C)

Airflow CFM	Total Pressure	Static Pressure	Noise Criteria	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.125	.079	22	1.5	2.0	3.0	1.0	1.5	2.0
400	.221	.139	30	2.0	2.5	3.5	2.0	2.5	3.5
500	.346	.218	37	2.5	3.5	4.5	2.5	3.0	4.0

Performance Notes:

1. All pressures are in inches w.g..
2. The radial flow pattern of the **92RPD-1** and **92RPD-1SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
3. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
4. Throw (T) is in feet.
5. Feet per minute (fpm) velocity.
6. Noise Criteria (NC) values based on 10dB room absorption, re 10^{-12} watts.
7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Typical 75 fpm Isovel



Performance Data • Model 92RPD-2 • 180 Degree Pattern (2-Way)

24 x 24 (600 x 600) Module Size • ΔT - 10°F

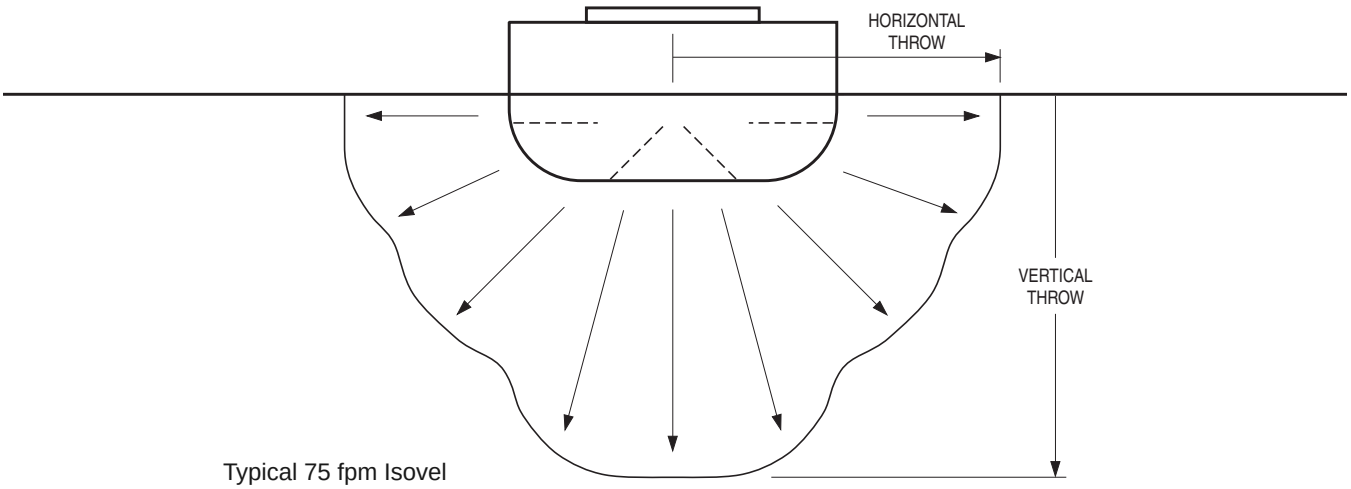
Inlet Size	Airflow CFM	Total Pressure Pt	Static Pressure Ps	NC	Horizontal Throw @			Vertical Throw @		
					100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
8" Dia.	200	.044	.024	—	1.5	2.0	2.5	1.5	2.0	3.0
	300	.101	.055	21	2.0	2.5	3.0	3.0	3.5	4.5
	400	.179	.097	30	2.5	3.0	3.5	3.5	4.5	5.5
	500	.280	.152	38	3.0	3.5	4.0	4.0	5.0	6.0
10" Dia.	300	.063	.045	18	2.0	2.5	3.0	3.0	3.5	4.5
	400	.113	.079	27	2.5	3.0	3.5	3.5	4.5	5.5
	500	.176	.124	35	3.0	3.5	4.0	4.0	5.0	6.0
	600	.253	.179	41	3.5	4.0	4.5	4.5	5.5	7.5

48 x 24 (1200 x 600) Module Size • ΔT - 10°F

Inlet Size	Airflow CFM	Total Pressure Pt	Static Pressure Ps	NC	Horizontal Throw @			Vertical Throw @		
					100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
10" Dia.	400	.042	.008	16	1.0	1.0	2.0	1.0	1.5	2.0
	500	.066	.013	22	2.0	2.0	3.0	1.5	2.0	2.5
	600	.094	.019	28	2.0	2.5	3.0	2.0	2.5	3.0
	800	.168	.034	38	2.5	3.0	3.5	2.5	3.0	4.0
12" Dia.	500	.048	.023	_	2.0	2.0	3.0	1.5	2.0	2.5
	600	.068	.032	22	2.0	2.5	3.0	2.0	2.5	3.0
	800	.123	.058	32	2.5	3.0	3.5	2.5	3.0	4.0
	1000	.191	.090	41	3.0	3.5	4.5	3.0	3.5	5.0

Performance Notes:

1. All presures are in inches w.g.
2. Throws are given at 100, 75 and 50 fpm terminal velocities under non-isothermal conditions. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. The radial flow pattern of the 92RPD is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
4. NC (Noise Criteria) values are based on 10 dB room absorption, re 10^{-12} watts. Dash (–) in spaces indicates an NC level of less 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-1SS • 90° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.14	.14	–	0.5	1.0	1.5	1.0	1.5	2.5
150	.32	.31	–	1.0	1.5	2.0	2.0	2.5	3.5
200*	.57	.55	16	1.5	2.0	2.5	2.5	3.5	4.0
250	.89	.86	19	2.0	2.5	3.0	3.0	3.5	4.5
295**	1.24	1.19	22	2.0	2.5	3.5	3.5	4.0	5.0

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

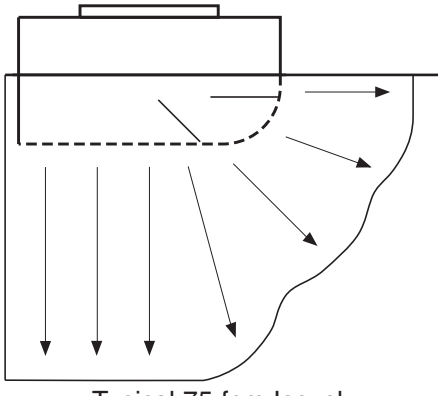
Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.23	.22	–	0.5	1.0	1.5	1.5	2.0	2.5
400	.40	.39	–	1.0	1.5	2.0	2.0	3.0	4.0
500*	.63	.60	19	1.0	2.0	3.0	2.5	3.5	5.0
600	.91	.87	23	1.5	2.5	3.5	3.0	4.0	6.0
715**	1.29	1.23	28	2.0	3.0	4.0	3.5	4.5	6.5

48" x 12" or 1200 mm x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.14	.14	–	0.5	0.5	1.0	0.5	0.5	1.0
150	.33	.31	–	0.5	1.0	1.5	0.5	1.0	1.5
200*	.58	.56	17	1.0	1.5	2.0	0.5	1.0	1.5
250	.90	.87	20	1.0	1.5	2.5	1.0	1.5	2.0
290**	1.22	1.17	23	1.5	2.0	3.0	1.0	1.5	2.0

CFM - cubic feet per minute
FPM - feet per minute velocity
Pt - total pressure - inches w.g.
Ps - static pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:
1. The radial flow pattern of the **92RPDF-1SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4.* Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.
** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.
Refer to the engineering section for more details.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-1SS • 90° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Metric Units

610 mm x 610 mm or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	35	35	–	0.2	0.3	0.5	0.3	0.5	0.8
71	80	77	–	0.3	0.5	0.6	0.6	0.8	1.1
94 *	142	137	16	0.5	0.6	0.8	0.8	1.1	1.2
118	221	214	19	0.6	0.8	0.9	0.9	1.1	1.4
139 **	308	296	22	0.6	0.8	1.1	1.1	1.2	1.5

1219 mm x 610 mm or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
142	57	55	–	0.2	0.3	0.5	0.5	0.6	0.8
189	99	97	–	0.3	0.5	0.6	0.6	0.9	1.2
236 *	157	149	19	0.3	0.6	0.9	0.8	1.1	1.5
283	226	216	23	0.5	0.8	1.1	0.9	1.2	1.8
337 **	321	306	28	0.6	0.9	1.2	1.1	1.4	2.0

1219 mm x 305 mm or 1200 x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	35	35	–	0.2	0.2	0.3	0.2	0.2	0.3
71	82	77	–	0.2	0.3	0.5	0.2	0.3	0.5
94 *	144	139	17	0.3	0.5	0.6	0.2	0.3	0.5
118	224	216	20	0.3	0.5	0.8	0.3	0.5	0.6
137 **	303	291	23	0.5	0.6	0.9	0.3	0.5	0.6

L/S - litres per second

M/S - meters per second velocity

Pt - total pressure - Pa

Ps - static pressure - Pa

T - throw in meters

NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:

1. The radial flow pattern of the **92RPDF-1SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.

2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.

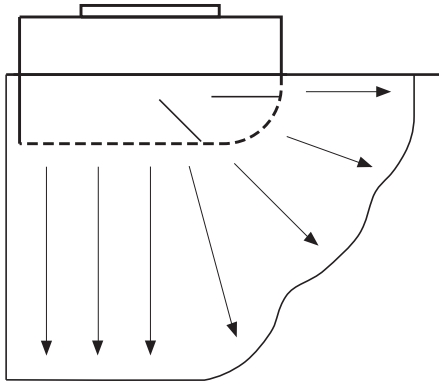
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).

4. * Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 0.38 m/s Isovel

Performance Data

Model 92RPDF-1SS • 90° Pattern

With ULPA Filter • 99.9995% Minimum Removal Efficiency on 0.12 Micrometer Particle Size

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.17	.17	–	0.5	1.0	1.5	1.0	1.5	2.5
150	.38	.37	–	1.0	1.5	2.0	2.0	2.5	3.5
200*	.68	.66	16	1.5	2.0	2.5	2.5	3.5	4.0
250	1.07	1.03	19	1.0	2.5	3.0	3.0	3.5	4.5
295**	1.49	1.44	22	2.0	2.5	3.5	3.5	4.0	5.0

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.27	.26	–	0.5	1.0	1.5	1.5	2.0	2.5
400	.48	.46	–	1.0	1.5	2.0	2.0	3.0	4.0
500*	.75	.72	19	1.0	2.0	3.0	2.5	3.5	5.0
600	1.08	1.04	23	1.5	2.5	3.5	3.0	4.0	6.0
715**	1.53	1.48	28	2.0	3.0	4.0	3.5	4.5	6.5

48" x 12" or 1200 mm x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.17	.17	–	0.5	0.5	1.0	0.5	0.5	1.0
150	.39	.38	–	0.5	1.0	1.5	0.5	1.0	1.5
200*	.69	.67	17	1.0	1.5	2.0	0.5	1.0	1.5
250	1.08	1.04	20	1.0	1.5	2.5	1.0	1.5	2.0
290**	1.45	1.40	23	1.5	2.0	3.0	1.0	1.5	2.0

CFM - cubic feet per minute

FPM - feet per minute velocity

Pt - total pressure - inches w.g.

Ps - static pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:

1. The radial flow pattern of the **92RPDF-1SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.

2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.

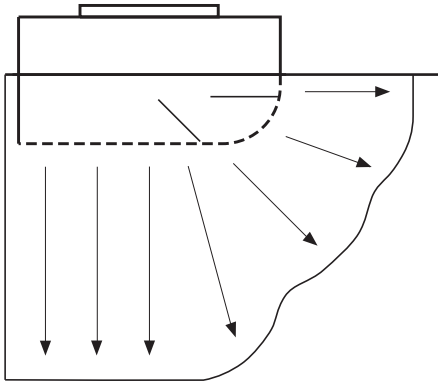
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).

4. * Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-1SS • 90° Pattern

With ULPA Filter • 99.9995% Minimum Removal Efficiency on 0.12 Micrometer Particle Size

Metric Units

610 mm x 610 mm or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	42	42	–	0.2	0.3	0.5	0.3	0.5	0.8
71	94	92	–	0.3	0.5	0.6	0.6	0.8	1.1
94 *	169	164	16	0.5	0.6	0.8	0.8	1.1	1.2
118	266	256	19	0.6	0.8	0.9	0.9	1.1	1.4
139 **	370	358	22	0.6	0.8	1.1	1.1	1.2	1.5

1219 mm x 610 mm or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
142	67	65	–	0.2	0.3	0.5	0.5	0.6	0.8
189	119	114	–	0.3	0.5	0.6	0.6	0.9	1.2
236 *	186	179	19	0.3	0.6	0.9	0.8	1.1	1.5
283	268	259	23	0.5	0.8	1.1	0.9	1.2	1.8
337 **	380	368	28	0.6	0.9	1.2	1.1	1.4	2.0

1219 mm x 305 mm or 1200 mm x 300 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	42	42	–	0.2	0.2	0.3	0.2	0.2	0.3
71	97	94	–	0.2	0.3	0.5	0.2	0.3	0.5
94 *	172	167	17	0.3	0.5	0.6	0.2	0.3	0.5
118	268	259	20	0.3	0.5	0.8	0.3	0.5	0.6
137 **	360	348	23	0.5	0.6	0.9	0.3	0.5	0.6

L/S - litres per second

M/S - meters per second velocity

Pt - total pressure - Pa

Ps - static pressure - Pa

T - throw in meters

NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:

1. The radial flow pattern of the **92RPDF-1SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.

2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.

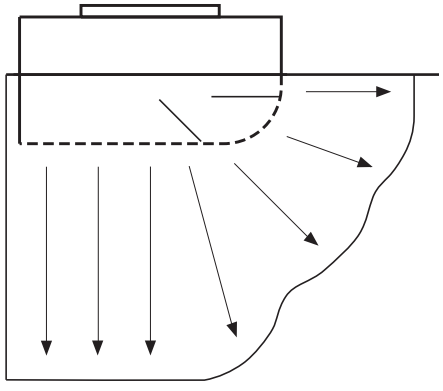
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).

4. * Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 0.38 m/s Isovel

Performance Data

Model 92RPDF-2SS • 180° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

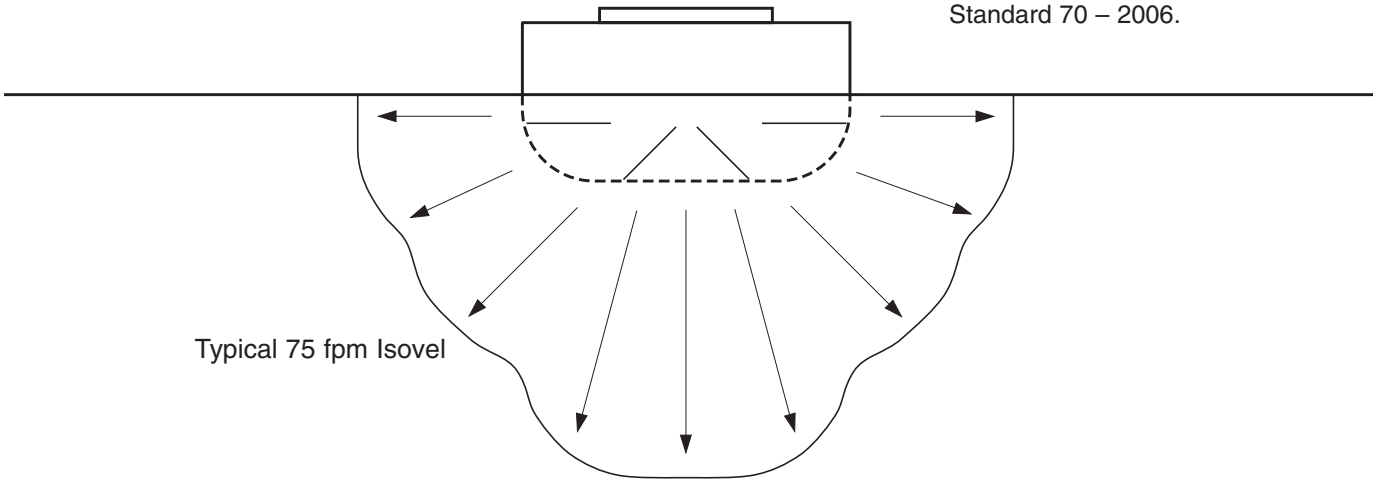
Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.14	.14	–	0.5	0.5	1.0	0.5	1.0	1.5
150	.32	.31	–	0.5	1.0	1.0	1.0	1.0	2.0
200*	.57	.55	16	0.5	1.0	1.5	1.5	2.0	3.0
250	.89	.86	19	1.0	1.5	2.0	2.0	2.5	3.5
295**	1.24	1.19	22	1.0	1.5	2.0	2.5	3.0	4.0

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.22	.22	–	0.5	0.5	1.0	0.5	1.0	1.5
400	.40	.38	–	0.5	1.0	1.5	0.5	1.0	2.0
500*	.62	.60	19	1.0	1.0	1.5	1.0	1.5	2.0
600	.90	.86	23	1.0	1.5	2.0	1.5	2.0	2.5
715**	1.27	1.22	28	1.5	2.0	2.5	2.0	2.5	3.0

CFM - cubic feet per minute
FPM - feet per minute velocity
Pt - total pressure - inches w.g.
Ps - static pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:
1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4.* Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.
** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.
Refer to the engineering section for more details.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-2SS • 180° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Metric Units

610 mm x 610 mm or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	35	35	–	0.2	0.2	0.3	0.2	0.3	0.5
71	80	77	–	0.2	0.3	0.3	0.3	0.3	0.6
94 *	142	137	16	0.2	0.3	0.5	0.5	0.6	0.9
118	221	214	19	0.3	0.5	0.6	0.6	0.8	1.1
139**	308	296	22	0.3	0.5	0.6	0.8	0.9	1.2

1219 mm x 610 mm or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
142	55	55	–	0.2	0.2	0.3	0.2	0.3	0.5
189	99	94	–	0.2	0.3	0.5	0.2	0.3	0.6
236*	154	149	19	0.3	0.3	0.5	0.3	0.5	0.6
283	224	214	23	0.3	0.5	0.6	0.5	0.6	0.8
337**	316	303	28	0.5	0.6	0.8	0.6	0.8	0.9

L/S - litres per second
M/S - meters per second velocity
Pt - total pressure - Pa
Ps - static pressure - Pa
T - throw in meters
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

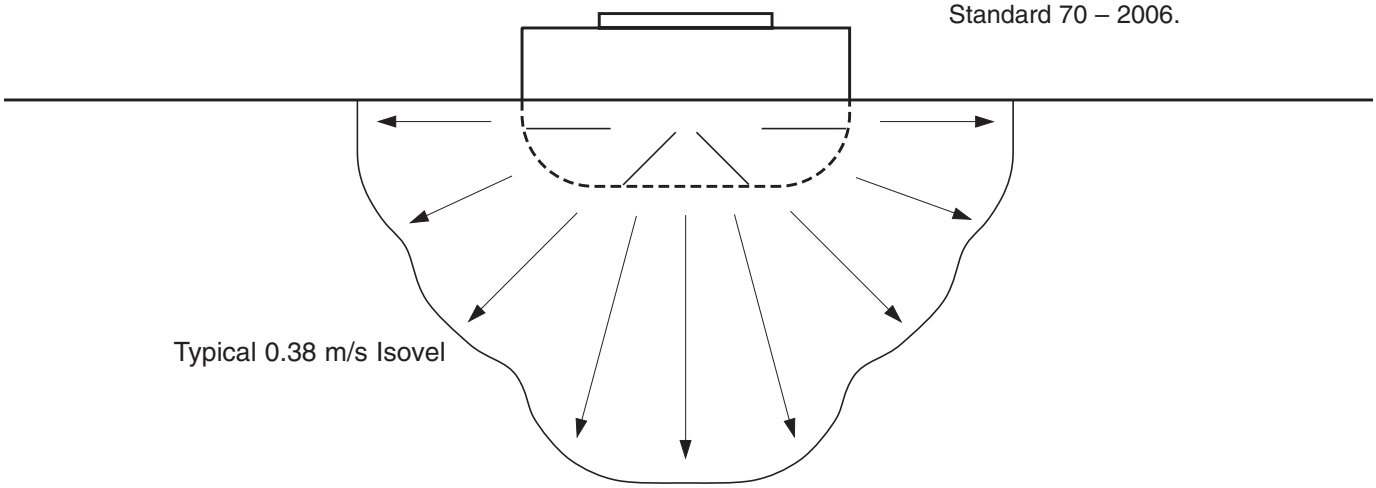
Performance Notes:

1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4. ***** Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

****** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 0.38 m/s Isovel

Performance Data

Model 92RPDF-2SS • 180° Pattern

With ULPA Filter • 99.9995% Minimum Removal Efficiency on 0.12 Micrometer Particle Size

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.17	.16	–	0.5	0.5	1.0	0.5	1.0	1.5
150	.38	.37	–	0.5	1.0	1.0	1.0	1.0	2.0
200*	.68	.66	16	0.5	1.0	1.5	1.5	2.0	3.0
250	1.06	1.02	19	1.0	1.5	2.0	2.0	2.5	3.5
295**	1.47	1.43	22	1.0	1.5	2.0	2.5	3.0	4.0

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.27	.26	–	0.5	0.5	1.0	0.5	1.0	1.5
400	.48	.46	–	0.5	1.0	1.5	0.5	1.0	2.0
500*	.74	.72	19	1.0	1.0	1.5	1.0	1.5	2.0
600	1.07	1.03	23	1.0	1.5	2.0	1.5	2.0	2.5
715**	1.52	1.47	28	1.5	2.0	2.5	2.0	2.5	3.0

CFM - cubic feet per minute

FPM - feet per minute velocity

Pt - total pressure - inches w.g.

Ps - static pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

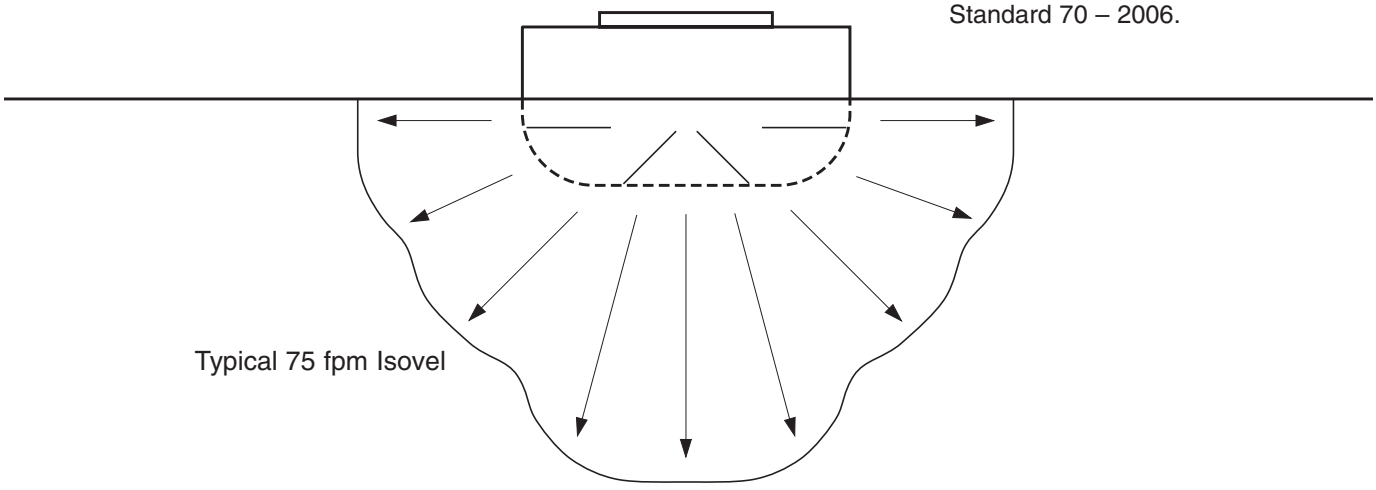
Performance Notes:

1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4. ***** Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

****** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-2SS • 180° Pattern

With ULPA Filter • 99.9995% Minimum Removal Efficiency on 0.12 Micrometer Particle Size

Metric Units

610 mm x 610 mm or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	42	40	–	0.2	0.2	0.3	0.2	0.3	0.5
71	94	92	–	0.2	0.3	0.3	0.3	0.3	0.6
94 *	169	164	16	0.2	0.3	0.5	0.5	0.6	0.9
118	264	254	19	0.3	0.5	0.6	0.6	0.8	1.1
139 **	365	355	22	0.3	0.5	0.6	0.8	0.9	1.2

1219 mm x 610 mm or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
142	67	65	–	0.2	0.2	0.3	0.2	0.3	0.5
189	119	114	–	0.2	0.3	0.5	0.2	0.3	0.6
236 *	184	179	19	0.3	0.3	0.5	0.3	0.5	0.6
283	266	256	23	0.3	0.5	0.6	0.5	0.6	0.8
337 **	378	365	28	0.5	0.6	0.8	0.6	0.8	0.9

L/S - litres per second

M/S - meters per second velocity

Pt - total pressure - Pa

Ps - static pressure - Pa

T - throw in meters

NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

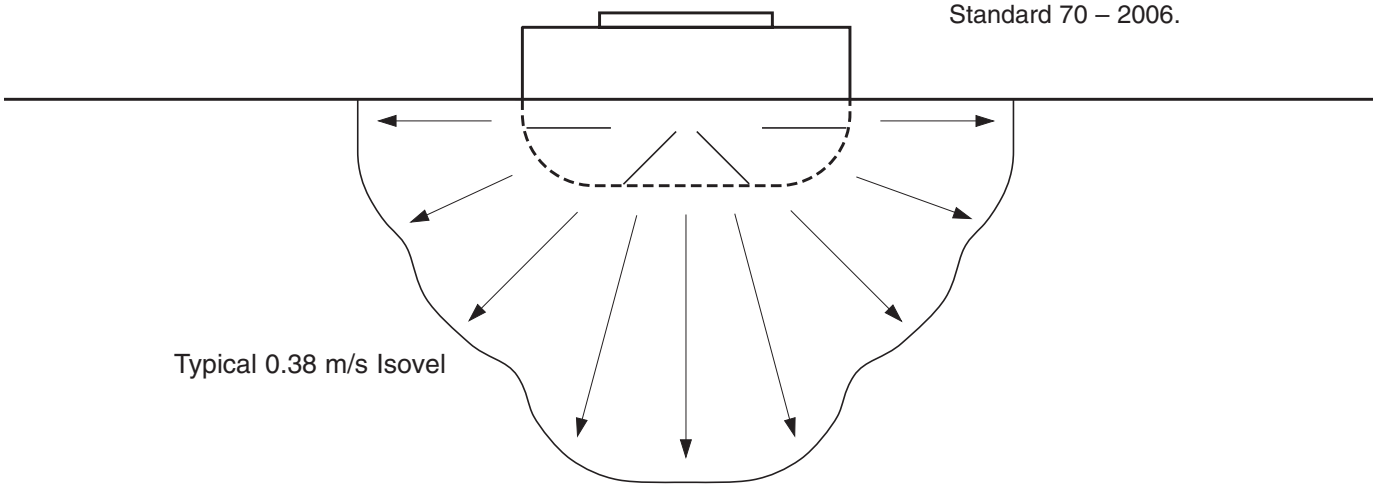
Performance Notes:

1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4. * Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.

** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.

Refer to the engineering section for more details.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 0.38 m/s Isovel