



S W Hart & Co ®

MAKE HART MODEL ACD-B

## Ceiling Diffuser - Surface Mount Bevel Frame

### FEATURES :

- ⊙ Surface mount diffuser with bevel frame
- ⊙ Removable core allowing for ease of access and maintenance
- ⊙ Aluminium construction
- ⊙ Standard powder coat finish in satin white
- ⊙ Alternative colours are available on request

### ACCESSORIES :

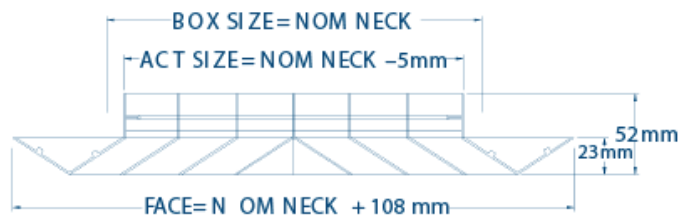
- ⊙ Opposed Blade Damper
- ⊙ Stream Splitter Damper
- ⊙ Blanking Plate
- ⊙ Neck Adaptor
- ⊙ Cushion Head Box
- ⊙ Barrier Screen for PC2 laboratory
- ⊙ Security fixed core

### INSTALLATION :

- ⊙ Ceiling



### DIMENSION :



### ACD-B – STANDARD SIZES :

NOMINAL NECK MM	FACE MM	CEILING OPENING MM
150 x 150	258 x 258	175 x 175
225 x 225	333 x 333	250 x 250
300 x 300	483 x 483	325 x 325
375 x 375	295 x 295	400 x 400
450 x 450	558 x 558	475 x 475



# S W Hart & Co <sup>®</sup>

## Specifications

### CEILING DIFFUSERS TYPE A.C.D PERFORMANCE DATA

APPROX. N/C RATINGS			20													25													30													35													45													
FACE	NECK	NECK VELOCITY M/SEC		1.75	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	1.75	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	1.75	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	1.75	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	1.75	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10
		VELOCITY	PRESSURE Pa	1.5	2.5	4.0	5.5	7.75	10	12.5	15.5	22.5	30	40	50	60	1.5	2.5	4.0	5.5	7.75	10	12.5	15.5	22.5	30	40	50	60	1.5	2.5	4.0	5.5	7.75	10	12.5	15.5	22.5	30	40	50	60	1.5	2.5	4.0	5.5	7.75	10	12.5	15.5	22.5	30	40	50	60	1.5	2.5	4.0	5.5	7.75	10	12.5	15.5	22.5	30	40	50	60
300 X 300	150	Radius Diffusion M	min		1.1	1.2	1.5	1.7	1.8	2.1	2.3	2.3	3	3.4	4	4.3		1.4	1.7	2	2.3	2.4	2.7	3	3.6	4	4.6	5.2	5.5		4	7	11	15	21	27	33	42	60	83	104	130	157			25	26	27	28.5	29	30	35	41	47	51	54												
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
	Radius Diffusion M	min	1	1.2	1.4	1.7	1.8	2.1	2.4	2.6	3	3.7	4	4.6	4.9		1.4	1.8	2.3	2.7	3	3.5	3.7	4.3	5.2	5.8	6.7	7.3	8.2		4	6	10	14	20	27	33	40	57	80	102	124	152			25	26	27	29	30	33	35	40	45	49	52	55											
		max																																																																		
	Total Pressure Pa	(SP+VP)																																																																		
	Noise Level d.b.a																																																																			
450 X 450	200	Radius Diffusion M	min	1	1.2	1.2	1.5	1.7	1.8	2.1	2.3	2.7	3.3	3.5	4	4.3		1.2	1.7	2.1	2.4	2.7	3.2	3.8	4.6	5.2	6.1	6.4	7.3		4	6	9	14	20	24	26	35	48	60	82	97	117			24	25	26.5	28	29	31	32	36	41	46	48	50											
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
	Radius Diffusion M	min	1.1	1.5	1.8	2.1	2.4	2.7	3	3.4	3.8	4.3	4.8	5	6.1		1.5	2.1	2.6	3	3.5	4	4.4	4.9	5.6	6.4	7.3	8.2	8.8		4	6	8	11	17	20	25	30	42	57	77	92	112			24	25	27	29	30	32	33	38	43	47	50	52											
		max																																																																		
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
	300	Radius Diffusion M	min	1.4	1.7	2.1	2.6	2.9	3.3	3.7	4	4.9	5.5	6.4	7	7.6		1.8	2.3	2.9	3.4	4	4.4	4.9	5.5	6.4	7.3	8.5	9.1	10.7		4	5	7	10	14	17	22	30	38	55	75	90	112			24	25	26	27.5	29.5	31	34.5	36	39	44	48	54										
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
350	Radius Diffusion M	min	1.2	1.5	2	2.3	2.7	3	3.3	3.7	4.3	4.9	5.8	6.4	7		2.1	2.7	3.5	4	4.9	5.5	6.1	7	8.2	9.8	11.3	12.5	14		4	6	9	13	18	22	28	35	51	67	85	104	127			25	25.5	27	28	30.5	31.5	35.5	37.5	42	47	50	54	57										
		max																																																																		
	Total Pressure Pa	(SP+VP)																																																																		
	Noise Level d.b.a																																																																			
600 X 600	300	Radius Diffusion M	min	1.4	1.5	1.9	2.4	2.7	3	3.3	3.7	4.6	5.2	5.8	6.4	7		1.8	2.1	2.8	3	3.7	4	4.3	5	5.8	6.7	7.6	8.2	9.8		3	6	8	12	16	20	24	32	45	59	75	92	112			23	24	25	27	30	31	32	36	41	46	50	56										
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
	350	Radius Diffusion M	min	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	4	4.6	5.2	5.9	6.4		2.1	2.7	3.3	4	4.6	5.2	5.8	6.7	7.6	9.1	10.7	11.6	13.1		3	5	8	12	15	19	23	32	44	57	75	92	112			24	25	25.5	27.5	30.5	32	34	37.5	44	49	53	58										
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
	400	Radius Diffusion M	min	1.5	2	2.4	2.9	3.3	3.7	4.1	4.6	5.5	6.1	7	7.9	8.5		2.4	3	4	4.9	5.6	6.4	7	7.9	10	11	12.8	14.3	15.9		3	5	7	14	15	18	22	30	42	57	75	90	112			25	26	27.5	28.5	29	32	35	37	41	47	52	53	59									
			max																																																																	
		Total Pressure Pa	(SP+VP)																																																																	
		Noise Level d.b.a																																																																		
450	Radius Diffusion M	min	2	2.4	3	3.7	4.3	4.6	5.3	5.8	7	8	9.1	10.4	11.3		2.7	3.7	4.6	5.5	6.1	7	8	8.8	10.4	12.2	14	15.8	17.4		2	5	7	14	15	18	22	30	42	57	75	90	112			25	26.5	28	29	29.5	32.5	36	38.5	42	48	52.5	54											