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## CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER (CRCLSD)

Airfoil's Custom Manufactured Removable Core Linear Slot Diffuser is generally ceiling mounted and can be used for both supply and return air functions. The slots can be adjusted to provide a variable air throw pattern from vertical to horizontal. The removable core provides easy installation and cleaning. The product comes complete with safety chain.

Airfoil's superior design delivers greater air volume per slot and less noise for more effective room air circulation.

### Custom Manufactured Removable Core Linear Slot Diffuser Options

> Slot widths of either 20mm or 25mm

> Up to 4 slots

> Recommended single length 4.5m, maximum 6m

> Specific colours and finishes available on request

### Product specification codes:

**RCLS125** One slot linear diffuser with 25mm spacing  
**RCLS225** Two slot linear diffuser with 25mm spacing  
**RCLS325** Three slot linear diffuser with 25mm spacing  
**RCLS425** Four slot linear diffuser with 25mm spacing

**RCLS120** One slot linear diffuser with 20mm spacing  
**RCLS220** Two slot linear diffuser with 20mm spacing  
**RCLS320** Three slot linear diffuser with 20mm spacing  
**RCLS420** Four slot linear diffuser with 20mm spacing

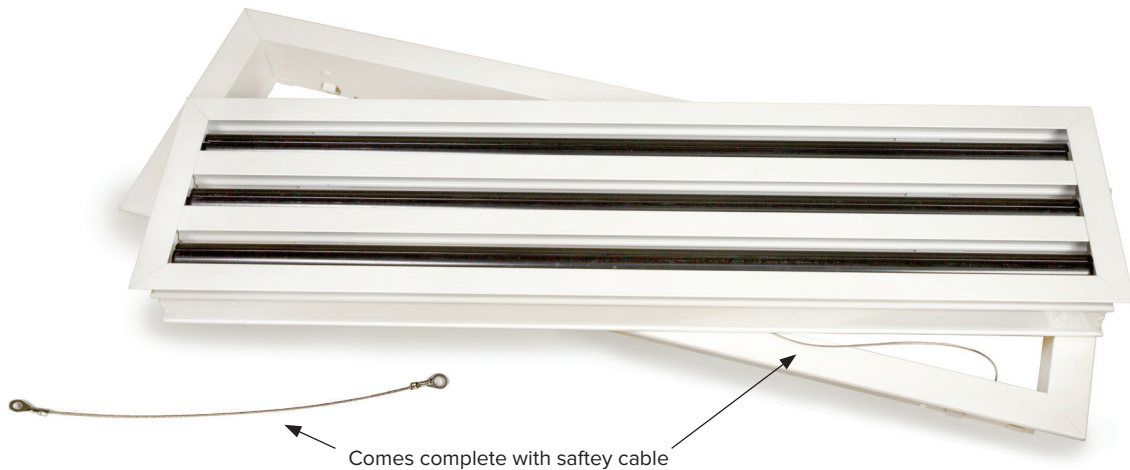
Specification: Product code + size.

Example: **RCLS425** Four slot linear diffuser with 25mm spacing and nominal neck size of 1200mm

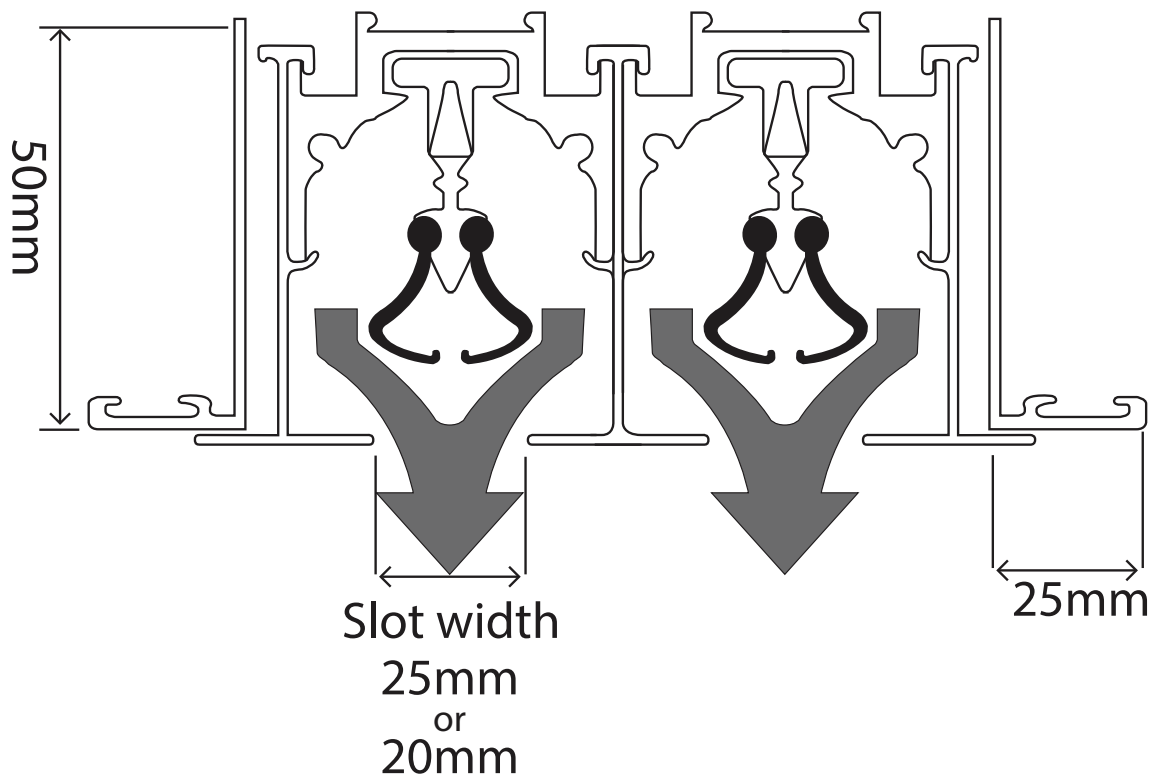
**Important Note:** Dimensions will be assumed nominal neck size unless otherwise specified.



# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER



Cross sectional diagram



# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
RCLS125	1	25	60	105
RCLS225	2	25	105	150
RCLS325	3	25	150	195
RCLS425	4	25	195	240
RCLS525	5	25	240	285
RCLS625	6	25	285	330

Performance Data - CRCLSD 25MM Slot width supply application

No. Slots	Total Press.		Horiz.		1		4		9		16		24		35		49		62	
	Pascals.	Vert.	1	2	6	10	15	21	29	37	46	55	64	73	82	91	100	109	118	
1	Lit / sec / metre				12	25	37	50	65	75	90	100								
	NR				-	-	16	25	32	37	42	46								
	Throw	Hor.	0.1	1	0.4	3.4	1	4	1.8	4.6	2.8	5.2	3.4	5.8	4.8	6.2	3.8	6.8		
	in metres	Vert.	0.6		2.4		3.8		4.4		4.6		5.2		5.6		5.8			
2	Lit / sec / metre				25	50	75	100	125	150	175	200								
	NR				-	-	21	30	37	42	47	51								
	Throw	Hor.	0.4	1.8	1	4.6	1.8	5.8	3.4	6.8	4.4	7.4	4.6	8.2	5	8.2	5.6	9.6		
	in metres	Vert.	1.6		3.4		5		5.8		6.8		7.6		8		8.6			
3	Lit / sec / metre				37	75	115	150	185	225	260	300								
	NR				-	-	16	24	33	40	45	54								
	Throw	Hor.	0.4	3.2	1.2	5.8	3.2	7	4	8.2	5	9.2	5.8	9.8	6.2	10.8	6.8	11.4		
	in metres	Vert.	2.2		4		6.2		7.4		8.2		8.8		9.8		10.4			
4	Lit / sec / metre				50	100	150	200	250	300	350	400								
	NR				-	-	13	26	35	42	47	56								
	Throw	Hor.	0.6	3.4	1.8	6.8	3.8	8.2	4.6	9.6	6.2	10.4	6.8	11.4	7.4	12.2	7.6	13.2		
	in metres	Vert.	-		13		26		35		42		47		52		56			
5	Lit / sec / metre				65	125	185	250	310	375	435	495								
	NR				-	-	14	27	36	43	48	57								
	Throw	Hor.	0.6	4	2.4	7.4	4	9.2	5.6	10.4	6.8	11.6	7.4	12.8	8	13.8	8.6	14.6		
	in metres	Vert.	2.8		5.2		7.6		9.6		10.4		11.6		12.6		13.2			
6	Lit / sec / metre				75	150	225	300	375	445	520	595								
	NR				-	-	15	28	37	44	49	58								
	Throw	Hor.	1	4.4	2.8	8.2	4.6	9.8	5.8	11.4	7.4	12.8	8.2	13.8	8.8	15	9.2	16		
	in metres	Vert.	2.8		5.8		8.6		10.4		11.6		12.6		13.8		14.6			
7	Lit / sec / metre				90	175	260	350	435	520	610	695								
	NR				-	-	16	29	38	45	50	59								
	Throw	Hor.	1	4.6	3.2	8.6	4.6	10.8	6.4	12.2	8	13.8	8.8	15	9.6	16.2	10.2	17.2		
	in metres	Vert.	3.2		6.2		9.2		11		12.6		13.8		14.6		16			
8	Lit / sec / metre				100	200	300	400	495	595	695	795								
	NR				-	-	17	30	39	46	51	60								
	Throw	Hor.	1.2	5	3.4	9.6	5	11.4	6.8	13.2	8.6	14.6	9.2	16	10.2	17.2	10.8	18.4		
	in metres	Vert.	3.4		6.8		9.8		12		13.2		14.6		16		16.8			

Performance Data - CRCLSD 25MM Slot width return application

No. Slot	Negative Static Pressure in Pascals	5	10	18	27	40	54	70	112
1	Lit / sec / metre	31	47	65	80	95	110	125	155
	NR	-	14	22	28	33	37	41	47
2	Lit / sec / metre	65	95	125	155	185	220	250	310
	NR	-	17	25	31	36	40	44	50
3	Lit / sec / metre	95	140	185	235	280	325	375	465
	NR	-	19	27	33	38	42	46	52
4	Lit / sec / metre	125	185	250	310	375	435	495	620
	NR	-	20	28	34	39	43	47	53
5	Lit / sec / metre	155	235	310	390	465	545	620	775
	NR	-	21	29	35	40	44	48	54
6	Lit / sec / metre	185	280	375	465	560	650	745	930
	NR	-	22	30	36	41	45	49	55
7	Lit / sec / metre	220	325	435	545	650	760	870	1085
	NR	-	23	31	37	42	46	50	56
8	Lit / sec / metre	250	375	495	620	745	870	995	1240
	NR	-	23	31	37	42	46	50	56

# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
RCLS120	1	20	55	100
RCLS220	2	20	95	140
RCLSD320	3	20	135	180
RCLS420	4	20	175	220
RCLS520	5	20	215	260
RCLS620	6	20	255	300

## Performance Data - RCLS 20MM Slot width supply application

No. Slots	Total Press. Pascals.	Horiz.		1.5		4		8		14		23		31		44		58	
		Vert.	1	1	3	6	11	17	24	31	42	52	64	82	104	138			
1	Lit / sec / metre		9	19	28	37	47	55	65	75									
	NR		-	-	-	21	27	33	38	42									
	Throw	Hor.	0.4	1	0.4	2.8	1	3.4	1.6	4	2.4	4.6	2.8	5	3.2	5.2	3.4	8	
	in metres	Vert.	0.6	1.8	3.2	3.8	4.4	4.6	5	5.2									
2	Lit / sec / metre		19	37	55	75	95	115	130	150									
	NR		-	-	16	26	32	38	43	47									
	Throw	Hor.	0.4	1.6	0.6	4	1.6	5	2.8	8	3.4	6.4	4	7	4.4	6	4.6	8.2	
	in metres	Vert.	1.2	2.8	4.4	5.2	5.8	6.4	7	7.4									
3	Lit / sec / metre		28	55	85	115	140	170	195	225									
	NR		-	-	19	29	35	41	46	50									
	Throw	Hor.	0.4	2.4	1.2	5	2.2	6.2	3.4	7	4.4	8	5	8.6	5.6	9.2	5.8	9.8	
	in metres	Vert.	1.8	3.4	5.2	6.4	7	8	8.6	9.2									
4	Lit / sec / metre		37	75	115	150	185	225	260	300									
	NR		-	-	21	31	37	43	48	52									
	Throw	Hor.	0.4	3.2	1.6	5.8	3.2	7	4	8.2	5	9.2	5.8	9.8	6.4	10.8	6.8	11.4	
	in metres	Vert.	1.8	4	5.8	7.4	8.2	9.2	9.8	10.4									
5	Lit / sec / metre		47	95	140	185	235	280	325	375									
	NR		-	-	22	32	38	44	49	53									
	Throw	Hor.	0.6	3.4	1.8	6.4	3.4	8	4.6	9.2	5.6	10.2	6.4	11	7	12	7.6	12.8	
	in metres	Vert.	2.2	4.4	6.4	8.2	9.2	10.2	11	11.6									
6	Lit / sec / metre		55	115	170	225	280	335	390	445									
	NR		-	-	23	33	39	45	50	54									
	Throw	Hor.	0.6	3.8	2.4	7	3.8	8.6	5	9.8	6.2	11	7	12.2	7.6	12.2	8	13.8	
	in metres	Vert.	2.4	4.6	7.4	9.2	10.2	11	12	12.8									
7	Lit / sec / metre		65	130	195	260	325	390	455	520									
	NR		-	13	24	34	40	46	51	55									
	Throw	Hor.	1	3.8	2.8	7.6	4	9.2	5.6	10.8	6.8	12	7.6	13.2	8.2	14	8.8	15	
	in metres	Vert.	2.4	5	7.4	9.8	11	12	12.8	13.8									
8	Lit / sec / metre		75	150	225	300	375	445	520	595									
	NR		-	14	25	35	41	47	52	56									
	Throw	Hor.	1.2	4.4	2.8	8.2	4.4	9.8	5.8	11.4	7.4	12.8	8	13.8	8.8	15	9.2	16	
	in metres	Vert.	2.4	5	7.4	10.2	11.6	12.8	13.8	14.6									

## Performance Data - RCLS 20MM Slot width return application

No. Slot	Negative Static Pressure in Pascals	2	7	16	27	42	62	86	112
1	Lit / sec / metre	15	31	47	65	80	95	110	125
	NR	-	-	21	29	35	40	44	48
2	Lit / sec / metre	31	65	95	125	155	185	220	250
	NR	-	13	24	32	38	43	47	51
3	Lit / sec / metre	47	95	140	185	235	280	325	375
	NR	-	15	26	34	40	45	49	53
4	Lit / sec / metre	65	125	185	250	310	375	435	495
	NR	-	16	27	35	41	46	50	54
5	Lit / sec / metre	80	155	235	310	390	465	545	620
	NR	-	17	28	36	42	47	51	55
6	Lit / sec / metre	95	185	280	375	465	560	650	745
	NR	-	18	29	37	43	48	52	56
7	Lit / sec / metre	110	220	325	435	545	650	760	870
	NR	-	19	30	38	44	49	53	57
8	Lit / sec / metre	125	250	375	495	620	745	870	995
	NR	-	19	30	38	44	49	53	57