DIFFUSERS

RAISED FLOOR DIFFUSER

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RFD

Raised Floor Diffusers belong to the elite design and special application range among air distribution outlets. This range of diffusers is unique with its concentric circular slots, aesthetically elegant, versatile in all raised floor applications.

The excellent looking floor diffusers are of high mechanical rigidity and tensile strength suitable in installation flushing to the raised floor system. Conditioned air is delivered to the raised floor space and distributed to the room via the Raised Floor Diffusers.

ADF RFD consists of an aluminium face plate and casing coupled with a plastic radial swirl device; and a hung down dirt basket via a height-adjustable rod as axle.

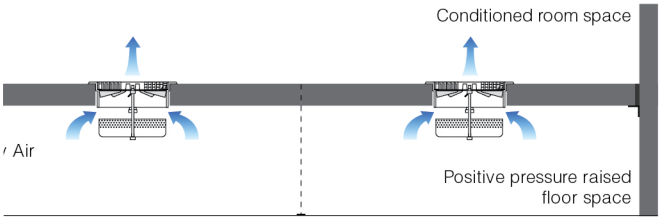
FEATURES

- Suitable to all types of raised floor system.
- High impact to traffic loads.
- Manually setting of swirl device to project desirable vertical/horizontal air flow discharge.
- Easy and versatile installation.
- Adjustable hanging distance of dirt basket to facilitate effective air flow besides quick and easy cleaning.

STANDARD CONSTRUCTION

Face plate	Aluminium
Swirl device	Flame-retardant Polyamide
Dirt basket	Flame-retardant ABS Plastic
Adjustable axle	Galvanized Steel Rod

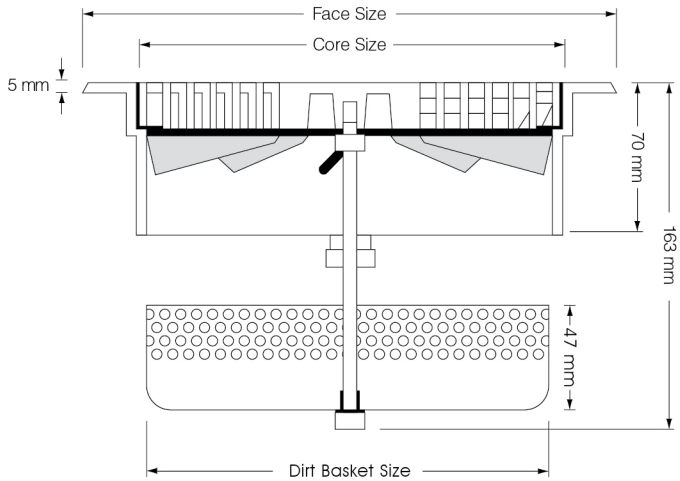
CATION & INSTALLATION



RAISED FLOOR DIFFUSER

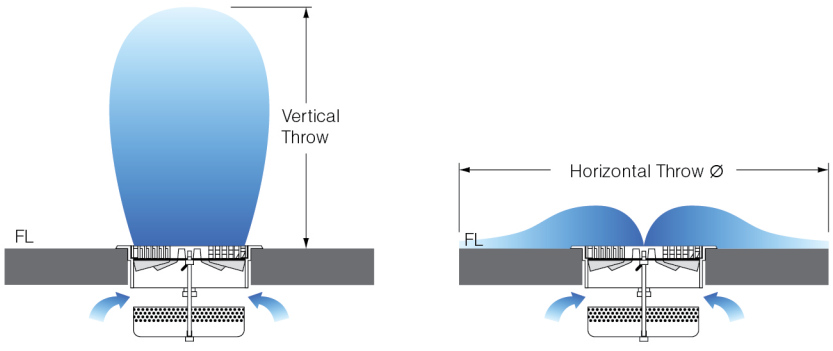
Model RFD

PHYSICAL DIMENSION



Model	Face Size Ø mm	Core Size Ø mm	Dirt Basket Size Ø mm	Face Opening Ø mm	Core Opening Ø mm	Approx. Weight Kg
RFD-150	200 (8")	149	137	151	143	0.7
RFD-200	250 (10")	199	187	201	193	1.2

AIR THROW PATTERNS



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Model RFD

PERFORMANCE DATA

Model	Air	ΔP	NR	Air Velocity, m/s				
				0.15	0.2	0.25	0.3	0.4
Free Area	l/s	Pa		Vertical Throw, m				
	10	5	>15	0.7	0.5	0.4	0.3	0.2
	15	8	15	1.0	0.8	0.6	0.4	0.3
RFD-150	20	20	25	-	1.0	0.8	0.6	0.4
	25	30	30	-	1.4	1.0	0.7	0.5
	30	45	35	-	1.6	1.4	0.9	0.6
0.004 m²	35	60	38	-	1.9	1.6	1.0	0.7
	20	9	15	0.9	0.7	0.5	0.35	0.25
	25	15	23	-	0.8	0.6	0.4	0.3
RFD-200	30	22	27	-	0.9	0.7	0.5	0.3
	35	30	33	-	1.1	0.85	0.6	0.4
	40	39	36	-	1.4	1.0	0.7	0.48
0.006 m²	45	50	40	-	1.6	1.3	0.85	0.6

** Above data based on dirt basket adjusted to lowest position (Fully Open).
** Correction factors for dirt basket adjusted to half height position (50% Open):

ΔP = ΔP x 1.3
NR = NR + 4

Model	Air	ΔP	NR	Air Velocity, m/s				
				0.15	0.2	0.25	0.3	0.4
Free Area	l/s	Pa		Horizontal Throw, Ø m				
	10	11	>15	1.0	-	-	-	-
	15	25	22	1.8	1.2	-	-	-
RFD-150	20	43	30	2.7	1.8	1.4	1.0	-
	25	65	35	3.5	2.5	1.8	1.4	1.0
0.003 m²	30	90	40	4.0	3.0	2.4	1.8	0.6
	20	10	15	1.7	1.2	-	-	-
	25	15	20	2.2	1.7	-	-	-
RFD-200	30	21	25	2.9	2.0	1.4	1.2	-
	35	30	30	3.5	2.5	1.7	1.4	-
	40	40	35	4.0	2.8	2.2	1.7	1.2
0.005 m²	45	50	40	4.4	3.8	2.9	2.2	1.6

** Above data based on dirt basket adjusted to lowest position (Fully Open).
** Correction factors for dirt basket adjusted to half height position (50% Open):

ΔP = ΔP x 1.15
NR = NR + 2