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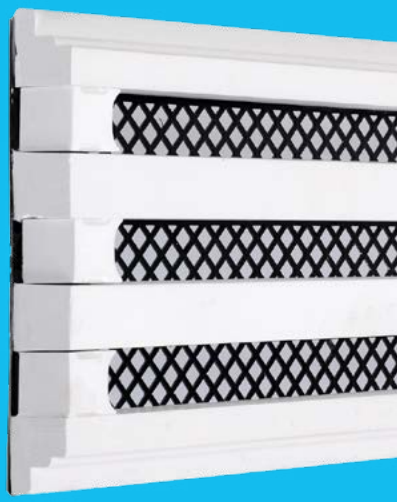
VENTMANN

Frameless Gypsum Diffusers



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PRODUCT DATA SHEET

1 YR WARRANTY

VENTMANN PCIRCLE DIFFUSER

Overview

The Ventmann PCIRCLE vent diffuser is a highly versatile solution suitable for any room type and interior design style. Its adaptability and ability to blend in seamlessly with its surroundings make it our most popular model.

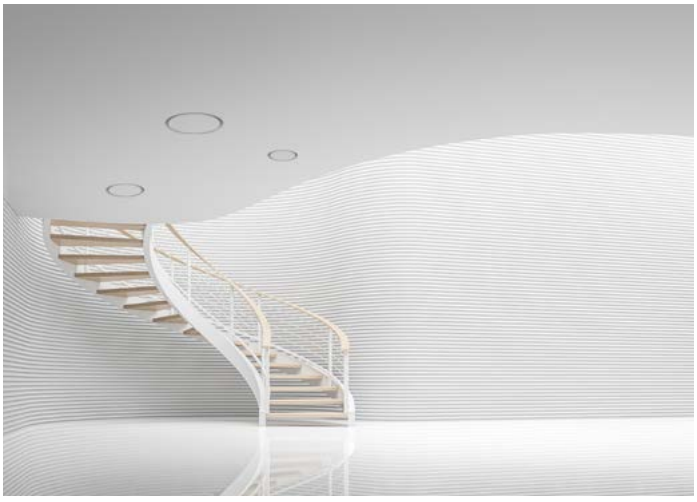
This diffuser can be plastered together with the wall or ceiling, and can be painted with the same finish for a cohesive look. The diffuser cap is secured using a new Click system. It simplifies installation, offers a higher operating temperature range, and is more environmentally friendly than the magnetics previously used.

Slot Types

1 slot or 2 slot options

Connection Diameters

100mm/125mm, 160mm, and 200mm



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CIRCLE Diffuser 1 slot

PCIRCLE Diffuser 1 slot

PCIRCLE Diffuser 2 slot

Technical Data

Supply Air Data

Size (mm)	Ak (m^2)	Airflow m^3/h	60	80	100	160	200	300	400	500	600	700
CIRCLE 100/125	0,00589	X (m)	2.9	3.9	4.9	7.8	9.8					
		PT (Pa)	12	22	34	84	149					
		SPLA (dB(A))	<20	<22	<20	21	25					
PCIRCLE 125	0,0445	X (m)	0.9	1.2	1.5							
		PT (Pa)	18	34	62							
		SPLA (dB(A))	<20	<20	<20							
PCIRCLE 160-1	0,00939	X (m)		0.6	0.7	1.2	1.5	1.5	3			
		PT (Pa)		4	7	20	32	32	145			
		SPLA (dB(A))		<20	<20	<20	<20	<20	32			
PCIRCLE 160-2	0,0143	X (m)			0.5	0.9	1.1	1.6	2.2	2.7	3.2	
		PT (Pa)			3	5	7	17	32	52	77	
		SPLA (dB(A))			<20	<20	<20	<20	25	30	34	
PCIRCLE 200-1	0,0109	X (m)		0.4	0.5	0.8	1	1.5	2.1			
		PT (Pa)		3	5	11	18	41	71			
		SPLA (dB(A))		<20	<20	<20	<20	24	30			
PCIRCLE 200-2	0,0174	X (m)			0.4	0.7	0.9	1.3	1.8	2.2	2.6	3.1
		PT (Pa)			2	3	5	10	17	27	39	54
		SPLA (dB(A))			<20	<20	<20	<20	22	27	30	34

Exhaust Air Data

Size (mm)	Ak (m^2)	Airflow m^3/h	60	80	100	160	200	300	400	500	600
CIRCLE 100/125	0.00589	PT (Pa)	12	23	35	87	158				
		SPLA (dB(A))	<20	<20	<20	21	25				
PCIRCLE 125	0.00445	PT (Pa)	17	32	55						
		SPLA (dB(A))	<20	<20	<20						
PCIRCLE 160-1	0.00939	PT (Pa)		8	12	27	42	93			
		SPLA (dB(A))		<20	<20	<20	<20	26			
PCIRCLE 160-2	0.0143	PT (Pa)			5	12	18	38	64		
		SPLA (dB(A))			<20	<20	<20	<20	25		
PCIRCLE 200-1	0.0109	PT (Pa)		4	6	14	21	47			
		SPLA (dB(A))		<20	<20	<20	<20	24			
PCIRCLE 200-2	0.0174	PT (Pa)			2	6	9	21	35	53	84
		SPLA (dB(A))			<20	<20	<20	<20	22	27	30

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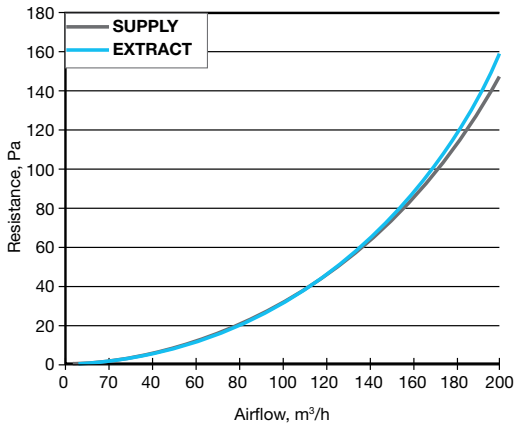
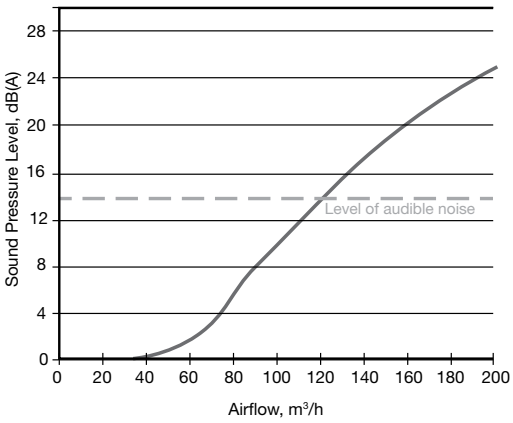
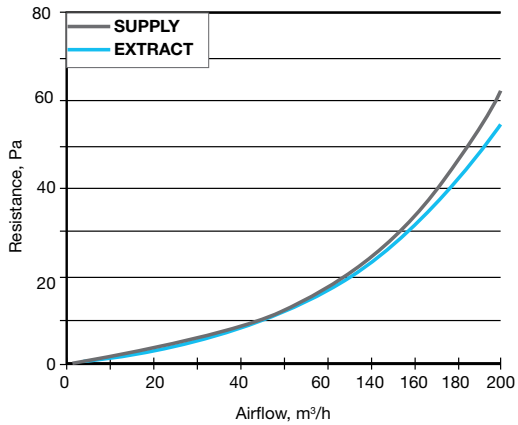
Performance Curves

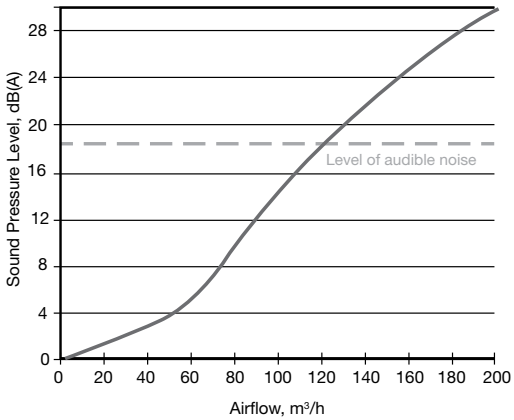
CIRCLE 100/125



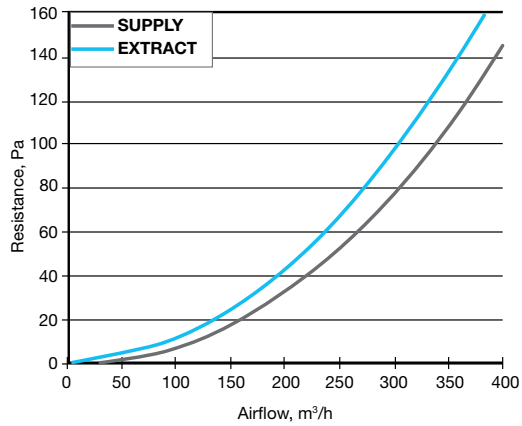


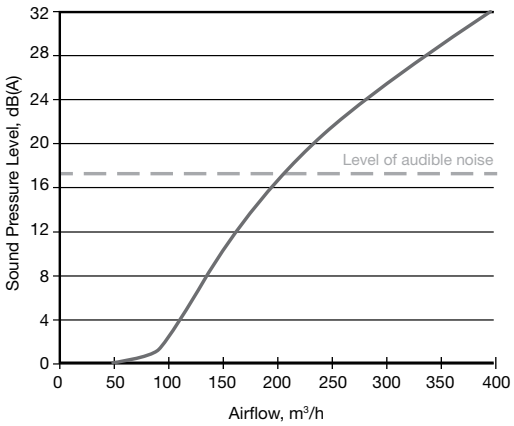
PCIRCLE 100/125





PCIRCLE 1601





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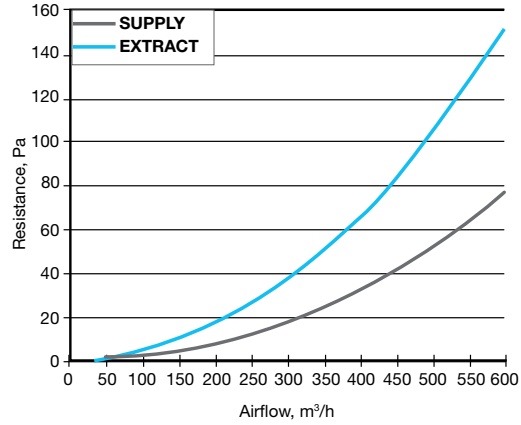

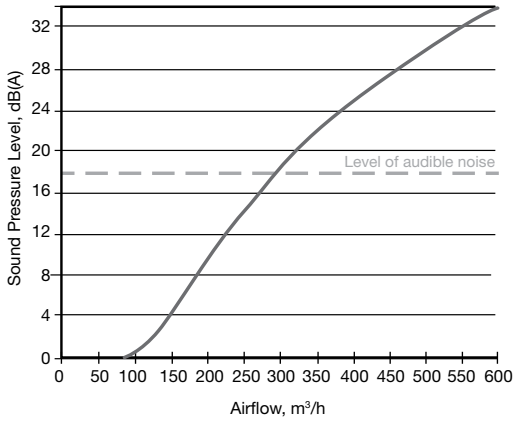

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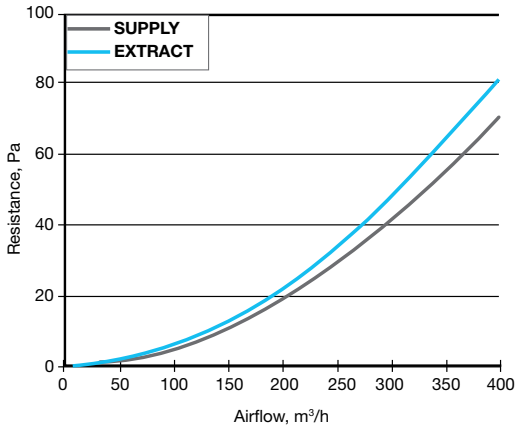
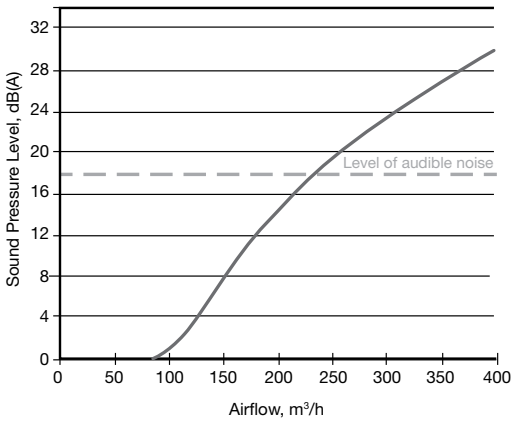
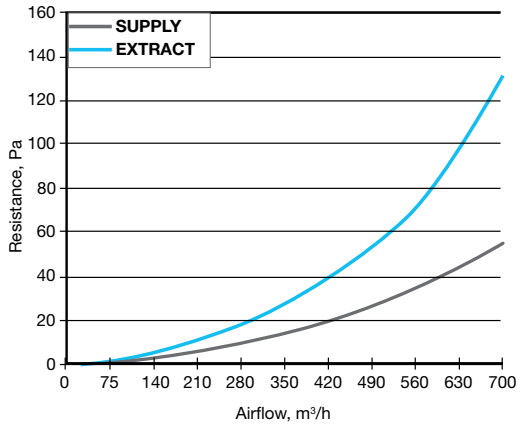
Performance Curves

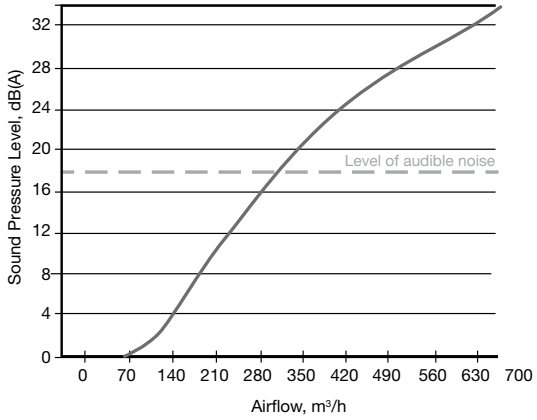
PCIRCLE 2001





PCIRCLE 2002





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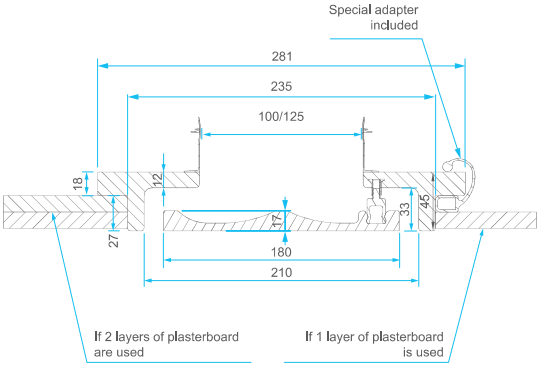
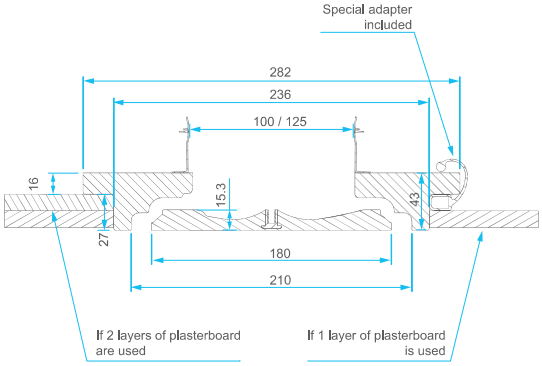
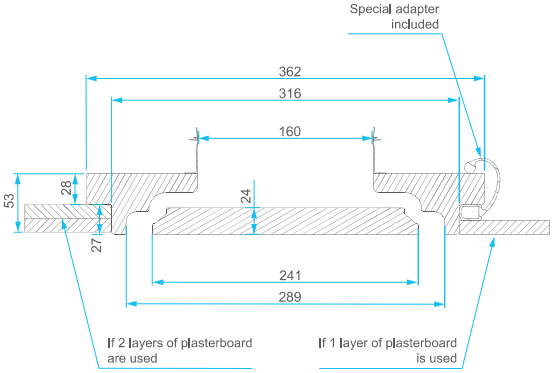
CIRCLE 100/125



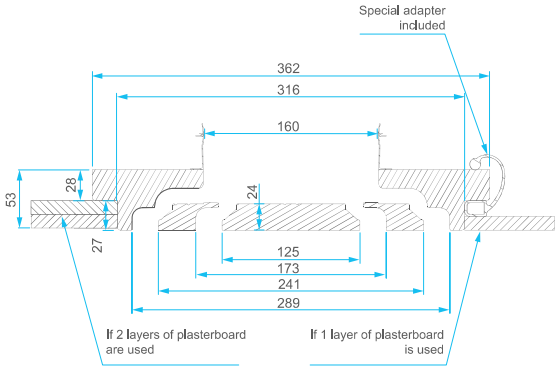
PCIRCLE 100/125



PCIRCLE 1601



PCIRCLE 1602



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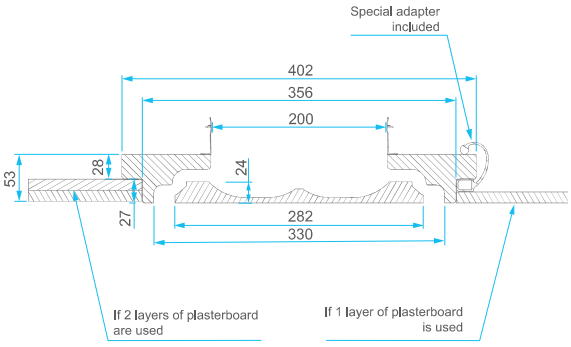

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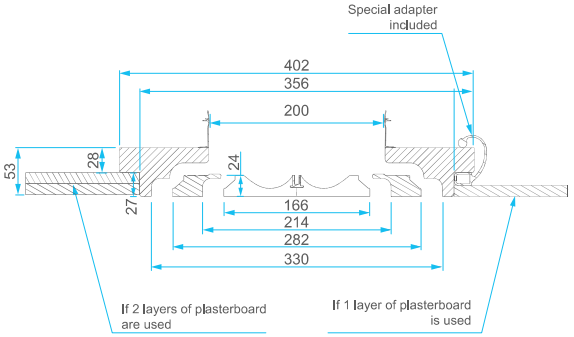

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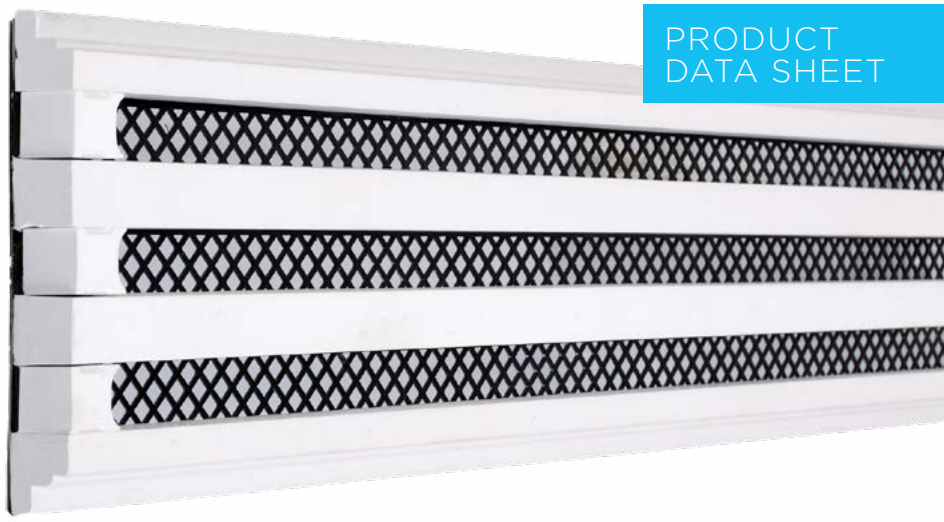
PRODUCT DATA SHEET



1 YR WARRANTY

VENTMANN PLINE DIFFUSER

Overview

The Ventmann PLINE vent diffuser combines an elegant and adaptable design with specially engineered airflow performance that utilises the Coanda effect, making it ideal for air conditioning applications. This innovative model allows you to create distinctive interior designs while seamlessly concealing the diffuser and minimising direct airflow onto occupants.

The diffuser can be painted with the same finish as the surrounding surfaces, eliminating the need for visible frames. The connections used are simple and unobtrusive, and installation does not require lowering the ceiling height.

Slot Types

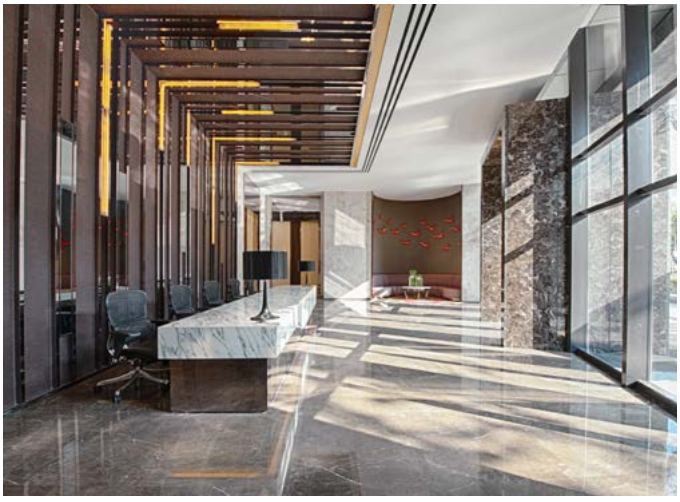
1 slot, 2 slot, or 3 slot options

Connection Lengths

625mm, 1000mm and 1250mm

Slot Width

20mm



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1 slot

2 slot

3 slot

Technical Data

Supply Air Data

Length (mm)	No. of Slots	Ak (m^2)	Airflow m^3/h	60	80	100	160	200	300	400	500	600	700	800	900	1000
625	1 Slot	0,00708	X (m)	2.4	3.2	4.0	6.4	8	12.0	16.0	20.0					
			PT (Pa)	1	4	8	21	37	80	145	242					
			SPLA (dB(A))	<20	<20	<20	<20	22	31	37	42					
	2 Slot	0,0142	X (m)	1.9	2.5	2.5	5.0	12.0	16.0	12.5	15.6	18.8				
			PT (Pa)	1	2	2	11	80	145	65	110	160				
			SPLA (dB(A))	<20	<20	<20	<20	31	37	25	30	34				
	3 Slot	0,0212	X (m)			2.9	4.7	16.0	20.0	11.8	14.7	17.6	20.6			
			PT (Pa)			2	5	145	242	27	42	61	79			
			SPLA (dB(A))			<20	<20	37	42	<20	23	27	30			
1000	1 Slot	0,0116	X (m)			3	4.9	6.1	9.1	12.2	15.2					
			PT (Pa)			2	11	17	39	72	112					
			SPLA (dB(A))			<20	<20	<20	22	29	34					
	2 Slot	0,0232	X (m)			2.3	3.7	4.7	7	9.3	11.6	14	16.3			
			PT (Pa)			2	4	7	16	27	43	63	93			
			SPLA (dB(A))			<20	<20	<20	<20	<20	22	25	29			
	3 Slot	0,0348	X (m)			1.5	2.5	3.1	4.6	6.2	7.7	9.2	10.8	12.3	13.8	15.4
			PT (Pa)			1	2	3	7	13	21	30	40	52	63	77
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	<20	22	25	27	30
1250	1 Slot	0,0146	X (m)			2.9	4.5	5.8	8.7	11.6	14.5					
			PT (Pa)			2	8	11	26	46	73					
			SPLA (dB(A))			<20	<20	<20	<20	25	30					
	2 Slot	0,0292	X (m)			2.2	3.5	4.3	6.5	8.6	10.8	12.9	15.1			
			PT (Pa)			2	4	6	11	20	32	46	63			
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	21	25			
	3 Slot	0,0438	X (m)			1.2	2.0	2.5	3.7	4.9	6.2	7.4	8.6	9.9	11.1	12.3
			PT (Pa)			1	2	3	6	10	16	22	29	37	45	55
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	<20	<20	21	23	26

X(m) - Throw distance (0.25m/s)
Pt (Pa) = Pressure drop in the diffuser
SPLA (dB(A)) - Sound pressure level at 1m distance from the diffuser
Ak (m^2) - Effective area
1 m^3/hr = 0.277777778 L/s

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Exhaust Air Data

Length (mm)	No. of Slots	Ak (m^2)	Airflow m^3/h	60	80	100	160	200	300	400	500	600	700	800	900	1000
625	1 Slot (no deflector)	0,0118	PT (Pa)		1	2	11	19	44	78	123					
			SPLA (dB(A))		<20	<20	<20	<20	22	28	33					
	1 Slot (perforated deflector)	0,00886	PT (Pa)		2	6	17	28	61	105	171					
			SPLA (dB(A))		<20	<20	<20	<20	27	33	38					
	1 Slot (with deflector)	0,0071	PT (Pa)	2	6	12	39	65	149	303						
			SPLA (dB(A))	<20	<20	<20	<20	22	31	37						
	2 Slot (no deflector)	0,0236	PT (Pa)			1	2	5	12	21	33	46	64			
			SPLA (dB(A))			<20	<20	<20	<20	<20	21	25	29			
	2 Slot (perforated deflector)	0,0177	PT (Pa)		1	2	4	7	17	29	45	64	94			
			SPLA (dB(A))		<20	<20	<20	<20	<20	21	26	30	34			
	2 Slot (with deflector)	0,0142	PT (Pa)	1	4	6	16	27	63	120	190					
			SPLA (dB(A))	<20	<20	<20	<20	<20	<20	25	30					
	3 Slot (no deflector)	0,0354	PT (Pa)				2	4	7	12	18	25	34	44		
			SPLA (dB(A))				<20	<20	<20	<20	<20	<20	21	26		
	3 Slot (perforated deflector)	0,0266	PT (Pa)		1	2	4	6	9	15	23	32	44			
			SPLA (dB(A))		<20	<20	<20	<20	<20	<20	<20	23	26			
	3 Slot (with deflector)	0,0212	PT (Pa)		2	3	4	9	14	29	49	75	120			
			SPLA (dB(A))		<20	<20	<20	<20	<20	<20	<20	23	26			
1000	1 Slot (no deflector)	0,0193	PT (Pa)				2	6	15	29	44	66	89			
			SPLA (dB(A))				<20	<20	<20	20	25	29	32			
	1 Slot (perforated deflector)	0,0146	PT (Pa)			1	6	9	22	41	66	99				
			SPLA (dB(A))			<20	<20	<20	<20	25	30	34				
	1 Slot (with deflector)	0,0116	PT (Pa)		2	4	17	26	59	112	165					
			SPLA (dB(A))		<20	<20	<20	<20	22	29	34					
	2 Slot (no deflector)	0,0386	PT (Pa)			1	2	3	5	8	12	17	23			
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	<20	20			
	2 Slot (perforated deflector)	0,0291	PT (Pa)			2	3	4	7	12	18	25	35			
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	22	25			
	2 Slot (with deflector)	0,0232	PT (Pa)		1	3	7	12	25	43	67	99	153			
			SPLA (dB(A))		<20	<20	<20	<20	<20	<20	22	25	29			
	3 Slot (no deflector)	0,0579	PT (Pa)				2	4	7	12	18	25	34	45		
			SPLA (dB(A))				<20	<20	<20	<20	<20	<20	<20	<20		
	3 Slot (perforated deflector)	0,0437	PT (Pa)		1	2	4	6	9	15	23	32	44			
			SPLA (dB(A))		<20	<20	<20	<20	<20	<20	<20	23	26			
	3 Slot (with deflector)	0,0348	PT (Pa)	2	3	4	9	14	29	49	75	120				
			SPLA (dB(A))	<20	<20	<20	<20	<20	<20	<20	23	27				
1250	1 Slot (no deflector)	0,0243	PT (Pa)				1	2	7	15	25					
			SPLA (dB(A))				<20	<20	<20	<20	21					
	1 Slot (perforated deflector)	0,0202	PT (Pa)			1	2	4	13	25	40					
			SPLA (dB(A))			<20	<20	<20	<20	<20	24					
	1 Slot (with deflector)	0,0146	PT (Pa)			3	7	15	35	65	100					
			SPLA (dB(A))			<20	<20	<20	<20	25	30					
	2 Slot (no deflector)	0,0486	PT (Pa)					1	2	3	5	9	15			
			SPLA (dB(A))					<20	<20	<20	<20	<20	<20			
	2 Slot (perforated deflector)	0,0404	PT (Pa)				1	2	4	7	11	18	29			
			SPLA (dB(A))				<20	<20	<20	<20	<20	<20	<20			
	2 Slot (with deflector)	0,0292	PT (Pa)			1	5	8	17	29	46	65	89			
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	21	25			
	3 Slot (no deflector)	0,0729	PT (Pa)						2	3	4	5	7	9	12	16
			SPLA (dB(A))						<20	<20	<20	<20	<20	<20	<20	<20
	3 Slot (perforated deflector)	0,0606	PT (Pa)						2	3	5	7	9	12	15	20
			SPLA (dB(A))						<20	<20	<20	<20	<20	<20	<20	<20
	3 Slot (with deflector)	0,0438	PT (Pa)			2	3	4	8	15	23	32	42	54	67	82
			SPLA (dB(A))			<20	<20	<20	<20	<20	<20	<20	<20	21	23	26

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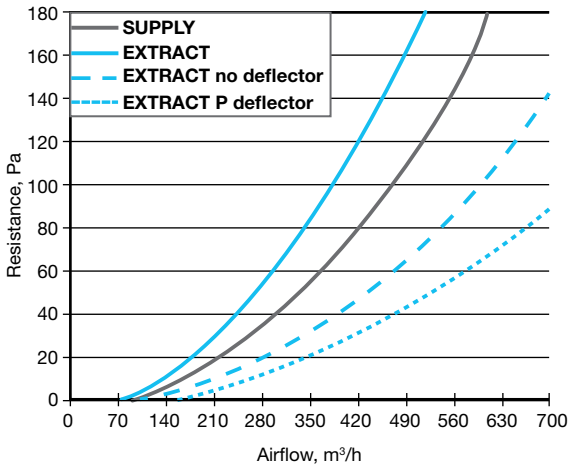
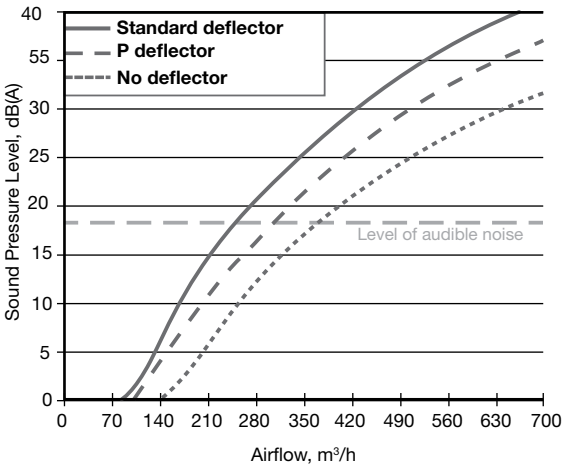
20mm 1 Slot





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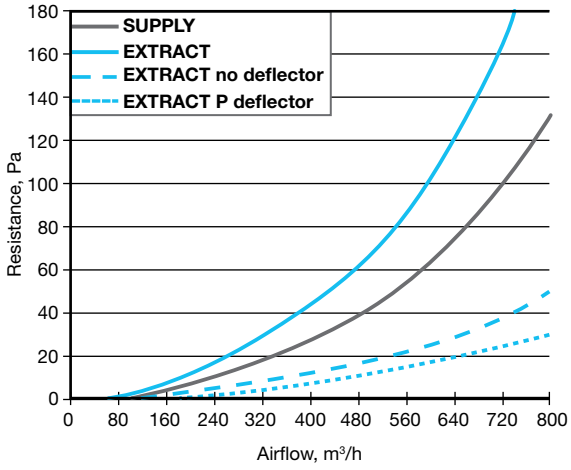
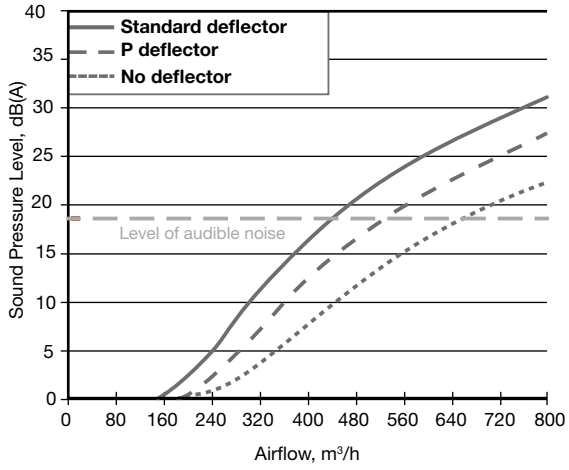
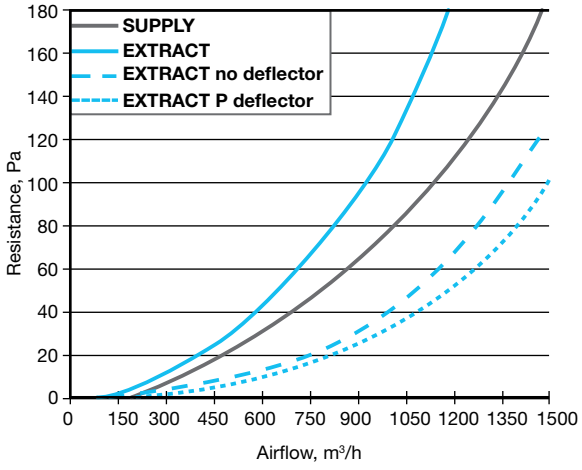
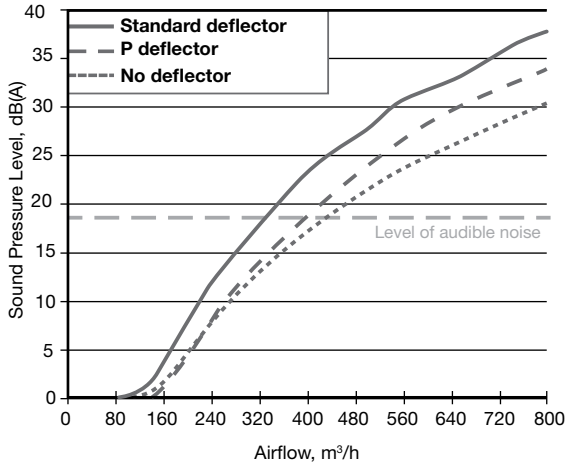




20mm 3 Slot





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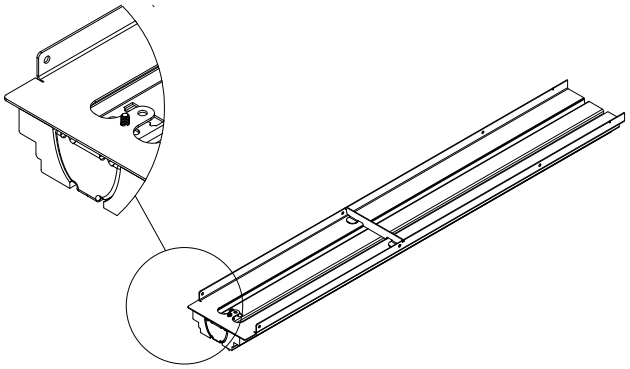
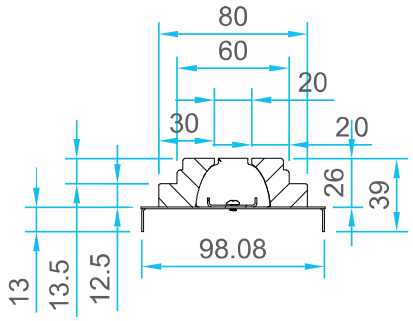
20mm 1 Slot





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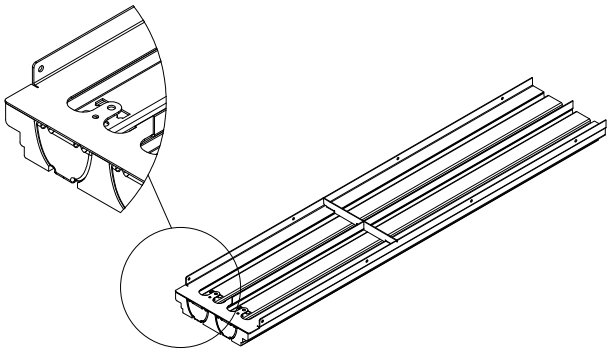

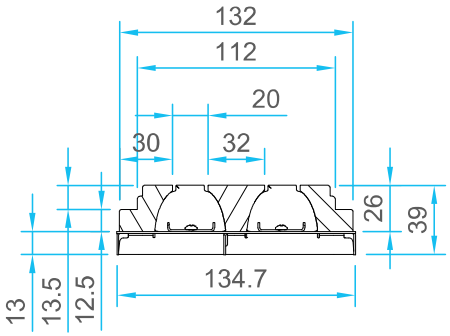

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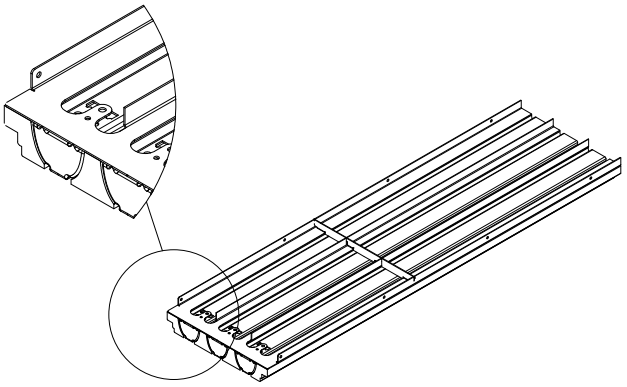

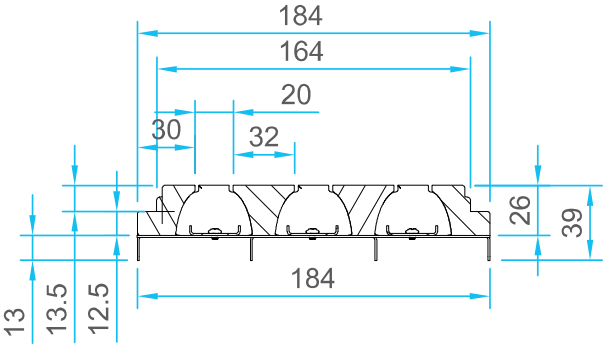

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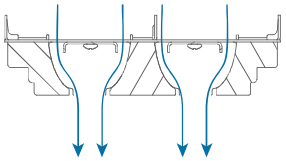
Deflector Options & Air Supply Affect

With Deflector

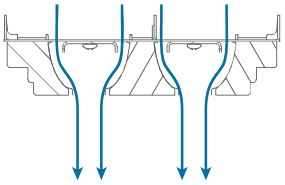
With Perforated Deflector

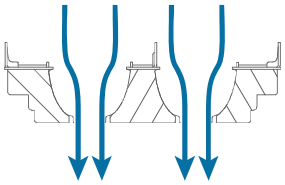
NO Deflector

In centre position

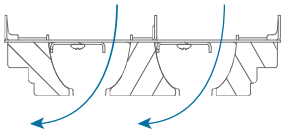


In centre position

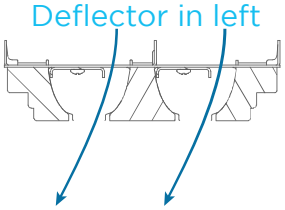




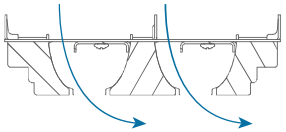
Deflector in left



Deflector in left



Deflector in right



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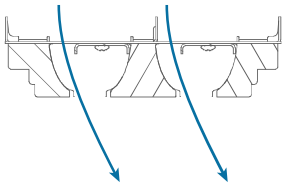
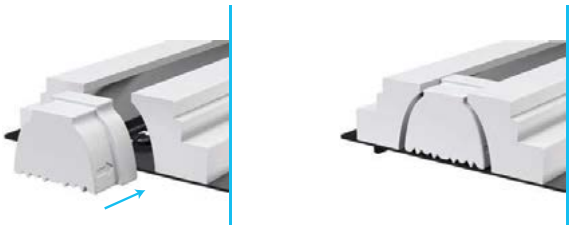


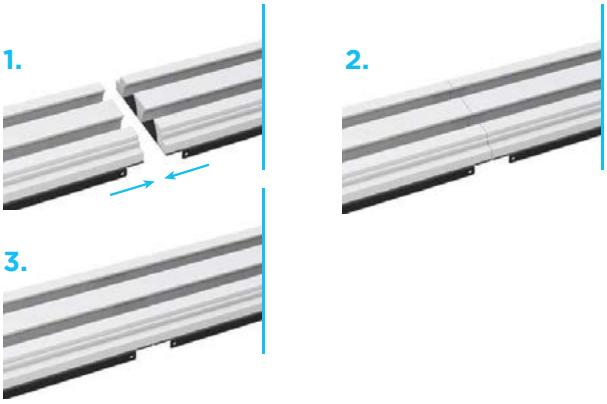
Performance Line Flexibility
Correct End Cap Installation

The indented arrow shows the correct side how the end cap should be inserted.



When installing one continuous line

1. The end caps are not used.
2. Two diffusers are installed to each other with a small invisible gap which is then filled with plaster.
3. After plastering and sanding, you have one continuous line.



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PRODUCT DATA SHEET

1 YR WARRANTY

VENTMANN SQUARE DIFFUSER

Overview

The Ventmann SQUARE vent diffuser is an air distributor with a minimalist interior look. Its precise lines and sharp angles enhance contemporary interiors, while providing effective air distribution in the space.

These diffusers are installed at the same time as the walls and ceilings, and can be painted with the same finish for a cohesive look. The diffuser cap is secured using a new Click system. It simplifies installation, offers a higher operating temperature range, and is more environmentally friendly than the magnetics previously used.

Connection Diameters

100mm or 125mm

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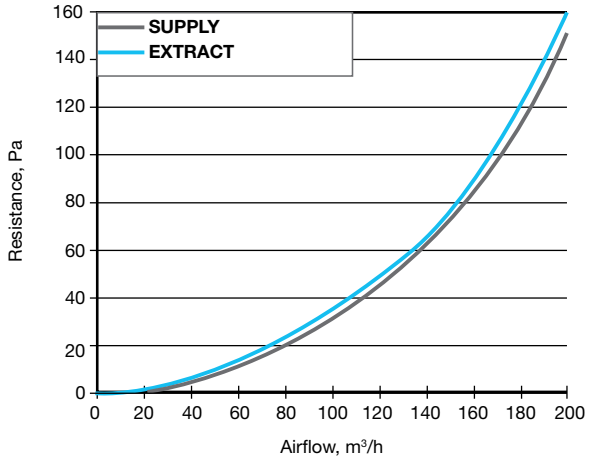
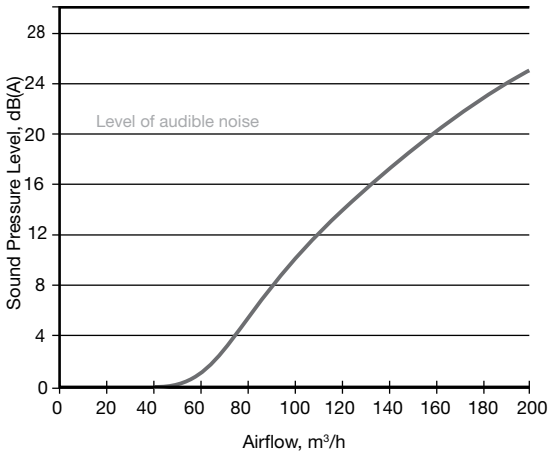
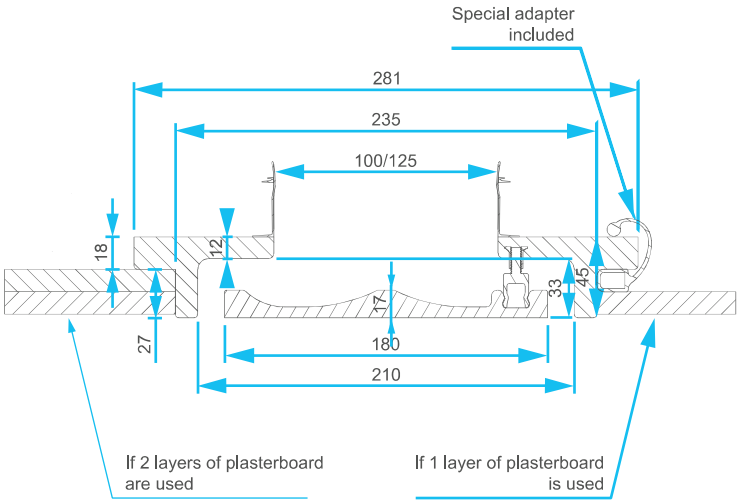
20mm 1 Slot





Product Specifications



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Since 1979, Idealair Group has been a trusted partner for all ventilation needs.

At Idealair Group, we specialise in ventilation, heating, ducting, energy recovery product, and more. Every product in our extensive range is tested and approved to ensure it meets the specified design requirements. Plus, with a complete range of stock readily available at all our branches, we ensure that order collection and delivery are both reliable and convenient.

We pride ourselves on providing tailored, engineered solutions for each customer. Our team of highly trained professionals are committed to offering practical help & advice, while meeting the diverse needs of your projects, from standard to complex applications.

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