



Rectangular Wall / Ceiling Terminals

ATO / ATC / ATR

Introduction

AT units are used in industrial and comfort installations to provide displacement ventilation. The units can be wall-mounted or hung from the ceiling. They are designed for applications requiring high airflows, such as industrial premises, laboratories, kitchens etc., and are available in stainless steel.

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 provide an even air pattern over the front. As standard, front panel and distribution plate are removable for access.

ATO consists of a solid pop-riveted frame with an air distribution nozzle plate recessed in the frame.

Width, depth and circular spigot sizes are standardised, with the height to the customer's requirements.

Product Description

- ATC** Wall-mounted high airflow terminal - circular top connection
- ATR** Wall-mounted high airflow terminal - rectangular top connection
- ATO** Front panel and air distribution plate assembly for on-site recessed plenum

Optional Base and Duct cover

Features

- Compact design
- Suitable for ceiling mounting
- Special sizes

Material

Front panel:

1.25mm hot-dipped galvanised steel

Casing, frame and distribution plate:

0.7-1mm electro-galvanised steel (thickness depending on size).

Finish:

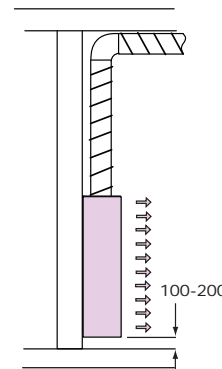
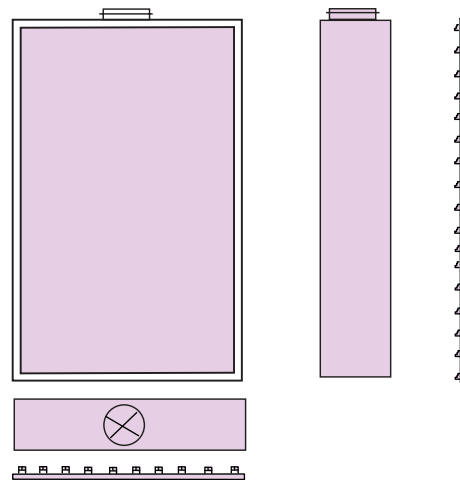
Visible parts powder painted as standard in PPG9010.

Other RAL or NCS colours are available on request.

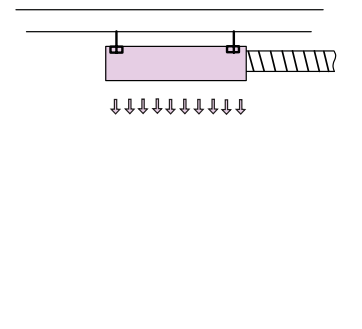
Specials and Accessories

- Duct cover, maximum length 2000mm
- Base, height 100mm
- Special dimensions
- Stainless steel Standard 1.4301 (AISI 304), Surface-brushed; Other qualities on request

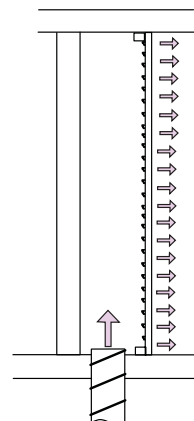
Reinforced front 2mm or 3mm (flat front)



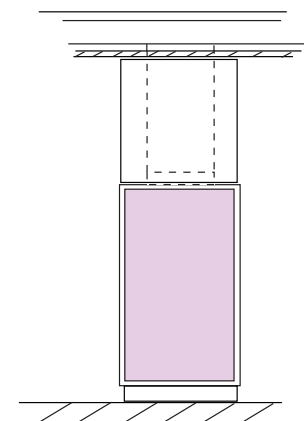
Wall mounted ATC



ATC hanging from the ceiling



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



ATR wall-mounted, including base and duct cover.



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Dimensions and Weights

A, C, Ø Standard dimensions
 B Customer-specific [maximum 2500mm]
 Bs Recommended height B to suit A, C, Ø

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

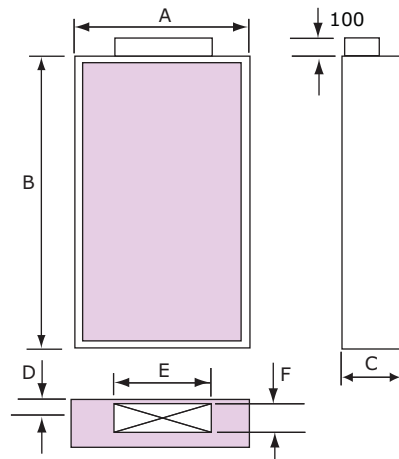
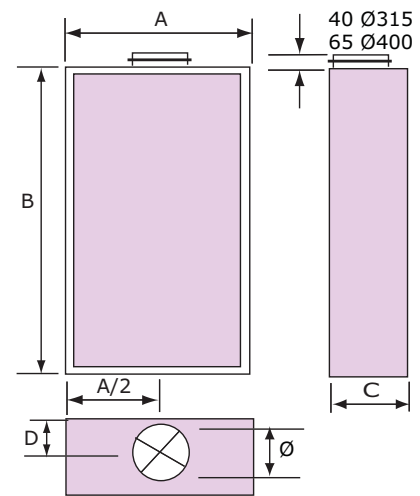
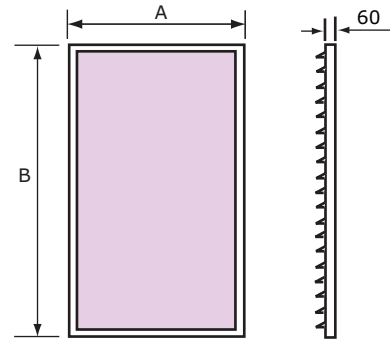
ATR	A	Bs	C	D	E	F	kg
200x600-12	1190	2000	250	110	600	200	58
250x800-12	1190	2000	350	145	800	250	63

Quick Selection Table for ATC/ATR Standard Sizes

The velocity over the front is 0.25m/s
 dB(A) value as sound power level L_{WA}
 Adjacent zones L_{02} for under-temperature 3K and 6K

Size	l/s	dB(A)	L_{02} m
250-06	150	32	1.7/2.6
315-06	250	33	2/3.1
315-12	525	50	2.5/3.8
400-12	525	39	2.5/3.8

Size	l/s	dB(A)	L_{02} m
200x600-12	525	41	2.5/3.8
250x800-12	525	33	2.5/3.8





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Selection Criteria

ATO (without plenum)

Table below is only a guideline of suitable airflows 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 would increase with up to 5dB(A) and pressure drop would be up to four times higher.

The adjacent zone L_{02} will vary dependant on airflow and terminal height. Given values are shown for terminals size 1200x300, 2000x500 and 2000x1200.

For more accurate data, contact your representative.

ATC, ATR

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

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

$L_{WA} \leq 30$ dB(A)
 $\Delta p \leq 8$ Pa
 $L_{02} \Delta tu$ 3k ≤ 1.3 m
 $L_{02} \Delta tu$ 6k ≤ 2 m

$L_{WA} \leq 35$ dB(A)
 $\Delta p \leq 8$ Pa
 $L_{02} \Delta tu$ 3k ≤ 2 m
 $L_{02} \Delta tu$ 6k ≤ 3.2 m

$L_{WA} \leq 38$ dB(A)
 $\Delta p \leq 8$ Pa
 $L_{02} \Delta tu$ 3k ≤ 2.5 m
 $L_{02} \Delta tu$ 6k ≤ 4 m

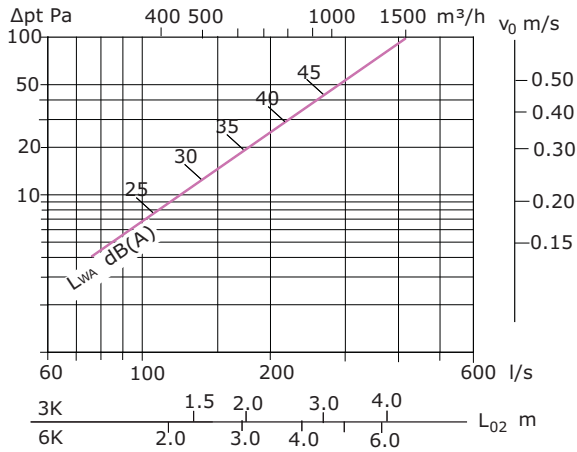


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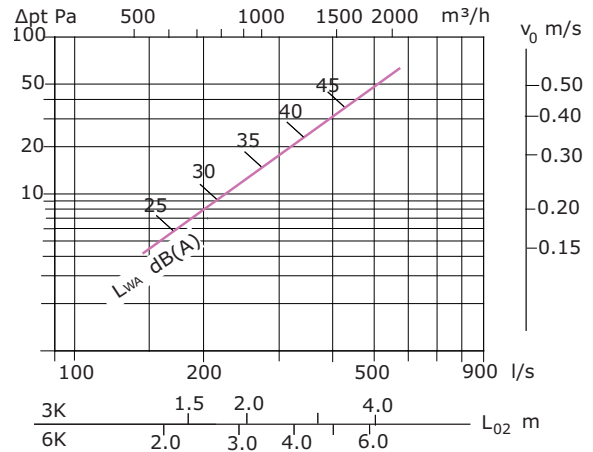
ATO / ATC / ATR

Technical Data ATC/ATR

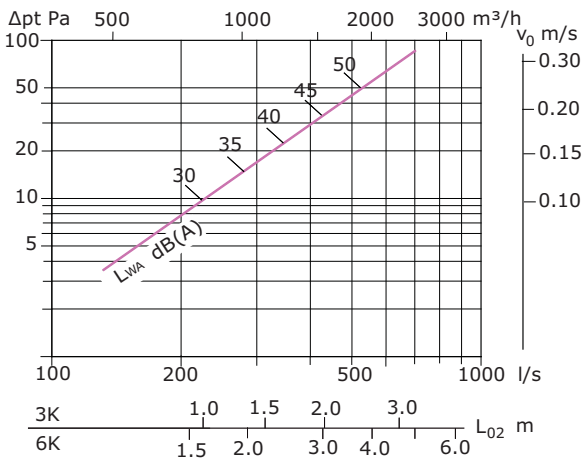
ATC250-06



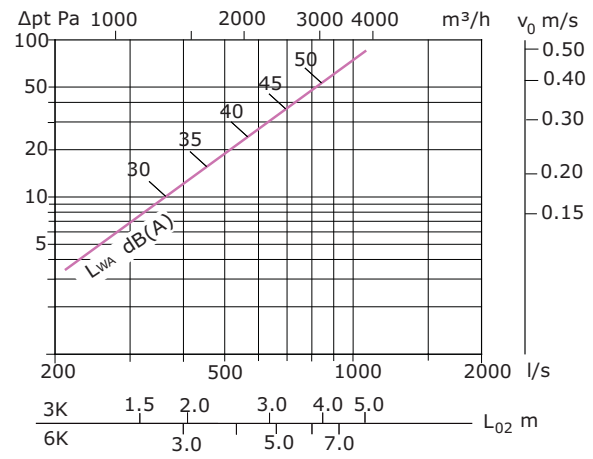
ATC315-06



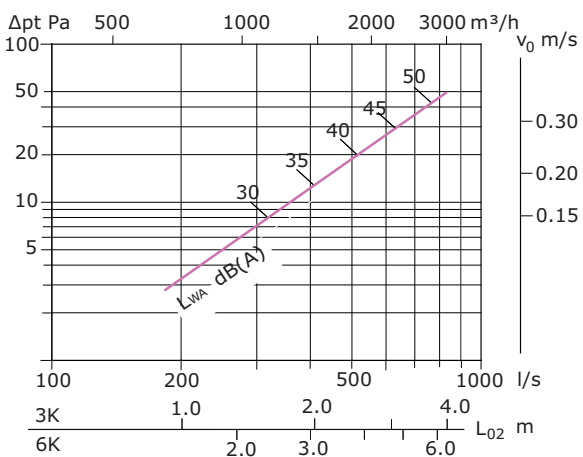
ATC315-12



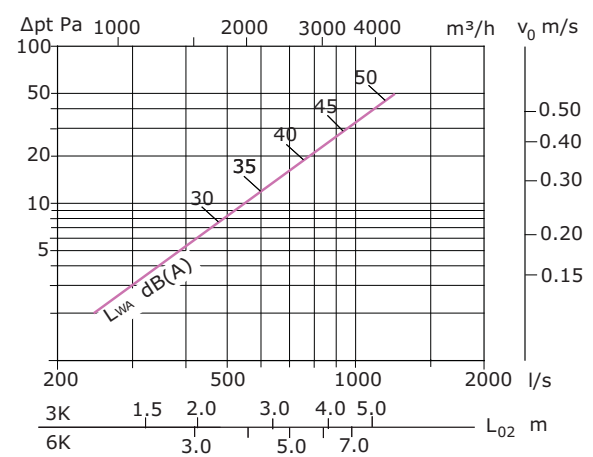
ATC400-12



ATR 200x600-12



ATR 250x800-12





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Order Example

ATR/1190/2000/250/600x200/RAL9010

Type _____
Width A _____
Height B _____
Depth C _____
Spigot size - Width x Height _____
Finish _____

Order Example (Duct cover)

ATR/1190/250/1200/RAL9011

Type _____
Terminal Width A _____
Terminal Depth C _____
Length above terminal
[max 2000mm] _____
Finish _____

Order Example

ATC/590/2000/350/315dia/RAL9010

Type _____
Width A _____
Height B _____
Depth C _____
Spigot size - diameter _____
Finish _____

Order Example (Base)

ATC/2000/600/100/RAL9011

Type _____
Terminal Width A _____
Terminal Depth C _____
Height (100mm as standard) _____
Finish _____

Order Example

ATO/590/2000/RAL9010

Type _____
Width A _____
Height B _____
Finish _____