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group

VENTILATIO

high ceiling circular diffuser

HCCD7
HCCD8
HCCD10
HCCD315
HCCD16

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PRODUCT DATA SHEET

1 YR WARRANTY

HCCD CIRCULAR DIFFUSER

Overview

The HCCD range of high ceiling circular diffusers are designed for larger spaces with higher ceilings. They can be mounted in most ceilings and suspended from ductwork. The centre of the diffuser is removable and adjustable, allowing for a range of air patterns from horizontal to vertical projection. The HCCD is manufactured from aluminium and designed for high air flows with lower noise levels due to the sleek cone shape. The finish is powder coated RAL9016. Other colours are available upon request.

Top perspective

Front view

Rear view

End view

idealair group reserves the right to make changes to product without prior notice.

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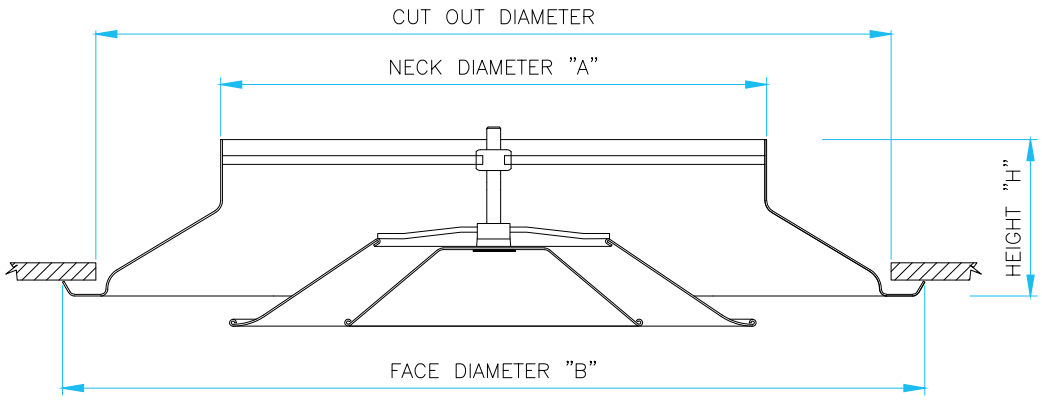
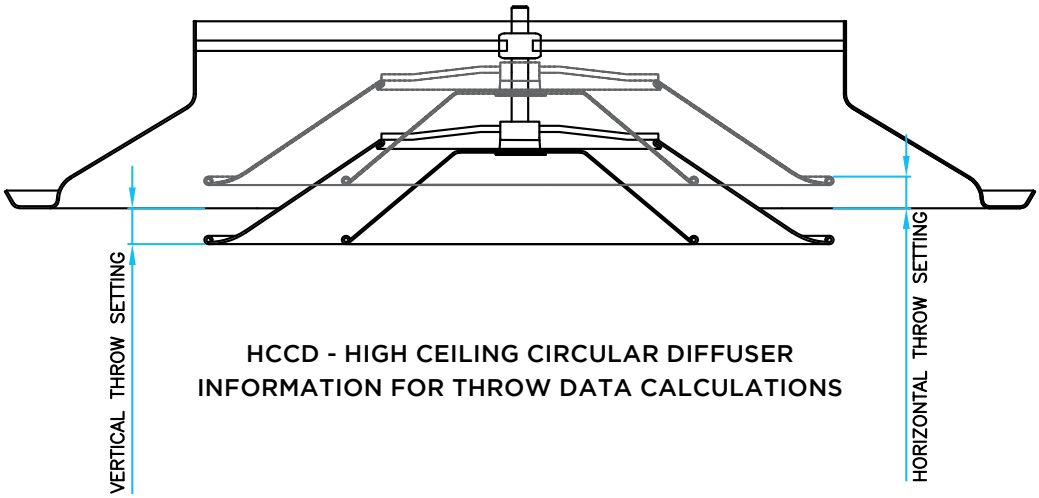


HCCD - HIGH CEILING CIRCULAR DIFFUSER



HCCD - HIGH CEILING CIRCULAR DIFFUSER
INFORMATION FOR THROW DATA CALCULATIONS

Product Code	Dim. A Ø	Dim. B Ø	Dim. H	Cut out Ø
HCCD7	158	308	80	265
HCCD8	198	376	85	330
HCCD10	248	468	103	425
HCCD315	313	585	113	540
HCCD16	398	699	130	650

Dimensions in millimetres

Product Code	Data Calaculations for Throw Setting	
	Vertical Dimension	Horizontal Dimension
HCCD7	10	10
HCCD8	15	15
HCCD10	15	15
HCCD315	20	20
HCCD16	25	25

Dimensions in millimetres

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Technical Data

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Size (Nom.)																	
Code	**Size**	**Blow**	**Flow Rate (l/s)**	**50**	**75**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**500**	**600**	**750**	**900**	**1000**
HCCD7	160 Dia.	Horrizontal	Pressure Loss (Pa)	10	22	38	90										
			Noise NR	<20	25	33	46										
			Throw (m)	0.6 to 1.2	0.9 to 1.8	1.2 to 2.4	1.8 to 3.6										
		Vertical	Pressure Loss (Pa)	16	40	70											
			Noise NR	<20	32	40											
			Throw (m)	2.5 to 4.0	3.3 to 5.6	3.8 to 6.6											
HCCD8	200 Dia.	Horrizontal	Pressure Loss (Pa)	4	8	14	32	60	100								
			Noise NR	<20	<20	20	32	40	47								
			Throw (m)	0.5 to 1.0	0.7 to 1.4	1.0 to 2.0	1.5 to 3.0	2.0 to 4.0	2.3 to 4.6								
		Vertical	Pressure Loss (Pa)	6	14	23	60	105									
			Noise NR	<20	<20	22	37	45									
			Throw (m)	2.0 to 3.5	3.2 to 5.2	3.7 to 6.0	4.8 to 7.6	5.7 to 9.4									
HCCD10	250 Dia.	Horrizontal	Pressure Loss (Pa)		4	6	14	22	40	53	80						
			Noise NR		<20	<20	<20	27	35	38	43						
			Throw (m)		0.6 to 1.2	.75 to 1.5	1.3 to 2.6	1.6 ro 3.2	2.0 to 4.0	2.3 to 4.6	2.7 to 5.4						
		Vertical	Pressure Loss (Pa)		6	11	25	46	78	105							
			Noise NR		<20	<20	23	33	40	44							
			Throw (m)		3.0 to 5.0	3.5 to 6.0	4.5 to 7.5	5.4 to 8.8	6.5 to 11.0	7.0 to 12.0							
HCCD315	315 Dia.	Horrizontal	Pressure Loss (Pa)		2	3	6	11	16	22	33	42	63	93			
			Noise NR		<20	<20	<20	<20	20	25	32	35	40	47			
			Throw (m)		0.5 to 1.0	0.6 to 1.2	1.0 to 2.0	1.4 to 2.8	1.7 to 3.4	2.0 to 4.0	2.3 to 4.6	2.5 to 5.0	3.0 to 6.0	4.0 to 6.0			
		Vertical	Pressure Loss (Pa)		3	5	11	19	30	40	60	75	115				
			Noise NR		<20	<20	<20	<20	25	30	35	40	45				
			Throw (m)		2.7 to 4.4	3.3 to 5.6	4.2 to 7.4	5.0 to 8.0	6.0 to 10.0	6.5 to 11.0	7.0 to 12.0	8.0 to 13.5	9.0 to 15.0				
HCCD16	400 Dia.	Horrizontal	Pressure Loss (Pa)			1	3	4	6	9	13	16	25	37	60	85	
			Noise NR			<20	<20	<20	<20	<20	20	22	28	35	42	50	
			Throw (m)				0.8 to 1.7	1.3 to 2.2	1.4 to 2.8	1.6 to 3.2	2.0 to 4.0	2.2 to 4.4	2.6 to 5.2	3.0 to 6.0	4.0 to 8.0	4.75 to 9.5	
		Vertical	Pressure Loss (Pa)			2	4	7	12	15	21	26	42	62	100		
			Noise NR			<20	<20	<20	<20	<20	20	24	30	37	44		
			Throw (m)			3.0 to 5.0	3.7 to 6.5	4.7 to 7.7	5.5 to 9.0	6.0 to 10.0	6.8 to 11.5	7.3 to 12.7	8.6 to 14.0	9.5 to 15.5	10.5 to 17.0		

Dimensions in millimetres.
Throw Terminal Velocities - 0.60m/sec & 0.30m/sec.
This data to be used for quick selection only, not to be used for commissioning.

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