

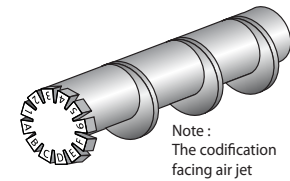
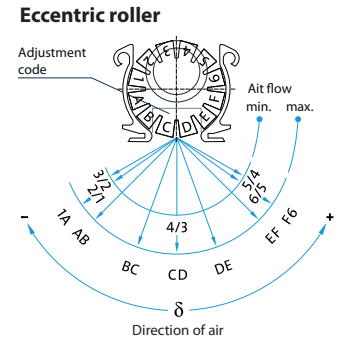
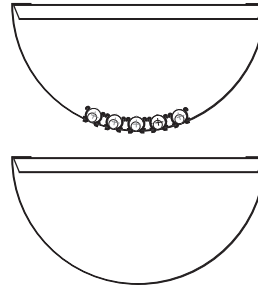
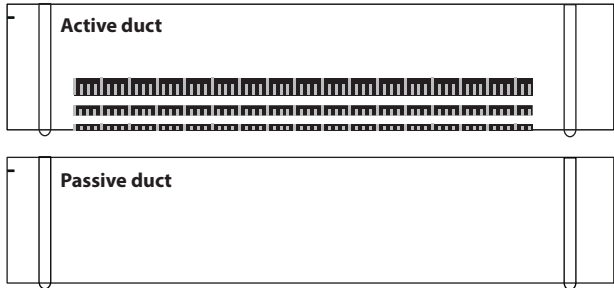


DRA Duct Diffuser

Submittal

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The DRA is a high induction diffuser with dual applications. It can serve as a diffuser or it can be used as a duct. It is particularly suited for rooms with low ceilings, it can be mounted directly to the ceiling.

The RRA diffuser is made of galvanized steel covered with powder coated paint. The standard manufacture size is 1450mm (57 in.) long. Alternatively, it is available in different lengths to meet your needs.

Thanks to the eccentric rollers, the semi-circular DRA diffuser is able to offer multi-directional air flow.

Whether in cooling or heating mode, the DRA duct diffuser can guarantee comfort to the occupants due to its proven technology.

Benefits

High induction diffuser which allows homogeneity of the air in a room: the temperature, humidity and air density.

- Increased comfort in the occupied zone
 - Comfortable movement of air
 - Low temperature differences
 - Low noise
- Eccentric rollers allow an adjustment of the airflow in a 180° range
- Possibility to change the direction of air flow after installation
- Possibility of reducing the total airflow up to 30% in VAV.
- Make it possible to eliminate the heating baseboard through heating by the diffuser
- Simplify the ventilation network and reduce installation costs
- Easy adaptation to systems with variable or constant airflow.

Easy to maintain

- Powder coated paint which minimizes dust collection and makes it easy to clean (Swiffer)
- Low accumulation of dust in the interior because the dust is purged by the slots.

Durability

- The powder coated paint prevents chipping
- The aluminum suspension rail and duct in galvanized metal covered with a powder coated paint.

Easy installation

- Installed using a suspension rail, threaded rods or directly to the ceiling

Composition

The DRA is a semi-circular diffuser with a smooth finish on which slots are mounted in the direction of the length. The number of slots is determined by the quantity of air flow required and the diameter of the duct.

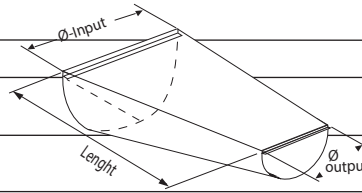
The slots contain 100 mm long ABS eccentric rollers (black, cream or white).

The eccentric rollers are provided with alphanumeric guides which allow adjustment of the airflow pattern across a 180° range. The DRA diffuser is constructed in diameters from 200mm up to 911 mm.

Passive ducts without slots are available in the same dimensions as the active DRAs in order to ensure the uniformity of the duct network.

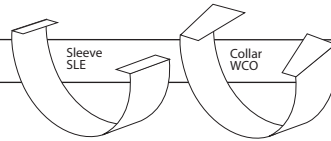
Codification for reducers

DRA	RED = Reducer							Product
		254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						Ø input diameter
		203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067,						Ø output diameter
		S = Standard α = 14° A = Other (specified in annotation)						Length
		9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver matte (Standard metallic grey) ____ = RAL color (write the number of RAL color)						Color
		A = With insulation with closed cells X = Without insulation						Acoustic insulation
DRA	RED	305	203	S	9003	X	Annotation	Example



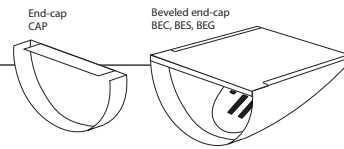
Codification for sleeve and collar

DRA	SLE (Sleeve), WCO (Collar)							Product
		203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						Diameter
		9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver matte (Standard metallic grey) ____ = RAL color (write the number of RAL color)						Color
DRA	SLE	203	9003				Annotation	Example



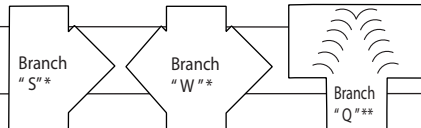
Codification for end-cap

DRA	CAP (End-cap), BEC (Beveled end-cap with or without logo), BES (Beveled end-cap+slots), BEG (Return beveled end-cap)							Product
		203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						Diameter
		9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver matte (Standard metallic grey) ____ = RAL color(write the number of RAL color)						Color
		A = With insulation with closed cells X = Without insulation						Acoustic insulation
DRA	CAP	203	9003	X			Annotation	Example



Coding for branches

DRA	BRA = Branch							Product
		203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						ØD - Input diameter
		203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						Ød1 - Output diameter
		XXX, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118						Ød2 - Output diameter (For «W» branch only)
		S*, W*, Q**						Configuration
		9003 = White, 9010 = Cream, 00SB = Standard matte black, 00SM = Standard metallic grey ____ = RAL color (write the number of RAL color)						Color
		A = With insulation with closed cells X = Without insulation						Acoustic insulation
DRA	BRA	305	305	XXX	S	9003	X	Annotation



Notes : The « W » branch may have two different outlet diameters. * For « S » and « W » fittings, add an elbow to the degree and diameter chosen to complete the branch.
 ** For « Q », the input diameter can not exceed the output diameter.
 Our powder paint colors are available in the RAL color chart only. Metallic colors available on request.

Assembly

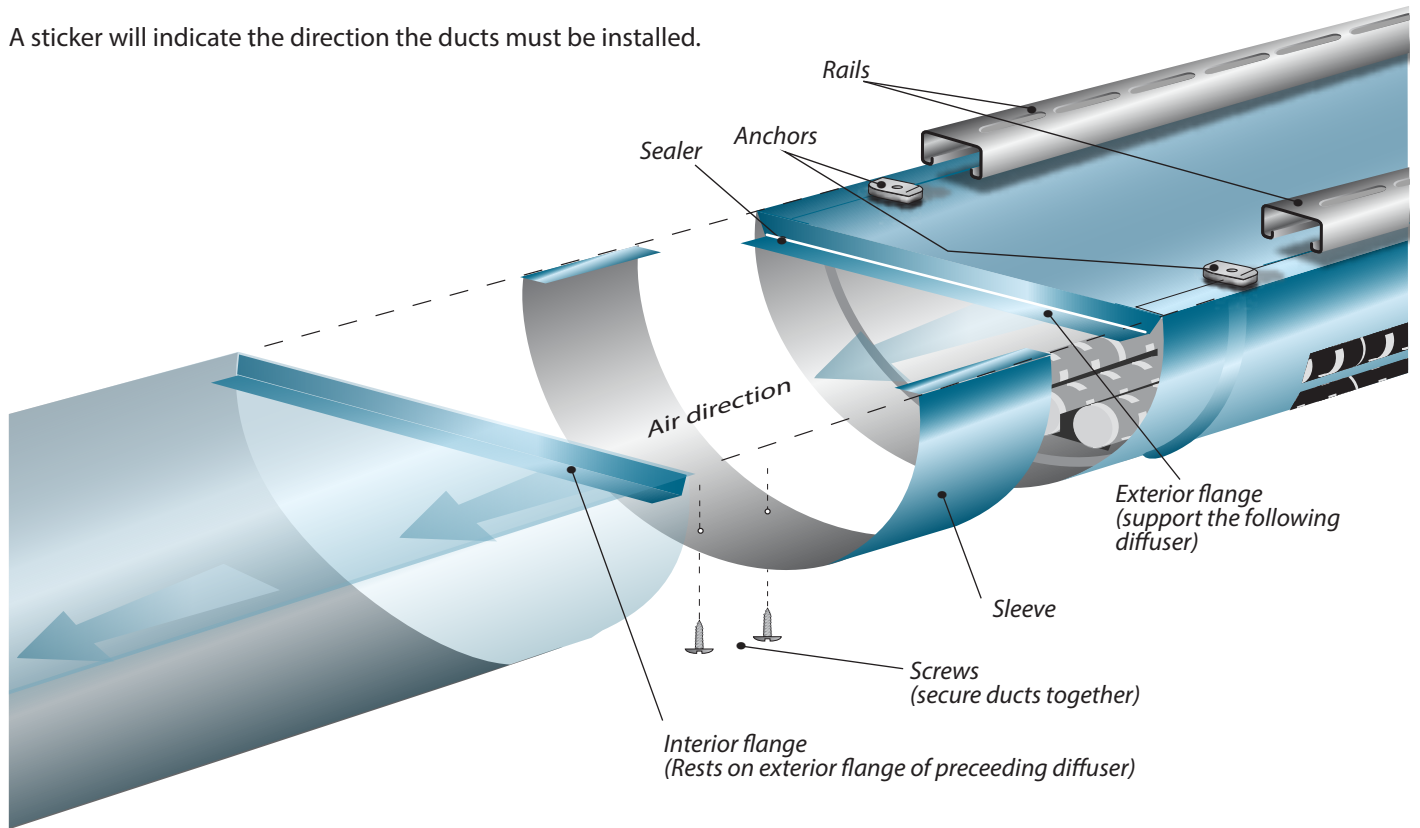
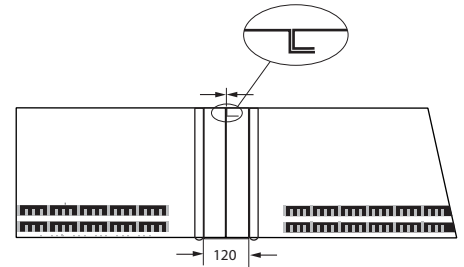
The individual DRA sections are assembled together by using sleeves specially adapted to the design and diameter of the duct.

At the extremity where the air exits the duct a protruding exterior flange acts as a support for the following diffuser which has an interior flange. To unite both diffusers securely together an adapted sleeve is secured in between the two diffusers with two screws. Before installing the second diffuser, apply a sealer in the fold of the exterior flange, as shown on the illustration above.

Special attention must be taken regarding the final diffuser which will have interior flanges on both extremities. The final extremity will accept the cap which completes the section.

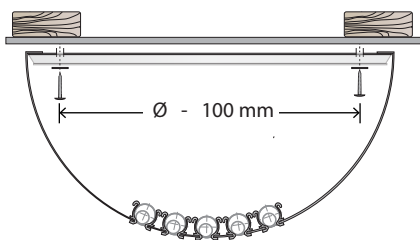
A sticker will indicate the direction the ducts must be installed.

Standard sleeve (120 mm)
 No spacing between DRA.

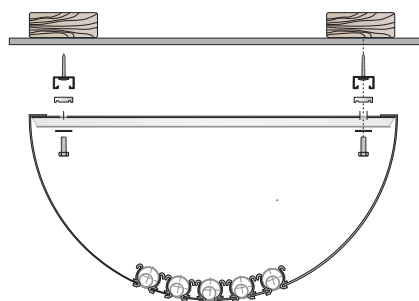


Installation

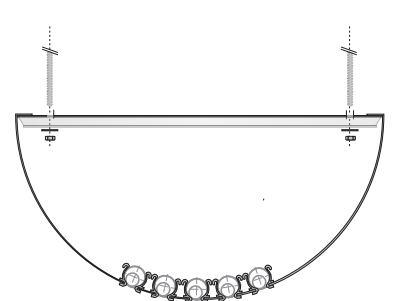
Installation directly under the ceiling



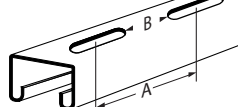
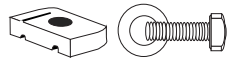
Installation with rail




Installation with threaded rods



Coding for anchorage system, with rail

RAI	S-33 Steel rail 22 X 41 X 3048 mm (7/8" X 1 5/8" X 10 li. ft.) can be paint	A : 2" B : 7/8"	
	9003 = White 9010 = Cream ____ = RAL color (4 number) XXXX = Non paint	Color	
RAI	S33 - 9003	Example	
Accessories supplied for steel rail (S33) (2/DRA)			
RKS	Slider, bolt and washer assembly		

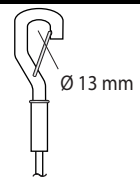
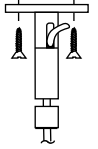
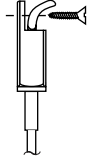
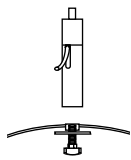
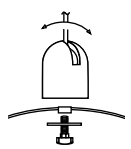
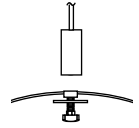
Coding for suspension accessories with threaded rods (threaded rods are supplied by the installer)

RCT	Threaded rod cover 16 mm X 3.05 m (5/8" X 10 ft)	
	9003 = White 9010 = Cream 00SB = Solar black 00SM = Silver Matte ____ = RAL color* (write the 4 numbers) XXXX = Non paint	Color
RCT	9003	Example

Coding for utility items

CAN	9003 Paint can (RAL 9003) ____ Paint can (other RAL color) (write the 4 number of the RAL color)	
CAN	9003	Example

Coding of cable anchor accessories

Description of anchors for the ceiling		
CPA	Anchor with adjustable hook with nickel plating finish Ø 13 mm X X mm (Ø 1/2" X 2 3/4" X 9/16")	
CPP	Flat anchor with pins and throttle adjustment Anodized aluminum only Ø 40 X ø 15 X 70 mm (Ø 1 5/8" X ø 9/16" X 2 3/4")	
CPS	Anchor with pin and throttle adjustment screws (#4 wood) included Nickel plating finish 13 X 55 mm (1/2" X 2 3/16")	
Description of anchors for the diffuser		
CCA	Adjustable anchor for duct with a nickel plate finis Ø19 X 50 mm (Ø 3/4" X 2")	
CCP	Swiveling anchor finished with nickel plating Not adjustable Ø19 X 25 mm (Ø 3/4" X 1")	
CCS	Non adjustable regular anchor with nickel plating Ø19 X 25 mm (Ø 3/4" X 1")	
XXXX = Without cable 3048 mm - standard (10 ft) ____ Write the lenght in mm		Lenght of the cable
A = Steel nickel plated (standard) S = Stainless Steel (optional)		
CCS	3048 A	Example