



Rectangular Wall Terminals

APO / APC / APR

Introduction

AP units are used in comfort installations to provide displacement ventilation. They are designed for applications requiring high airflows combined with attractive appearance.

APC / APR consist of a solid casing with fully welded corners, a perforated front plate and an air distribution plate with nozzles fitted into the casing. As standard, the front plate and the distribution plate are screwed in and removable. On request the front plate can be fixed with magnets.

APO consists of a solid frame with welded corners, removable front plate and an air distribution plate with nozzles fitted in the frame.

Product Description

- APC** Rectangular wall unit with casing and circular spigot
 - APR** Rectangular wall unit with casing and rectangular spigot
 - APO** Recessed wall unit with built-in plenum
 - AP--/1** Front plate with a 20mm plain flange
 - AP--/0** Fully perforated front plate
- Optional Base and Duct cover

Features

- Compact design
- Several versions
- Standard and special sizes

Material

Front panel: 1.25mm hot-dipped galvanised steel

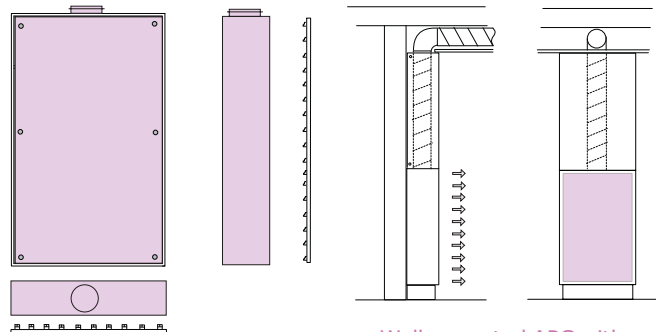
Casing, frame and distribution plate: 0.7-1mm (depending on size) electro-galvanised steel, solid construction with fully welded corners.

Visible parts powder painted as standard in PPG9010.

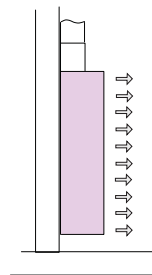
Other RAL or NCS colours are available on request.

Specials and Accessories

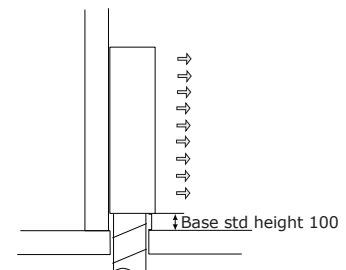
- Duct cover, maximum length 2000mm
- Base, height 100mm
- The Front plate can be supplied in 1.4301 (AISI 304) surface-brushed stainless steel.
- Other qualities available on request.
- Reinforced front 2mm or 3mm



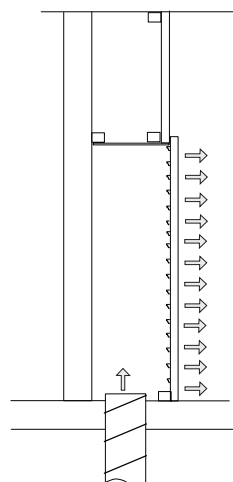
Wall-mounted APC with base and duct cover.



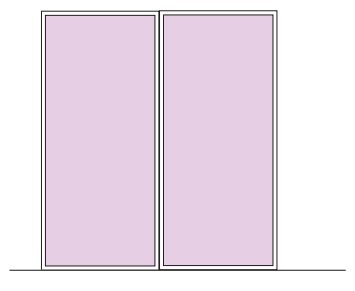
Wall-mounted APR 100mm above floor level.



Wall-mounted APC with base connection from below.



APO with recessed plenum built on site.





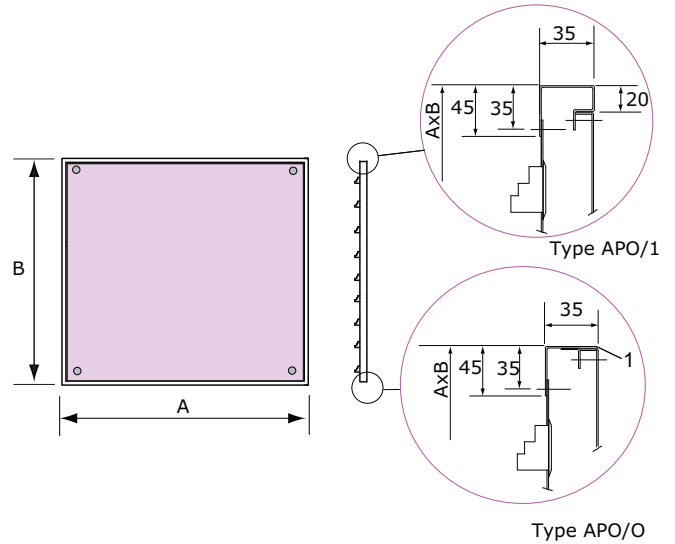
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Dimensions and Weights

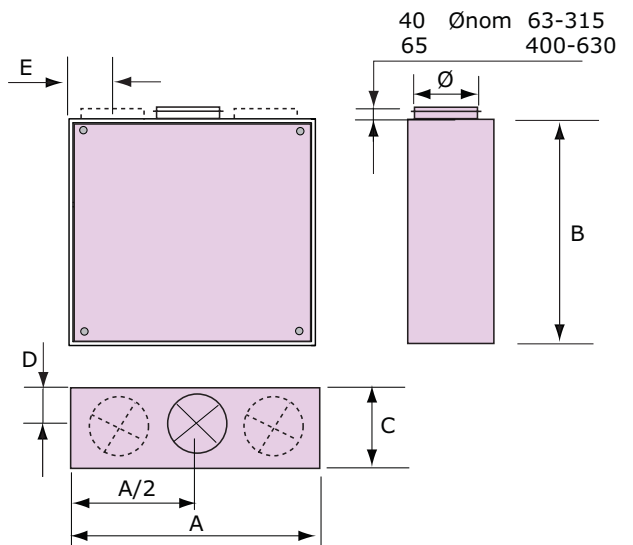
APO/1,O

APO/1,O	A	B	kg
03-06	600	300	3
05-06	600	500	5
07-06	600	700	7
10-06	600	1000	10
12-09	900	1200	17
12-12	1200	1200	24
15-09	900	1500	22
15-12	1200	1500	30
20-12	1200	2000	39



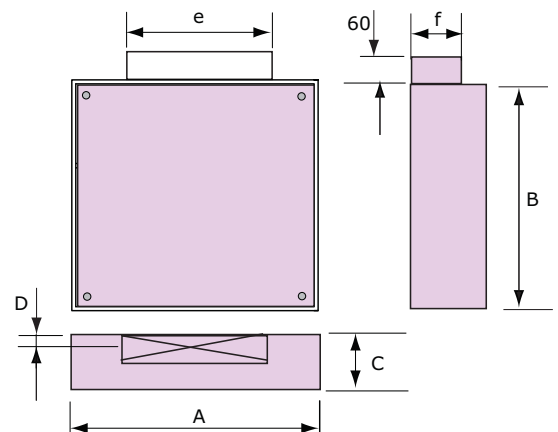
APC/1,O

APC/1,O	A	B	C	D	E	Ø	kg
03-06	600	300	160	80	-	125	7
05-06	600	500	200	100	-	160	11
07-06	600	700	250	120	-	200	15
10-06	600	1000	300	145	-	250	22
12-09	900	1200	300	145	225	2x250	37
12-12	1200	1200	300	145	300	2x250	50
15-09	900	1500	300	145	225	2x250	48
15-12	1200	1500	350	175	300	2x315	60
20-12	1200	2000	350	175	300	2x315	80



APR/1,O

APR/1,O	A	B	C	D	e	f	kg
03-06	600	300	80	24	300	45	6
05-06	600	500	80	24	450	45	9
07-06	600	700	125	46	400	90	13
10-06	600	1000	125	46	500	90	18
12-09	900	1200	135	51	700	100	31
12-12	1200	1200	135	51	900	100	41
15-09	900	1500	160	63	800	125	39
15-12	1200	1500	160	63	900	125	51
20-12	1200	2000	200	81	900	160	67

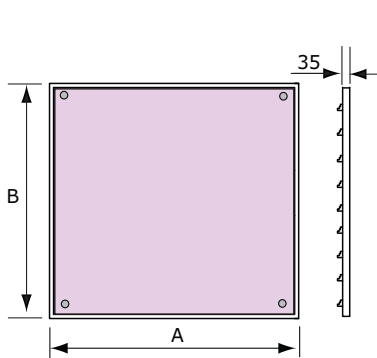




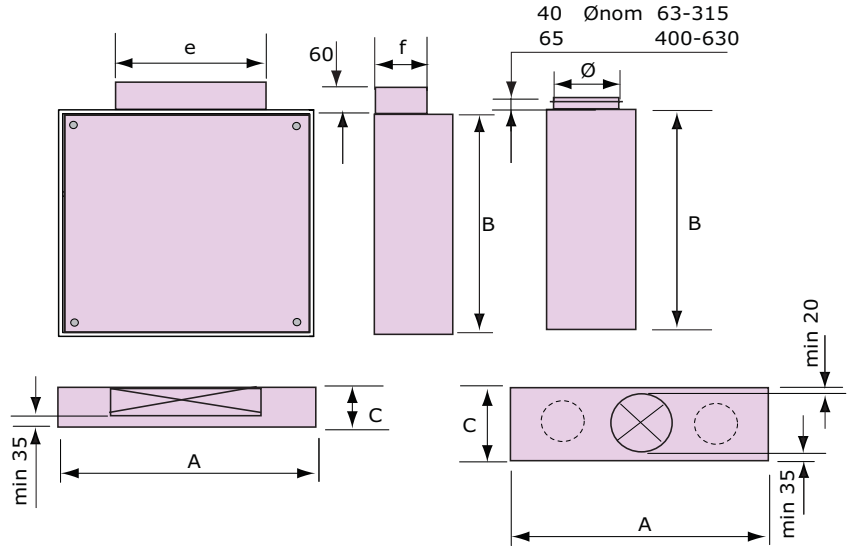
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Dimensions Specials Sizes



APO/APC/APR	Min	Max
A	300	1200
B	300	2000



Order Example

APO/1/1000/500/35/RAL9011

Type _____

Flange type _____

Width _____

Height _____

Depth - 35mm _____

Finish _____

Order Example

APC/1/1000/600/215/2x160/RAL9011

Type _____

Flange type _____

Width _____

Height _____

Depth - Spigot + 55mm _____

Spigot diameter - 125 to 315Ømm _____

Finish _____

Order Example

APR/1/1000/600/125/500x90/RAL9011

Type _____

Flange type _____

Width _____

Height _____

Depth - Spigot depth + 35mm _____

Spigot - Width x Depth _____

Finish _____

Order Example

Duct cover APC/1000/RAL9011

Type of terminal _____

Length _____

Finish _____

Order Example

Base APR/100 from top/RAL9011

Type _____

Base size and position _____

Finish _____



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Selection Criteria

APO (without plenum)

Table below is only a guideline for airflow suitable for comfort applications. The air velocity over the front face is 0.25m/s. For industrial applications the airflow can be increased (up to double). The given sound power levels increase by up to 5dB(A) and pressure drop becomes four times higher. Adjacent zone L_{O_2} will vary considerably dependant on airflow and height of terminal. Values below are for terminal sizes 1200x300, 2000x500 and 2000x1200.

To obtain more accurate data, please contact your representative.

APC, APR

Sound level and pressure drop can be higher dependant on actual plenum size and connection used. To obtain data, please contact your representative or select a standard size.

Performance Table

Airflow in l/s Width / Height Size x 100 in mm

Width \ Height	03	04	05	06	07	08	09	10	11	12
03	17	23	30	36	43	49	55	62	68	74
04	23	32	41	50	59	68	77	86	95	105
05	30	41	53	65	76	87	99	115	122	134
06	36	50	65	78	92	106	120	135	149	163
07	43	59	76	92	109	125	142	159	175	192
08	49	68	87	106	125	145	163	183	202	220
09	55	77	99	120	142	163	185	206	228	250
10	62	86	110	135	159	182	206	230	255	280
11	68	95	122	149	175	202	228	255	280	307
12	74	104	134	163	192	220	250	280	307	336
13	81	114	145	177	208	240	270	303	335	365
14	87	123	157	191	225	258	293	326	360	395
15	94	132	168	204	241	277	315	350	387	425
16	100	141	180	218	257	295	335	375	415	455
17	106	150	191	232	274	315	357	400	440	480
18	113	159	202	246	290	335	380	425	466	510
19	120	168	314	260	307	355	400	447	493	540
20	125	175	221	269	317	365	413	470	520	570

$L_{WA} \leq 30 \text{ dB(A)}$
 $\Delta p \leq 8 \text{ Pa}$
 $L_{O_2} \Delta tu \text{ 3k} \leq 1.3\text{m}$
 $L_{O_2} \Delta tu \text{ 6k} \leq 2\text{m}$

$L_{WA} \leq 35 \text{ dB(A)}$
 $\Delta p \leq 8 \text{ Pa}$
 $L_{O_2} \Delta tu \text{ 3k} \leq 2\text{m}$
 $L_{O_2} \Delta tu \text{ 6k} \leq 3.2\text{m}$

$L_{WA} \leq 38 \text{ dB(A)}$
 $\Delta p \leq 8 \text{ Pa}$
 $L_{O_2} \Delta tu \text{ 3k} \leq 2.5\text{m}$
 $L_{O_2} \Delta tu \text{ 6k} \leq 4\text{m}$



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Quick selection table APR standard sizes

The velocity over the front is 0.25m/s

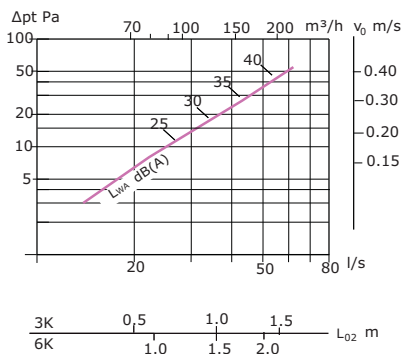
dB(A) value as sound power level L_{WA}

Adjacent zones L_{O2} for under temperature 3K and 6K

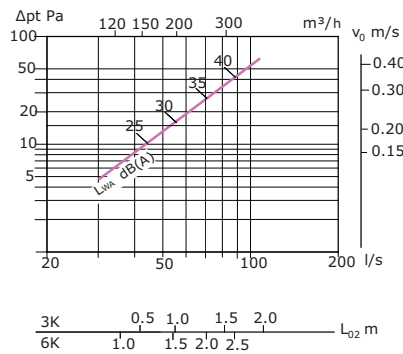
Size	l/s	dB(A)	L_{O2} m
03-06	35	30	1/1.6
05-06	65	33	1.2/2
07-06	90	32	1.3/2
10-06	130	31	1.5/2.4
12-09	250	36	1.8/2.8
15-09	310	35	2.0/3.2
12-12	330	37	2.0/3.2
15-12	415	38	2.2/3.5
20-12	570	40	2.5/4

Technical Data APR

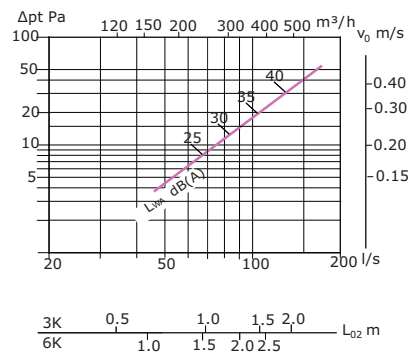
APR-03-06



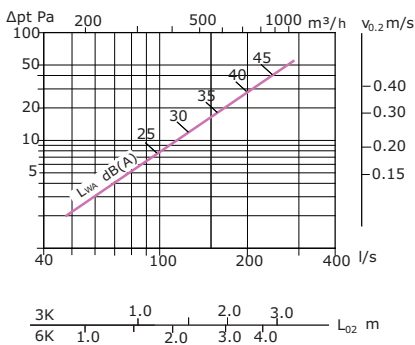
APR-05-06



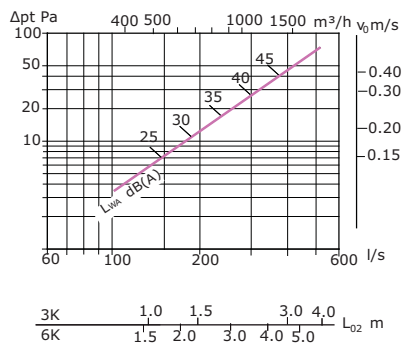
APR-07-06



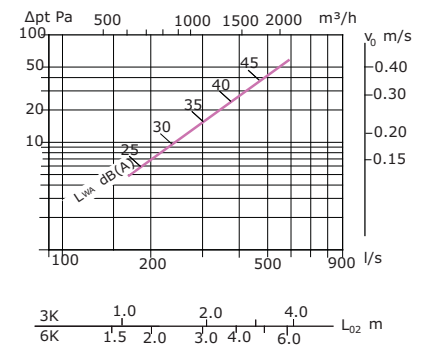
APR-10-06



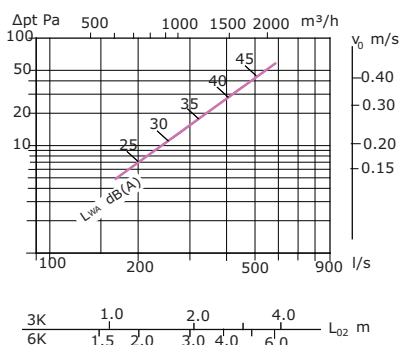
APR-12-09



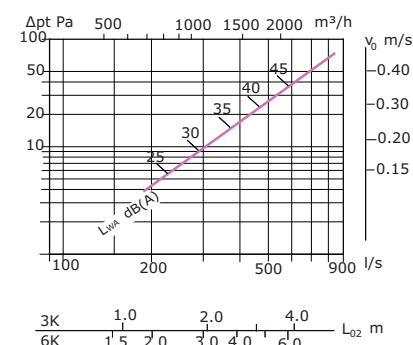
APR-12-12



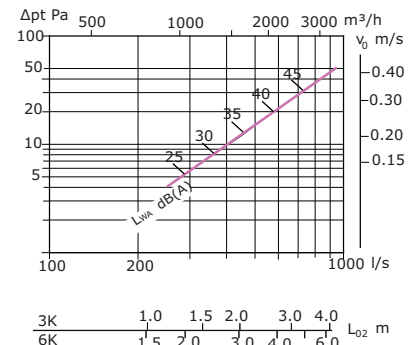
APR-15-09



APR-15-12



APR-20-12





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Quick selection table APC standard sizes

The velocity over the front is 0.25m/s

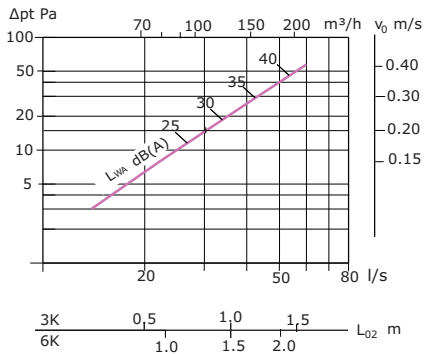
dB(A) value as sound power level L_{WA}

Adjacent zones L_{O2} for under temperature 3K and 6K

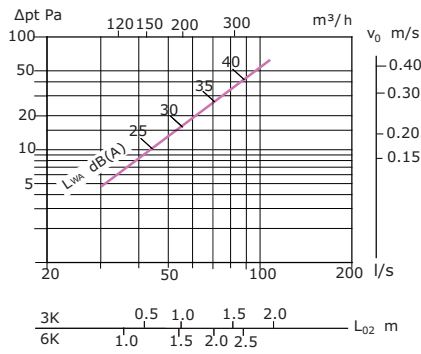
Size	l/s	dB(A)	L_{O2} m
03-06	35	31	1/1.5
05-06	65	33	1.2/1.9
07-06	90	32	1.3/2
10-06	130	29	1.5/2.4
12-09	250	32	1.8/2.8
15-09	310	34	2.0/3.2
12-12	330	35	2.0/3.2
15-12	415	33	2.2/3.5
20-12	570	37	2.5/4

Technical Data APC

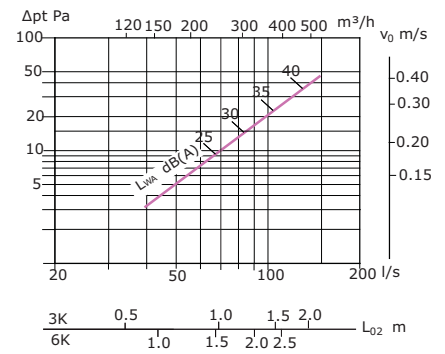
APC-03-06



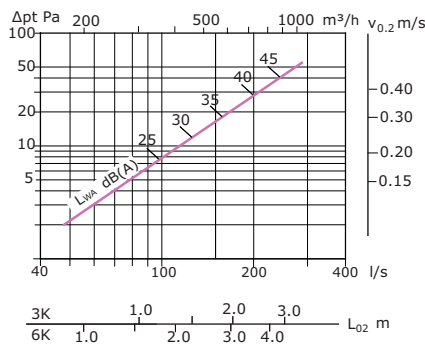
APC-05-06



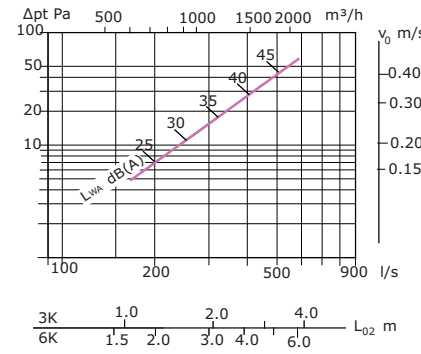
APC-07-06



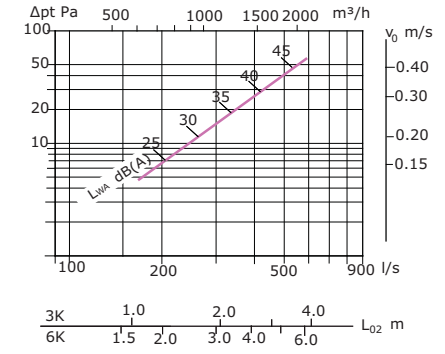
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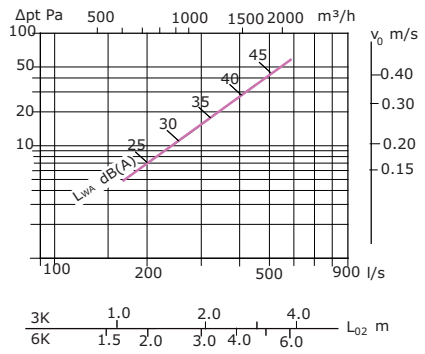
APC-12-09



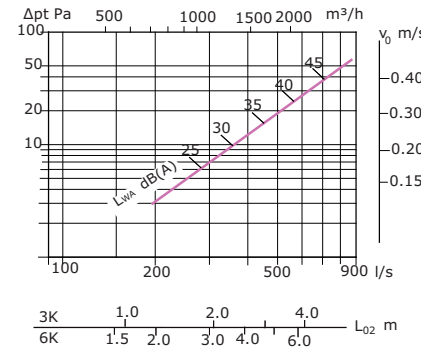
APC-12-12



APC-15-09



APC-15-12



APC-20-12

