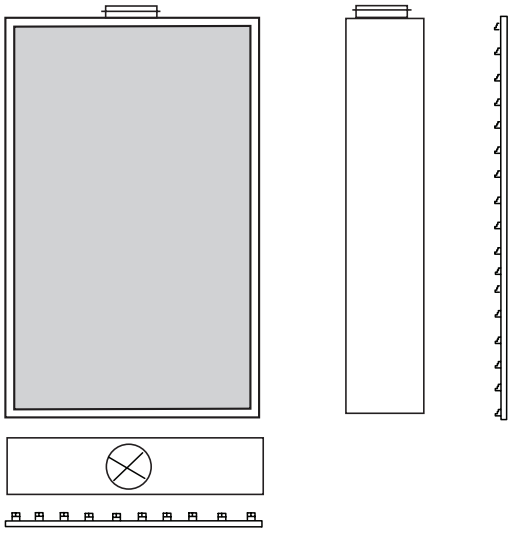
ATO/ATC/ATR

Displacement unit for wall and ceiling mounting.

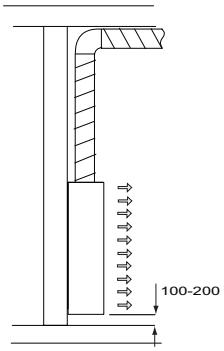
- **Compact design**
- **Suitable for ceiling mounting**
- **Special sizes**
- **Stainless steel**



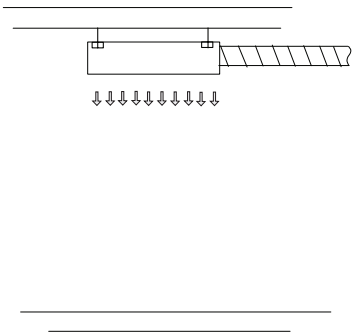
AT units are used in industrial and comfort installations to provide displacement ventilation. The units can wall mounted or hung from the ceiling. They are designed for applications requiring high air flows, such as industrial premises, laboratoies, kitchens etc.
ATC/ATR are mounted to a wall with base and duct cover as accessory. ATO is assembled on a wall with a recessed plenum built on site.
The AT units are available in stainless steel for kitchens, food industry etc.

Design
ATC/ATR includes a solid pop-riveted casing. A rigid perforated front panel is recessed in the casing, as well as an air distribution plate with nozzles to provides an even air pattern over the front. As standard, front panel and nozzle plate are removable by means of screws.
ATO consists of a solid pop riveted frame with and nozzle plate recessed in the frame.

Width, depth and connection is standardized while the height is made according to costumer's requirements.



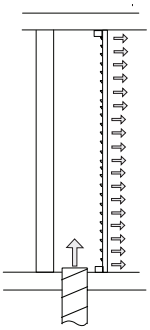
Wall mounted ATC



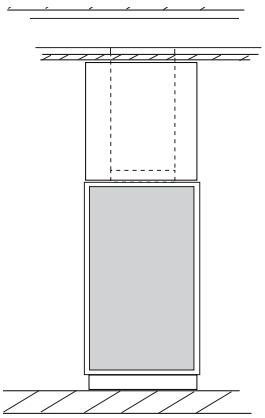
ATC hanging from the ceiling

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 RAL9010
Other colours according to RAL or NCS are available on request.

Specials versions
Other dimensions
Stainless steel Standard EN 1.4301 Surface brushed
Other qualities on request
Reinforced front 2mm alt. 3mm (flat front)



ATO mounted on a plenum built at site. Floor to ceiling height for piston ventilation.

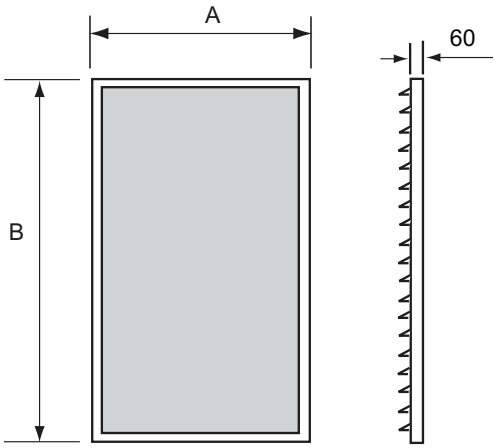


ATR mounted to a wall including base and duct cover.

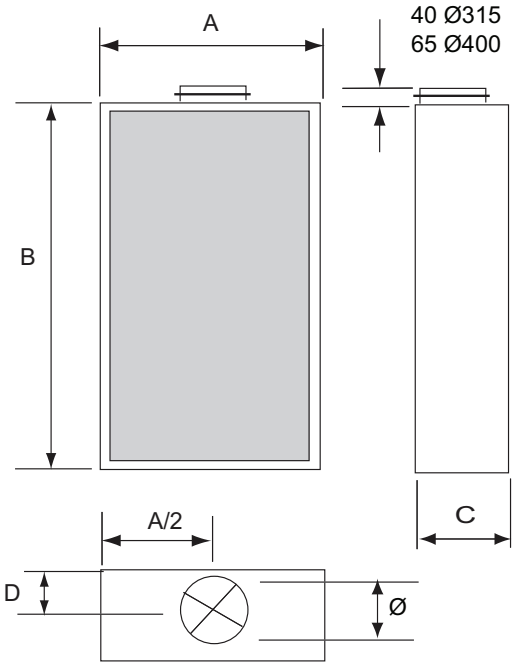
Maintenance
There are no part in the units that have to be replaced. If necessary clean front with water and mild detergent.

Dimensions and weights
B is chosen according to costumers requirement
Bs = recommended height B to suit A,C, and connection. Max B is 2500

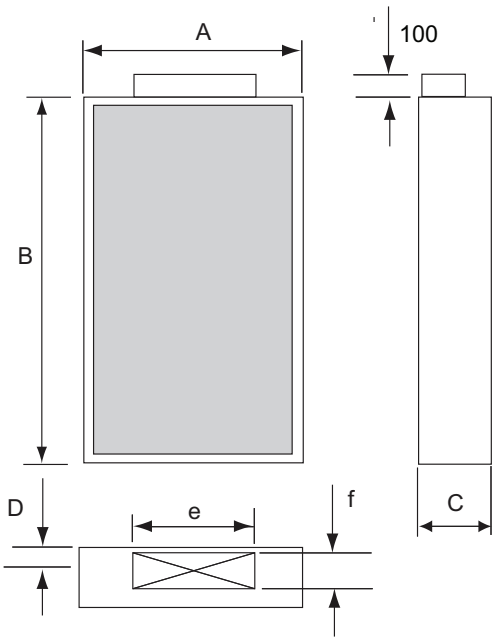
ATO	A	Bs	kg
12-06	590	1190	14
20-06	590	2000	24
20-12	1190	2000	43



ATC	A	Bs	C	D	Ø	kg
250-06	590	1190	350	145	250	22
315-06	590	2000	350	175	315	36
315-12	1190	2000	350	175	315	62
400-12	1190	2000	450	220	400	68



ATR	A	Bs	C	D	e	f	kg
200x600-12	1190	2000	250	110	600	200	58
250x800-12	1190	2000	350	145	800	250	63



Technical Data

ATO ***(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.

Table 1

Air flow l/s

Size x100 provide height/width in mm

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 $\leq$ 1.4m
$L_{0.2}$ Δ tu 6k $\leq$ 2.4m

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

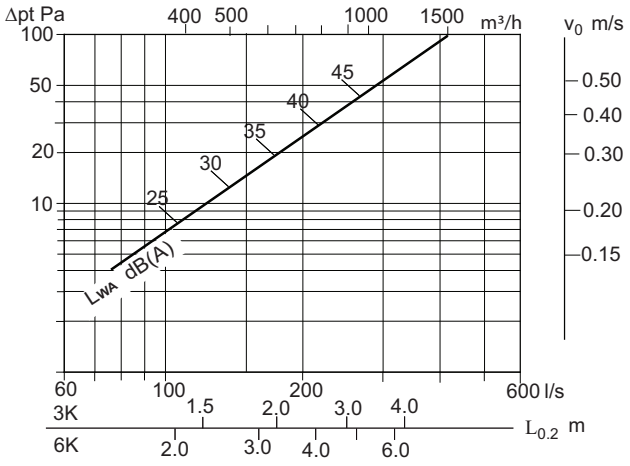
$L_{WA} \leq 38$ dB(A)
$\Delta p \leq 8$ Pa
L 0.2 Δtu 3k $\leq$ 2.7m
L 0.2 Δtu 6k $\leq$ 4.4m

APC,APR

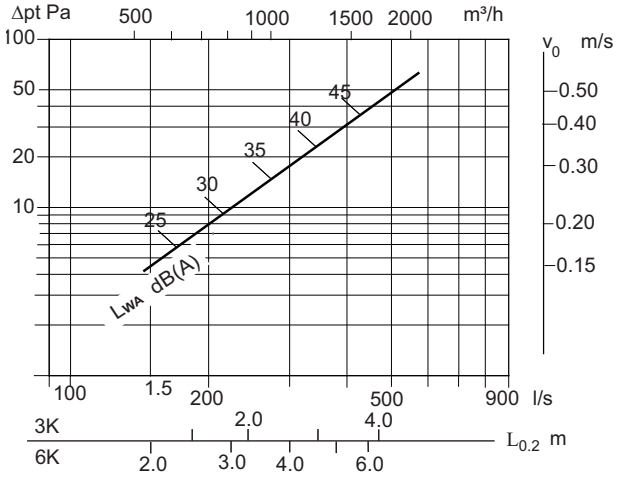
Sound level and pressure drop can be higher dependant on actual plenum size and connection used. For more accurate data contact your nearest BEMAIR representative.

Technical Data ATC/ATR recommended sizes

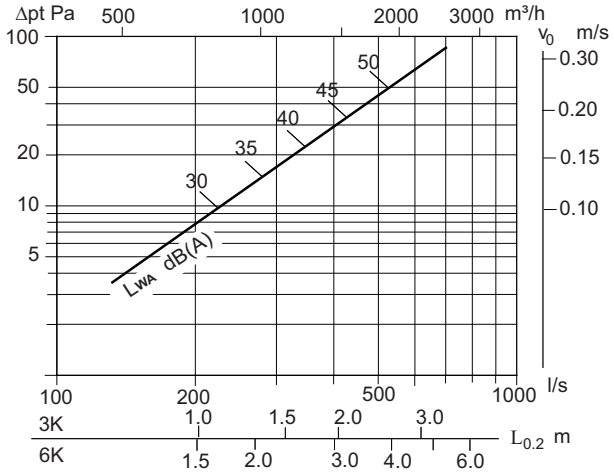
ATC250-06



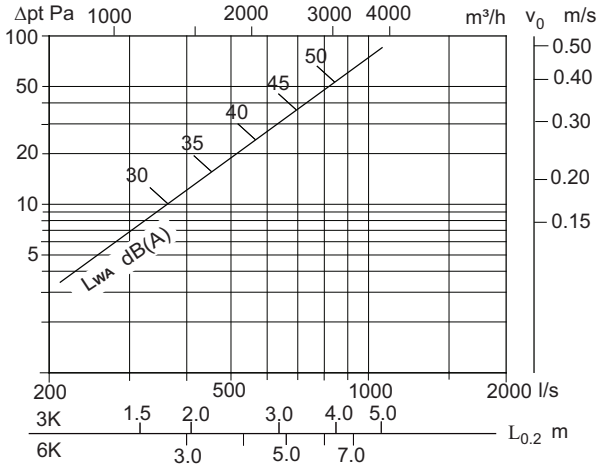
ATC315-06



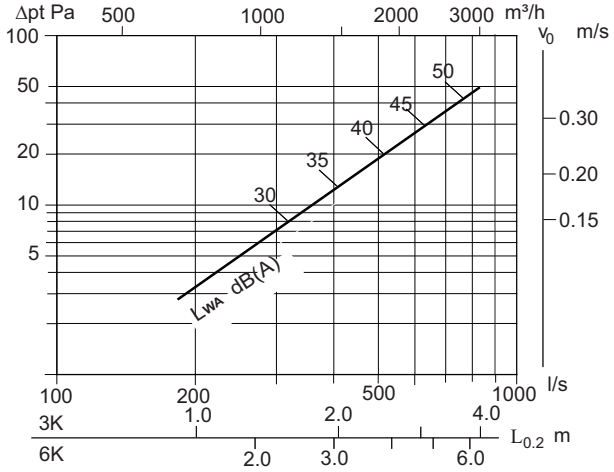
ATC315-12



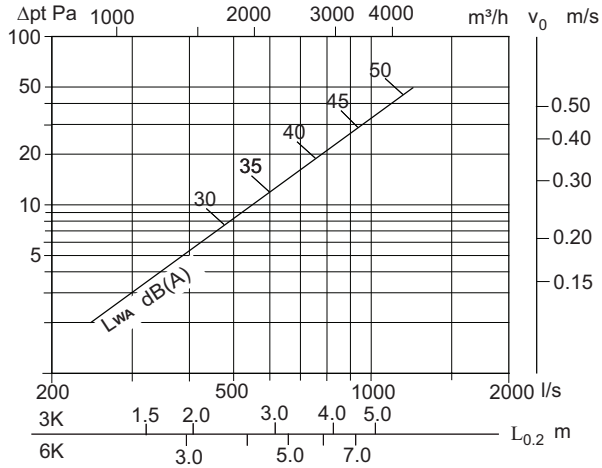
ATC400-12



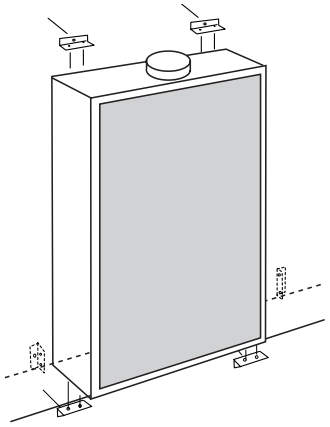
ATR 200x600-12

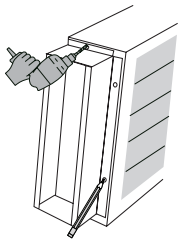


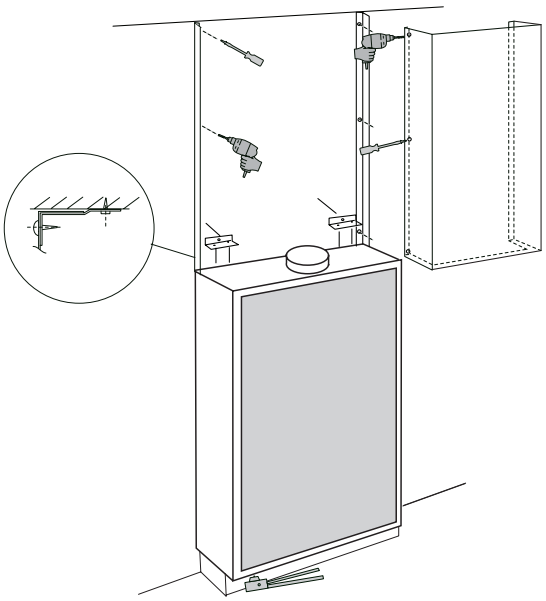
ATR 250x800-12

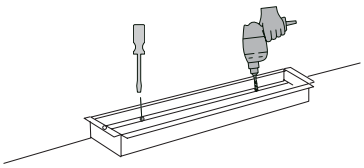


Assembly
ATC/ATR units are wall mounted using mounting brackets only or in combination with a base. If ceiling mounted, threaded rods or perforated band should be used to attach the unit to the ceiling.
ATO units are fixed to a plenum with screws through the frame work.









Specification
BEMAIR ATO to be mounted on walls, alt. in ceilings . Width ..... mm Height ..... mm depth 60 mm
BEMAIR ATC/ATR low velocity unit to be mounted on walls, alt. in ceilings Width ..... mm Height ..... mm Depth .....mm . AT C with connection diameter Ø.....mm., alt. ATR with rectangular connection ..... mm.

Casing of pop-riveted construction with a perforated front. Internal distribution plate with nozzles for even air distribution over the front.
Air distribution plate and casing made in galvanized sheet steel 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.

Stainless steel EN 1.4301 (AISI 304), brushed surface.

Product code

Standard size as table

ATO-aaa-bbb RAL 9010 (alt. Other RAL or NCS)

- Height mm
- Width mm

ATC-aaa-bb-ccc

- Height mm
- Seize according to page 2

ATR-aaa-bb/b-ccc

- Height mm
- Seize according to page 2

Duct cover AT..... L=..... colour.....

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