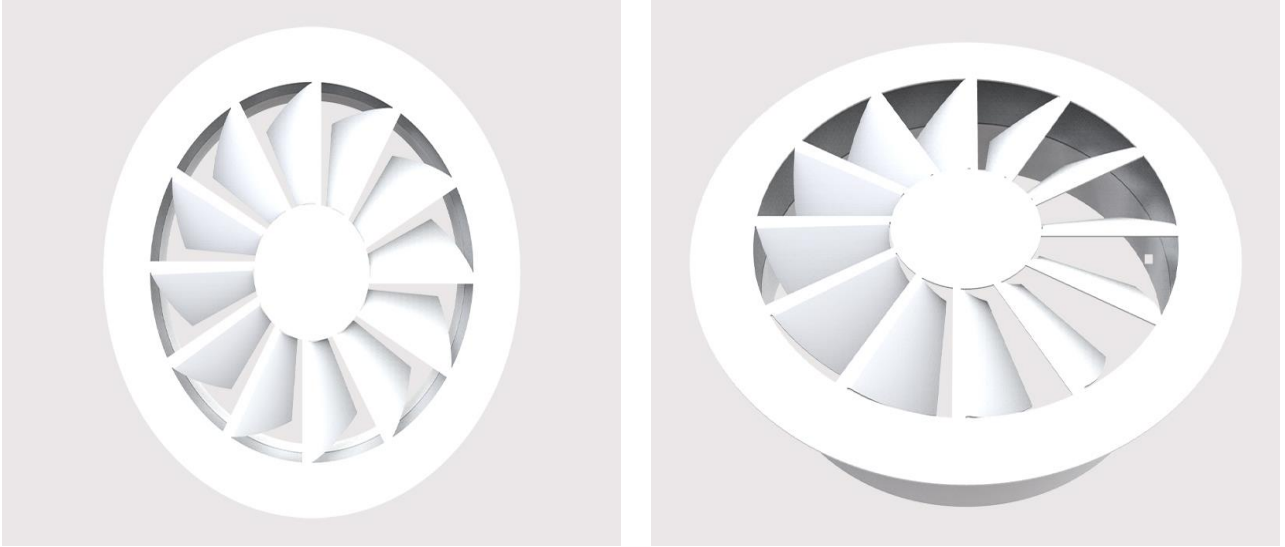


**SWIRL DIFFUSER TURBULENCE FIXED -CKD-11**



**AREAS OF USE AND FEATURES:** It is used as blowing diffusers in Hvac systems. It is suitable for vertical use. The ideal shooting distance is between 3.5 m -7 m. It is used for heating and cooling in sports halls, shopping malls, factory buildings and conference halls where high flow and long throw distances are required. Standard screw mounting. The way of mounting can be changed optionally.

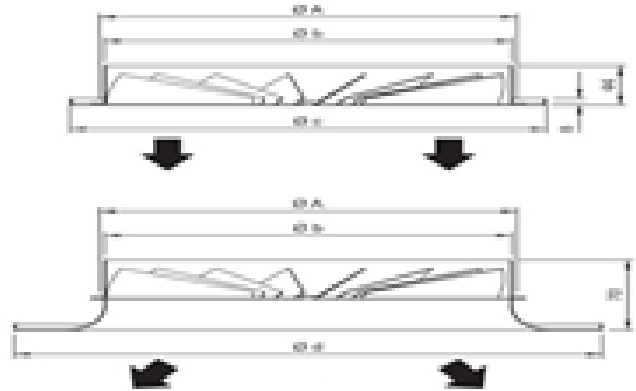
**MATERIAL:** Frame and wings are made of galvanized plate.

**SURFACE COATING:** The product can be manufactured in any color with electrostatic powder paint.

**ACCESSORIES:** Plenum box

**STANDARD DIMENSIONS :**

MODEL	DIMENSIONS			
	aA	ab	∅c	∅d
100	98	108	148	200
150	150	158	208	250
200	200	198	248	300
250	250	248	298	350
315	315	313	363	450
355	355	352	402	455
400	400	398	448	500
450	450	447	497	550
500	500	497	547	600



**TURBULANCED SWIRE DIFFUSER SELECTION TABLE**

SIZE	E. AREA (m <sup>2</sup> )	SHOOTING SPEED (m / s)	1	2	3	4	5	6	7	8	9
∅ 100	0,019	FLOW (m <sup>3</sup> / h)	<b>70</b>	<b>140</b>	<b>210</b>	<b>280</b>	<b>350</b>	<b>420</b>	<b>490</b>	<b>560</b>	<b>630</b>
		SHOOTING DISTANCE. min. (m)	0,4	0,8	1	1,5	1,5	2	2	2,4	2,7
		SHOOTING DISTANCE. max. (m)	1,05	1,95	3	3,75	5,25	6	6,75	7,5	8,4
		PRESSURE LOSS (Pa)	3	6	15	25,5	39	55,5	82,5	111	141
		SOUND LEVEL (dBA)	19	22	25	28	31	33	36	39	42
∅ 150	0,031	FLOW (m <sup>3</sup> / h)	<b>125</b>	<b>250</b>	<b>375</b>	<b>500</b>	<b>625</b>	<b>750</b>	<b>875</b>	<b>1000</b>	<b>1125</b>
		SHOOTING DISTANCE. min. (m)	0,48	0,95	1,25	1,6	1,95	2,3	2,6	2,95	3,3
		SHOOTING DISTANCE. max. (m)	1,275	2,475	3,675	4,8	5,7	6,9	7,8	8,85	9,9
		PRESSURE LOSS (Pa)	3,675	6,6	15,75	26,55	41,25	57,75	86,25	111	142,5
		SOUND LEVEL (dBA)	20	23	26	30	33	35	39	42	45
∅ 200	0,051	FLOW (m <sup>3</sup> / h)	<b>185</b>	<b>360</b>	<b>540</b>	<b>720</b>	<b>900</b>	<b>1080</b>	<b>1260</b>	<b>1440</b>	<b>1620</b>
		SHOOTING DISTANCE. min. (m)	0,55	1,1	1,45	1,9	2,3	2,7	3,1	3,5	3,9
		SHOOTING DISTANCE. max. (m)	1,5	3	4,35	5,7	6,9	8,1	9,3	10,5	11,7
		PRESSURE LOSS (Pa)	4,425	7,35	16,2	27,9	44,25	58,8	83,25	111,75	144,15
		SOUND LEVEL (dBA)	21	24	27	31	34	37	41	44	47
∅ 250	0,071	FLOW (m <sup>3</sup> / h)	<b>264</b>	<b>530</b>	<b>795</b>	<b>1060</b>	<b>1325</b>	<b>1590</b>	<b>1855</b>	<b>2120</b>	<b>2385</b>
		SHOOTING DISTANCE. min. (m)	0,7	1,3	1,7	2,2	2,7	3,15	3,6	4,1	4,53
		SHOOTING DISTANCE. max. (m)	1,5	3,525	5,175	6,75	8,1	9,45	10,8	12,3	13,65
		PRESSURE LOSS (Pa)	4,5	7,35	11,775	28,65	36,75	59,55	84	114,75	145,5
		SOUND LEVEL (dBA)	23	25	29	32	36	39	43	47	49

Ø300	0,096	FLOW (m <sup>3</sup> / h)	<b>350</b>	<b>700</b>	<b>1050</b>	<b>1400</b>	<b>1750</b>	<b>2100</b>	<b>2450</b>	<b>2800</b>	<b>3150</b>
		SHOOTING DISTANCE. min. (m)	0,85	1,5	1,95	2,55	3,1	3,6	4,1	4,7	5,1
		SHOOTING DISTANCE. max. (m)	2,4	3,75	6	7,725	9,3	10,8	12,3	14,25	15,75
		PRESSURE LOSS (Pa)	4,5	7,35	16,2	29,4	44,25	60,3	83,79	117,75	147
		SOUND LEVEL (dBA)	22	25	31	33	38	40	45	49	51
Ø 350	0,122	FLOW (m <sup>3</sup> / h)	<b>460</b>	<b>920</b>	<b>1380</b>	<b>1840</b>	<b>2300</b>	<b>2760</b>	<b>3220</b>	<b>3680</b>	<b>4140</b>
		SHOOTING DISTANCE. min. (m)	0,9	1,8	2,3	3	3,55	4,3	4,75	5,35	6,1
		SHOOTING DISTANCE. max. (m)	2,55	5,025	6,525	9,15	10,65	12,9	14,25	15,75	18,3
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	36,75	60,3	86,1	117,75	146,7
		SOUND LEVEL (dBA)	24	28	33	36	41	44	48	52	56
Ø 400	0,154	FLOW (m <sup>3</sup> / h)	<b>570</b>	<b>1140</b>	<b>1710</b>	<b>2280</b>	<b>2850</b>	<b>3420</b>	<b>3990</b>	<b>4560</b>	<b>5130</b>
		SHOOTING DISTANCE. min. (m)	1	2	2,6	3,5	4	5	5,4	6	7
		SHOOTING DISTANCE. max. (m)	3	6	7,95	10,5	12	15	16,5	19,5	21
		PRESSURE LOSS (Pa)	4,5	7,35	16,275	29,4	45,45	60,3	88,2	117,6	148,5
		SOUND LEVEL (dBA)	25	30	35	38	43	47	51	55	60
Ø 450	0,186	FLOW (m <sup>3</sup> / h)	<b>645</b>	<b>1290</b>	<b>1935</b>	<b>2580</b>	<b>3225</b>	<b>3870</b>	<b>4515</b>	<b>5160</b>	<b>5805</b>
		SHOOTING DISTANCE. min. (m)	1,1	2,2	2,7	3,6	4,25	5,25	5,73	6,4	7,35
		SHOOTING DISTANCE. max. (m)	3,225	6,45	8,625	10,8	12,7,5	15,75	17,25	19,35	22,05
		PRESSURE LOSS (Pa)	4,8	7,35	16,725	29,4	45,6	60,75	88,2	117,6	148,5
		SOUND LEVEL (dBA)	27	32	37	40	45	49	54	58	63
Ø500	0,224	FLOW (m <sup>3</sup> / h)	<b>788</b>	<b>1576</b>	<b>2364</b>	<b>3152</b>	<b>3940</b>	<b>4728</b>	<b>5516</b>	<b>6304</b>	<b>7092</b>
		SHOOTING DISTANCE. min. (m)	1,3	2,4	2,9	3,9	4,75	5,75	6,4	7,15	8,05
		SHOOTING DISTANCE. max. (m)	3,75	7,2	9,9	12,3	14,25	17,55	19,2	21,45	24
		PRESSURE LOSS (Pa)	5,55	7,35	17,4	30,75	45,6	60,9	88,2	117,6	148,5
		SOUND LEVEL (dBA)	29	32	39	44	49	53	58	63	68