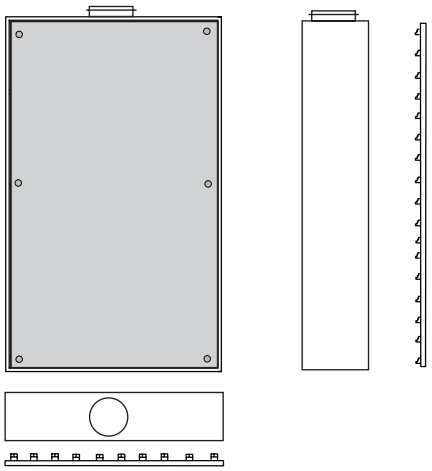
APO/APC/APR

Displacement unit for wall mounting

- **High finish**
- **Compact design**
- **Several versions**
- **Special sizes**



AP units are used in comfort installations to provide displacement ventilation. They are designed for applications requiring high air flows linked to attractive appearance. APC/APR are mounted to a wall with a base and duct cover as accessory. APO is assembled on a wall with a recessed plenum built on site.

Design
APO/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 nozzle plate are screwed in and removable. screws.
On request the front plate can be fixed with magnets.

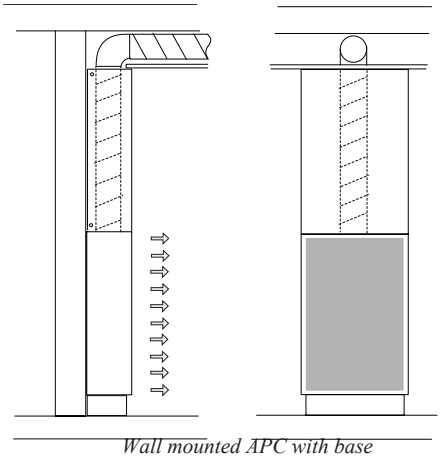
APO consist of a solid frame with welded corners, removable front plate and a nozzle plate fitted in the frame.

Versions
AP... /1 has a 20mm frame on the frontface.
AP.../ O is without frame se fig. on Page 2.

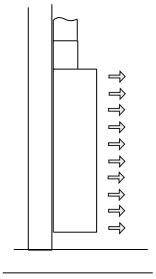
Material
Front is made in 1.25mm hot dipped galvanized sheet steel. Casing, frame and distribution plate in 0.7-1mm (depending on size) electro galvanized sheet steel. Visible parts powder painted as standard in RAL 9010. Other colours according to RAL or NCS are available on request..

Specials versions
Stainless steel Standard EN 1.4301 visible surface brushed
Other qualities on request

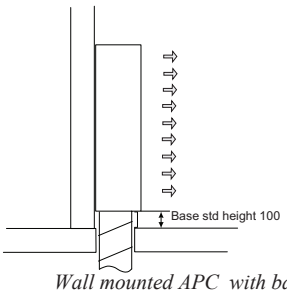
Reinforced front 2mm alt. 3mm



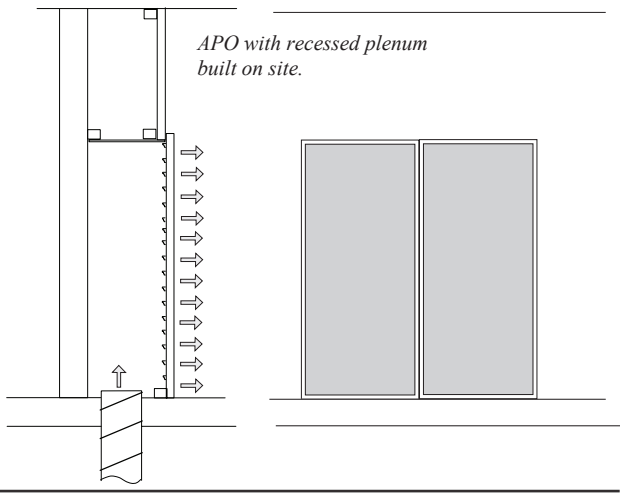
Wall mounted APC with base and duct cover.



Wall mounted APR 100 above floor level.



Wall mounted APC with base connection from below.



APO with recessed plenum built on site.

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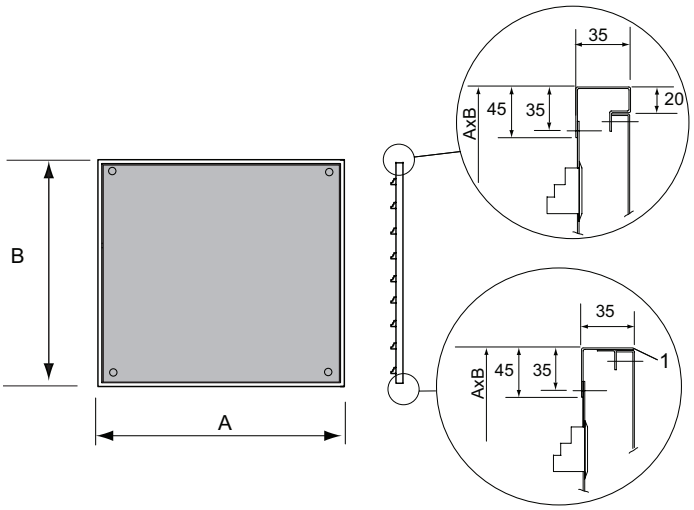
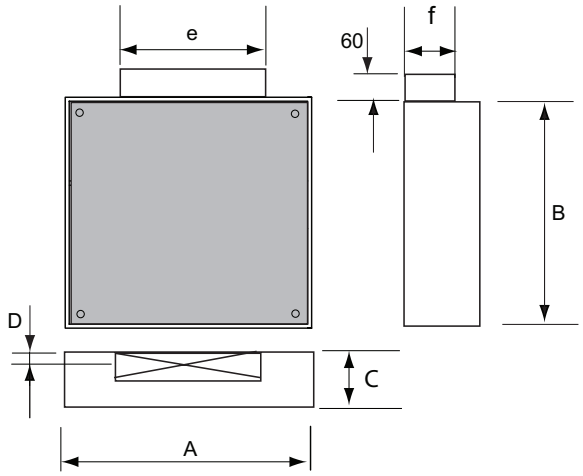
Dimensions Specials sizes

Type APO



Type APC/APR



APO/APC/APR	Max	Min
A	1200	300
B	2000	300
C	500	-

Technical Data

APO ***(without plenum)***

Table 1 is only a guide line of suitable air flows for comfort applications. The air velocity over the front face is 0.25 m/s. For industrial applications the air flow can be increased up to double air flow. The given sound power levels increases with up to 5dB(A) and pressure drops become four times higher.The adjacent zone L 0.2 varies a lot depending on size of air flow and height of terminal .Given values are shown for terminals size 12-03,20-05 and 20-12. For more accurate data contact your nearest BEMAIR representative.

Size x100 provide height/width in mm

Table 1
Air flow l/s

Height Size	Width 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	251	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

$L_{WA} \leq 30$ dB(A)
$\Delta p \leq 8$ Pa
$L_{0.2}$ Δtu 3k $\leq$ 1.3m
$L_{0.2}$ Δ tu 6k $\leq$ 2m

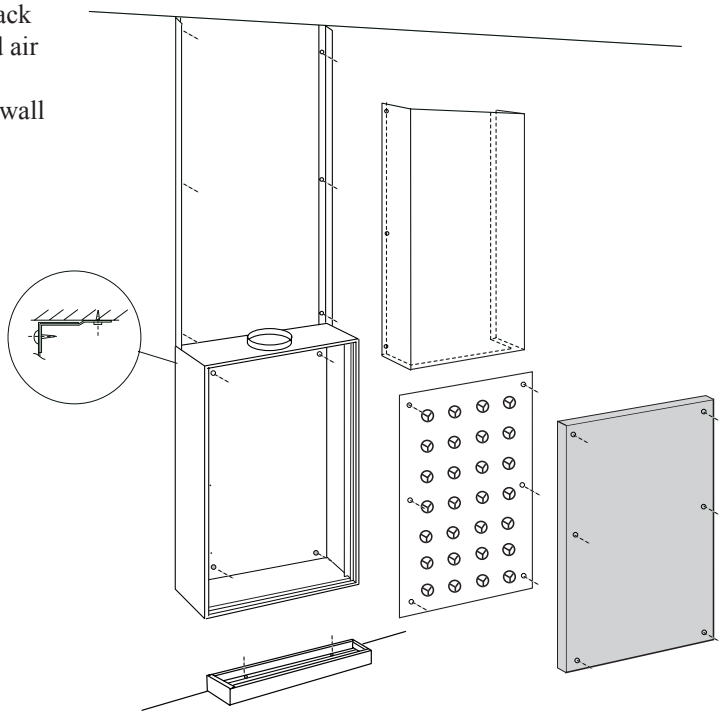
$L_{WA} \leq 35$ dB(A)
$\Delta p \leq 8$ Pa
L 0.2 Δtu 3k $\leq$ 2m
L 0.2 Δtu 6k $\leq$ 3. 2m

$L_{WA} \leq 38$ dB(A)
$\Delta p \leq 8$ Pa
L 0.2 Δtu 3k $\leq$ 2.5m
L 0.2 Δtu 6k $\leq$ 4m

APC,APR

Sound level and pressure drop can be higher dependant on actual plenum size and connection used. For more accurate data contact your nearest BEMAIR representative.

Assembly
APC/APR units are mounted on a wall . The unit is fitted to the wall by screwing through the back plate after having removed the front panel and air distribution panel.
APO units are mounted in the same way to a wall with a recessed plenum.



Maintenance
There are no part in the units that have to be replaced. If necessary clean front with water and mild detergent.

Specification
BEMAIR APO/1 alt.. O to be mounted on walls Width ..... mm Height ..... mm depth 35mm

BEMAIR APC/APR/1 alt.O low velocity unit to be mounted on walls, Width ..... mm Height ..... mm Depth .....mm . APC with connection diameter Ø.....mm.
APR with rectangular connection ..... mm.

Casing of a solid construction with fully welded corners.
Internal air distribution plate with nozzles made in electro galvanized sheet steel
Perforated front and casing powder coated galvanized sheet steel in RAL9010 or special colour according to RAL or NCS.

Accessories.

Duct cover with length .....mm (max 2000)
Base :height 100mm

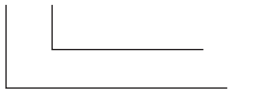
Special versions

Reinforced front in 2mm (alt.... 3mm) perforated sheet steel and u- profiles behind front as support.

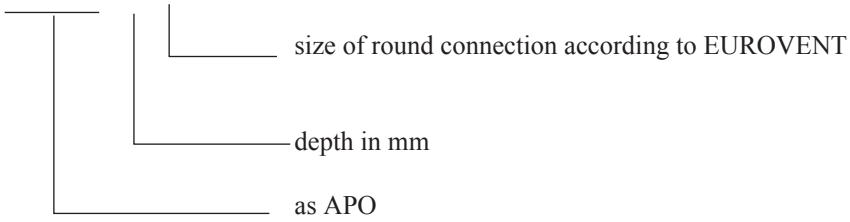
Product code

Special size

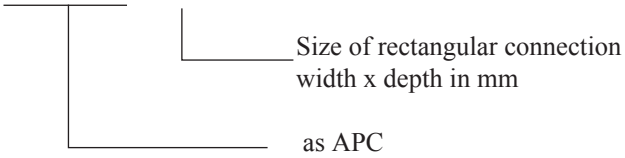
APO/1 alt O-xxx-yyy



APC/1 alt. O-xxx-yyy-zzz- Ø RAL 9010 (alt. Other RAL or NCS)



APR/1 alt. O-xxx-yyy-zzz-exf RAL 9010 (alt. Other RAL or NCS)



Duct cover AP..... L=..... colour.....

Base AP.... height 100mm connection from the top alt. from below colour.....