Verbet Industries LLC
www.verbet.com | verbet@verbet.com

Diffusers CMIA

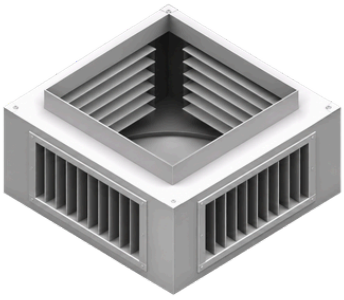
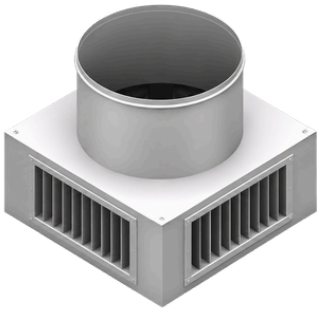
4, 5 or 6 - way distribution drop plenum box for industrial or commercial applications. Standard construction is manufactured from galvanized steel with optional insulation. Features an internal cone-shaped air diverter designed to promote balanced airflow and improve air distribution efficiency.

1 Principal Features

Materials:
Galvanized steel.
Finish:
White electrostatic powder coating (standard), gray or black matte finishes upon request, or mill finish.
Applications:
Designed for applications in industrial buildings or shopping malls, and other large open spaces.
Models:

- CMIA4 - 4-way air distribution.
- CMIA6 - 6-way air distribution.
- Available with square neck connection or round collar connection at no additional charge.
- **NOTE:** Grilles are sold separately.

2 Views

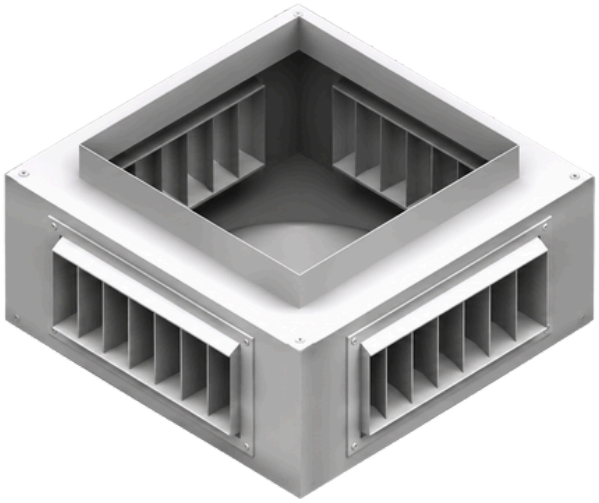
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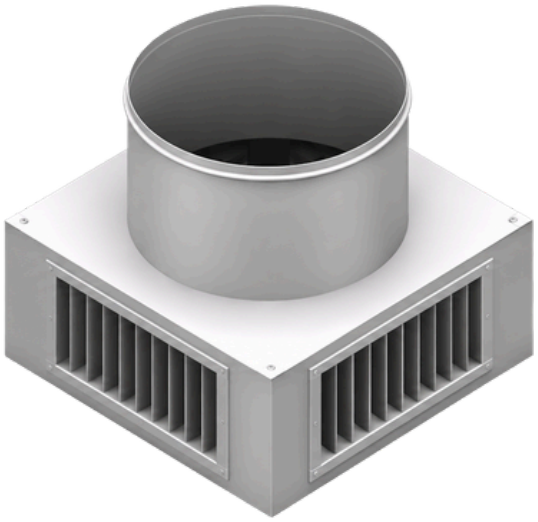
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CMIA4 with ITAA model installed*



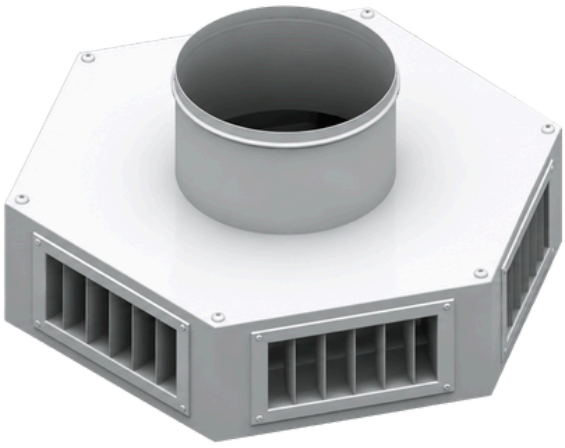
CMIA4 with IEVA model installed*



CMIA6 with ITAA model installed*



CMIA6 with IEVA model installed*



***Grilles are sold separately.**

Explore Verbet's Product Range:

DUCTS | FITTINGS | GRILLES | **DIFFUSERS** | FILTERS | LOUVERS | DAMPERS | ACCESORIES

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4 Grilles (Sold separately)



ITAA Steel Grille

Supply grille designed for high-performance, high-speed, and high-volume air distribution



IEVA Grille

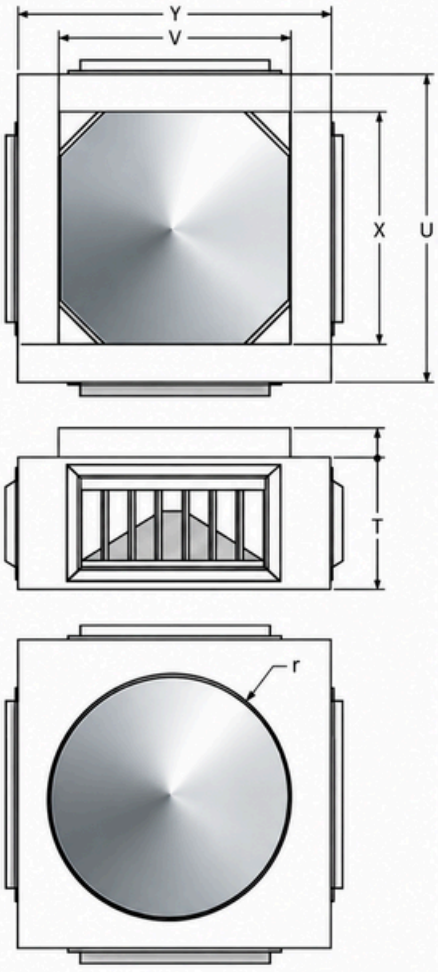
Double deflection supply grille with individually adjustable straight blades, vertical to the front and horizontal at the rear. Includes mounting screws and perimeter gasket to provide a tight seal and minimize air leakage.

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Diffusers CMIA

5 Data

CMIA4



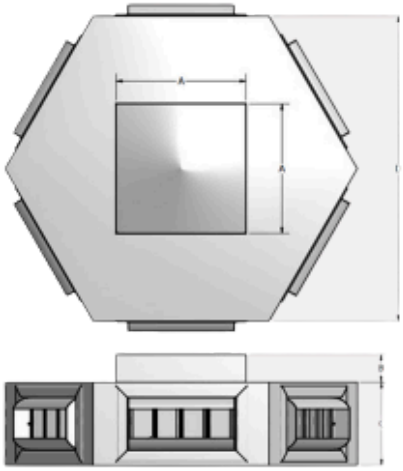
Square neck dimensions				
A	B	C	D	Grille Size
14”	3”	12”	22-1/2”	12” x 8”
16”	3”	12”	24-1/2”	16” x 8”
18”	3”	12”	26-1/2”	12” x 10”
20”	3”	14”	28-1/2”	14” x 10”
22”	3”	14”	30-1/2”	16” x 10”
24”	3”	14”	32-1/2”	20” x 10”
28”	3”	16”	36-1/2”	18” x 12”
32”	3”	16”	40-1/2”	24” x 12”
36”	3”	16”	44-1/2”	30” x 12”
38”	3”	18”	46-1/2”	30” x 14”
40”	3”	18”	48-1/2”	40” x 14”
44”	3”	18”	56”	48” x 14”

Round neck dimensions				
E	B	C	D	Grille Size
16”	13 - 3/4”	12”	24-1/2”	12” x 8”
18”	13 - 3/4”	12”	26-1/2”	16” x 8”
20”	13 - 3/4”	14”	28-1/2”	12” x 10”
22”	13 - 3/4”	14”	30-1/2”	14” x 10”
24”	13 - 3/4”	14”	36-1/2”	16” x 10”
26”	13 - 3/4”	14”	34-1/2”	20” x 10”
32”	13 - 3/4”	16”	40-1/2”	18” x 12”
34”	13 - 3/4”	16”	42-1/2”	20” x 12”
40”	13 - 3/4”	16”	48-1/2”	30” x 12”
42”	13 - 3/4”	18”	50-1/2”	30” x 14”
44”	13 - 3/4”	18”	52-1/2”	40” x 14”
48”	13 - 3/4”	18”	56-1/2”	48” x 14”

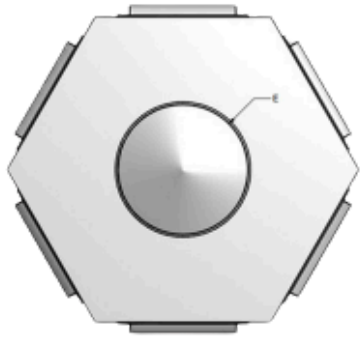
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Diffusers CMIA

CMIA6



Square neck dimensions				
A	B	C	D	Grille Size
14"	3"	12"	34"	12" x 8"
16"	3"	12"	41"	16" x 8"
18"	3"	12"	44"	18" x 8"
20"	3"	14"	34"	12" x 10"
22"	3"	14"	37"	14" x 10"
24"	3"	14"	44"	18" x 10"
28"	3"	16"	41"	16" x 12"
30"	3"	16"	48"	20" x 12"
36"	3"	16"	54"	24" x 12"
38"	3"	18"	48"	20" x 14"
40"	3"	18"	65"	30" x 14"
44"	3"	18"	75"	36" x 14"



Round neck dimensions				
E	B	C	D	Grille Size
16"	13 - 3/4"	12"	34"	12" x 8"
18"	13 - 3/4"	12"	41"	16" x 8"
20"	13 - 3/4"	12"	44"	18" x 8"
22"	13 - 3/4"	14"	34"	12" x 10"
24"	13 - 3/4"	14"	37"	14" x 10"
26"	13 - 3/4"	14"	44"	18" x 10"
32"	13 - 3/4"	16"	41"	16" x 12"
34"	13 - 3/4"	16"	48"	20" x 12"
40"	13 - 3/4"	16"	54"	24" x 12"
42"	13 - 3/4"	18"	48"	20" x 14"
44"	13 - 3/4"	18"	65"	30" x 14"
48"	13 - 3/4"	18"	75"	36" x 14"

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Diffusers CMIA

CMIA6

SELECTION AND PERFORMANCE CHARTS					
NECK DIAMETER	PCM	THROW	NC	VELOCITY PRESSURE	TOTAL PRESSURE
16"	2000	17, 23 Y 32	19	0.0238	0.0251
18"	2400	18, 27 Y 35	19	0.0225	0.0241
20"	3000	21, 27 Y 38	20	0.0241	0.0248
22"	3400	22, 28 Y 40	24	0.0437	0.0460
24"	4000	23, 30 Y 42	26	0.0424	0.0447
26"	5000	25, 32 Y 47	27	0.0540	0.0507
32"	6000	27, 35 Y 50	28	0.0541	0.0571
34"	8000	32, 37 Y 59	26	0.0437	0.0552
40"	10000	35, 47 Y 66	28	0.0548	0.0560
42"	12000	39, 51 Y 72	32	0.0791	0.0865
44"	16000	46, 61 Y 86	29	0.0578	0.0722
48"	20000	51, 66 Y 94	35	0.0727	0.0865

SELECTION AND PERFORMANCE CHARTS					
SQUARE NECK	PCM	THROW	NC	VELOCITY PRESSURE	TOTAL PRESSURE
14"	2000	17, 23 Y 32	19	0.0238	0.0251
16"	2400	18, 27 Y 35	19	0.0225	0.0241
18"	3000	21, 27 Y 38	20	0.0241	0.0248
20"	3400	22, 28 Y 40	24	0.0437	0.0460
22"	4000	23, 30 Y 42	26	0.0424	0.0447
24"	5000	25, 32 Y 47	27	0.0540	0.0507
28"	6000	27, 35 Y 50	28	0.0541	0.0571
30"	8000	32, 37 Y 59	26	0.0437	0.0552
36"	10000	35, 47 Y 66	28	0.0548	0.0560
38"	12000	39, 51 Y 72	32	0.0791	0.0865
40"	16000	46, 61 Y 86	29	0.0578	0.0722
44"	20000	51, 66 Y 94	35	0.0727	0.0865

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Diffusers CMIA

CMIA4

SELECTION AND PERFORMANCE CHARTS					
NECK DIAMETER	PCM	THROW	NC	VELOCITY PRESSURE	TOTAL PRESSURE
16"	2000	22, 29 Y 41	22	0.0624	0.067
18"	2400	22, 29 Y 41	19	0.0491	0.053
20"	3000	23, 30 Y 42	19	0.0766	0.080
22"	3400	25, 33 Y 47	25	0.0667	0.073
24"	4000	28, 36 Y 51	31	0.0776	0.071
26"	5000	30, 39 Y 55	32	0.0840	0.082
32"	6000	33, 44 Y 62	33	0.0797	0.095
34"	8000	41, 54 Y 77	33	0.0791	0.087
40"	10000	43, 56 Y 80	28	0.0657	0.091
42"	12000	48, 63 Y 89	29	0.0731	0.091
44"	16000	55, 72 Y 102	35	0.0776	0.086
48"	20000	63, 83 Y 118	37	0.0855	0.089

SELECTION AND PERFORMANCE CHARTS					
SQUARE NECK	PCM	THROW	NC	VELOCITY PRESSURE	TOTAL PRESSURE
14"	2000	22, 29 Y 41	22	0.0624	0.067
16"	2400	22, 29 Y 41	19	0.0491	0.053
18"	3000	23, 30 Y 42	19	0.0766	0.080
20"	3400	25, 33 Y 47	25	0.0667	0.073
22"	4000	28, 36 Y 51	31	0.0776	0.071
24"	5000	30, 39 Y 55	32	0.0840	0.082
28"	6000	33, 44 Y 62	33	0.0797	0.095
32"	8000	41, 54 Y 77	33	0.0791	0.087
36"	10000	43, 56 Y 80	28	0.0657	0.091
38"	12000	48, 63 Y 89	29	0.0731	0.091
40"	16000	55, 72 Y 102	35	0.0776	0.086
44"	20000	63, 83 Y 118	37	0.0855	0.089

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