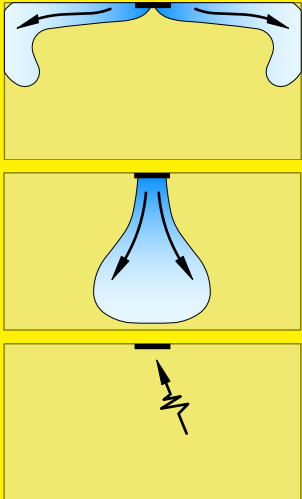


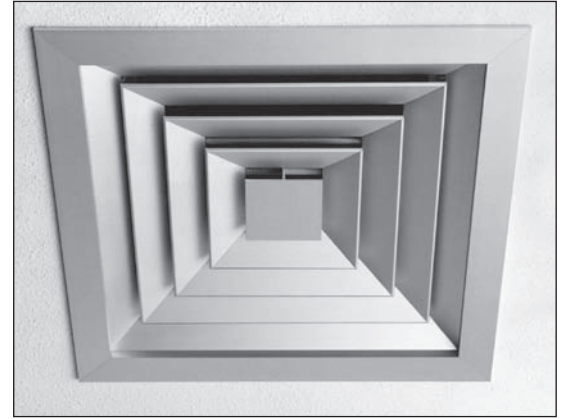
Multicore diffusers

SQUARE AND RECTANGULAR DIFFUSERS

introduction



The IC diffuser is a versatile form of air terminal offering the facility of multi directional throw patterns in a wide range of frame sizes. Each core style has two position settings within the frame, allowing conventional horizontal diffusion when lowered or vertical projection when raised. The cores are fitted with quick release safety cords as standard. The diffuser is available in frame styles to suit either 'T' bar, Clip In or Tegular ceiling systems.



type

IC

control

Diffusers can be supplied with neck mounted lever operated OB dampers, or alternatively, rhomboidal dampers can be specified where duct entry conditions are likely to cause a problem with flow equalisation.

options

A number of optional accessories may be specified, including core blanking plates (where diffusers are oversized to suit the ceiling grid) and diffuser hanging brackets.

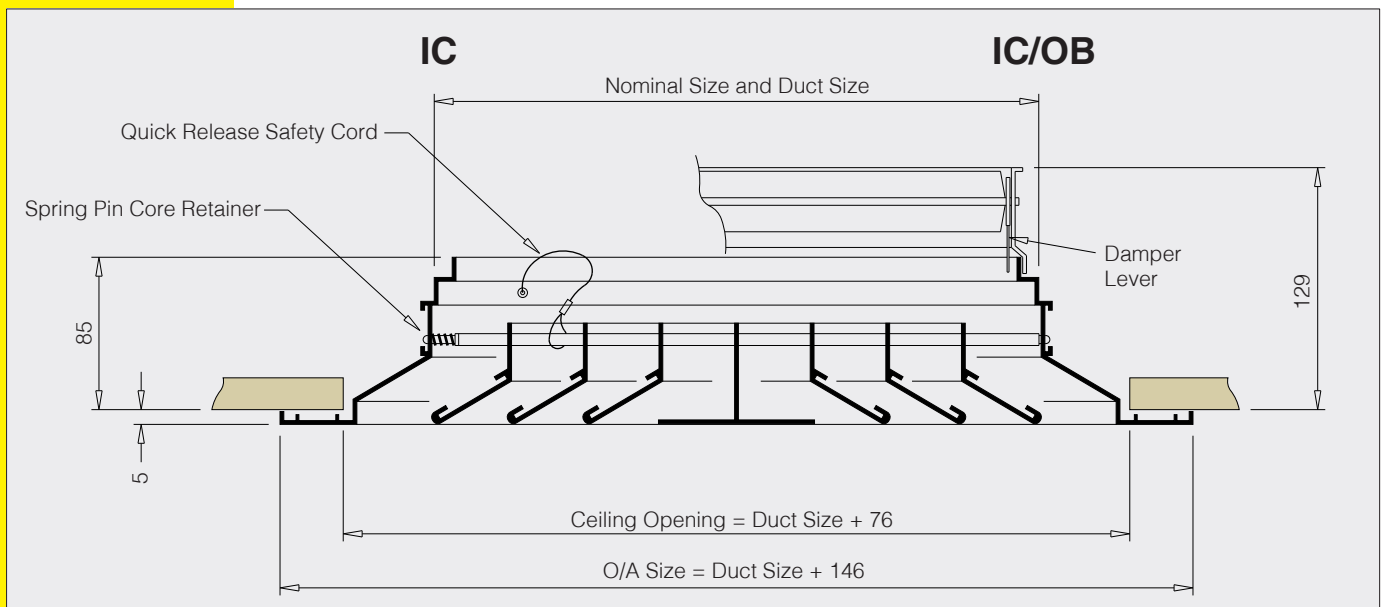
A range of pan adaptors and side entry plenums can be supplied either ready fitted to the diffuser or loose. Details can be found on page 12.

finish

The standard finish is satin anodised aluminium (SAA) or White (RAL9010) powder coat (PC) but a wide range of paint finishes are also available in either BS or RAL colours, as detailed in **Part I**

sizes

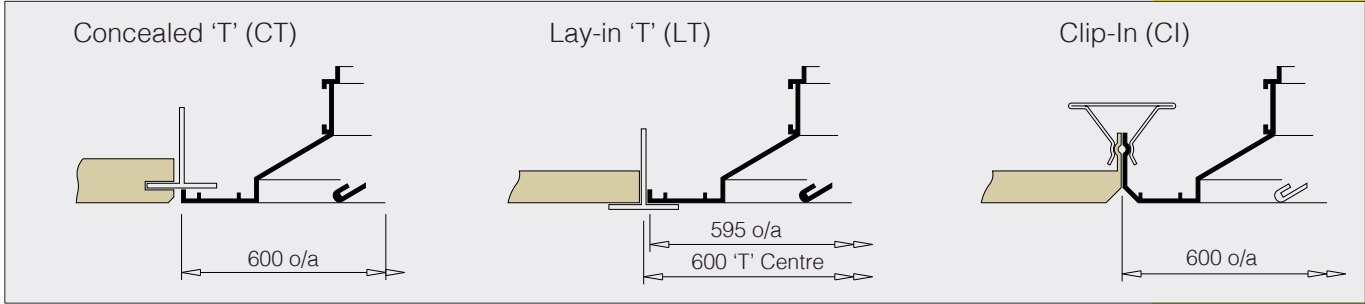
The performance tables show the range of standard neck sizes available. Larger sizes (in increments of 75mm) can however be supplied in most core styles to suit special requirements.



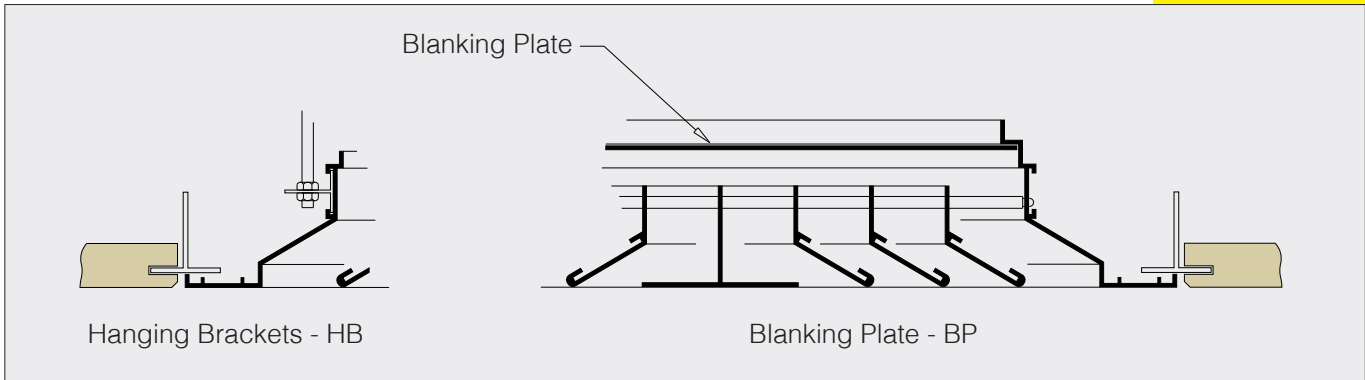
Multicore diffusers

FRAME OPTIONS - FEATURES

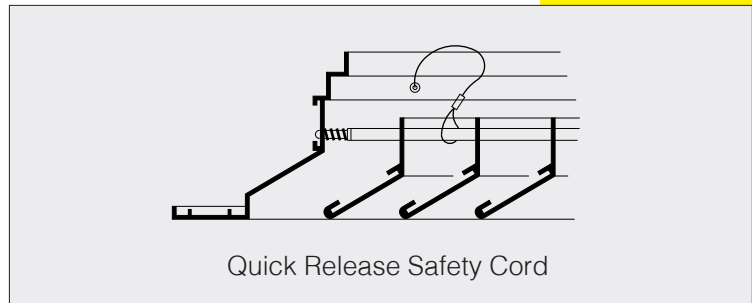
frame options



optional features



standard features



options

BP = Blank plate
HB = Hanging Bracket

Where the diffusers are to intergrate with a ceiling system, state whether concealed 'T' (CT), lay-in 'T' (LT), Clip In (CI) or Tegular (TC) type frame .

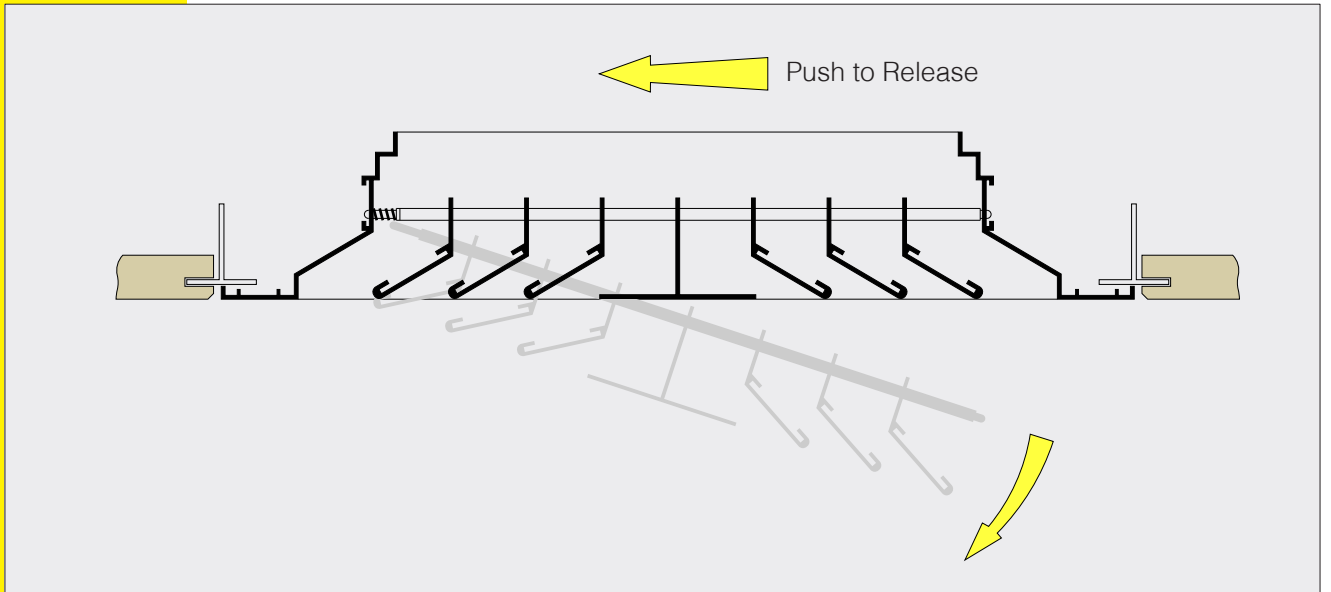
ordering details

EXAMPLE :

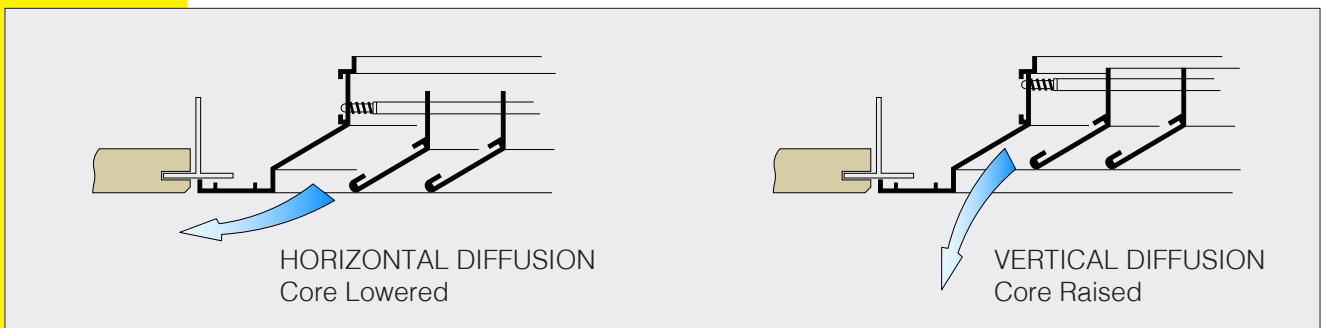
type	control	option	size	quantity
IC4	OB	BP	450 x 450	4

Multicore diffusers

CORE SETTINGS

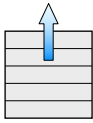



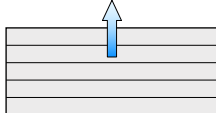
The quick release core feature allows easy removal for damper access and also provides two positive location settings for conventional horizontal diffusion and vertical projection.

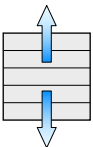
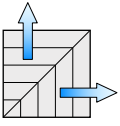


Multicore diffusers

PERFORMANCE DATA

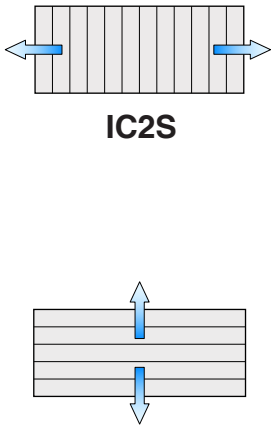
CORE PATTERN	NECK SIZE (mm)	SELECTION PARAMETER	NECK AIR VELOCITY (m/s)					
			1.0	1.5	2.0	2.5	3.0	3.5
			2.5	5	8	14	20	27
 <p>IC1</p>	150 x 150	AIR FLOW RATE (l/s)	22	34	46	51	68	73
		MIN MAX THROW (M)	0.8 - 1.6	1.2 - 2.4	1.5 - 3.0	2.0 - 4.0	2.4 - 4.3	3.0 - 6.0
		NR LEVEL	--	--	19	22	25	28
	225 x 225	AIR FLOW RATE (l/s)	50	76	102	128	152	178
		MIN MAX THROW (M)	0.9 - 1.8	1.4 - 2.8	2.0 - 4.0	2.4 - 4.8	3.0 - 6.0	3.4 - 6.8
		NR LEVEL	--	--	19	23	26	30
	300 x 300	AIR FLOW RATE (l/s)	90	136	180	226	270	316
		MIN MAX THROW (M)	1.2 - 2.4	1.5 - 3.0	2.2 - 4.4	2.7 - 5.4	3.3 - 6.6	3.8 - 7.6
		NR LEVEL	--	--	21	25	29	34
	375 x 375	AIR FLOW RATE (l/s)	140	210	280	350	420	492
		MIN MAX THROW (M)	1.3 - 2.6	1.8 - 3.6	2.3 - 4.6	2.9 - 5.8	3.6 - 7.1	4.2 - 8.4
		NR LEVEL	--	--	22	27	33	37
	450 x 450	AIR FLOW RATE (l/s)	202	304	406	506	608	710
		MIN MAX THROW (M)	1.4 - 2.8	2.1 - 4.2	2.4 - 4.8	3.1 - 6.2	3.8 - 7.6	4.6 - 9.2
		NR LEVEL	--	19	24	30	35	39

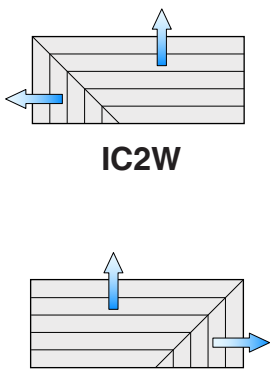
 <p>IC1S</p>  <p>IC1L</p>	225 x 150	AIR FLOW RATE (l/s)	34	52	68	84	102	118
		MIN MAX THROW (M)	0.9 - 1.8	1.2 - 2.4	2.0 - 4.0	2.2 - 4.4	2.5 - 5.0	3.0 - 6.0
		NR LEVEL	--	--	19	23	26	29
	300 x 150	AIR FLOW RATE (l/s)	46	68	90	112	136	158
		MIN MAX THROW (M)	1.0 - 2.0	1.3 - 2.6	2.1 - 4.2	2.3 - 4.6	2.8 - 5.6	3.3 - 6.6
		NR LEVEL	--	--	19	24	26	30
	375 x 150	AIR FLOW RATE (l/s)	56	84	112	142	168	198
		MIN MAX THROW (M)	1.1 - 2.2	1.4 - 2.0	2.1 - 4.2	2.4 - 4.8	2.9 - 5.8	3.5 - 7.0
		NR LEVEL	--	--	20	24	27	31
	450 x 150 300 X 225	AIR FLOW RATE (l/s)	68	102	136	168	202	236
		MIN MAX THROW (M)	1.1 - 2.2	1.5 - 3.0	2.2 - 4.4	2.4 - 4.8	3.0 - 6.0	3.6 - 7.2
		NR LEVEL	--	--	20	24	28	32
	375 x 225	AIR FLOW RATE (l/s)	84	126	168	210	252	296
		MIN MAX THROW (M)	1.2 - 2.4	1.6 - 3.2	2.2 - 4.4	2.5 - 5.0	3.2 - 6.4	3.8 - 7.6
		NR LEVEL	--	--	21	24	29	33
525 x 225	AIR FLOW RATE (l/s)	118	178	236	296	354	414	
	MIN MAX THROW (M)	1.3 - 2.6	2.0 - 4.0	2.3 - 4.6	2.3 - 5.6	3.5 - 7.0	4.0 - 8.0	
	NR LEVEL	--	--	21	24	29	33	
375 x 300	AIR FLOW RATE (l/s)	112	168	226	280	338	394	
	MIN MAX THROW (M)	1.2 - 2.4	1.9 - 3.8	2.3 - 4.6	2.7 - 5.4	3.4 - 6.8	3.9 - 7.8	
	NR LEVEL	--	--	22	26	31	36	
450 x 300	AIR FLOW RATE (l/s)	136	202	270	338	406	472	
	MIN MAX THROW (M)	1.3 - 2.6	2.0 - 4.0	2.4 - 4.8	3.0 - 6.0	3.7 - 7.4	4.2 - 8.8	
	NR LEVEL	--	--	23	27	25	36	

 <p>IC2</p>  <p>IC2C</p>	150 x 150	AIR FLOW RATE (l/s)	22	34	46	56	68	78
		MIN MAX THROW (M)	0.3 - 0.6	1.1 - 2.2	1.4 - 2.8	1.9 - 3.8	3.7 - 7.4	2.3 - 4.6
		NR LEVEL	--	--	19	23	25	28
	225 x 225	AIR FLOW RATE (l/s)	50	76	102	128	152	175
		MIN MAX THROW (M)	0.8 - 1.6	1.3 - 2.6	1.7 - 3.4	2.1 - 4.2	2.3 - 4.6	2.7 - 5.4
		NR LEVEL	--	--	20	23	26	30
	300 x 300	AIR FLOW RATE (l/s)	90	136	180	226	270	316
		MIN MAX THROW (M)	1.0 - 2.0	1.4 - 2.8	2.1 - 4.2	2.3 - 4.6	2.7 - 5.4	3.3 - 6.6
		NR LEVEL	--	--	21	25	29	34
	375 x 375	AIR FLOW RATE (l/s)	140	210	280	350	420	492
		MIN MAX THROW (M)	1.1 - 2.2	1.5 - 3.1	2.2 - 4.4	2.5 - 5.0	3.0 - 6.0	3.6 - 7.2
		NR LEVEL	--	--	22	27	33	37
	450 x 450	AIR FLOW RATE (l/s)	202	304	406	506	603	710
		MIN MAX THROW (M)	1.2 - 2.4	1.7 - 3.4	2.3 - 4.6	2.7 - 5.4	3.3 - 6.6	3.9 - 7.8
		NR LEVEL	--	19	24	30	35	39
525 x 525	AIR FLOW RATE (l/s)	276	414	552	690	826	964	
	MIN MAX THROW (M)	1.3 - 2.6	2.0 - 4.0	2.4 - 4.8	3.0 - 6.0	3.7 - 7.4	4.2 - 8.4	
	NR LEVEL	--	21	26	33	37	41	

Multicore diffusers

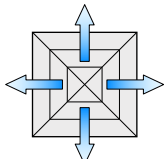
PERFORMANCE DATA

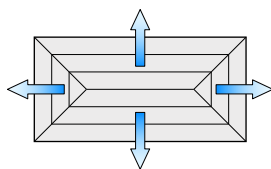
CORE PATTERN	NECK SIZE (mm)	SELECTION PARAMETER	NECK AIR VELOCITY (m/s)					
			1.0	1.5	2.0	2.5	3.0	3.5
			Pt Total Pressure (Pa)					
 <p>IC2S</p> <p>IC2L</p>	225 x 150	AIR FLOW RATE (l/s)	34	52	68	85	102	118
		MIN MAX THROW (M)	0.7 - 1.4	1.2 - 2.4	1.5 - 3.0	2.0 - 4.0	2.3 - 4.6	2.5 - 5.0
		NR LEVEL	--	--	19	23	26	29
	300 x 150	AIR FLOW RATE (l/s)	46	68	90	112	136	158
		MIN MAX THROW (M)	0.8 - 1.6	1.2 - 2.4	1.6 - 3.2	2.1 - 4.2	2.4 - 4.2	2.6 - 5.2
		NR LEVEL	--	--	19	24	26	30
	375 x 150	AIR FLOW RATE (l/s)	56	84	112	142	168	198
		MIN MAX THROW (M)	0.9 - 1.8	1.3 - 2.6	1.7 - 3.4	2.2 - 4.4	2.4 - 4.8	2.7 - 5.4
		NR LEVEL	--	--	20	24	27	31
	450 x 150 300 x 225	AIR FLOW RATE (l/s)	68	102	136	168	202	236
		MIN MAX THROW (M)	0.9 - 1.8	1.3 - 2.6	1.9 - 3.8	2.2 - 4.4	2.5 - 5.0	2.9 - 5.8
		NR LEVEL	--	--	20	24	28	32
375 x 225	AIR FLOW RATE (l/s)	84	126	168	210	252	296	
	MIN MAX THROW (M)	1.0 - 2.0	1.4 - 2.8	2.0 - 4.0	2.3 - 4.6	2.6 - 5.2	3.0 - 6.0	
	NR LEVEL	--	--	21	24	29	33	
525 x 225	AIR FLOW RATE (l/s)	118	178	236	296	354	414	
	MIN MAX THROW (M)	1.1 - 2.2	1.4 - 2.8	2.1 - 4.2	2.4 - 4.8	2.9 - 5.8	3.5 - 7.0	
	NR LEVEL	--	--	22	26	31	36	
375 x 300	AIR FLOW RATE (l/s)	112	168	226	280	338	394	
	MIN MAX THROW (M)	1.0 - 2.0	1.4 - 2.8	2.1 - 4.2	2.3 - 4.6	2.8 - 5.6	3.4 - 6.8	
	NR LEVEL	--	--	22	26	31	36	
450 x 300	AIR FLOW RATE (l/s)	136	202	270	338	406	472	
	MIN MAX THROW (M)	1.1 - 1.2	1.5 - 3.0	2.2 - 4.4	2.4 - 4.8	3.0 - 6.0	3.6 - 7.2	
	NR LEVEL	--	--	23	27	32	36	

CORE PATTERN	NECK SIZE (mm)	SELECTION PARAMETER	NECK AIR VELOCITY (m/s)													
			1.0		1.5		2.0		2.5		3.0		3.5			
			L	S	L	S	L	S	L	S	L	S	L	S		
			Pt Total Pressure (Pa)													
 <p>IC2W</p> <p>IC2E</p>	225 x 150	AIR FLOW RATE (l/s)	34		52		68		84		102		118			
		MIN MAX THROW MIN MAX	0.8	0.3	1.2	1.1	1.6	1.4	2.1	1.9	2.4	2.2	2.6	2.3	2.6	4.6
		NR LEVEL	--	0.6	2.4	--	2.2	3.2	2.8	4.2	3.8	4.8	4.4	5.2	29	4.6
	300 x 150	AIR FLOW RATE (l/s)	46		68		90		112		136		158			
		MIN MAX THROW MIN MAX	0.8	0.3	1.2	1.1	1.9	1.4	2.2	1.9	2.5	2.2	2.9	2.3	2.9	4.6
		NR LEVEL	--	0.6	2.4	2.2	3.8	2.8	4.4	3.8	5.0	4.4	5.0	4.6	30	4.6
	300 x 225	AIR FLOW RATE (l/s)	68		102		136		168		202		236			
		MIN MAX THROW MIN MAX	0.9	0.8	1.4	1.1	2.0	1.7	2.3	2.1	2.5	2.3	3.0	2.8	3.0	5.6
		NR LEVEL	--	1.6	2.8	--	2.2	4.0	3.4	4.6	4.2	5.2	4.6	6.0	32	5.6
	375 x 225	AIR FLOW RATE (l/s)	84		126		168		210		252		296			
		MIN MAX THROW MIN MAX	1.0	0.8	1.4	1.3	2.1	1.7	2.4	2.1	2.9	2.3	3.5	2.8	3.5	5.6
		NR LEVEL	--	1.6	2.8	2.6	4.2	3.4	4.8	4.2	5.8	4.6	7.0	5.6	33	5.6
375 x 300	AIR FLOW RATE (l/s)	112		168		226		280		338		394				
	MIN MAX THROW MIN MAX	1.1	1.0	1.5	1.3	2.1	2.0	2.4	2.3	3.0	2.7	2.6	3.3	2.6	3.3	
	NR LEVEL	--	2.0	3.0	2.6	4.2	4.0	4.8	4.6	6.0	5.4	7.2	6.6	36	6.6	
400 x 300	AIR FLOW RATE (l/s)	136		202		270		338		406		472				
	MIN MAX THROW MIN MAX	1.1	1.0	1.5	1.4	2.2	2.0	2.7	2.3	3.3	2.7	3.8	3.3	3.8	6.6	
	NR LEVEL	--	2.0	3.0	2.8	4.4	4.0	5.4	4.6	6.6	5.4	7.6	6.6	36	6.6	
450 x 375	AIR FLOW RATE (l/s)	168		254		338		422		506		590				
	MIN MAX THROW MIN MAX	1.2	1.0	1.8	1.5	2.3	2.1	2.7	2.4	3.4	3.0	4.0	3.7	4.0	7.4	
	NR LEVEL	--	2.2	3.6	3.0	4.6	4.2	5.4	4.8	6.8	6.0	8.0	7.4	38	7.4	

Multicore diffusers

PERFORMANCE DATA

CORE PATTERN	NECK SIZE (mm)	SELECTION PARAMETER	NECK AIR VELOCITY (m/s)											
			1.0		1.5		2.0		2.5		3.0		3.5	
			L	S	L	S	L	S	L	S	L	S	L	S
		Pt Total Pressure (Pa)	2.5		5		8		14		20		27	
 <p>IC4</p>	150 x 150	AIR FLOW RATE (l/s)	22		34		46		56		68		78	
		MIN MAX THROW (M)	0.2 - 0.4		0.4 - 0.8		1.2 - 2.4		1.4 - 2.8		1.9 - 3.6		2.0 - 4.0	
		NR LEVEL	--		--		19		22		25		28	
	225 x 225	AIR FLOW RATE (l/s)	50		76		102		128		152		178	
		MIN MAX THROW (M)	0.3 - 0.6		1.1 - 2.3		1.4 - 2.8		1.7 - 3.4		2.1 - 4.2		2.4 - 4.8	
		NR LEVEL	--		--		20		23		26		30	
	300 x 300	AIR FLOW RATE (l/s)	90		136		180		226		270		316	
		MIN MAX THROW (M)	0.8 - 1.6		1.2 - 2.4		1.6 - 3.2		2.0 - 4.0		2.4 - 4.8		2.6 - 5.2	
		NR LEVEL	--		--		21		25		29		34	
	375 x 375	AIR FLOW RATE (l/s)	140		210		280		350		420		492	
		MIN MAX THROW (M)	0.9 - 1.8		1.3 - 2.6		1.7 - 3.4		2.1 - 4.2		2.6 - 5.2		3.0 - 6.0	
		NR LEVEL	--		--		22		27		33		37	
	450 x 450 OR TILE SIZE	AIR FLOW RATE (l/s)	202		304		406		506		608		710	
		MIN MAX THROW (M)	1.1 - 2.2		1.4 - 2.8		1.8 - 3.6		2.2 - 4.4		2.8 - 5.6		3.5 - 7.0	
		NR LEVEL	--		19		24		30		35		39	
	525 x 525	AIR FLOW RATE (l/s)	276		414		552		690		826		964	
		MIN MAX THROW (M)	1.1 - 2.2		1.5 - 3.0		2.0 - 4.0		2.4 - 4.9		3.0 - 6.0		3.6 - 7.2	
		NR LEVEL	--		21		26		33		37		41	
600 x 600	AIR FLOW RATE (l/s)	360		540		720		900		1080		1260		
	MIN MAX THROW (M)	1.2 - 2.4		1.6 - 3.2		2.2 - 4.4		2.8 - 5.4		3.3 - 6.6		3.8 - 7.6		
	NR LEVEL	--		22		28		35		38		43		

 <p>IC4L</p>	225 x 150	AIR FLOW RATE (l/s)	34		52		68		84		102		118	
		MIN MAX THROW MIN MAX	0.3	0.1	1.1	0.2	1.4	1.2	2.0	1.4	2.2	2.1	2.3	2.2
		NR LEVEL	0.6 - 0.2		2.2 - 0.4		2.8 - 0.4		4.0 - 2.4		4.4 - 2.8		4.6 - 4.4	
	300 x 150	AIR FLOW RATE (l/s)	46		68		90		112		136		158	
		MIN MAX THROW MIN MAX	0.7	0.1	1.2	0.2	1.5	1.2	2.0	1.4	2.3	2.1	2.5	2.2
		NR LEVEL	1.4 - 0.2		2.4 - 0.4		3.0 - 2.4		4.0 - 2.8		4.6 - 4.2		5.0 - 4.4	
	375 x 150	AIR FLOW RATE (l/s)	56		84		112		142		168		198	
		MIN MAX THROW MIN MAX	0.8	0.1	1.2	0.2	1.6	1.2	2.1	1.4	2.4	2.1	2.6	2.2
		NR LEVEL	1.6 - 0.2		2.4 - 0.4		3.2 - 2.4		4.2 - 2.8		4.8 - 4.2		5.2 - 4.4	
	450 x 150	AIR FLOW RATE (l/s)	68		102		136		168		202		236	
		MIN MAX THROW MIN MAX	0.9	0.1	1.3	0.2	1.7	1.2	2.2	1.4	2.4	2.1	2.7	2.2
		NR LEVEL	1.8 - 0.2		2.6 - 0.4		3.4 - 2.4		4.4 - 2.8		4.8 - 4.2		5.4 - 4.4	
	300 x 225	AIR FLOW RATE (l/s)	68		102		136		168		202		236	
		MIN MAX THROW MIN MAX	0.8	0.4	1.3	0.9	1.6	1.4	2.1	2.0	2.3	2.2	2.6	2.4
		NR LEVEL	1.6 - 0.8		2.4 - 1.8		3.2 - 2.8		4.2 - 4.0		4.6 - 4.4		5.2 - 4.8	
	375 x 225	AIR FLOW RATE (l/s)	84		126		168		210		252		296	
		MIN MAX THROW MIN MAX	0.9	0.4	1.3	0.9	1.7	1.4	2.2	2.0	2.4	2.2	2.7	2.4
		NR LEVEL	1.6 - 0.8		2.4 - 1.8		3.2 - 2.8		4.2 - 4.0		4.6 - 4.4		5.2 - 4.8	
	450 x 225	AIR FLOW RATE (l/s)	100		152		202		254		304		354	
		MIN MAX THROW MIN MAX	1.0	0.4	1.3	0.9	2.0	1.4	2.3	2.0	2.6	2.2	3.0	2.4
NR LEVEL		1.8 - 0.8		2.6 - 1.8		3.4 - 2.8		4.4 - 4.0		4.8 - 4.4		5.0 - 4.8		
525 x 225	AIR FLOW RATE (l/s)	118		178		236		296		354		414		
	MIN MAX THROW MIN MAX	1.0	0.4	1.4	0.9	2.0	1.4	2.4	2.0	2.7	2.2	3.4	2.4	
	NR LEVEL	2.0 - 0.3		2.8 - 1.8		4.0 - 2.8		4.6 - 4.0		5.2 - 4.4		6.3 - 4.8		
375 x 300	AIR FLOW RATE (l/s)	112		168		226		280		338		394		
	MIN MAX THROW MIN MAX	0.9	0.8	1.3	1.2	2.0	1.6	2.2	2.1	2.5	2.3	2.9	2.7	
	NR LEVEL	1.8 - 1.6		2.6 - 2.4		4.0 - 3.2		4.4 - 4.2		5.0 - 4.6		5.8 - 5.4		
450 x 300	AIR FLOW RATE (l/s)	136		202		270		338		406		472		
	MIN MAX THROW MIN MAX	1.0	0.8	1.4	1.2	2.1	1.6	2.3	2.1	2.7	2.3	3.3	2.7	
	NR LEVEL	2.0 - 1.6		2.8 - 2.4		4.2 - 3.2		4.6 - 4.2		5.4 - 4.6		6.6 - 5.4		
525 x 300	AIR FLOW RATE (l/s)	158		236		316		394		472		552		
	MIN MAX THROW MIN MAX	1.1	0.8	1.4	1.2	2.1	1.6	2.4	2.1	2.8	2.3	3.5	2.7	
	NR LEVEL	2.2 - 1.6		2.8 - 2.4		4.2 - 3.2		4.8 - 4.2		5.6 - 4.6		7.0 - 5.4		
525 x 375	AIR FLOW RATE (l/s)	196		296		394		492		590		690		
	MIN MAX THROW MIN MAX	1.1	0.9	1.5	1.3	2.1	2.0	2.4	2.2	3.0	2.4	3.6	3.0	
	NR LEVEL	2.2 - 1.8		3.0 - 2.6		4.2 - 4.0		4.8 - 4.4		6.0 - 4.8		7.2 - 6.2		
525 x 450	AIR FLOW RATE (l/s)	236		354		472		590		708		826		
	MIN MAX THROW MIN MAX	1.1	1.0	1.5	1.4	2.2	2.1	2.4	2.3	3.0	2.8	3.7	3.5	
	NR LEVEL	2.2 - 2.0		3.0 - 2.8		4.4 - 4.2		4.8 - 4.6		6.0 - 5.6		7.4 - 7.0		

Multicore diffusers

PERFORMANCE DATA

EXTRACT PERFORMANCE DATA	WITHOUT OB	Pt Total Pressure (Pa)	3	6	10	17	24	32
	DAMPER	NR Level	+3	+3	+3	+3	+4	+5
	WITH OB	Pt Total Pressure (Pa)	3	6	11	19	27	35
	DAMPER	NR Level	+3	+4	+4	+5	+8	+8

THROWS Maximum and minimum throws are based on jet terminal velocities (V_t) of 0.25m/s and 0.75m/s respectively and correspond to average room air velocities (V_r) of 0.1 and 0.25m/s with a temperature differential of 11°C and a room height of 2.7m.

Where the application height differs from this, throw selections should be adjusted accordingly, that is increasing the throw by 1m for every 1m increase in height.

NOISE LEVELS Noise data is expressed in terms of NR level with a room absorption factor of 8db.

Where dampers are fitted to the diffuser some allowance should be made for open or partially throttled blades. Guidance on potential damper noise generation is given on page 7 of SECT 1 Aluminium Grilles **PART A**.

basis of data

Multicore diffusers

PERFORMANCE DATA

throw data

NON STANDARD DIFFUSER SIZES.

The chart below can be used to establish throw data for larger sizes of diffuser up to a maximum neck size of 900mm.

(Note, neck sizes are limited to increments of 75mm due to the 38mm core blade pitch. ie 675mm, 750mm etc).

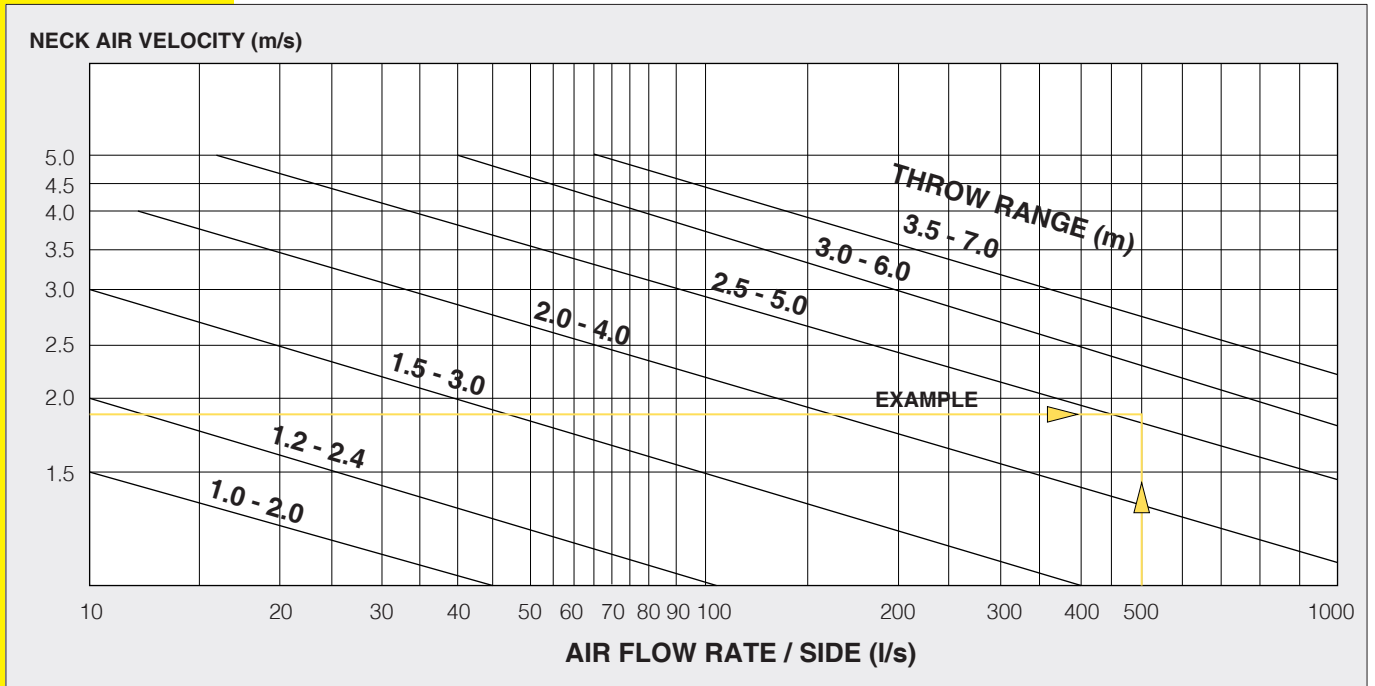
To determine the throw for a particular size of diffuser, firstly calculate the air flow rate on each active side and the neck air velocity. (For rectangular sizes, proportion the flow according to the ratio of the neck dimensions).

Using these two values, the maximum and minimum throw range can then be read from the chart.

example

To find the throw for a 900mm square IC3 diffuser at an air flow rate of 1500l/s, the neck air velocity, $V_n + 1.5 / 0.81 = 1.85\text{m/s}$, and the air flow rate on each active side is $1500 / 3 = 500\text{ l/s}$. At the intersect of the two lines, the indicated throw range is 2.5 - 5.0m.

throw range



Multicore diffusers

PERFORMANCE DATA

NON STANDARD DIFFUSER SIZES

To find the noise level for larger diffuser sizes, use the calculated neck air velocity to find the base noise level from figure 1, and the neck area in conjunction with figure 2 to find the area addition.

For a 900mm square IC diffuser handling 1500 l/s, the base noise level is NR27 with an area addition of 3.5 ie NR30.5.

noise data

example

figure 1

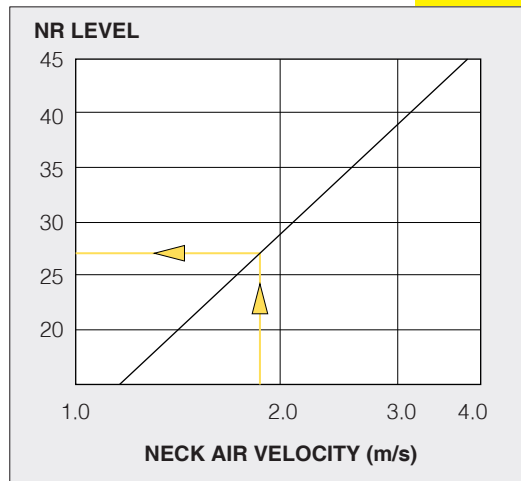


figure 2

