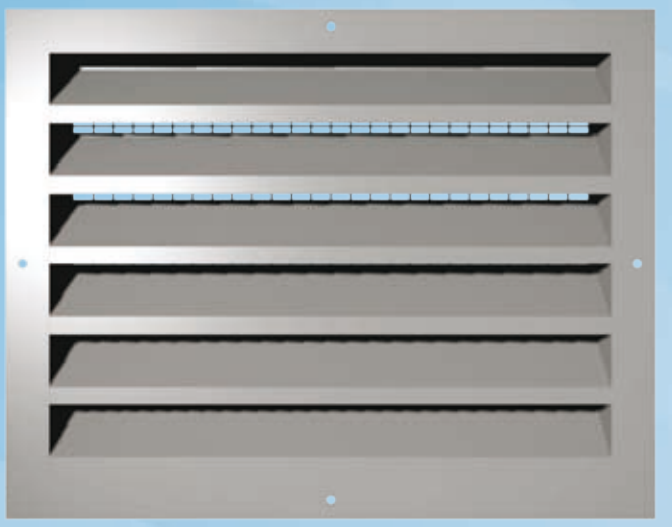
GPA

External Louvre



- External louvre for air intake and exhaust to prevent rain, snow, leaves and animal ingress
- Anodized or polyester-painted aluminium design
- Low pressure drop
- Modular construction available for large sizes
- Installation frame for fast and easy mounting is included as standard

Product model options and Accessories

- Circular model

MATERIAL AND FINISHING

Rectangular louvre

PART	MATERIAL	FINISHING	NOTE
Frame	Aluminium	Anodized Polyester-painted / White RAL 9010, 50% gloss	Special colours available Epoxy-painting (100%) available
Fixed blades	Aluminium	Anodized Polyester-painted / White RAL 9010, 50% gloss	Special colours available Epoxy-painting (100%) available
Installation frame	Galvanised steel		

Circular louvre

PART	MATERIAL	FINISHING	NOTE
Frame	Aluminium	Polyester-painted / White RAL 9010, 50% gloss	Special colours available Epoxy-painting (100%) available
Fixed blades	Steel	Polyester-painted / White RAL 9010, 50% gloss	Special colours available Epoxy-painting (100%) available

The bevel angles of the frame have been welded so that the joints are almost invisible.
The blades are fastened to the frame with screws. Steel mesh (13 x 13 mm), fastened behind the louvre with springs, prevents birds, rodents and leaves from entering the ductwork.

QUICK SELECTION

WxH [mm]	q(1m/s)) [l/s]	[m³/h]	q(1,5m/s) [l/s]	[m³/h]
200x100	20	72	30	108
300x300	90	324	135	486
400x200	80	288	120	432
400x400	160	576	240	864
600x400	240	864	360	1296
800x400	320	1152	480	1728

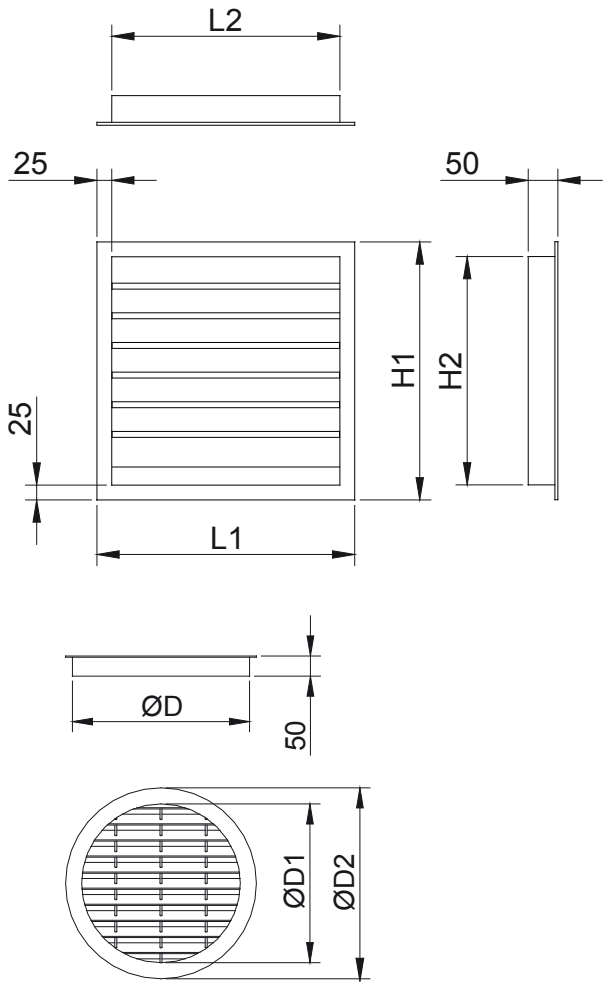
DIMENSIONS

Rectangular louvres

LxH	L1	L2	H1	H2
200x100	235	185	135	85
300x100	335	285	135	85
400x100	435	385	135	85
200x200	235	185	235	185
300x200	335	285	235	185
400x200	435	385	235	185
500x200	535	485	235	185
600x200	635	585	235	185
700x200	735	685	235	185
800x200	835	785	235	185
200x300	235	185	335	285
300x300	335	285	335	285
400x300	435	385	335	285
500x300	535	485	335	285
600x300	635	585	335	285
700x300	735	685	335	285
800x300	835	785	335	285
200x400	235	185	435	385
300x400	335	285	435	385
400x400	435	385	435	385
500x400	535	485	435	385
600x400	635	585	435	385
700x400	735	685	435	385
800x400	835	785	435	385

Circular louvres

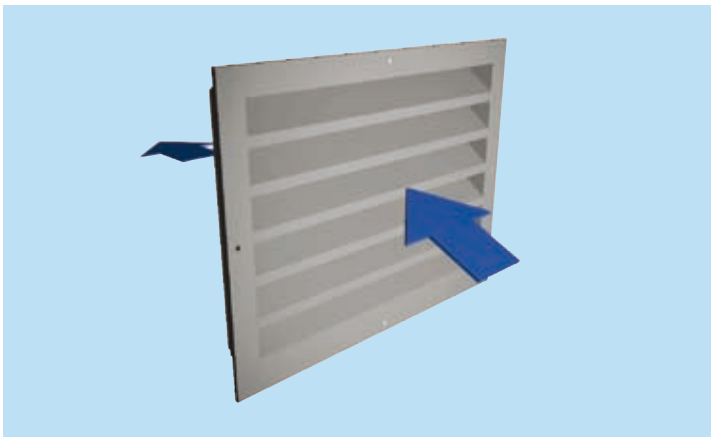
NS	D (inside)	D1	D2
450	435	395	475
500	485	445	525
560	545	495	595
630	615	565	665
710	695	645	745
800	785	735	835



Special dimensions

In addition to standard sizes, other sizes can be specially ordered. The maximum nominal size is 1500mm x 800mm.

A continuous louvre with modular construction can be supplied when the installation length is greater than 1500 mm or the height is greater than 800 mm. An assembly and alignment kit is supplied with the GPA in modular construction.



Function

Air is supplied or extracted through the horizontal blades.
The design of the louvre prevents rainwater from penetrating the ductwork.
The slot between the frame and the top blade is sealed in order to prevent rainwater from entering from above.

Installation

The louvre is installed directly into a prepared masonry wall opening using screw fastenings through factory-made holes.
For rectangular louvres, in particular for modular sections, the use of the IF installation frame is recommended..
The frames of adjacent modules can be bolted together before installing the louvre sections.

For rectangular louvres the size of installation hole is LxH when an installation frame is used, and (L-5)x(H-5) without an installation frame.

For a circular louvre the diameter of the installation hole is D-5.

ACCESSORIES

ACCESSORY	CODE	DESCRIPTION
Flow adjustment damper	ARP	Aluminium blade damper for airflow adjustment for rectangular louvre

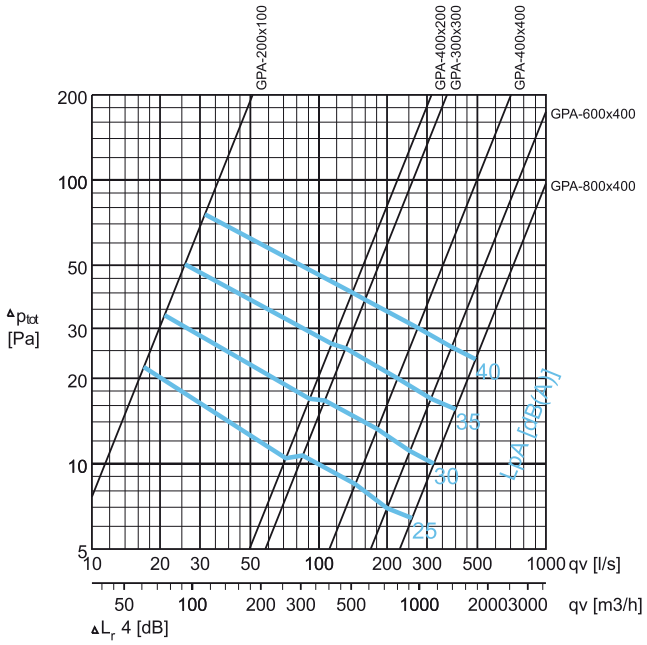
The installation frame is recommended to ensure a tidy secure installation.

Servicing

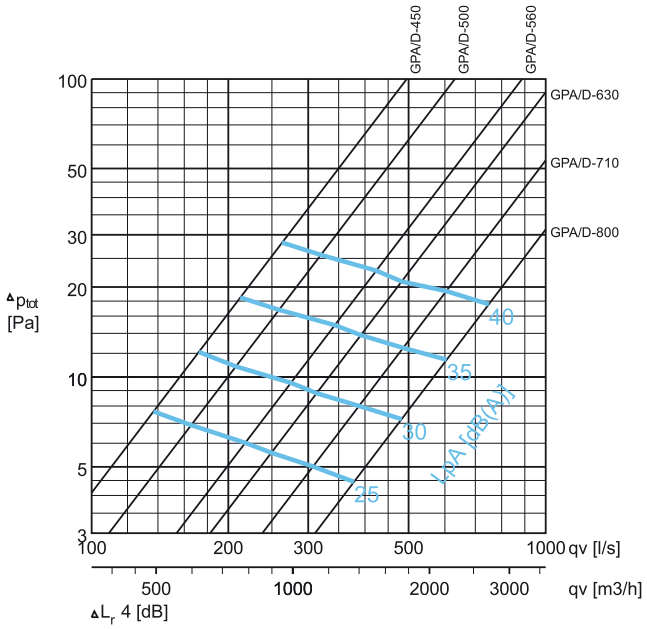
Clean the louvre using a soft-brush.

Pressure drop and sound data, exhaust

GPA/C

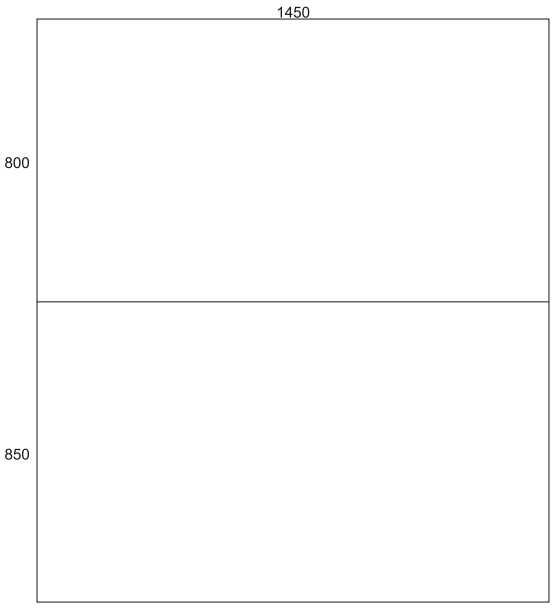


GPA/R



Modularisation

GPA 1450X1650 1999.02



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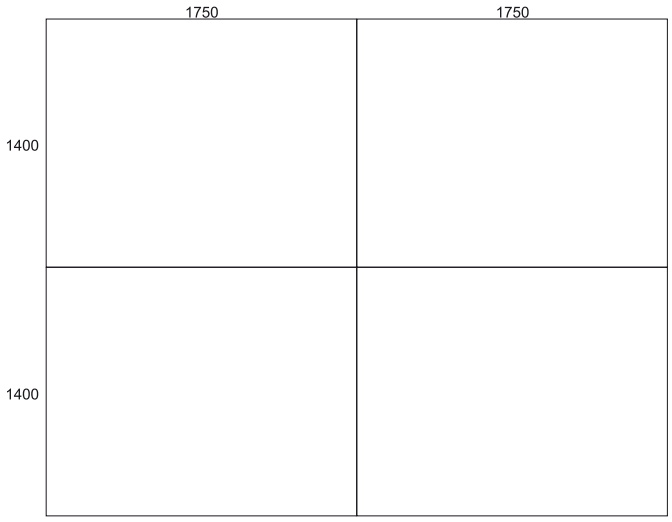

SOUND DATA

Coefficient for the grille used as an exhaust
ΔPs exhaust = ΔPs intake x 0.75
Lw exhaust = Lw intake - k

Vk = velocity in the free opening of the grille.
Vf = velocity in the front of the grille.

f(Hz)	125	250	500	1000	2000	4000	LpA
k(dB)	5,7	2,1	0,7	4	9,9	6,3	3,4

	Velocity		qv		ΔPs	F (Hz)						LpA	NR
	Vk	Vf	(m³/h)	(l/s)	Pa	125	250	500	1000	2000	4000	dB(A)	
200x100	1	0.7	25	7	4	24							
	1,5	1,1	37	10	8	31	18	12	11			14	
	2	1,5	49	14	14	37	26	19	18	12		21	
	2,5	1,8	62	17	22	41	31	24	23	19	10	26	19
	3	2,2	74	21	32	44	36	29	27	25	16	30	25
300x100	1	0.7	38	11	4	26							
	1,5	1,1	57	16	8	33	20	14	13			16	
	2	1,5	76	21	14	39	27	21	19	14		22	15
	2,5	1,8	95	26	22	43	33	26	25	21	12	28	21
	3	2,2	114	32	32	46	38	31	29	27	18	32	26
400x100	1	0.7	51	14	4	27	11						
	1,5	1,1	77	21	8	35	21	15	14			17	
	2	1,5	103	28	14	40	29	22	21	15		24	17
	2,5	1,8	128	36	22	44	35	28	26	22	13	29	22
	3	2,2	154	43	32	47	39	32	30	29	19	33	28
200x200	1	0.7	75	21	4	29	12						
	1,5	1,1	113	31	8	36	23	17	16			19	
	2	1,5	151	42	14	42	30	24	22	16		25	19
	2,5	1,8	188	52	22	46	36	29	28	24	15	31	24
	3	2,2	226	63	32	49	41	34	32	30	21	35	29
300x200	1	0.7	116	32	4	31	14						
	1,5	1,1	174	48	8	38	25	18	18			21	15
	2	1,5	232	64	14	43	32	26	24	18		27	21
	2,5	1,8	290	81	22	48	38	31	29	26	17	32	25
	3	2,2	348	97	32	51	43	36	34	32	23	37	31
400x200	1	0.7	157	44	4	32	15						
	1,5	1,1	235	65	8	40	26	20	19			22	16
	2	1,5	313	87	14	45	34	27	26	20	11	29	22
	2,5	1,8	392	109	22	49	39	32	31	27	18	34	27
	3	2,2	470	131	32	52	44	37	35	34	24	38	33
500x200	1	0.7	197	55	4	33	16	11	11			15	
	1,5	1,1	296	82	8	41	27	21	20	11		23	17
	2	1,5	395	110	14	46	35	28	27	21	12	30	23
	2,5	1,8	493	137	22	50	40	33	32	28	19	35	28
	3	2,2	592	164	32	53	45	38	36	35	25	39	34
600x200	1	0.7	238	66	4	34	17	11	11			16	
	1,5	1,1	357	99	8	41	28	22	21	12		24	18
	2	1,5	476	132	14	47	35	29	27	21	13	30	24
	2,5	1,8	595	165	22	51	41	34	33	29	20	36	29
	3	2,2	714	198	32	54	46	39	37	35	26	40	34
700x200	1	0.7	279	77	4	35	18	12	12			16	
	1,5	1,1	418	116	8	42	29	22	21	12		25	19
	2	1,5	557	155	14	47	36	29	28	22	13	31	25
	2,5	1,8	697	194	22	51	42	35	33	30	21	36	30
	3	2,2	836	232	32	55	47	40	38	36	26	41	35
800x200	1	0.7	319	89	4	35	18	13	13			17	
	1,5	1,1	479	133	8	43	29	23	22	13		25	20
	2	1,5	639	177	14	48	37	30	29	23	14	32	26
	2,5	1,8	798	222	22	52	43	36	34	30	21	37	30
	3	2,2	958	266	32	55	47	40	38	37	27	41	36
200x300	1	0.7	120	33	4	31	14						
	1,5	1,1	180	50	8	38	25	19	18			21	15
	2	1,5	240	67	14	44	32	26	24	19		27	21
	2,5	1,8	300	83	22	48	38	31	30	26	17	33	26
	3	2,2	360	100	32	51	43	36	34	32	23	37	31
300x300	1	0.7	185	51	4	33	16	10	10			14	
	1,5	1,1	277	77	8	40	27	20	20	11		23	17
	2	1,5	369	103	14	46	34	28	26	20	12	29	23
	2,5	1,8	462	128	22	50	40	33	32	28	19	34	28
	3	2,2	554	154	32	53	45	38	36	34	25	39	33
400x300	1	0.7	249	69	4	34	17	12	12			16	
	1,5	1,1	374	104	8	42	28	22	21	12		24	18
	2	1,5	499	139	14	47	36	29	28	22	13	31	25
	2,5	1,8	624	173	22	51	41	35	33	29	20	36	29
	3	2,2	748	208	32	54	46	39	37	36	26	40	35
500x300	1	0.7	314	87	4	35	18	13	13			17	
	1,5	1,1	471	131	8	43	29	23	22	13		25	20
	2	1,5	629	175	14	48	37	30	29	23	14	32	26
	2,5	1,8	786	218	22	52	42	36	34	30	21	37	30
	3	2,2	943	262	32	55	47	40	38	37	27	41	36
600x300	1	0.7	379	105	4	36	19	14	13			18	
	1,5	1,1	569	158	8	43	30	24	23	14		26	21
	2	1,5	758	211	14	49	37	31	29	23	15	32	27
	2,5	1,8	948	263	22	53	43	36	35	31	22	38	31
	3	2,2	1137	316	32	56	48	41	39	37	28	42	36
700x300	1	0.7	444	123	4	37	20	14	14			18	
	1,5	1,1	666	185	8	44	31	24	23	14		27	21
	2	1,5	888	247	14	49	38	31	30	24	15	33	27
	2,5	1,8	1110	308	22	53	44	37	35	32	23	38	32
	3	2,2	1332	370	32	57	49	42	40	38	28	43	37

	Velocity		qv		ΔPs	F (Hz)						LpA	NR
	Vk	Vf	(m³/h)	(l/s)	Pa	125	250	500	1000	2000	4000	dB(A)	
800x300	1	0.7	509	141	4	37	21	15	15			19	
	1,5	1,1	763	212	8	45	31	25	24	15		27	22
	2	1,5	1017	283	14	50	39	32	31	25	16	34	28
	2,5	1,8	1272	353	22	54	45	38	36	32	23	39	33
	3	2,2	1526	424	32	57	49	42	40	39	29	43	38
200x400	1	0.7	170	47	4	32	16	10				14	
	1,5	1,1	255	71	8	40	26	20	19	10		23	17
	2	1,5	340	94	14	45	34	27	26	20	11	29	23
	2,5	1,8	425	118	22	49	40	33	31	28	18	34	27
	3	2,2	509	142	32	53	45	37	35	34	24	39	33
300x400	1	0.7	262	73	4	34	18	12	12			16	
	1,5	1,1	392	109	8	42	28	22	21	12		24	19
	2	1,5	523	145	14	47	36	29	28	22	13	31	25
	2,5	1,8	654	182	22	51	42	35	33	30	20	36	29
	3	2,2	785	218	32	54	46	39	37	36	26	40	35
400x400	1	0.7	353	98	4	36	19	13	13			17	
	1,5	1,1	530	147	8	43	30	23	22	13		26	20
	2	1,5	707	196	14	48	37	30	29	23	14	32	26
	2,5	1,8	884	245	22	52	43	36	34	31	22	37	31
	3	2,2	1060	295	32	56	48	41	39	37	27	42	36
500x400	1	0.7	445	124	4	37	20	14	14			18	
	1,5	1,1	668	186	8	44	31	24	24	14		27	21
	2	1,5	890	247	14	49	38	31	30	24	15	33	27
	2,5	1,8	1113	309	22	53	44	37	35	32	23	38	32
	3	2,2	1336	371	32	57	49	42	40	38	29	43	37
600x400	1	0.7	537	149	4	37	21	15	15			19	
	1,5	1,1	806	224	8	45	31	25	24	15		28	22
	2	1,5	1074	298	14	50	39	32	31	25	16	34	28
	2,5	1,8	1343	373	22	54	45	38	36	33	23	39	33
	3	2,2	1611	448	32	58	50	42	40	39	29	44	38
700x400	1	0.7	629	175	4	38	21	16	16			20	15
	1,5	1,1	943	262	8	46	32	26	25	16		28	23
	2	1,5	1258	349	14	51	40	33	32	26	17	35	29
	2,5	1,8	1572	437	22	55	45	39	37	33	24	40	34
	3	2,2	1886	524	32	58	50	43	41	40	30	44	38
800x400	1	0.7	721	200	4	39	22	16	16			20	15
	1,5	1,1	1081	300	8	46	33	26	26	16		29	24
	2	1,5	1441	400	14	51	40	34	32	26	17	35	30
	2,5	1,8	1802	500	22	56	46	39	37	34	25	40	35
	3	2,2	2162	601	32	59	51	44	42	40	31	45	39
Ø450	1	0,8	334	93	4	35	19	13	13			17	
	1,5	1,1	501	139	8	43	29	23	22	13		25	20
	2	1,5	668	186	14	48	37	30	29	23	14	32	26
	2,5	1,9	835	232	22	52	43	36	34	31	21	37	31
	3	2,3	1002	278	32	56	48	40	38	37	27	41	36
Ø500	1	0,8	426	118	4	36	20	14	14			18	
	1,5	1,1	639	177	8	44	30	24	23	14		27	21
	2	1,5	852	237	14	49	38	31	30	24	15	33	27
	2,5	1,9	1065	296	22	53	44	37	35	32	22	38	32
	3	2,3	1278	355	32	57	49	41	39	38	28	43	37
Ø560	1	0,8	601	167	4	38	21	16	15			20	14
	1,5	1,1	901	250	8	45	32	26	25	16		28	23
	2	1,5	1202	334	14	51	39	33	31	25	17	34	29
	2,5	1,9	1502	417	22	55	45	38	37	33	24	40	34
	3	2,3	1802	501	32	58	50	43	41	39	30	44	38
Ø630	1	0,8	713	198	4	39	22	16	16			20	15
	1,5	1,1	1069	297	8	46	33	26	26	16		29	24
	2	1,5	1426	396	14	51	40	34	32	26	17	35	30
	2,5	1,9	1782	495	22	55	46	39	37	34	25	40	34
	3	2,3	2138	594	32	59	51	44	42	40	31	45	39
Ø710	1	0,8	928	258	4	40	23	17	17			21	16
	1,5	1,1	1392	387	8	47	34	27	27	18		30	25
	2	1,5	1855	515	14	53	41	35	33	27	19	36	31
	2,5	1,9	2319	644	22	57	47	40	39	35	26	41	36
	3	2,3	2783	773	32	60	52	45	43	41	32	46	40
Ø800	1	0,8	1211	336	4	41	24	19	18			23	18
	1,5	1,1	1816	504	8	48	35	29	28	19	10	31	26
	2	1,5	2421	673	14	54	42	36	35	29	20	37	32
	2,5	1,9	3026	841	22	58	48	41	40	36	27	43	37
	3	2,3	3632	1009	32	61	53	46	44	42	33	47	41

LpA : Sound pressure levels with 4 dB room attenuation
Nr : Values with 4 dB room attenuation

Suggested specifications

Rectangular louvre

The rectangular external louvre shall be made of extruded anodised aluminium (or extruded aluminium, polyester-painted with white RAL 9010 as standard colour.
The external louvre shall comprise horizontal blades 40 mm high, a 25 mm wide flat frame and a 13mm*13mm steel mesh.
The louvre shall be supplied with an installation frame.
For large openings the louvre shall be supplied in modular sections.

Circular louvre

The circular external louvre shall be made of extruded aluminium blades and steel frame, and be polyester-painted with white RAL 9010 as standard colour.
The external louvre shall have horizontal blades 40 mm high, a circular wide flat frame and a 13mm*13mm steel mesh.

The bevel angles of the frame shall be welded so that the joints are almost invisible.
The blades shall be fastened to the frame with screws.
The mesh shall be fitted with springs.

Product code

GPA/S-W-H-D

S = Type of duct connection

R	Rectangular
C	Circular

W = Width

S=R: 200,+10,..,10000

H = Height

S=R: 100,+10,..,1200

D = Diameter of duct connection

S=C: 450, 500, 560, 630, 710, 800

Specifics and accessories

FI = Finishing

PN	Painted
AN	Anodised

CO = Colour

W	White
X	Special colour
N	No painting

Code example

GPA/R-200-100, FI=PN,CO=W

Sub products

ARP	Over pressure access door