VENTUS®
CUSTOM AIR TECHNOLOGIES

MECHANICAL CATALOGUE

Ventus Air
Technical Datasheets:
Precision for Every Project

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GENERAL INFORMATION

Advantages - PVC Material

Condensation: Our products have insulating properties, helping to reduce heat and cooling loss, and providing a solution against condensation.

Insulation: Excellent insulating properties, helping to prevent heat and cooling loss.

Durability: Resistant to moisture, mold, fungi, and bacteria. Our products are ideal for use in wet, interior and exterior conditions.

Easy Processing: Our products can be easily cut, drilled, integrated, and shaped with simple hand tools, making them ideal for DIY and customized applications.

Lightweight: Our material is significantly lighter than metal or gypsum materials, making it easier to transport and install.

Low Cost: Our air grille systems have integrated plenum box and are ready to be installed compared to metal grilles, making them an affordable option for the projects.

Recyclable: Our products contain recyclable material, contributing to the reduction of environmental impact. Choosing our products can significantly help in achieving points for LEED, BREEAM, and GSAS certification, which are important certifications for the projects nowadays.

Fire Specifications

Fire behaviour:	Class A1	(highest level)
	Class A2	(not burnable materials)
	Class B	**(inflammable materials)**
	Class C	(normal flammable materials)
	Class D	(normal flammable materials)
	Class E	(normal flammable materials)
	Class F	(not classified materials)
Smoke development:	**Class S1**	**(Very limited smoke development)**
	Class S2	(Limited smoke development)
	Class S3	(no demands on smoke development)
Burning droplets:	**Class d0**	**(No burning droplets or particles)**
	Class d1	(limited burning droplets)
	Class d2	(no demands on burning droplets)

EURO AIR — Euro Air Textile Materials (HDC and DFC-line) are certified and approved according to: **B-s1, d0**

Fire Classification per Country

Country	Tested according to..	Classification
EU	EN 13501-1	Class B-S1, d0
Germany	DIN EN 13501-1 DIN 4102	Class B-S1, d0 Class B1 (flame retardant)
Austria	ÖNORM EN 13501-1 ÖNORM b 3800	Class B-S1, d0 Q1 (limited smoke development
Holland	NEN EN 13501-1	Class B-S1, d0
France	NFP 92501-1	M1 (Non-combustible)
England	BS 476, Part 6 MoD HH52/92	Class 1 (expected to pass) Passed
USA (Underwriters lab.)	NFPA 90A-1993	< 25 Smoke developed index < 50 Passed

Technical Specifications

Property	Test Method	Units	Value
Density	DIN 53479	g/cm3	0.55
Hardness	DIN 53505	Shore 'D'	≥ 42
Water Absorption	DIN 53495	%	≤ 1.0
Tensile strength*	DIN 53455	MPa	≥ 15
Elongation at break**	DIN 53455	%	≥ 15
Modulus of elasticity	DIN 53457	MPa	900 - 1500
Impact strength Izod	ASTM D 256	KJ/ m²	≥ 9.0
Impact strength Charpy	DIN 53253	KJ/ m²	≥ 15
Flexural strength	DIN 53452	MPa	> 32
Compressive Strength at 10% Deformation	DIN 53421	MPa	> 6.5
Surface resistivity	ASTM D 257	Ω	> 1 x 10^{14}
Volume resistivity	ASTM D 257	Ω-cm	> 1 x 10^{15}
Dielectric Constant at 1 MHZ	ASTM D 150	F/m	1.56
Dielectric strength	DIN 53481	KV / cm	≥ 90
Vicat softening temperature	DIN 53460	°C	≥ 73
Heat Defl ection temperature @ 1.8 MPa	DIN 53461	°C	58
Coeffi cient of Linear Expansion	DIN 53752	mm / m °C	0.08
Thermal conductivity	**DIN 52616**	**W / m K**	**0.05**
Flammability	**EN 13501-1**	**FIGRA 0,2 (W/s) FIGRA 0,4 (W/s)**	**Class B**
Smoke Production	**EN 13501-1**	**SMOGRA (m²/s)**	**Class s1**
Flaming Droplets	**EN 13823**	**pc**	**Class d0**

* 15 MPa for free foam sheet with typical density 0.7 g/cc
* 13 MPa for free foam sheet with typical density 0.55 g/cc

** 15% for free foam sheet with typical density 0.7 g/cc
** 13% for free foam sheet with typical density 0.55 g/cc

C2020 SUPPLY & RETURN

C2020®
CANYON LINE BY VENTUS AIR

Diffuser System - One Slot Grille

Description:

The C2020 Supply or Return system is a **single-slot grille system featuring an integrated plenum box** designed for efficient air supply and/or return. It is available in 30 mm and 40 mm slot sizes, with adjustable configurations to 20 mm, 25 mm, or 50 mm, providing flexibility for optimal air distribution or return. The system is engineered to integrate seamlessly with ceilings or walls, ensuring both functional performance and aesthetic alignment.

Product Specifications & Installation

Material:

The C2020 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Air Deflector:

The C2020's vertically adjustable air deflector provide precise airflow control and improve distribution efficiency.

Installation

The system is **fully compatible with a wide range of wall and ceiling materials**, including wood, brick, drywall, and double-layer drywall. Its **lightweight** construction allows for easy handling and tool-free installation, with no additional structural support required. Additionally, the system's surface can be painted or finished to match surrounding textures or materials, such as wood grain or custom colors, ensuring **seamless aesthetic integration**.

Slot Width:

The C2020 Supply is available in 30 mm and 40 mm slot widths, with adjustable configurations to 20 mm, 25 mm, or 50 mm, offering flexibility to meet various airflow requirements. This adaptability ensures optimal air distribution and allows for seamless integration with both ceiling and wall installations.

Standard Length:

The C2020 system is available in standard lengths of 500 mm, 1000 mm, 1500mm, 2000 mm, 2500mm and 3000 mm, providing flexibility for a wide range of installation requirements. Additionally, the use of end caps allows for on-site length adjustment, enabling **precise fitting during installation** without the need for special tools or factory modifications.

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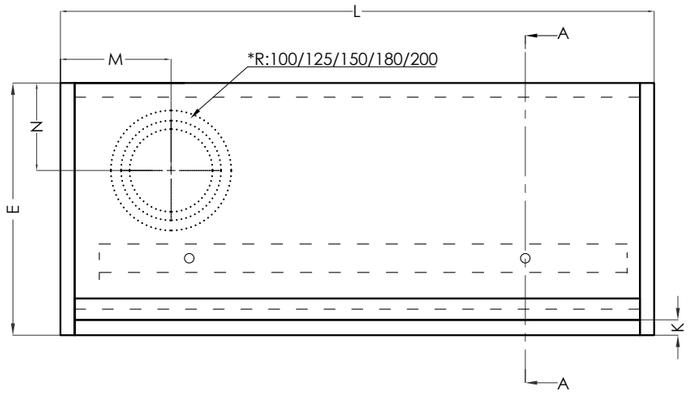
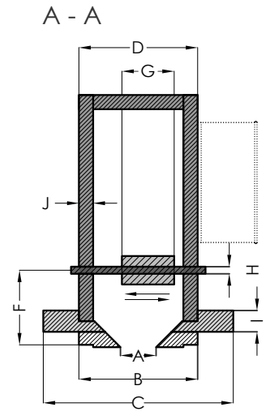
DIFFUSER SYSTEM - ONE SLOT GRILLE

Cross - Section

SIDE VIEW



SECTION VIEW



Dimensions

C2020	A	B	C	D	E	F	G	H	I	J	K
20mm	20mm	90mm	160mm	100mm	213mm	63mm	44mm	24mm	18mm	12mm	13mm
25mm	25mm	95mm	160mm	100mm	213mm	63mm	44mm	24mm	18mm	12mm	13mm
***30mm**	30mm	100mm	160mm	100mm	213mm	63mm	44mm	24mm	18mm	12mm	13mm
***40mm**	40mm	110mm	180mm	120mm	213mm	63mm	44mm	24mm	18mm	12mm	13mm
50mm	50mm	120mm	180mm	120mm	213mm	63mm	44mm	24mm	18mm	12mm	13mm
65mm	65mm	135mm	195mm	135mm	213mm	63mm	71mm	24mm	18mm	12mm	13mm

*30mm and 40mm available in stock

Variable Length

L: Available in 500 / 1000 / 1500 / 2000 / 2500 / 3000 mm

Spigot Selection

***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

Dimensions M and N = Variable. Defined based on the type and position of spigot to be used, according to the client's requirements.

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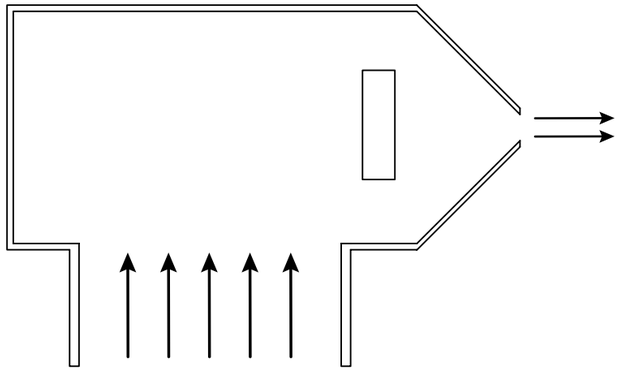
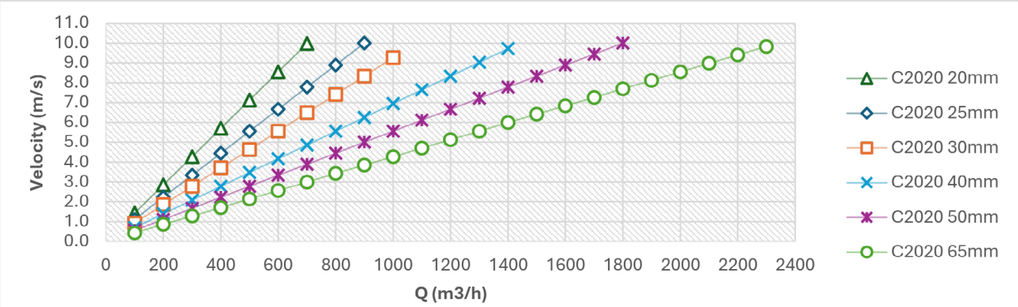
Side Spigot Center Damper Simulation Setup



Velocity



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1.4	2.8	4.3	5.7	7.1	8.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	0.9	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.3	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	6.9	7.6	8.3	9	9.7	-	-	-	-	-	-	-	-	-
50mm	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7	7.2	7.8	8.3	8.9	9.4	10	-	-	-	-	-
65mm	0.4	0.9	1.3	1.7	2.1	2.6	3	3.4	3.8	4.3	4.7	5.1	5.6	6	6.4	6.8	7.3	7.7	8.1	8.5	9	9.4	9.8

Noise Level (DB)

	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	-	15.6	24.4	30.7	35.5	39.5	42.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	11.3	20.1	26.4	31.2	35.2	38.5	41.4	44.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	8.2	17.0	23.2	28.0	32.0	35.4	38.3	40.8	43.1	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	3.2	12.0	18.2	23.1	27.0	30.4	33.3	35.8	38.1	40.2	42.1	43.8	45.4	-	-	-	-	-	-	-	-	-
50mm	-	-	8.1	14.3	19.2	23.1	26.5	29.4	31.9	34.2	36.3	38.2	39.9	41.5	43.0	44.4	45.7	47.0	-	-	-	-	-
65mm	-	-	-	9.8	14.6	18.6	21.9	24.8	27.4	29.7	31.7	33.6	35.4	37.0	38.5	39.9	41.2	42.4	43.6	44.7	45.8	46.8	47.8

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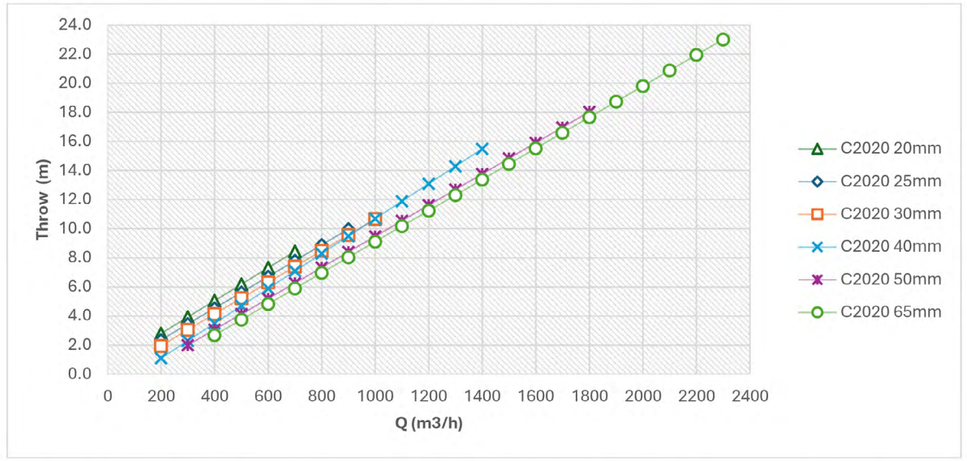
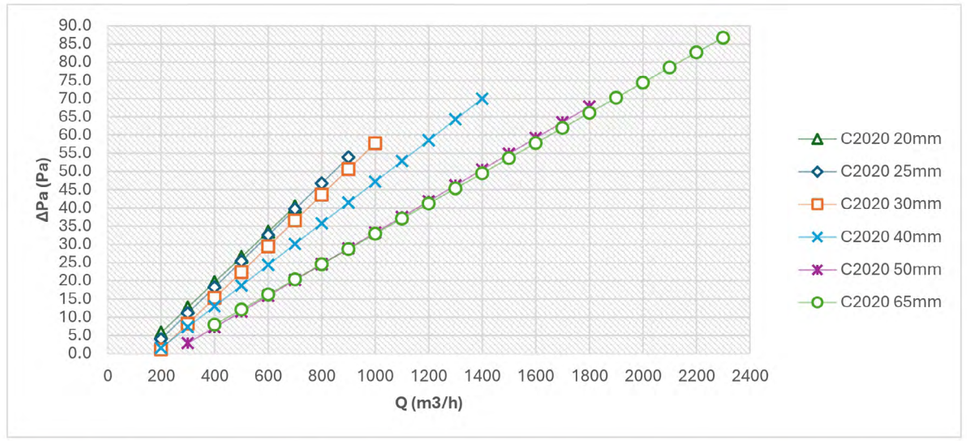
DIFFUSER SYSTEM - ONE SLOT GRILLE

Throw 0.5M/S



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	-	2.8	3.9	5.1	6.2	7.3	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	1.95	3	4.13	5.22	6.31	7.4	8.5	9.6	10.7	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	1.1	2.3	3.5	4.7	5.9	7.1	8.3	9.5	10.7	11.9	13.1	14.3	15.5	-	-	-	-	-	-	-	-	-
50mm	-	-	2	3.1	4.1	5.2	6.3	7.3	8.4	9.5	10.6	11.6	12.7	13.8	14.8	15.9	17	18	-	-	-	-	-
65mm	-	-	-	2.7	3.8	4.8	5.9	7	8	9.1	10.2	11.2	12.3	13.4	14.5	15.5	16.6	17.7	18.7	19.8	20.9	21.9	23

Drop Pressure



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	-	5.8	12.7	19.6	26.6	33.5	40.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	4	11.1	18.3	25.4	32.5	39.6	46.8	53.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	1.15	8.2	15.3	22.4	29.4	36.5	43.6	50.7	57.7	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	1.58	7.28	12.98	18.68	24.38	30.08	35.78	41.48	47.18	52.88	58.58	64.28	69.98	-	-	-	-	-	-	-	-	-
50mm	-	-	2.89	7.22	11.55	15.88	20.21	24.54	28.87	33.2	37.53	41.86	46.19	50.52	54.52	54.84	59.17	63.5	67.83	-	-	-	-
65mm	-	-	-	8	12.1	16.3	20.4	24.6	28.7	32.9	37	41.2	45.3	49.5	53.6	57.8	61.9	66.1	70.2	74.4	78.5	82.7	86.7

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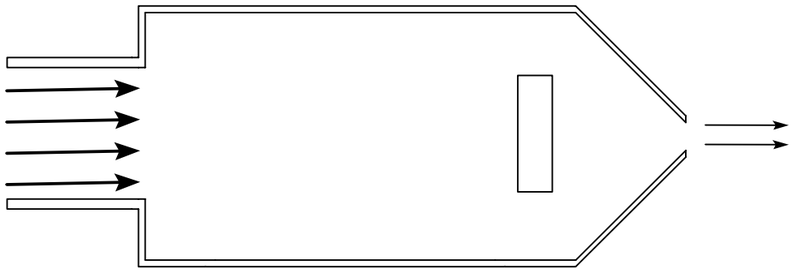
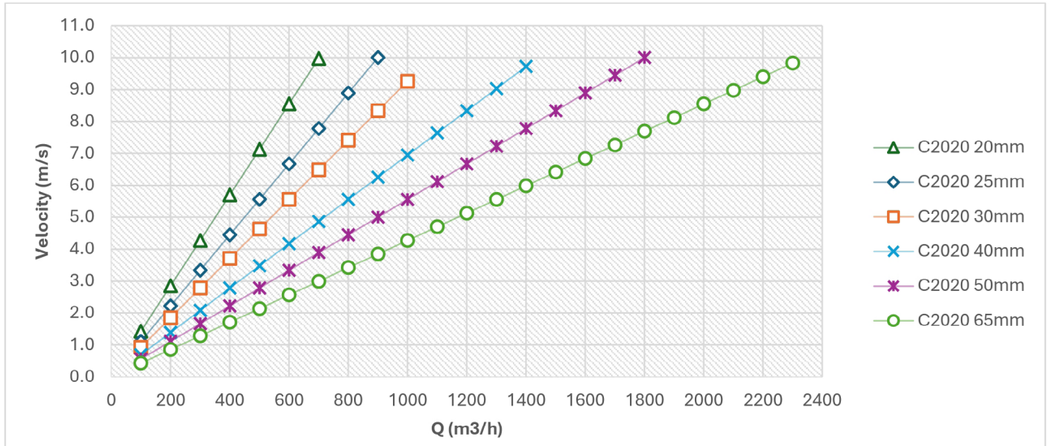
Back Spigot Center Damper Simulation Setup



Velocity



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1.4	2.8	4.3	5.7	7.1	8.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	0.9	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.3	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	6.9	7.6	8.3	9	9.7	-	-	-	-	-	-	-	-	-
50mm	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7	7.2	7.8	8.3	8.9	9.4	10	-	-	-	-	-
65mm	0.4	0.9	1.3	1.7	2.1	2.6	3	3.4	3.8	4.3	4.7	5.1	5.6	6	6.4	6.8	7.3	7.7	8.1	8.5	9	9.4	9.8

Noise Level (DB)

	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	-	15.2	24.0	30.3	35.1	39.1	42.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	11.3	20.1	26.4	31.2	35.2	38.5	41.4	44.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	8.2	17.0	23.2	28.0	32.0	35.4	38.3	40.8	43.1	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	3.2	12.0	18.2	23.1	27.0	30.4	33.3	35.8	38.1	40.2	42.1	43.8	45.4	-	-	-	-	-	-	-	-	-
50mm	-	-	8.1	14.3	19.2	23.1	26.5	29.4	31.9	34.2	36.3	38.2	39.9	41.5	43.0	44.4	45.7	47.0	-	-	-	-	-
65mm	-	-	-	9.8	14.6	18.6	21.9	24.8	27.4	29.7	31.7	33.6	35.4	37.0	38.5	39.9	41.2	42.4	43.6	44.7	45.8	46.8	47.8

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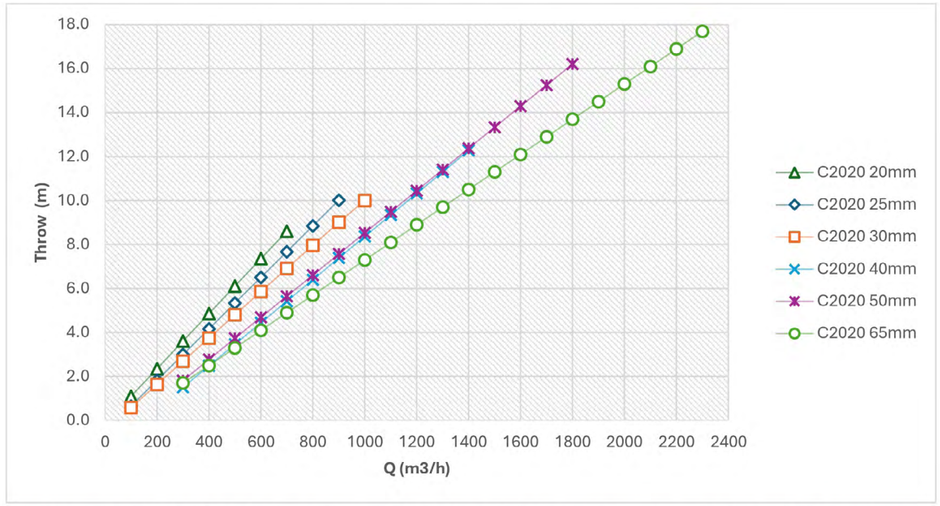
C2020® CANYON LINE BY VENTUS AIR

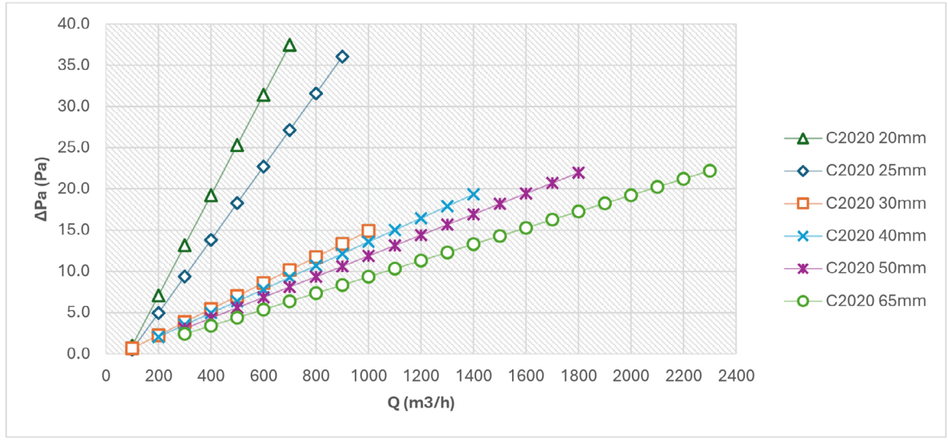
DIFFUSER SYSTEM - ONE SLOT GRILLE

Throw 0.5M/S



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1.1	2.4	3.6	4.9	6.1	7.4	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	0.7	1.82	2.99	4.16	5.33	6.5	7.67	8.84	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	0.6	1.64	2.69	3.75	4.8	5.85	6.9	7.96	9.01	10	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	-	1.5	2.48	3.46	4.44	5.42	6.4	7.38	8.36	9.34	10.32	11.3	12.25	-	-	-	-	-	-	-	-	-
50mm	-	-	1.8	2.8	3.7	4.7	5.6	6.6	7.6	8.5	9.5	10.4	11.4	12.4	13.3	14.3	15.2	16.2	-	-	-	-	-
65mm	-	-	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.1	8.9	9.7	10.5	11.3	12.1	12.9	13.7	14.5	15.3	16.1	16.9	17.7

Drop Pressure



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1	7.08	13.16	19.24	25.32	31.4	37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	0.5	4.94	9.38	13.82	18.26	22.7	27.14	31.58	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	0.7	2.26	3.8	5.4	7	8.6	10.2	11.7	13.3	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	2.06	3.5	4.94	6.38	7.82	9.26	10.7	12.14	13.58	15.02	16.46	17.9	19.34	-	-	-	-	-	-	-	-	-
50mm	-	-	3.1	4.3	5.6	6.8	8.1	9.4	10.6	11.9	13.1	14.4	15.7	16.9	18.2	19.4	20.7	22	-	-	-	-	-
65mm	-	-	2.4	3.4	4.4	5.4	6.4	7.4	8.3	9.3	10.3	11.3	12.3	13.3	14.3	15.3	16.3	17.3	18.2	19.2	20.2	21.2	22.2

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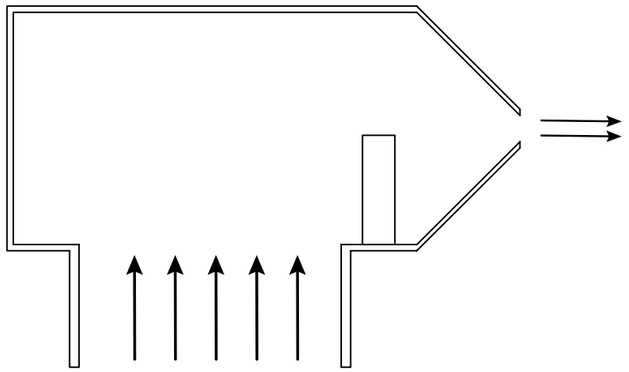
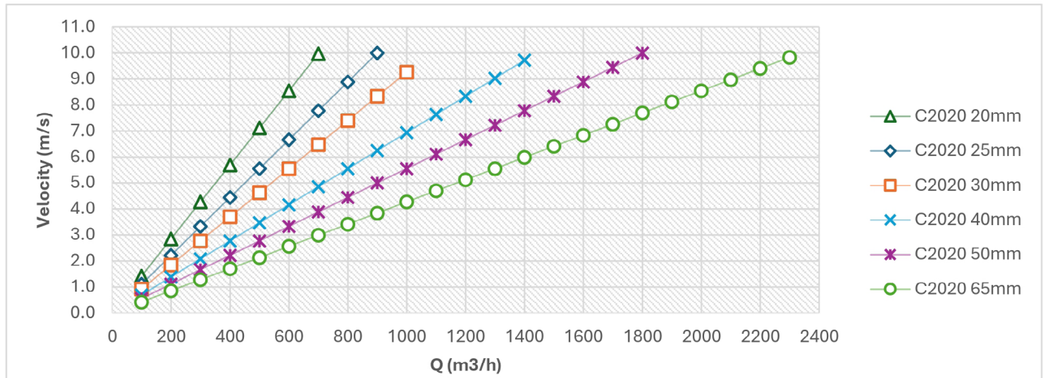
Side Spigot Side Damper Simulation Setup



Velocity



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1.4	2.8	4.3	5.7	7.1	8.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	0.9	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.3	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	6.9	7.6	8.3	9	9.7	-	-	-	-	-	-	-	-	-
50mm	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7	7.2	7.8	8.3	8.9	9.4	10	-	-	-	-	-
65mm	0.4	0.9	1.3	1.7	2.1	2.6	3	3.4	3.8	4.3	4.7	5.1	5.6	6	6.4	6.8	7.3	7.7	8.1	8.5	9	9.4	9.8

Noise Level (DB)

	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	-	15.2	24.0	30.3	35.1	39.1	42.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	11.3	20.1	26.4	31.2	35.2	38.5	41.4	44.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	8.2	17.0	23.2	28.0	32.0	35.4	38.3	40.8	43.1	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	3.2	12.0	18.2	23.1	27.0	30.4	33.3	35.8	38.1	40.2	42.1	43.8	45.4	-	-	-	-	-	-	-	-	-
50mm	-	-	8.1	14.3	19.2	23.1	26.5	29.4	31.9	34.2	36.3	38.2	39.9	41.5	43.0	44.4	45.7	47.0	-	-	-	-	-
65mm	-	-	-	9.8	14.6	18.6	21.9	24.8	27.4	29.7	31.7	33.6	35.4	37.0	38.5	39.9	41.2	42.4	43.6	44.7	45.8	46.8	47.8

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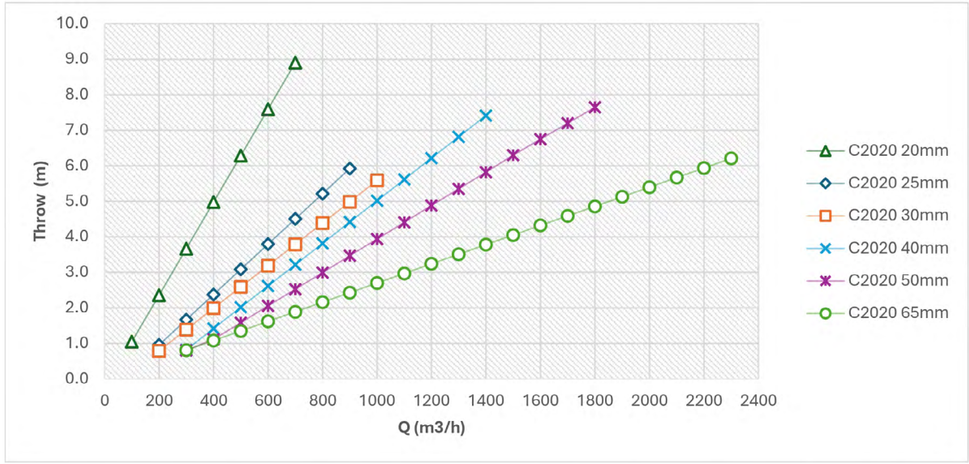
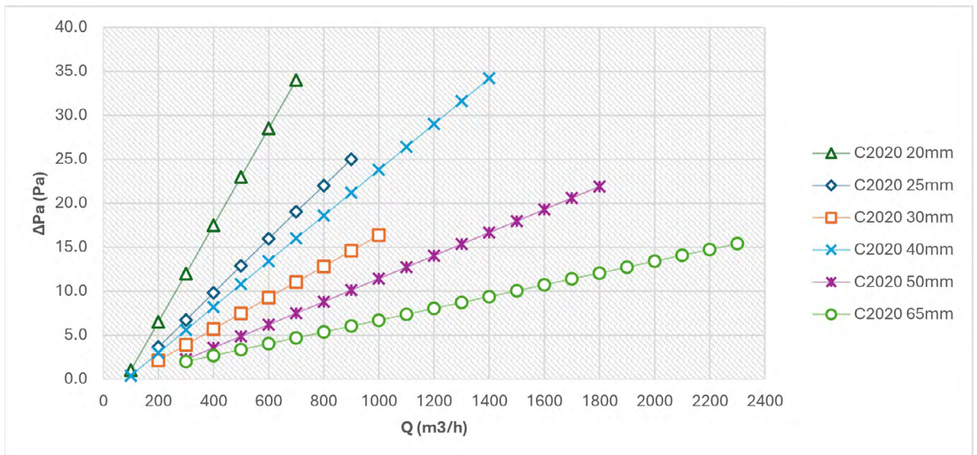
DIFFUSER SYSTEM - ONE SLOT GRILLE

Throw 0.5M/S



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1	2.4	3.7	5	6.3	7.6	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	1	1.7	2.4	3.1	3.8	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	0.79	1.39	1.99	2.59	3.19	3.79	4.39	4.99	5.59	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	-	0.8	1.4	2	2.6	3.2	3.8	4.4	5	5.6	6.2	6.8	7.4	-	-	-	-	-	-	-	-	-
50mm	-	-	0.8	1.1	1.6	2.1	2.5	3	3.5	3.9	4.4	4.9	5.4	5.8	6.3	6.8	7.2	7.7	-	-	-	-	-
65mm	-	-	0.8	1.1	1.4	1.6	1.9	2.2	2.4	2.7	3	3.2	3.5	3.8	4.1	4.3	4.6	4.9	5.1	5.4	5.7	5.9	6.2

Drop Pressure



	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
20mm	1	6.5	12	17.5	23	28.5	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25mm	-	3.6	6.7	9.8	12.9	15.9	19.05	22	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30mm	-	2.14	3.9	5.7	7.5	9.3	11	12.8	14.6	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-
40mm	-	3	5.6	8.2	10.8	13.4	16	18.6	21.2	23.8	26.4	29	31.6	34.2	-	-	-	-	-	-	-	-	-
50mm	-	-	2.3	3.6	4.9	6.2	7.5	8.8	10.1	11.4	12.7	14	15.4	16.7	18	19.3	20.6	21.9	-	-	-	-	-
65mm	-	-	2	2.7	3.4	4	4.7	5.4	6	6.7	7.4	8	8.7	9.4	10.1	10.7	11.4	12.1	12.7	13.4	14.1	14.7	15.4

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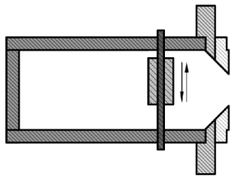
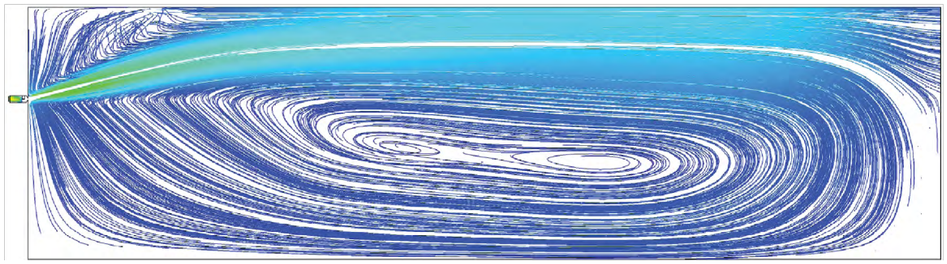
C2020 20MM WALL



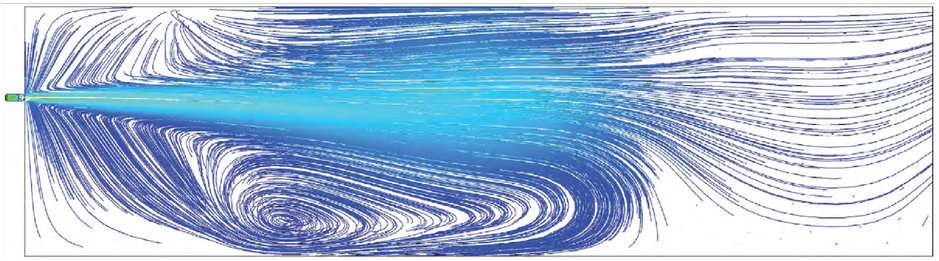
Air Flow Simulations

Regulator Top



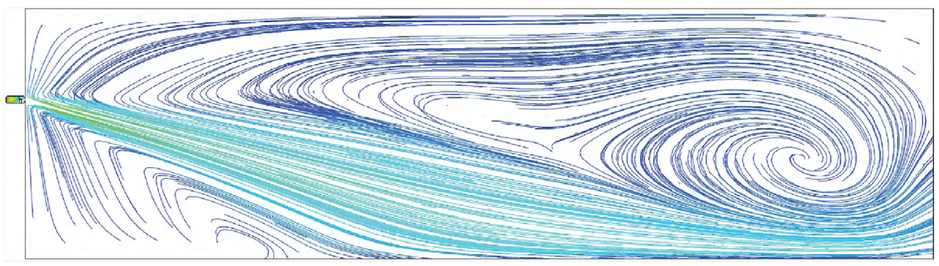
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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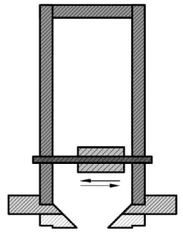
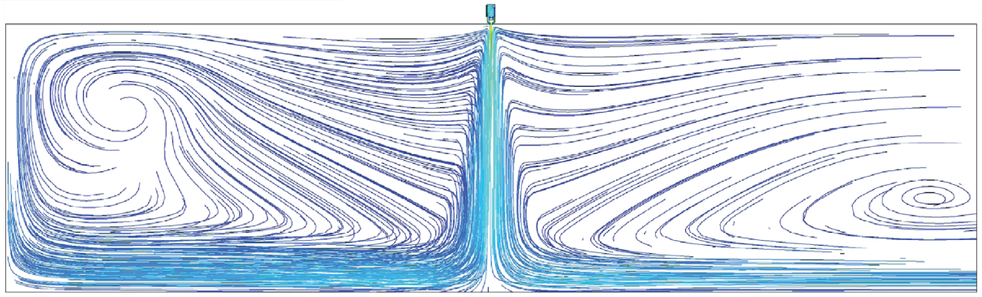
C2020 20MM CEILING



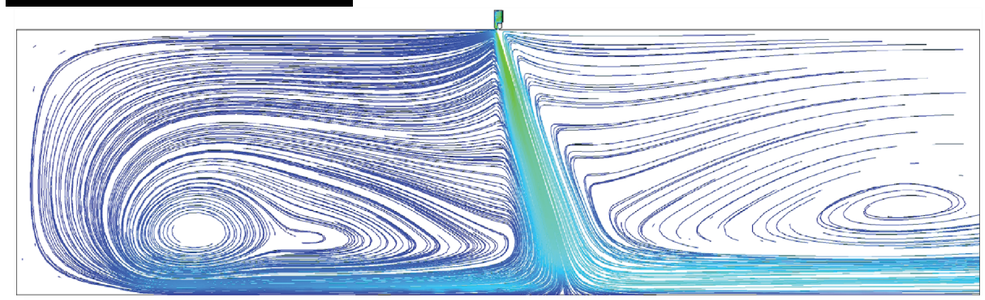
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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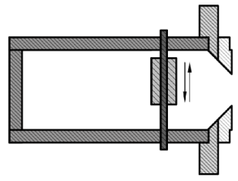
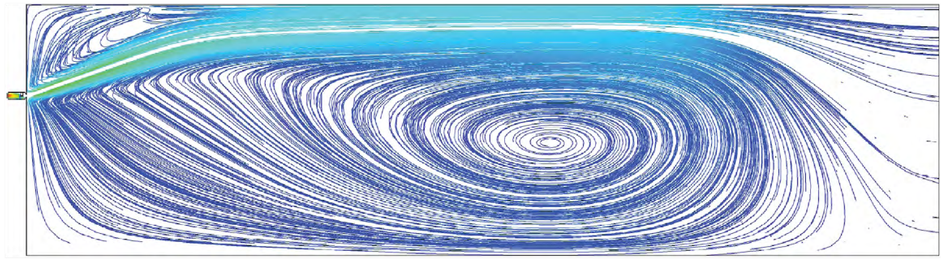
C2020 25MM WALL



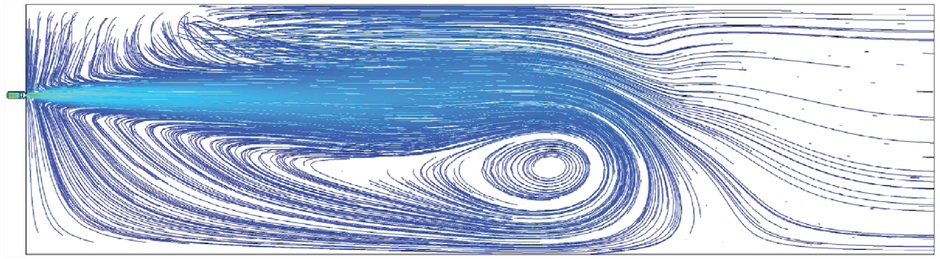
Air Flow Simulations

Regulator Top



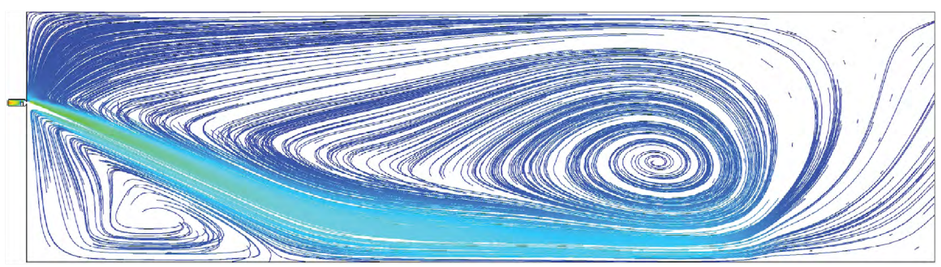
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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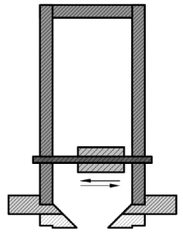
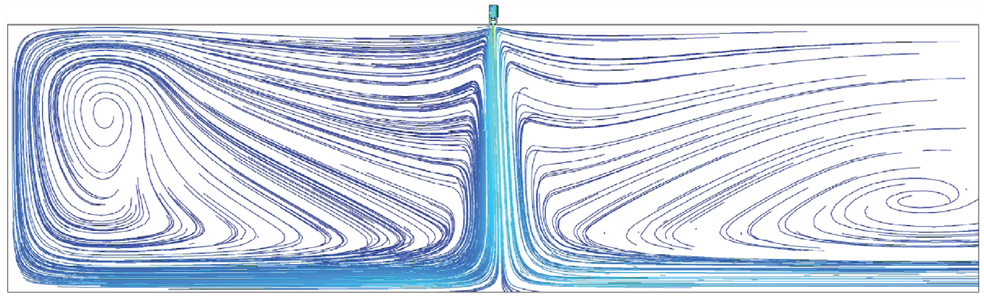
C2020 25MM CEILING



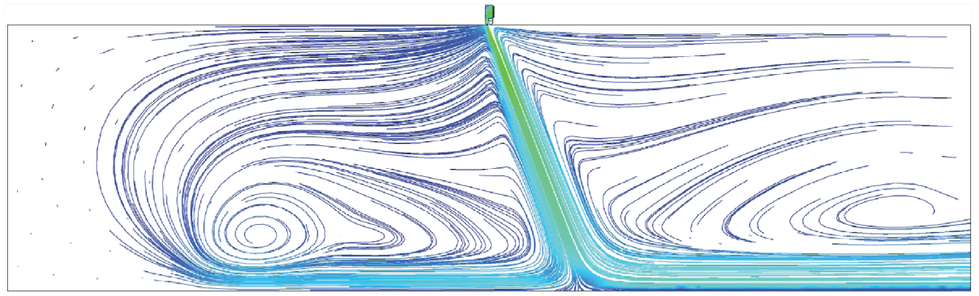
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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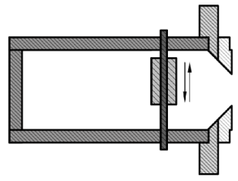
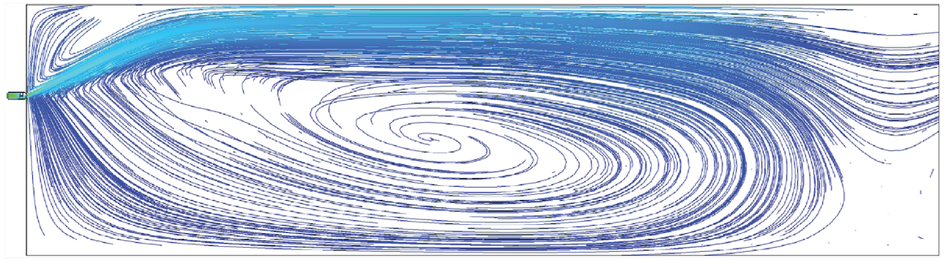
C2020 30MM WALL



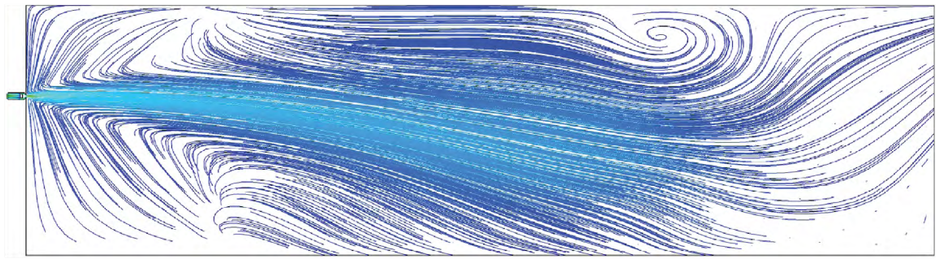
Air Flow Simulations

Regulator Top



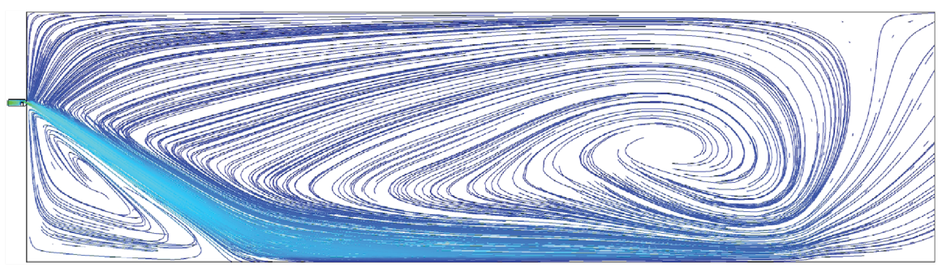
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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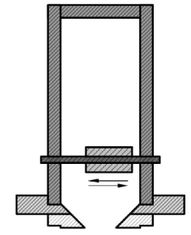
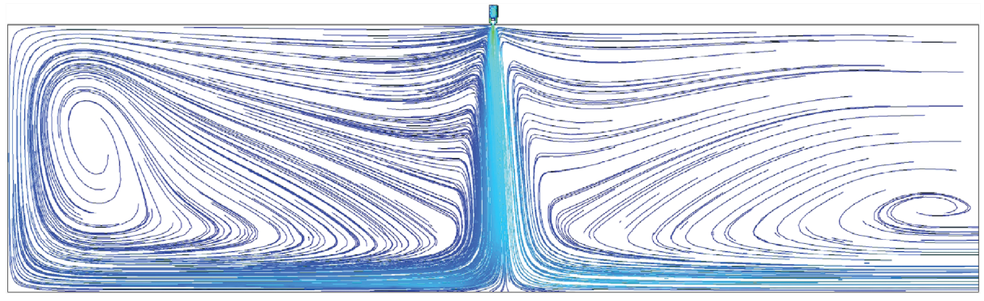
C2020 30MM CEILING



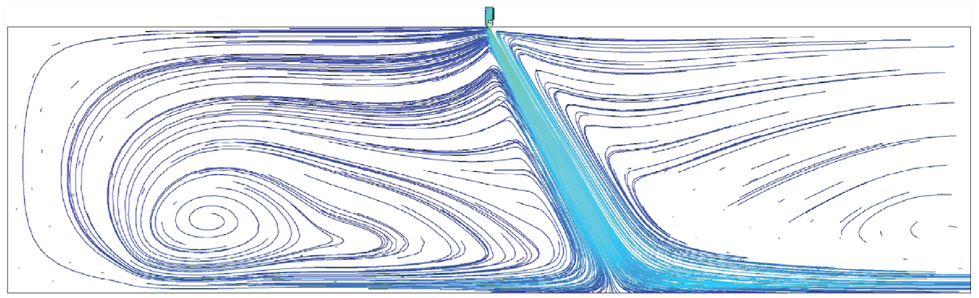
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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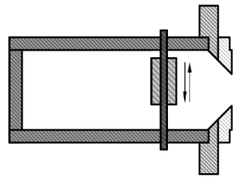
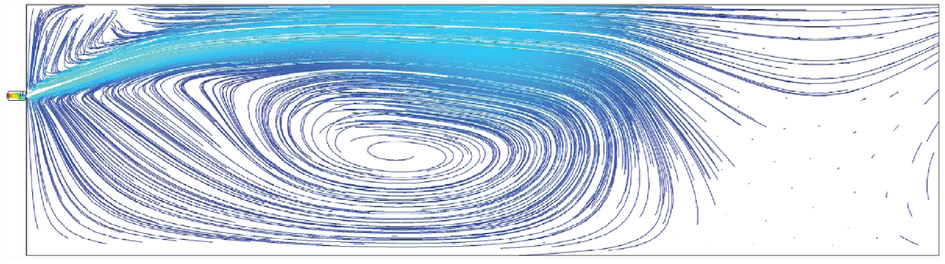
C2020 40MM WALL



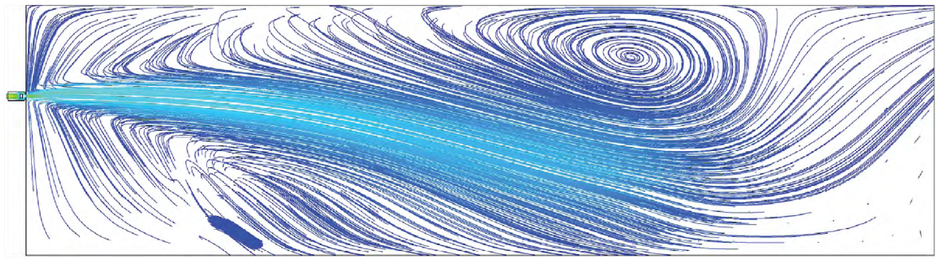
Air Flow Simulations

Regulator Top



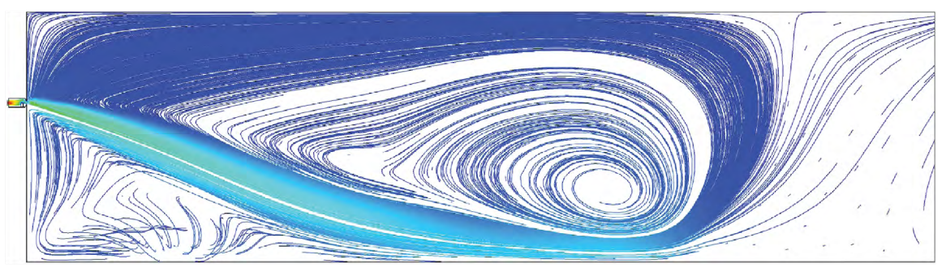
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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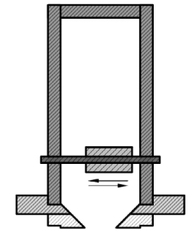
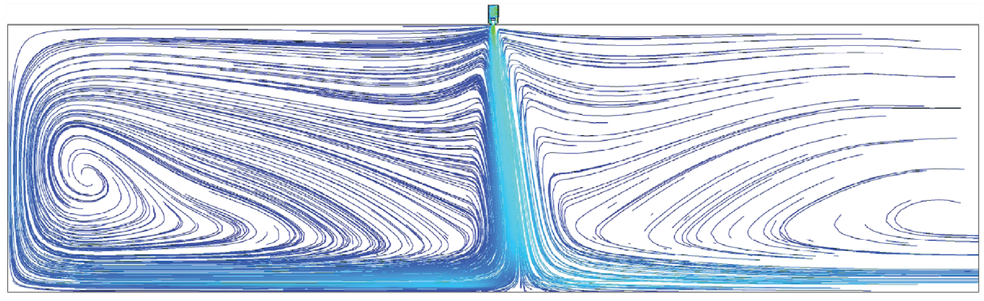
C2020 40MM CEILING



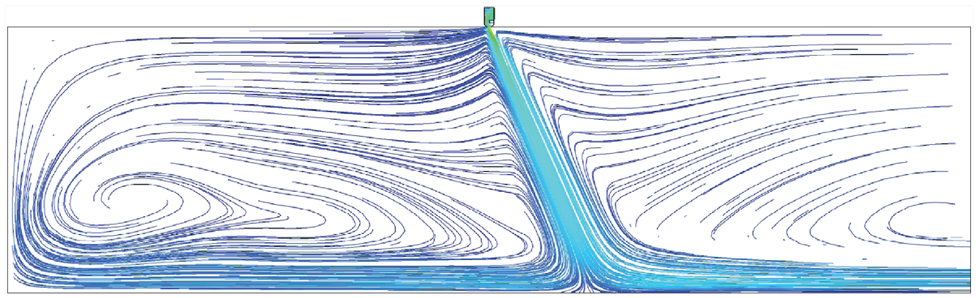
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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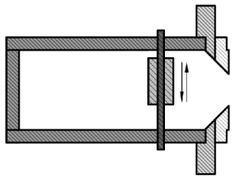
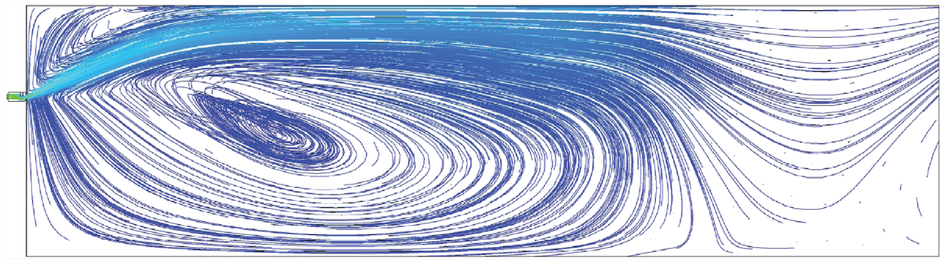
C2020 50MM WALL



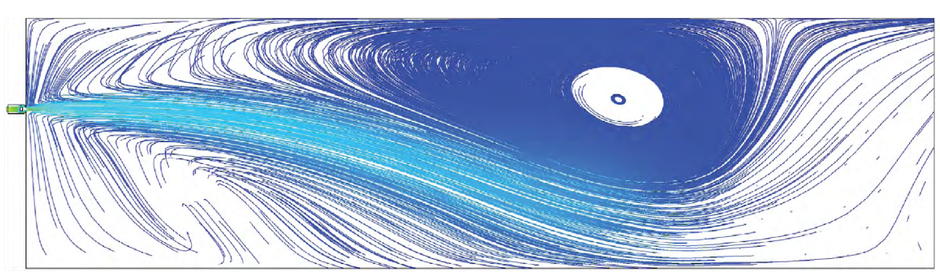
Air Flow Simulations

Regulator Top



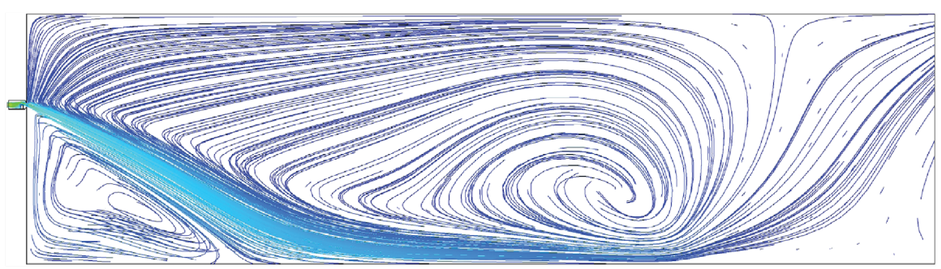
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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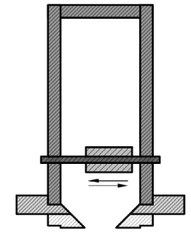
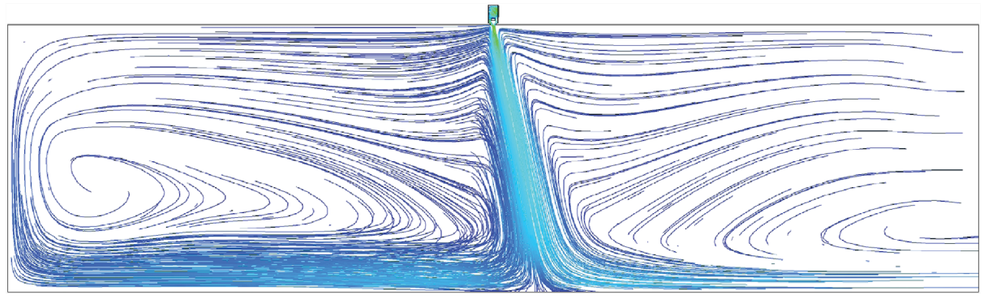
C2020 50MM CEILING



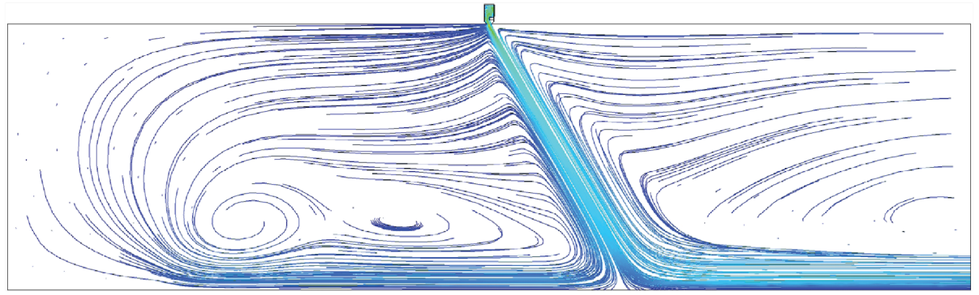
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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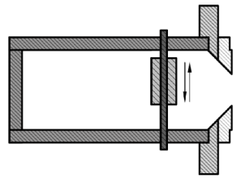
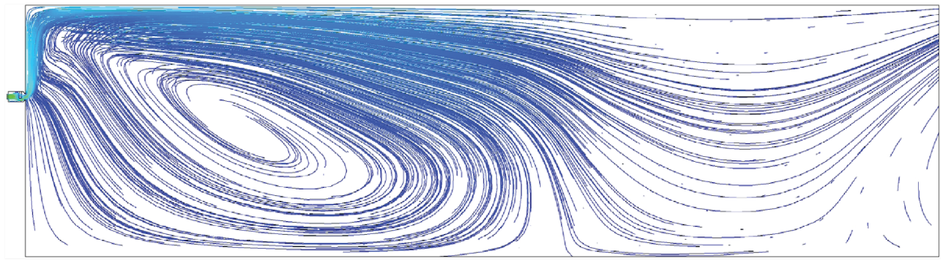
C2020 65MM WALL



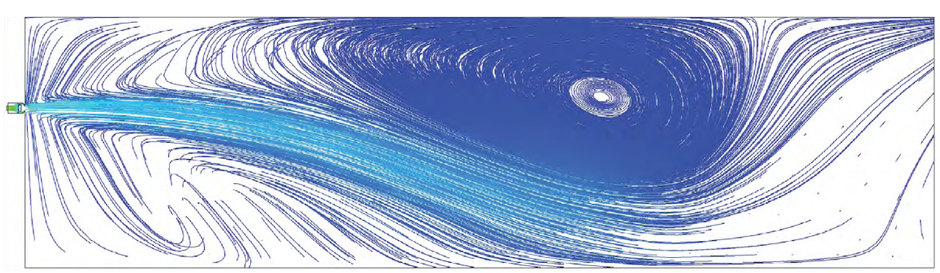
Air Flow Simulations

Regulator Top



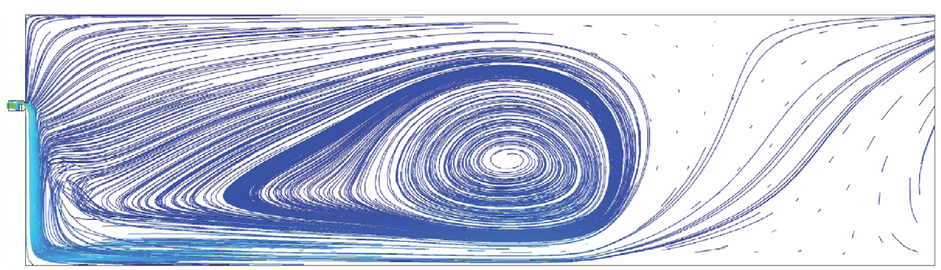
Air is discharged upward, creating higher circulation in the upper part of the space. This setup may enhance air mixing and temperature uniformity.

Regulator Middle



Airflow is directed horizontally through space, leading to a a balanced distribution across the room. This configuration minimizes stagnant zones.

Regulator Down



Air discharges downward, promoting airflow at floor level. This setup can be beneficial for maintaining thermal comfort in spaces with high ceilings.

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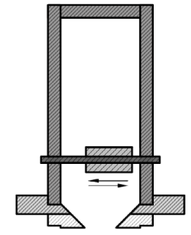
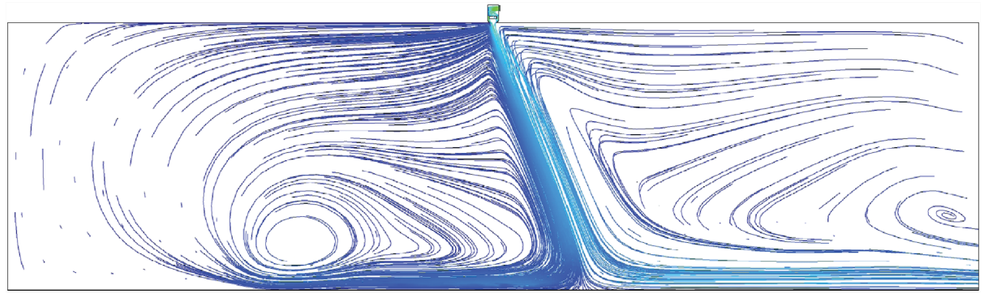
C2020 65MM CEILING



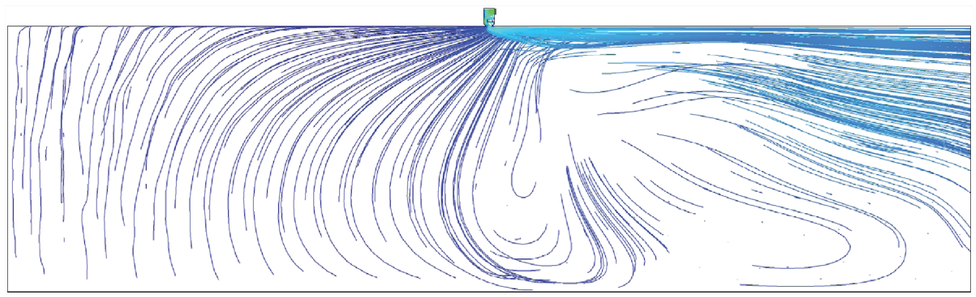
Air Flow Simulations

Regulator Middle



Air is distributed symmetrically downward, generating a highly axisymmetric vortex circulation. This arrangement ensures efficient air mixing throughout the space.

Regulator Side



The airflow is directed sideways from the ceiling, forming stronger localized circulation patterns. This configuration can be useful for targeted ventilation in specific areas.

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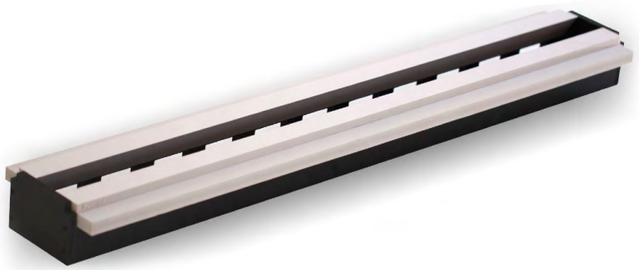
C2020
FREE
RETURN

C2020®

CANYON LINE BY VENTUS AIR

FREE RETURN



Description:

The C2020 Free Return Grille is a single slot grille system designed exclusively for passive air return applications. Engineered for seamless integration, it offers an efficient and aesthetically refined solution for HVAC systems.

Product Specifications & Installation

Material:

The C2020 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Installation

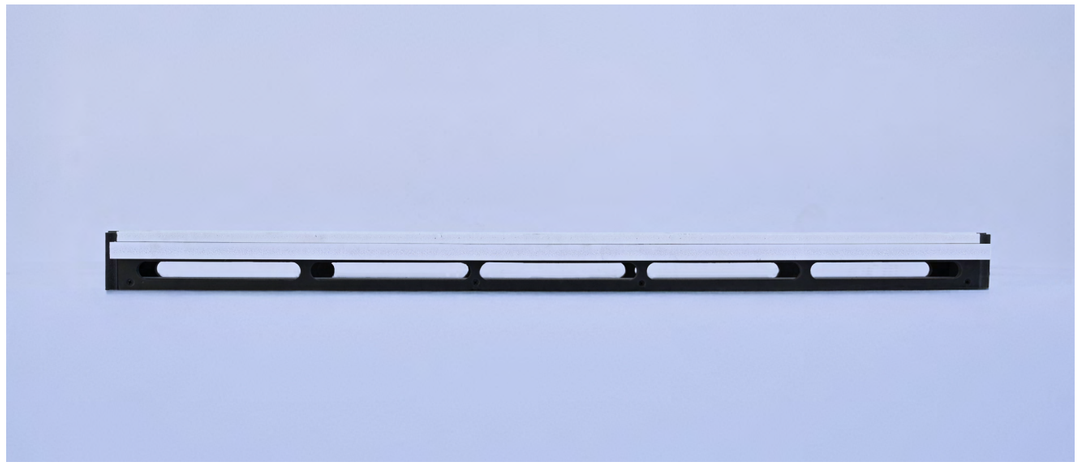
The system is **fully compatible with a wide range of wall and ceiling materials**, including wood, brick, drywall, and double-layer drywall. Its **lightweight** construction allows for easy handling and tool-free installation, with no additional structural support required. Additionally, the system's surface can be painted or finished to match surrounding textures or materials, such as wood grain or custom colors, ensuring **seamless aesthetic integration**.

Slot Width:

The C2020 is available in 30 mm and 40 mm slot widths, with adjustable configurations to 20 mm, 25 mm, or 50 mm, offering flexibility to meet various airflow requirements. This adaptability ensures optimal air distribution and allows for seamless integration with both ceiling and wall installations.

Standard Length:

The C2020 system is available in standard lengths of 500 mm, 1000 mm, 1500mm, 2000 mm, 2500mm and 3000 mm, providing flexibility for a wide range of installation requirements. Additionally, the use of end caps allows for on-site length adjustment, enabling **precise fitting during installation** without the need for special tools or factory modifications.



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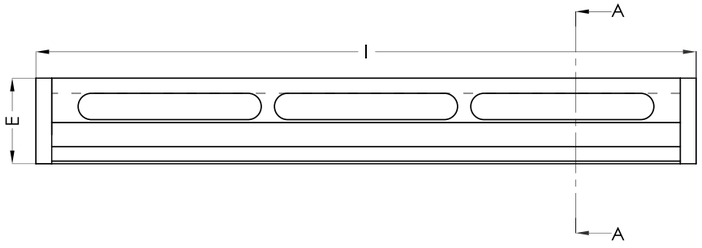
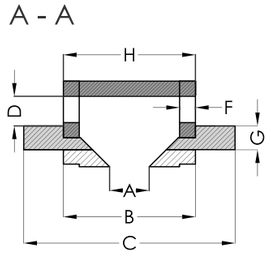
Cross - Section

Ceiling

SIDE VIEW

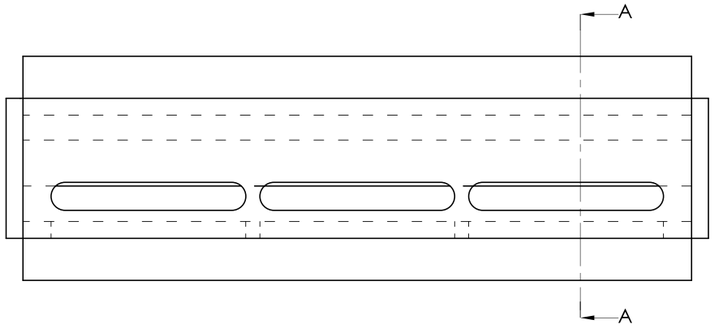


SECTION VIEW

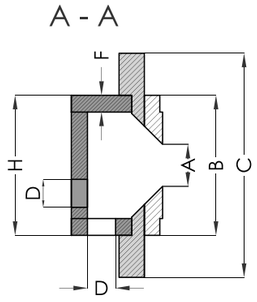


Wall

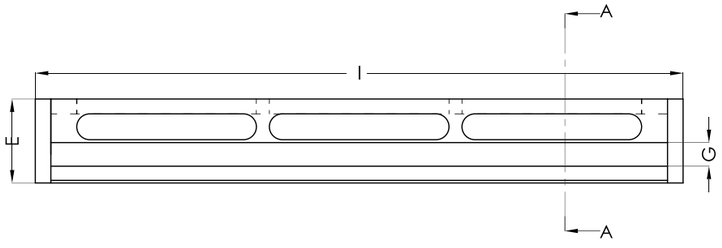
BACK VIEW



SECTION VIEW



SIDE VIEW



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FREE RETURN

Dimensions

C2020	A	B	C	D	E	F	G	H
20mm	20mm	90mm	160mm	20mm	65mm	12mm	18mm	100mm
25mm	25mm	95mm	160mm	20mm	65mm	12mm	18mm	100mm
***30mm**	30mm	100mm	160mm	20mm	65mm	12mm	18mm	100mm
***40mm**	40mm	110mm	180mm	20mm	65mm	12mm	18mm	120mm
50mm	50mm	120mm	180mm	20mm	65mm	12mm	18mm	120mm
65mm	65mm	135mm	195mm	20mm	65mm	12mm	18mm	135mm

*30mm and 40mm available in stock

Variable Length

I: Available in 500 / 1000 / 1500 / 2000 / 2500 / 3000 mm

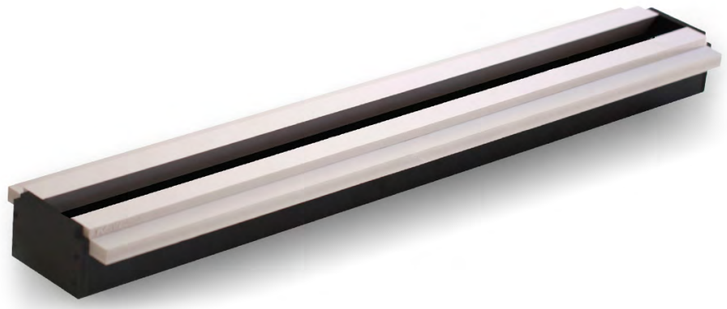
Free Area (AC)

C2020	A
20mm	0.02m²
25mm	0.025m²
30mm	0.03m²
40mm	0.04m²
50mm	0.05m²
65mm	0.065m²

C2020 DUMMY

C2020®

CANYON LINE BY VENTUS AIR



Description:

The C2020 Dummy grille is a 1-slot decorative system with an integrated plenum box, designed solely for visual appeal, without any airflow functionality.

Product Specifications & Installation

Material:

The C2020 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Installation

The system is **fully compatible with a wide range of wall and ceiling materials**, including wood, brick, drywall, and double-layer drywall. Its **lightweight** construction allows for easy handling and tool-free installation, with no additional structural support required. Additionally, the system's surface can be painted or finished to match surrounding textures or materials, such as wood grain or custom colors, ensuring **seamless aesthetic integration**.

Slot Width:

The C2020 is available in 30 mm and 40 mm slot widths, with adjustable configurations to 20 mm, 25 mm, or 50 mm, offering flexibility to meet various airflow requirements. This adaptability ensures optimal air distribution and allows for seamless integration with both ceiling and wall installations.

Standard Length:

The C2020 system is available in standard lengths of 500 mm, 1000 mm, 1500mm, 2000 mm, 2500mm and 3000 mm, providing flexibility for a wide range of installation requirements. Additionally, the use of end caps allows for on-site length adjustment, enabling **precise fitting during installation** without the need for special tools or factory modifications.

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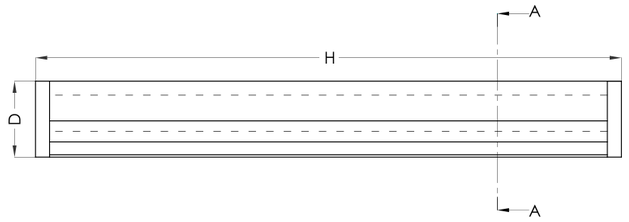
C2020® CANYON LINE BY VENTUS AIR

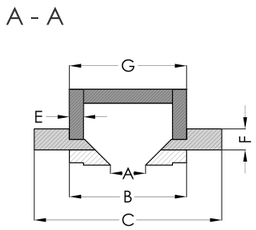
DUMMY

Cross - Section

SIDE VIEW



SECTION VIEW



Dimensions

C2020	A	B	C	D	E	F	G
20mm	20mm	90mm	160mm	65mm	12mm	18mm	100mm
25mm	25mm	95mm	160mm	65mm	12mm	18mm	100mm
***30mm**	30mm	100mm	160mm	65mm	12mm	18mm	100mm
***40mm**	40mm	110mm	180mm	65mm	12mm	18mm	120mm
50mm	50mm	120mm	180mm	65mm	12mm	18mm	120mm
65mm	65mm	135mm	195mm	65mm	12mm	18mm	135mm

*30mm and 40mm available in stock

Variable Length

H: Available in 500 / 1000 / 1500 / 2000 / 2500 / 3000 mm

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C2020 DUMMY CEILING CORNER ACCESSORIES

C2020®

CANYON LINE BY VENTUS AIR

DUMMY CEILING CORNER ACCESSORIES

Description:

The C2020 Ceiling Corner Dummy Accessories are designed for decorative purposes and can be customized into any shape desired by the customer. The shape can be either corner or curved, offering flexibility to match various ceiling designs. These accessories elegantly connect supply, return, and dummy grilles, enhancing the overall look of your ceiling installations while ensuring a seamless finish.

Product Specifications & Installation

Materials:

The C2020 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Installation

The system is **fully compatible with a wide range of wall and ceiling materials**, including wood, brick, drywall, and double-layer drywall. Its **lightweight** construction allows for easy handling and tool-free installation, with no additional structural support required. Additionally, the system's surface can be painted or finished to match surrounding textures or materials, such as wood grain or custom colors, ensuring **seamless aesthetic integration**.

Slot Width:

The C2020 is available in 30 mm and 40 mm slot widths, with adjustable configurations to 20 mm, 25 mm, or 50 mm, offering flexibility to meet various airflow requirements. This adaptability ensures optimal air distribution and allows for seamless integration with both ceiling and wall installations.

Standard Length:

The C2020 Ceiling Corner Dummy Accessories are available in a standard size of 190x190mm at a 90° angle.

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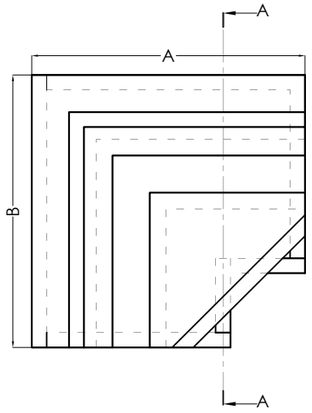
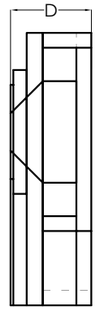
DUMMY CEILING CORNER ACCESSORIES

Cross - Section CAD30/40

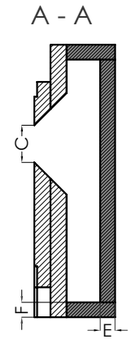
FRONT VIEW



SIDE VIEW



SECTION VIEW

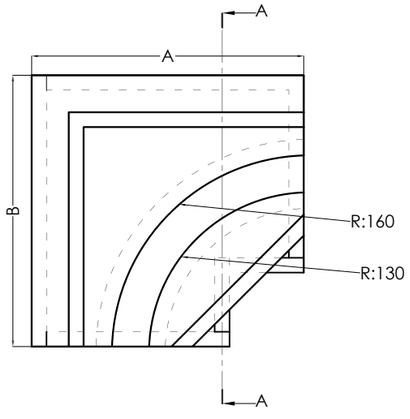


Dimensions

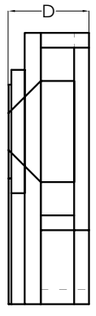
SLOT	A	B	C	D	E	F
30mm	220mm	220mm	30mm	65mm	12mm	12mm
40mm	220mm	220mm	40mm	65mm	12mm	12mm

Cross - Section CAD30/40C

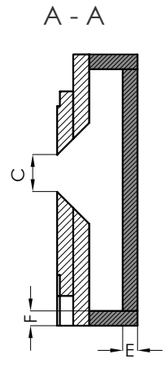
FRONT VIEW



SIDE VIEW



SECTION VIEW



Dimensions

SLOT	A	B	C	D	E	F
30mm	220mm	220mm	30mm	65mm	12mm	12mm
40mm	220mm	220mm	40mm	65mm	12mm	12mm

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PROAIRKIT GRILLE ON PLENUM PAK700/PAK1000

Proairkit®

Description:

The ProairKit system is a system with an integrated plenum box for efficient air supply or return. Available in various designs these grille systems are designed for hotel bedroom corridorors or project with standard openings. The dimensions are based to fit into a typical hotel bedroom corridor ensuring optimal air distribution or return while seamlessly integrating with ceilings or walls.

Product Specifications & Installation

Materials:

The PAK700 and PAK1000 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Installation

The system is compatible with drywall 12.5mm.

The system is lightweight, making it easy to handle and install, with no additional support needed during the installation process.

Customization:

Upon request we can manufacture with same product philosophy products with custom length, design or to be installed in any material (bricks, wood, etc.)

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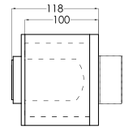
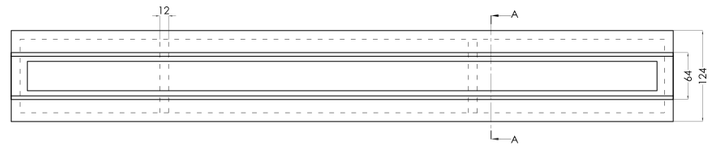
GRILLE ON PLENUM

Cross - Section- **PAK700** 1 SLOT GRILLE ON PLENUM

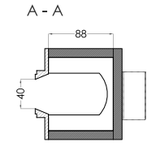
SIDE VIEW



FRONT VIEW



SECTION VIEW



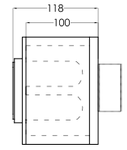
BACK VIEW

Spigot Selection

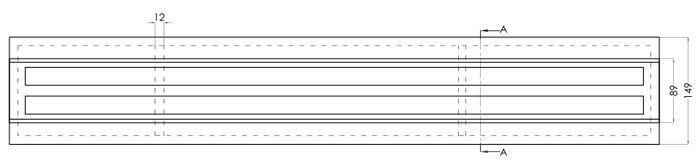
***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

Cross - Section- **PAK700** 2 SLOT GRILLE ON PLENUM

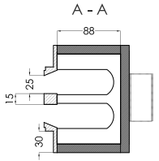
SIDE VIEW



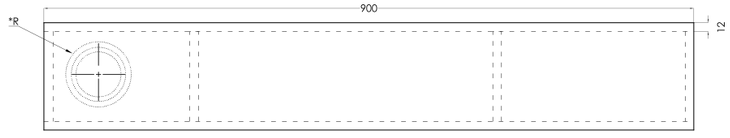
FRONT VIEW



SECTION VIEW



BACK VIEW



Spigot Selection

***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

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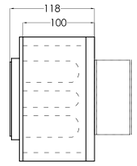
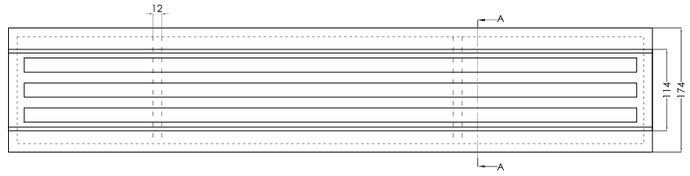
Cross - Section- **PAK700** 3 SLOT GRILLE ON PLENUM

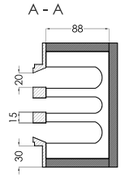
SIDE VIEW



FRONT VIEW



SECTION VIEW



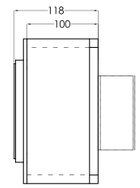
BACK VIEW

Spigot Selection

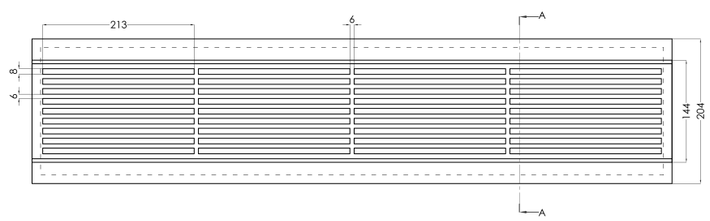
***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

Cross - Section- **PAK700** LINEAR GRILLE ON PLENUM

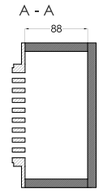
SIDE VIEW



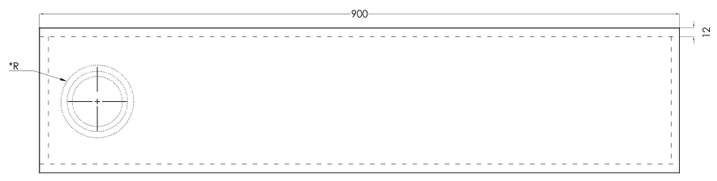
FRONT VIEW



SECTION VIEW



BACK VIEW



Spigot Selection

***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

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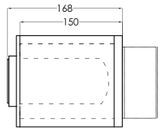
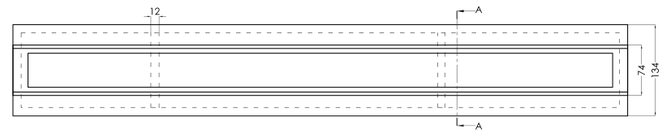
GRILLE ON PLENUM

Cross - Section- **PAK1000** 1 SLOT GRILLE ON PLENUM

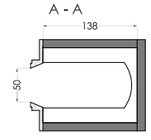
SIDE VIEW



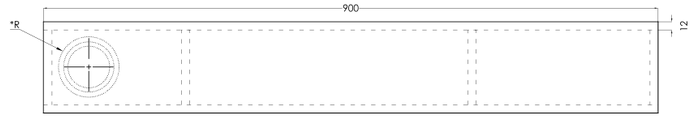
FRONT VIEW



SECTION VIEW



BACK VIEW

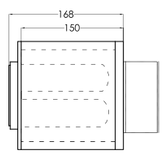


Spigot Selection

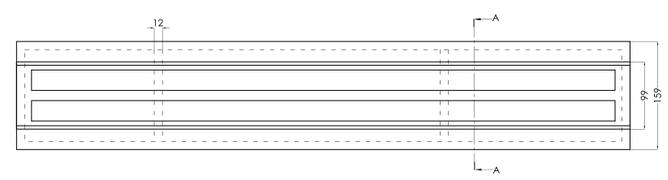
***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

Cross - Section- **PAK1000** 2 SLOT GRILLE ON PLENUM

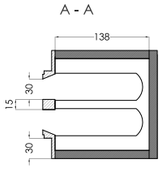
SIDE VIEW



FRONT VIEW



SECTION VIEW



BACK VIEW

Spigot Selection

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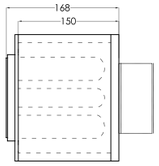
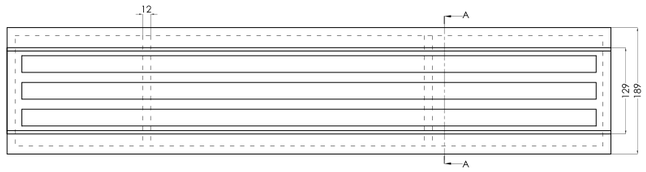
Cross - Section- **PAK1000** 3 SLOT GRILLE ON PLENUM

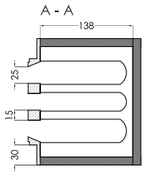
SIDE VIEW



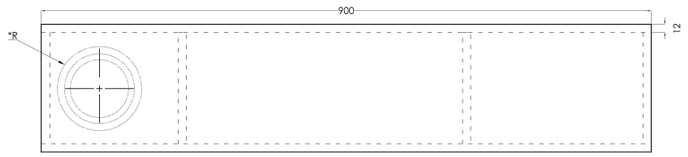
FRONT VIEW



SECTION VIEW



BACK VIEW

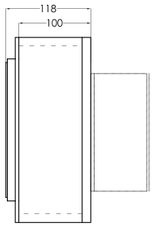


Spigot Selection

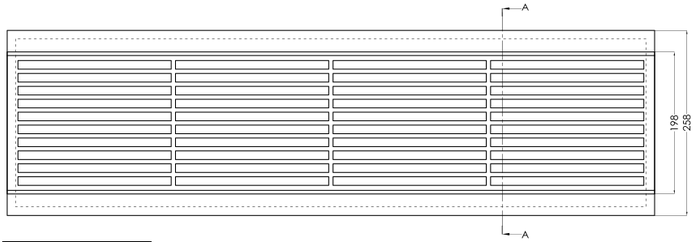
***R** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150, Ø180, Ø200.

Cross - Section- **PAK1000** LINEAR GRILLE ON PLENUM

SIDE VIEW



FRONT VIEW



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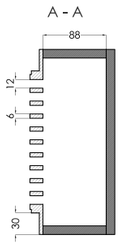
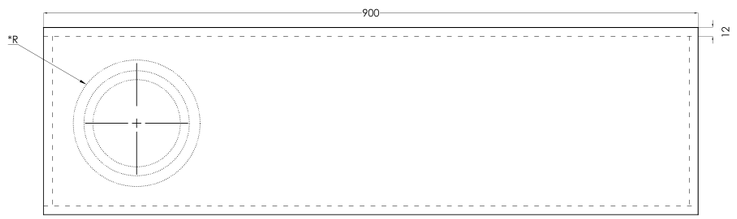


BACK VIEW



Spigot Selection

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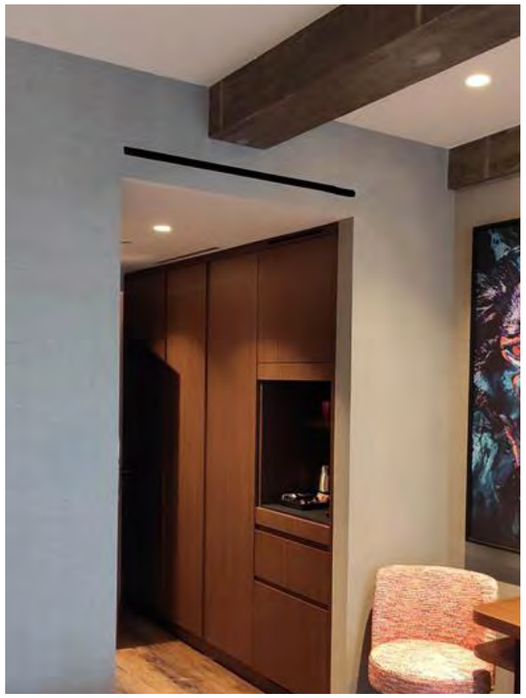
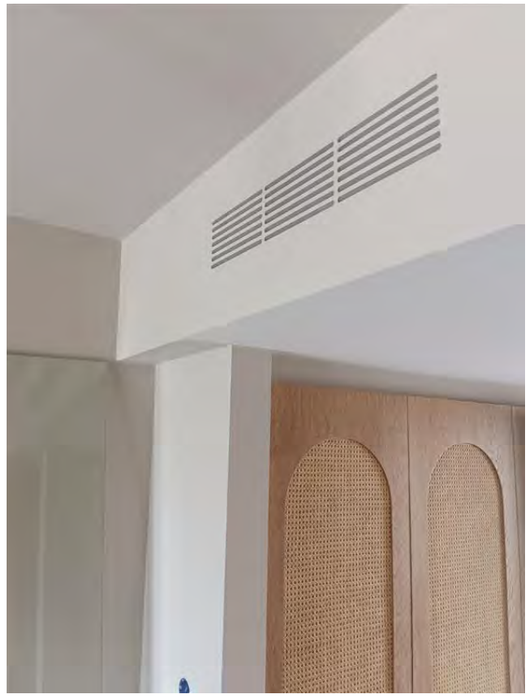
GRILLE ON PLENUM





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PERFORATED CEILING ACCESS PANELS PAK700/PAK1000

Proairkit®

Description:

The PAK700 and PAK1000 Perforated Access Panels are practical 2-in-1 solution that function as both return grilles and access panels, designed for ceiling installations. With a sleek, minimal design, they provide smooth airflow while allowing convenient maintenance access.
The black back panel conceals unwanted elements for a clean, professional appearance. Multiple slot configurations ensure optimal airflow distribution and seamless integration with various ceiling types.

Product Specifications & Installation

Materials:

The PAK700 and PAK1000 is manufactured from **high-quality PVC**, a material that eliminates condensation entirely, ensuring **0% condensation** under operating conditions. Its robust construction makes it durable, efficient, and ideal for long-term use. This results in consistent performance and high reliability, even in demanding or high-humidity environments.

Installation

The perforated access panels are made for 12.5 mm drywall ceilings. Each package includes two panels, a aluminum frame, and self-tapping screws. They are lightweight and easy to handle. The panels are designed for easy and neat installation, fitting smoothly with the ceiling surface.

Slot Width:

The **PAK700** series is available in 40 mm (1 Slot), 25 mm (2 Slot), 20 mm (3 Slot), and Linear 8:5 mm slot configurations, while

The **PAK1000** series comes in 50 mm (1 Slot), 30 mm (2 Slot), 25 mm (3 Slot), and Linear 12:5 mm. These options provide flexibility for different airflow requirements and ceiling designs.

Standard Length:

The perforated access panels are available in a standard size of L 795 mm × H 385 mm, designed for easy and seamless integration into ceiling installations.

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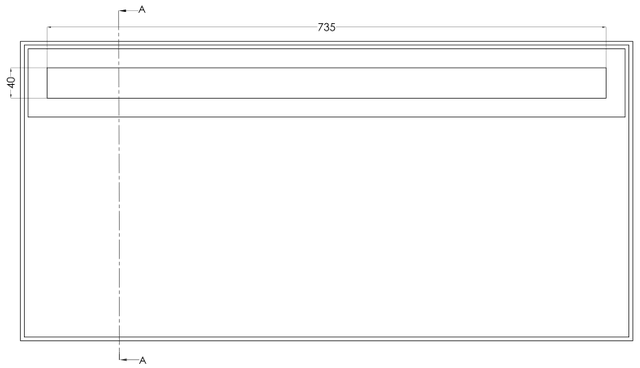
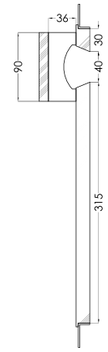
PERFORATED CEILING ACCESS PANELS

Cross - Section- **PAK700** 1 SLOT ACCESS PANEL

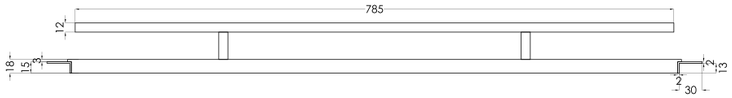
FRONT VIEW



SECTION VIEW

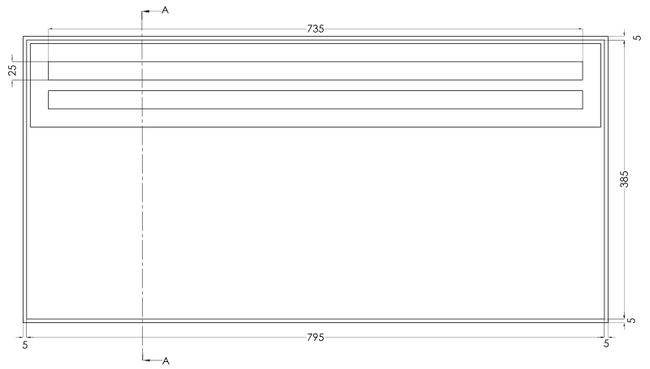


SIDE VIEW

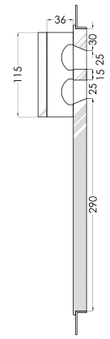


Cross - Section- **PAK700** 2 SLOT ACCESS PANEL

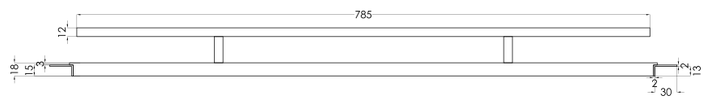
FRONT VIEW



SECTION VIEW



SIDE VIEW



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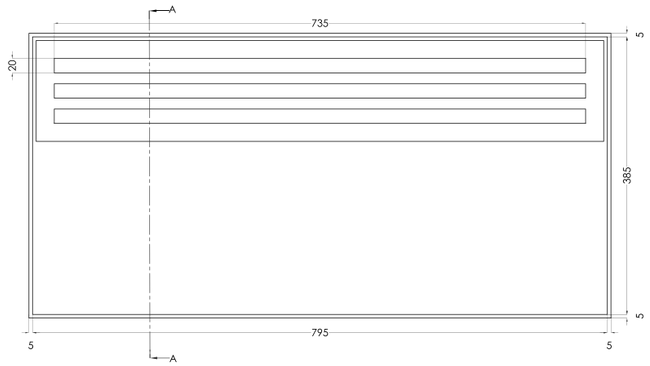
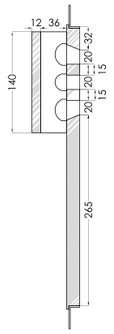
Cross - Section- **PAK700** 3 SLOT ACCESS PANEL

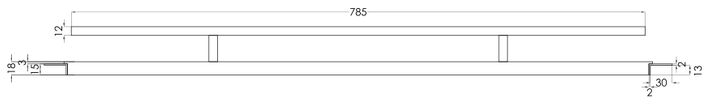
FRONT VIEW



SECTION VIEW

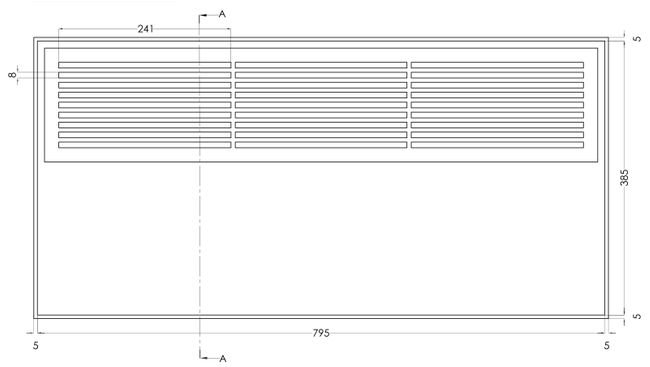


SIDE VIEW

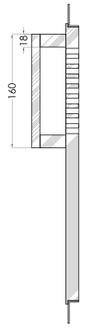


Cross - Section- **PAK700** LINEAR ACCESS PANEL

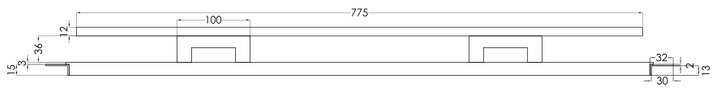
FRONT VIEW



SECTION VIEW



SIDE VIEW



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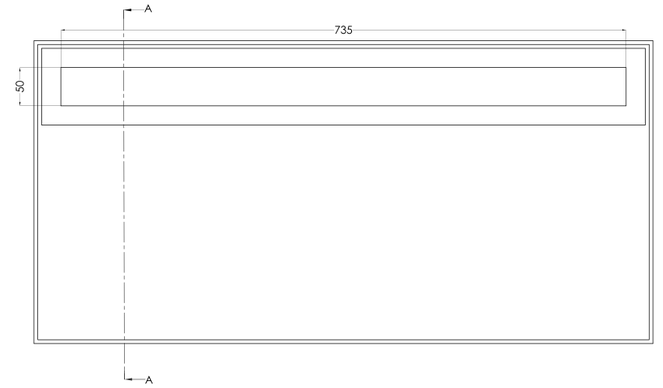
PERFORATED CEILING ACCESS PANELS

Cross - Section- **PAK1000** 1 SLOT ACCESS PANEL

FRONT VIEW



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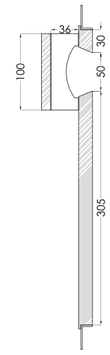
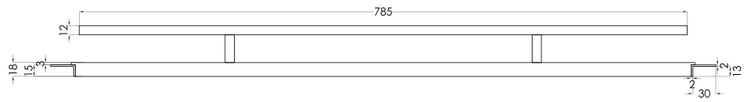


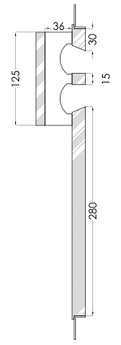
SIDE VIEW



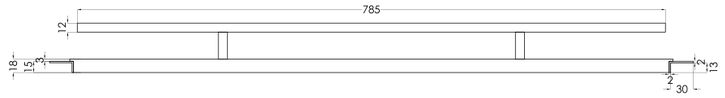
Cross - Section- **PAK1000** 2 SLOT ACCESS PANEL

FRONT VIEW

SECTION VIEW



SIDE VIEW



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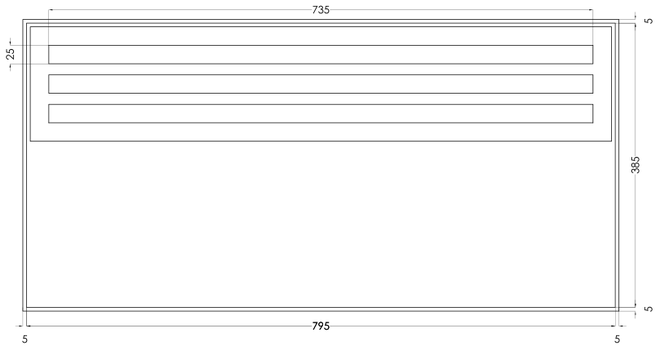
Cross - Section- **PAK1000** 3 SLOT ACCESS PANEL

FRONT VIEW



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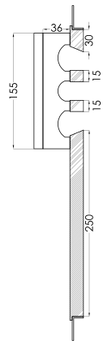
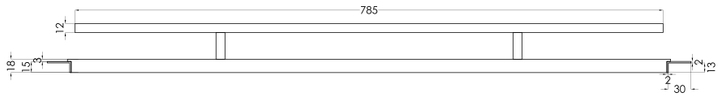
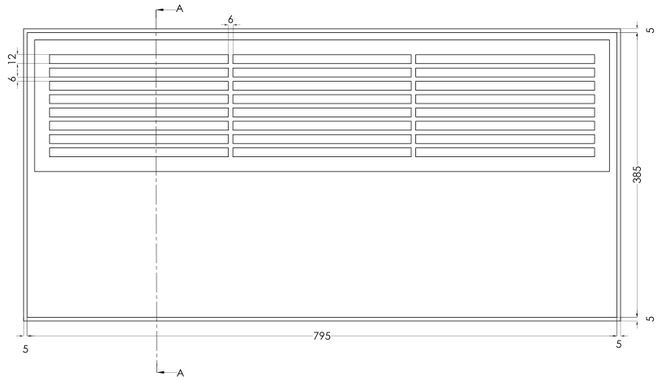


SIDE VIEW

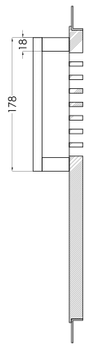


Cross - Section- **PAK1000** LINEAR ACCESS PANEL

FRONT VIEW



SECTION VIEW



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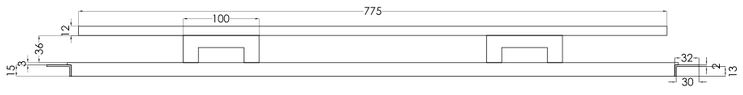

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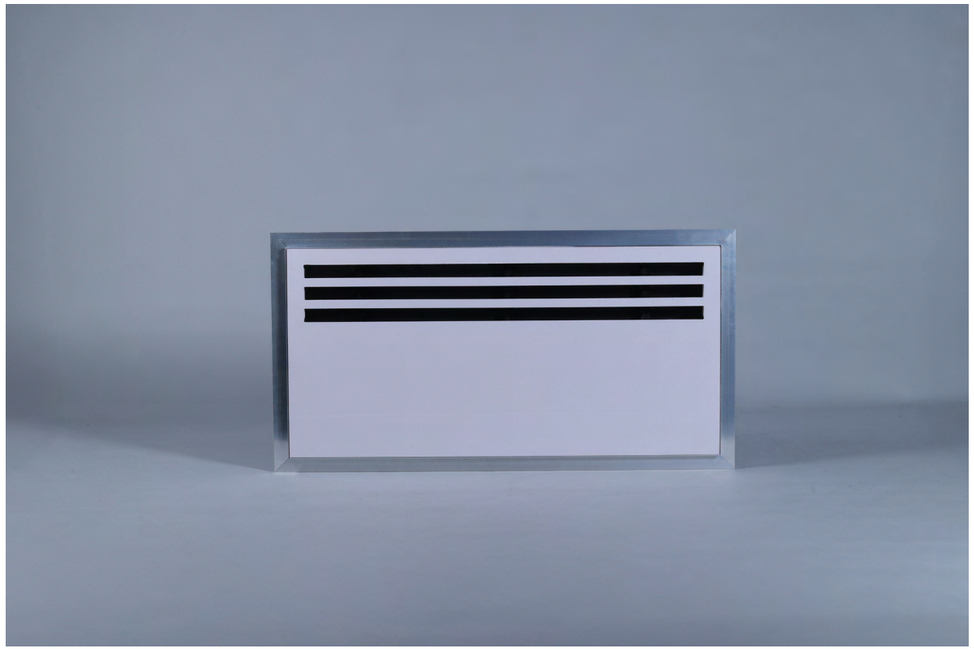
PERFORATED CEILING ACCESS PANELS



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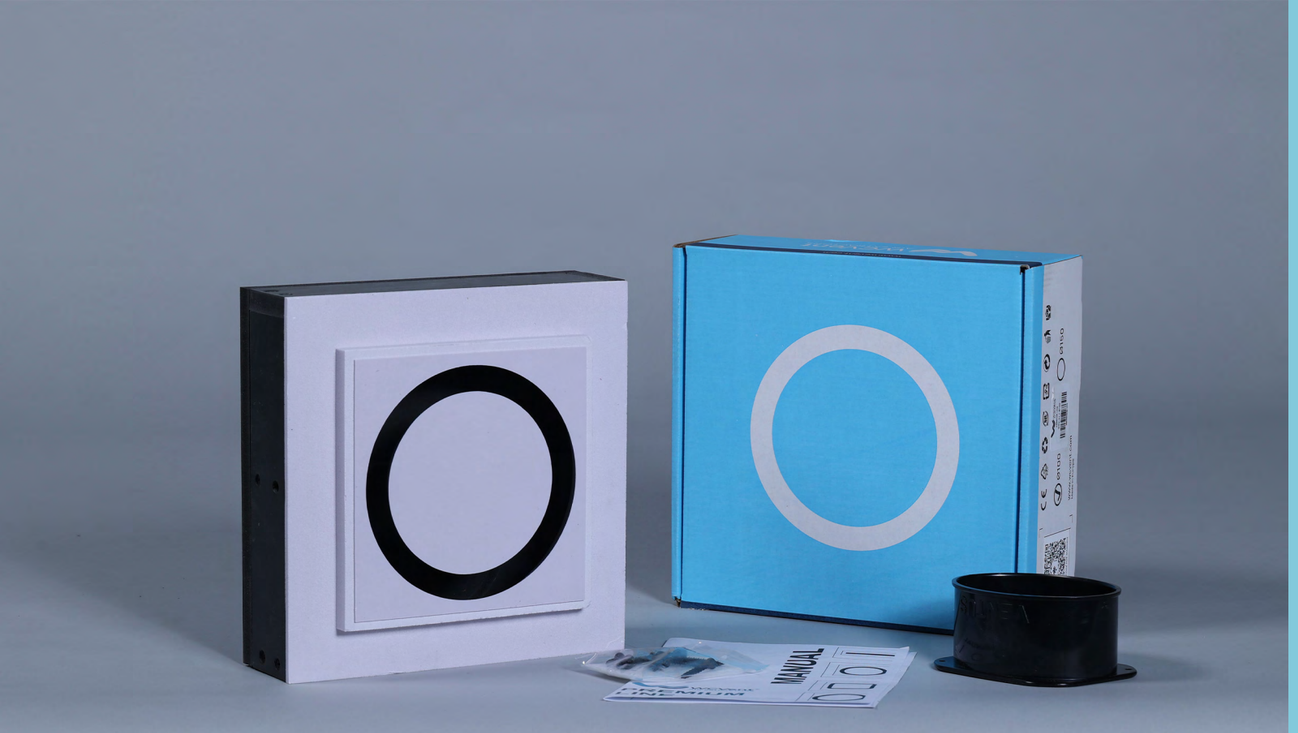

PREMIUM LINE

EXCLUSIVE LINE

WC AIR EXTRACTORS

WCVent®
AIR EXTRACTORS

Description:

WCVent **Premium Lin**e Air Extractors with integrated plenum are specially designed for bathroom and WC areas. They combine efficient ventilation with a stylish, frameless design that integrates seamlessly with the ceiling, creating a modern and professional look.

Each Premium Line unit comes as a complete solution with grille, integrated plenum, spigots, and screws included, making it ready for immediate use. Compatible with extractor fans up to 150 m^3/h, the Premium Line ensures reliable airflow performance suitable for small to medium-sized bathrooms.

Product Specifications & Installation

Materials:

Made from high-quality, moisture-resistant PVC, the grille and plenum are built to withstand humid environments. The spigots are manufactured from durable ABS, providing strong yet lightweight connections. The smooth finish of the unit enhances its clean and elegant appearance.

Installation

Installation is quick and simple with standard tools. The unit can be adjusted to fit the ceiling opening and sits flush when fitted, resulting in a clean, unobtrusive finish.

Installation

Installation is quick and simple with standard tools. The unit can be adjusted to fit the ceiling opening and sits flush when fitted, resulting in a clean, unobtrusive finish.

Product Dimensions

Premium Line

Square, Circle, Ellipse:
160 mm × 160 mm

Line:
230 mm × 55 mm

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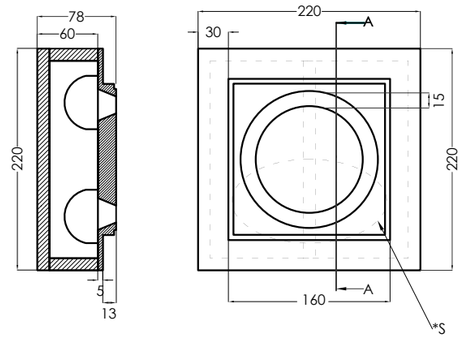
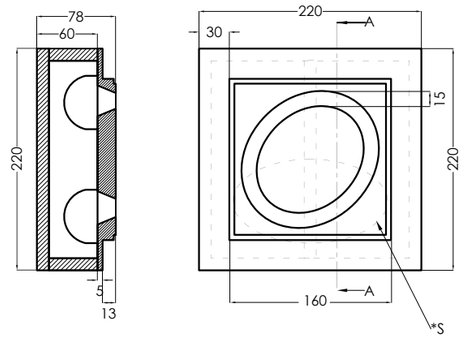
AIR EXTRACTORS

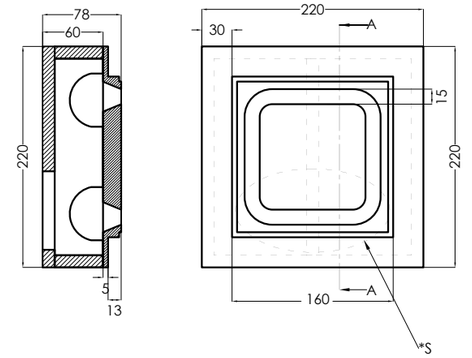
Cross - Section- AIR EXTRACTORS- PREMIUM LINE



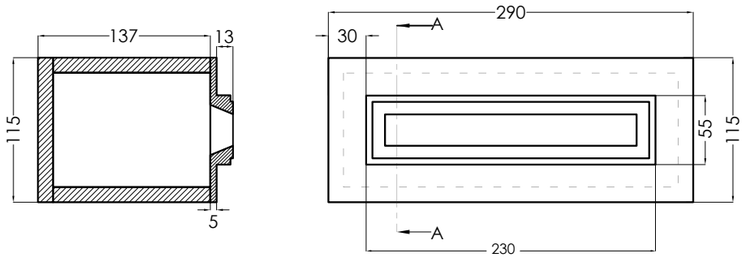
CIRCLE/ WCV-01



ELLIPSE/ WCV-02



SQUARE/ WCV-03



LINE / WCV-04

Spigot Selection

***S** indicates spigots (accessories) to be selected based on the required air volume by the customer. Standard spigot sizes available: Ø100, Ø125, Ø150.

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Description:

The WCVent Exclusive Line has been designed and manufactured to the highest quality standards, providing a cost-effective solution for bathroom and WC ventilation. Its sleek, minimal design allows it to fit neatly into the ceiling while maintaining reliable airflow performance. Each unit comes fully assembled with a grille, while spigots and screws are not included and can be purchased separately. Compatible with extractor fans up to 150 m^3/h, the Exclusive Line delivers consistent performance for everyday use.

Product Specifications & Installation

Materials:

Constructed from high-quality, moisture-resistant PVC, the grille is durable and well-suited for humid environments. Spigots, made of strong, lightweight ABS, can be purchased separately to provide a secure connection. The smooth finish ensures a clean and professional appearance once installed.

Installation

Installation is straightforward using standard tools. The unit can be adjusted to fit the ceiling opening and sits flush when installed, resulting in a neat finish. Each box contains 10 extractors of the same model, with screws included for easy installation. The air extractor has a ø125 mm hole, with the option to reduce to ø100 mm by purchasing a spigot adaptor (ref. code: S100 A).

Product Dimensions

Exclusive Line

All Shapes:
160 mm × 160 mm

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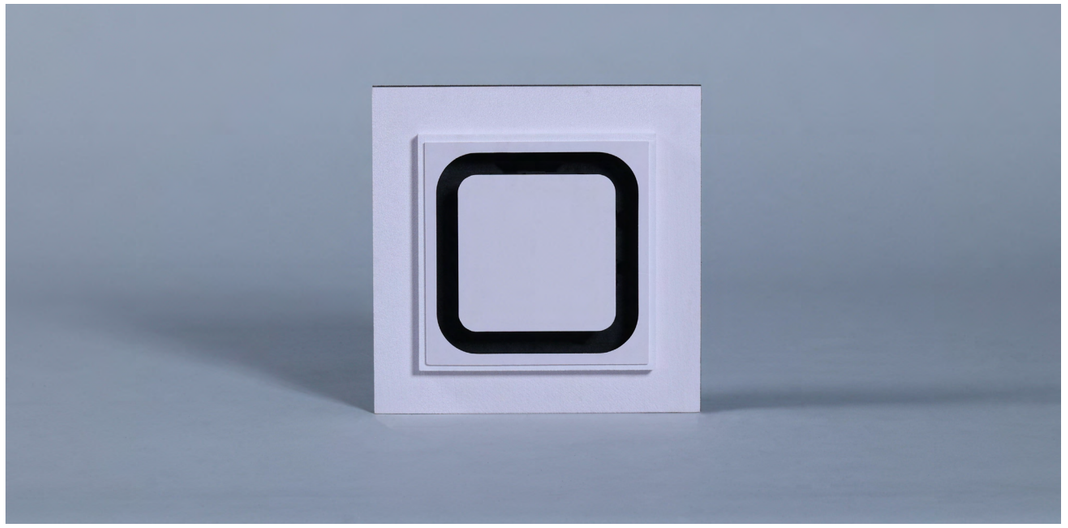
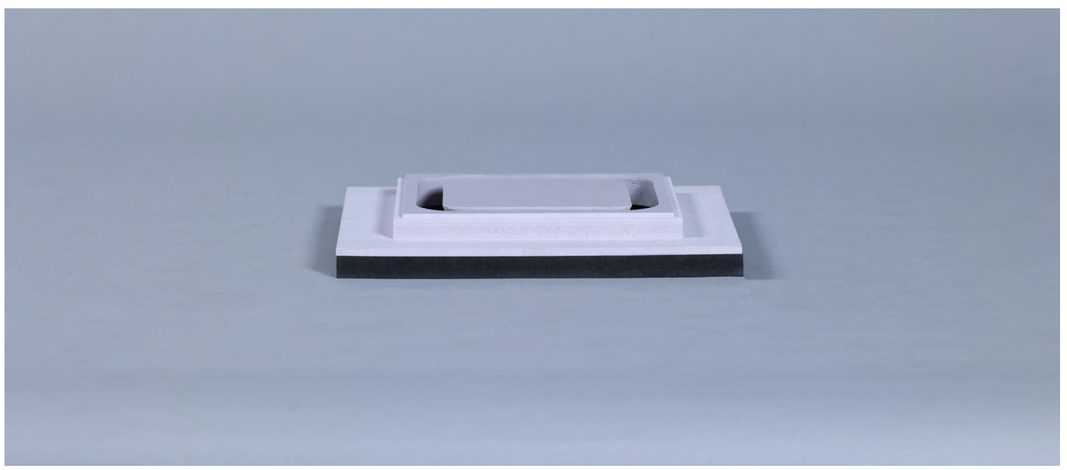
AIR EXTRACTORS

*Each box contains 10 products of the **same** design.





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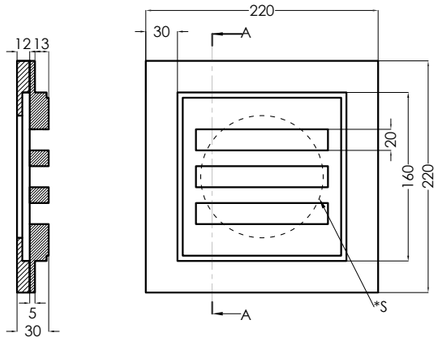
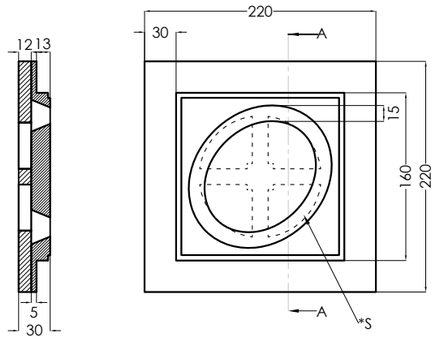
Cross - Section- AIR EXTRACTORS- EXCLUSIVE LINE

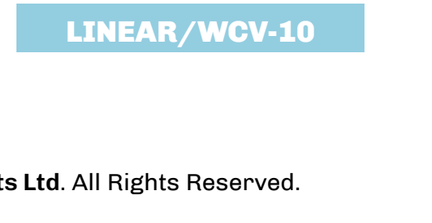


3 SLOT/WCV-05

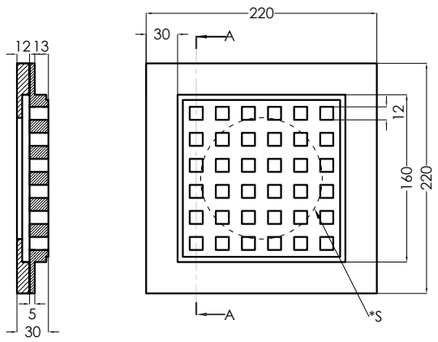


OVAL/WCV-06

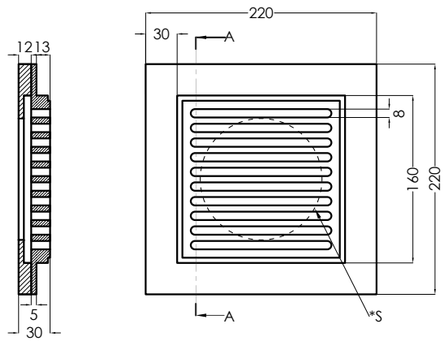
N-SQUARE/WCV-07



S-BUBBLES/WCV-08



TETRIS/WCV-09



LINEAR/WCV-10

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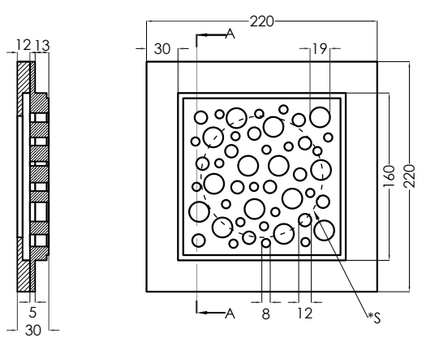
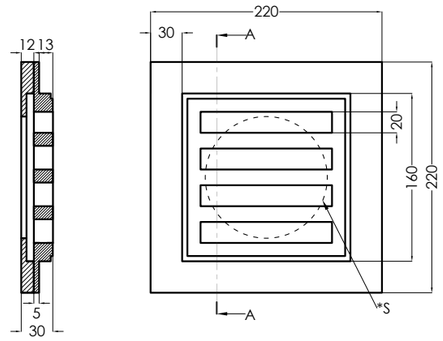
AIR EXTRACTORS

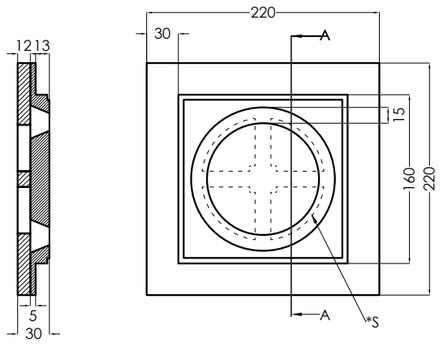
Cross - Section- AIR EXTRACTORS- EXCLUSIVE LINE



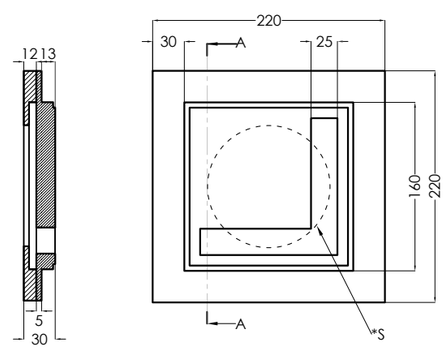
MOON/WCV-11



4 SLOT/WCV-12



N-CIRCLE/WCV-13



L SHAPE/WCV-14

Spigot Selection

***S** indicates the available dimension for the exclusive WCVENT air extractors. Standard size is Ø125. An adaptor can be purchased if a reduction to Ø100 (S100A) is required.

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SPIGOT

DAMPER SPIGOT

VENTUS SPIGOTS

VENTUS®
CUSTOM AIR TECHNOLOGIES

Description:

Our spigots provide reliable connections between flexible ducts, grilles, and plenum boxes, ensuring efficient airflow for residential, commercial, and industrial HVAC systems. Available in round, oval, and extra oval shapes, they accommodate a wide range of airflow requirements. Lightweight and durable, they are ideal for both new installations and system modifications.

Product Specifications & Installation

Materials:

All spigots are made from high-quality ABS, ensuring durability, strength, and long-lasting performance. The black finish provides a professional look while maintaining reliability.

Installation

The spigots are easy to install and handle. They fit securely with ducts, grilles, and plenum boxes, and their lightweight design makes installation quick and simple.
No special tools are needed, making them suitable for both professionals and DIY projects.

Standard Sizes:

The spigots are available in a variety of diameters:

Round: ø100mm, ø125mm, ø150mm, ø180mm, ø200mm

Oval: ø100mm, ø125mm, ø150mm, ø180mm, ø200mm

Extra Oval: ø150mm, ø180mm, ø200mm

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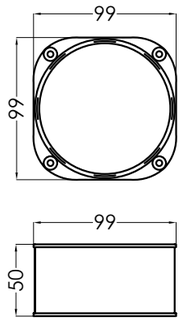
SPIGOT

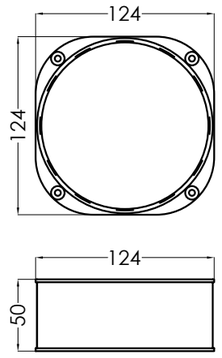
Cross - Section- SPIGOT

CIRCLE

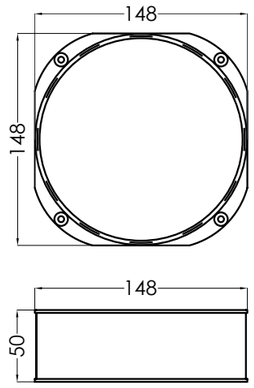
S100- Ø100



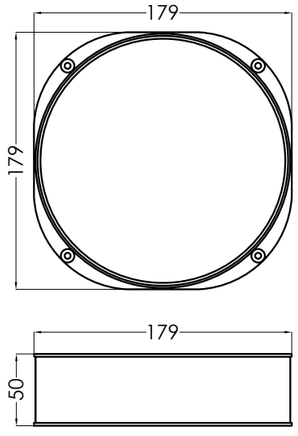
S125- Ø125



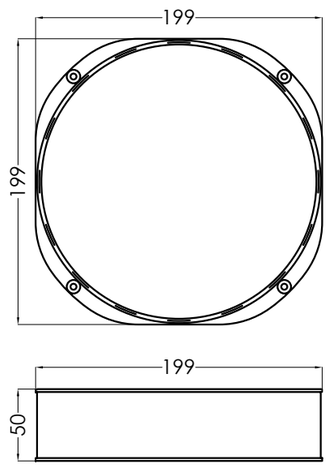
S150- Ø150



S180- Ø180



S200- Ø200



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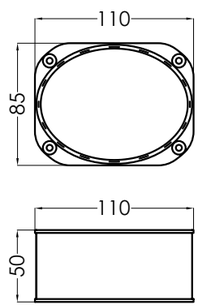
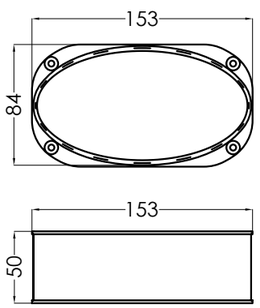
Cross - Section- SPIGOT

OVAL

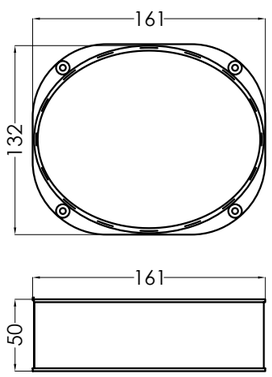
S1000- Ø100



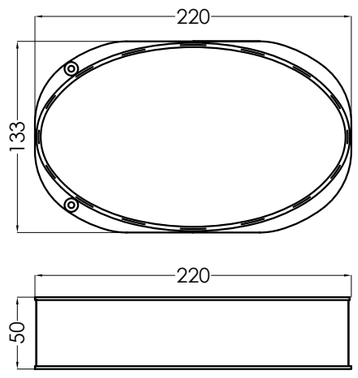
S1250- Ø125



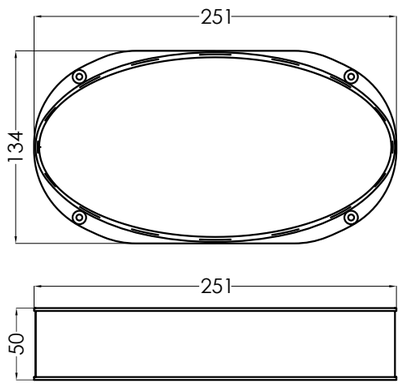
S1500- Ø150



S1800- Ø180



S2000- Ø200



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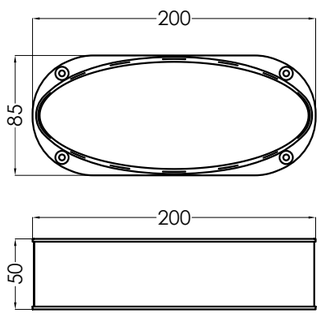
VENTUS® CUSTOM AIR TECHNOLOGIES

SPIGOT

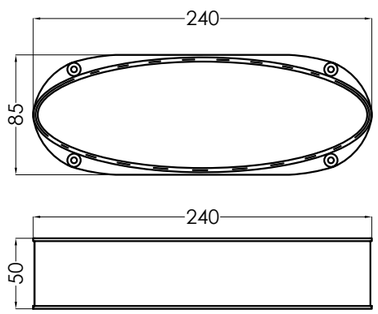
Cross - Section- SPIGOT

EXTRA OVAL

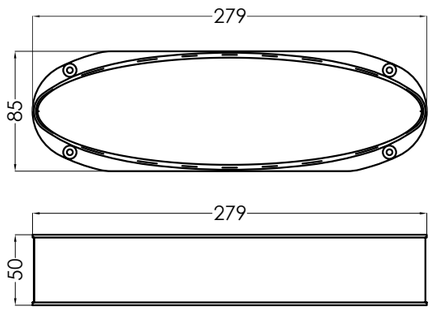
S150EO - Ø150



S180EO - Ø180



S200EO - Ø200



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Description:

Our Damper Spigots provide reliable connections between flexible ducts, grilles, and plenum boxes while allowing you to regulate airflow within the system. They ensure efficient ventilation for residential, commercial, and industrial HVAC applications. Available in round, oval, and extra oval shapes, they accommodate a wide range of airflow requirements. Lightweight and durable, these spigots are ideal for both new installations and system modifications.

Product Specifications & Installation

Materials:

All spigots are made from high-quality ABS, ensuring durability, strength, and long-lasting performance. The black finish provides a professional appearance while maintaining reliability in humid and demanding environments.

Installation

The spigots are easy to handle and install. They fit securely with ducts, grilles, and plenum boxes, and their lightweight design allows for quick and simple installation. No special tools are required, making them suitable for both professional HVAC installers and DIY projects.

Standard Sizes:

The spigots are available in a variety of diameters:

Round: ø100mm, ø125mm, ø150mm, ø180mm, ø200mm

Oval: ø100mm, ø125mm, ø150mm, ø180mm, ø200mm

Extra Oval: ø150mm, ø180mm, ø200mm

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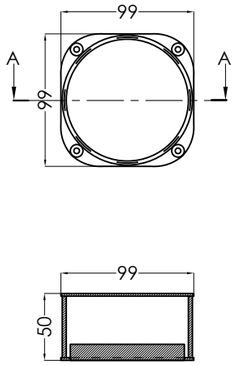
SPIGOT

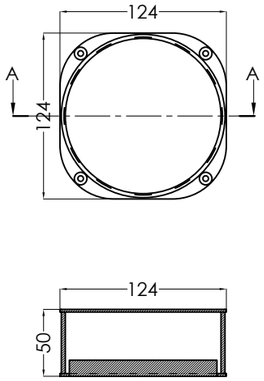
Cross - Section- SPIGOT DAMPER

CIRCLE

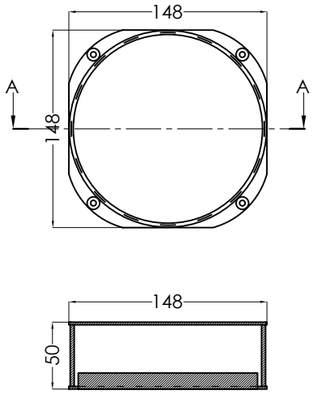
S100AD- Ø100



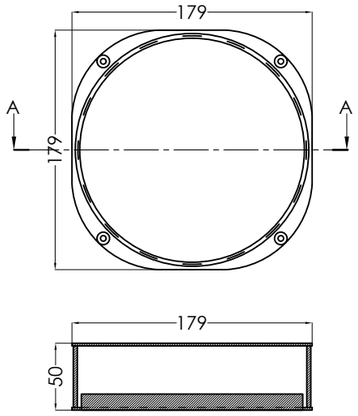
S125D- Ø125



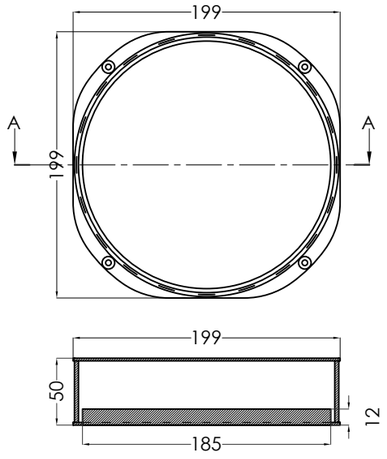
S150D- Ø150



S180D- Ø180



S200D- Ø200



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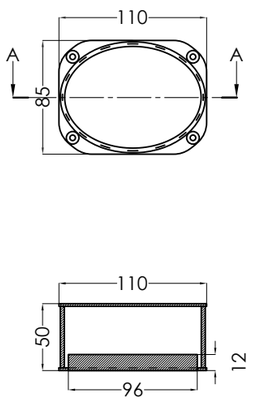
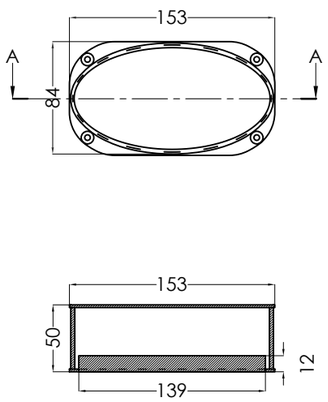
Cross - Section- SPIGOT DAMPER

OVAL

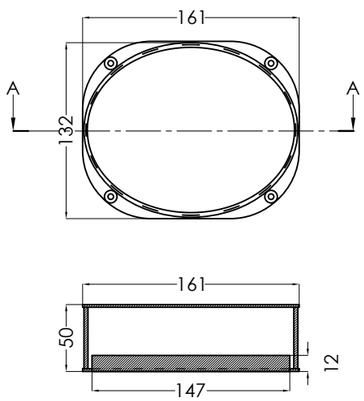
S100OD- Ø100



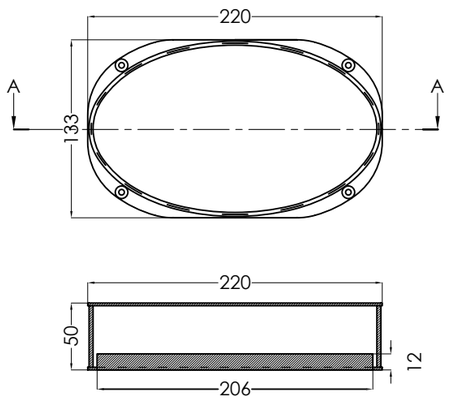
S125OD- Ø125



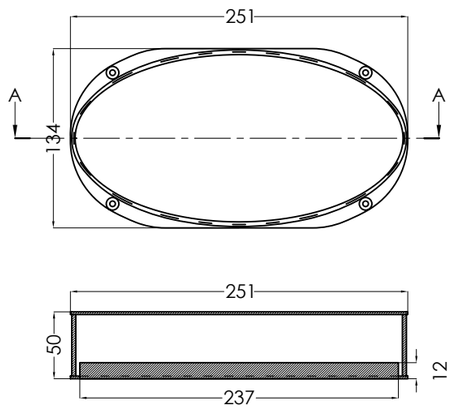
S150OD- Ø150



S180OD- Ø180



S200OD- Ø200



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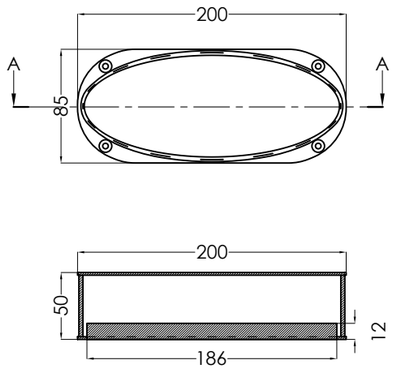
DAMPER SPIGOT

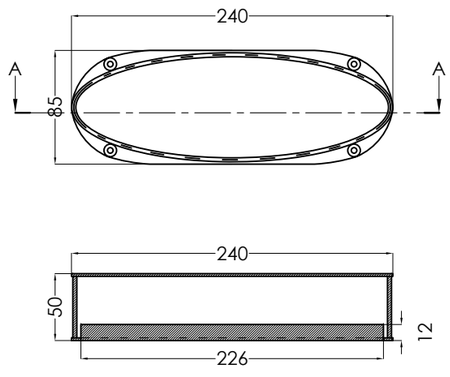
Cross - Section- SPIGOT DAMPER

EXTRA OVAL

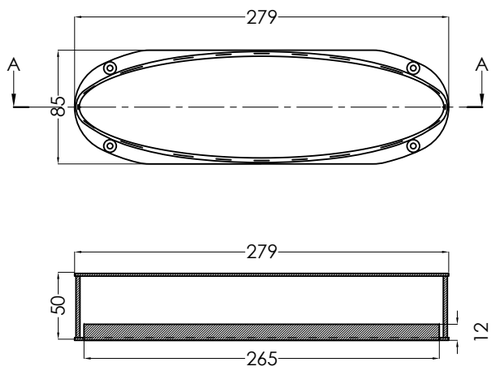
S150EO D- Ø150



S180EOD- Ø180



S200EOD- Ø200



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(+357) 25 828 114

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www.dellinas.eu/contact/

If you are interested in becoming a VENTUS shop owner, please contact us D.Ellinas headquarters by email:

globalmarketing@dellinas.eu

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12.09.2025