

Excellent quality / price ratio
Very short delivery time
Double wall with 50 mm insulation
Complete range meeting
all the tertiary applications



DESCRIPTION

Casing

- Double wall panelling, with 50 mm long fibers mineral wool, reinforced with a soldered -fiberglass sheet this gives a very efficient mechanical strength.
- External wall in enamelled galvanized sheet metal (two tone RAL 7024 and 7025)
- Adapted peripheral gasket arrangement :
 - crushable rotproof gaskets for fixed panels
 - EPDM profiled gaskets for access doors
- Smooth internal part of the AHU, as per European norm EN 13053 recommendations (no bumps nor protruding screws, ...)
- Access to elements for maintenance through large flush-mounted panels, closed by ¼ turn progressive tightening latches ; access doors to fans are fitted with offset axis hinges.
- Structure manufacturing according to the AHUs sizes : sizes N° 25 to 75

Self-supporting panels with aluminium vertical mounts, sizes N° 100 and 150

Panels screwed on an aluminium structure imbedded in the casing

The air handling units are composed of multi-block elements, or monobloc ones if size and composition allow it.

All our blocks can be dismantled on the installation site if required.

- Each block composing the AHU is equipped with ergonomic multi-function support feet in standard stainless steel (water protection, handling, assembly)

Available options :

- Adjustable support feet + 35/+ 60 mm
- Inclined overhang for outdoor models (sizes 25 to 75)
- Roofing for outdoor models
- Screened hoods for outdoor models

Registers

- Sectioning register
- Antifrost register
- Compensing register
- Safety register (CH 38)
- Adjusting register

All the registers are made of profiled, counter-rotative dampers, lateral gaskets, driven by cogwheels

Steel frame and dampers

These registers are installed outside the casing or inside the safety register (CH 38)

Dampers control : manual or motorized

Available options

- Servomotor, delivered unassembled
- Heating elements for warming mechanisms for temperatures down to -25°C

Air intake boxes

Single air intake, mixing, economizer mixing

Discharge boxes

Directional, distribution

Mounting of joint dampers outside or inside the casing, ensuring the task defined by the selected section

Manual or motorized command

Available options

- Servomotor, delivered unassembled
- Heating elements for warming mechanisms under fresh air temperatures down to -25°C
- Non connected lighting (if access planned)

Filters

- Filter cells positioning systems equipments for all 3 ranges
- Filter cells with international dimensions 24" x 24" and 12" x 24"

The CLIMACIAT AIRTOP range can be equipped with G4 pre-filters ; their sizes are adapted to the maximal dimensions of the filling passage section for sizes 25, 50 and 75 (assembly 0)

4 standardized assembly systems

Assembly 0 : traditional slides for G4 cells (on sizes 25, 50 and 75)

Assembly 1 : crushable slides (horizontal range), G2 and G4 efficiency, 65 to 90% gravimetric efficiency (Gravi) with lateral door

Assembly 2 : crushable slides (horizontal and vertical ranges), F5 to F9 efficiency, 40 to 98% opacimetric efficiency (OPA) with lateral door

Assembly 3U : standard frames, F5 to H10 efficiency, 40% OPA to 85% MPPS efficiency with upstream door

	ASSEMBLY			
	0	1	2	3U
F1 - G2		●		
F2 - G4	●	●		●
F3 - G4		●	●	●
HEP F6 à F8			●	●
HPS F6 à F8			●	●
FHPS G4 + F6 à F8			●	●
HPR F6 à F9			●	●
HPR H10				●
HPRCARB Urban pollution				●

Active carbon : for urban pollution, assembly 3U (standard frame)

- Classification of efficiencies as per EN 779 from G2 to F9
- Classification of efficiencies as per EN 1822 from H10 to H14
- Classification filter derivation leak EN 1886 (F9 classification)

Designation of filter cells selected by CIAT to equip air handling units

Application	CIAT designation	Material		EN Classification	Efficiency		Construction		
		Frame	Média						
Prefilter	F1	Galva	Galva or stainless	G2	Gravimetric	65 %	Flat filter		
	F2		Synthetic	G4		90 %	Pleated filter		
	F3		Synthetic	G4		90 %	Short pockets		
High efficiency filter	HEP1	Galva	Fiberglass	F6	Opacimetric	65 %	Pleated filter		
	HEP2			F7		85 %			
	HEP3			F8		95 %			
	HPS1	Galva	Fiberglass or synthetic	F6		65 %	Short or long pockets		
	HPS2			F7		85 %			
	HPS3			F8		95 %			
	FHPS1	Galva	Synthetic	G4 + F6		90 % GRAVI + 65 % OPA	Short or long pockets		
	FHPS2			G4 + F7		90 % GRAVI + 85 % OPA			
	FHPS3			G4 + F8		90 % GRAVI + 95 % OPA			
	HPR1 HPR2 HPR3 HPR4	Polypropylene + ABS	Fiberglass	F6 F7 F8 F9		65 % 85 % 95 % 98 %	Pleated deep dihedrals		
	Absolute filter	HPRH10	Galva	Fiberglass		H10	Most penetrating particle size	85 % MPPS	Pleated deep dihedrals
	Active carbon filter	HPRCARB	Polypropylene	Synthetic		Urban pollution			Deep dihedrals

Available options

- Pressure taps kit for each filter stage
- Liquid manometer kit
- Contact manometer kit
- Lighting kit, not connected (600 mm mini.thickness sheet metal)
- Door contact kit

Description of components

Heating coil for hot water

Copper tubes, aluminium fins
 Primary fluid max. temperature = 120°C
 Water operating pressure : 8 bar standard
 Higher pressures on consultation
 Copper tubes headers with bosses up to diam. 3”
 Dismountable sealing collars between casing and headers
 (up to diam. 3”, avoiding deterioration of the sealing system when carrying out the connections)

Available options

- Anti-frost sensor support slide
- Antifrost thermostat delivered in kit
- Upstream and downstream pressure topas kit
- Blygold Polual treatment for coil

Electrical battery

Shrouded heating elements in stainless spiral fin tubes
 Connection on copper coil
 Double insulation mounting
 Safety thermostat with standard manual reset
 For the coil installation : refer to the brochure enclosed with each air handling unit
 Take the necessary steps to avoid abnormal heating when stopping the ventilation

Available options

- 3 ph. or 1 ph. wiring

Chilled water cooling coil

Copper tubes, aluminium fins
 Water operating pressure : 8 bars standard – higher pressure on request
 Inclined condensates recovery tray with drain pipes to be connected to a siphon on site
 Standard droplet separator if required, option on request
 Copper tubes headers with bosses up to diameter 3”
 Dismountable sealing collars between casing and headers up to diameter 3”, avoiding the deterioration of the sealing system during connection works

Available options

- Access panel on droplet separator (standard if compulsory)
- Upstream and downstream pressure taps
- Blygold Polual treated coil
- Stainless steel recovery tray
- Galvanized droplet separator (standard if required)
- Droplet separator with polypropylene blades (standard, if required)

Fans

Direct drive fan (1 ph. 230V 50 Hz)
 Double inlet forward curved blades fan
 Double inlet backward curved blade fan
 Steel shell, some backward curved blades propellers can be in reinforced polyamide glass fiber

Mounting on antivibratil chassis with rubber mounts (except AIRTOP N° 25 and 50)

Internal flexible sleeve connection (except AIRTOP N° 25 and 50)

Ball bearings mounted in the fan inlets

Pulleys and belts transmission on the double inlet fans

Standard motor : asynchroneous 3 ph. 230V or 400V 50 Hz

IP 55 protection, Class F with normally closed overload protection (PTO)

Port hole with locks conforming to “ Mechanical Safety ” prescription of norm EN 1886 and machine directive

Flush mounted door (Series 25 to 75)

Hinged door (Series 100 and 150)

Available options

- 3 positions of the discharge nozzle
- Door protection
- Pressure taps kit
- Door contact kit
- Smoke detector kit (NF S61961)
- Light kit not connected
- Proximity switch kit
- Frequency variator kit

Plate recovery unit for superimposed AHUs

Description

In the standard construction, the exchanger is with aluminium plates ; this unit can be used currently up to a 150°C air temperature (if the plate recovery unit is a AHU component, the standard limit temperature is 80°C; 1000 Pa differential pressure, with a leak flow below 1% between the air streams ((EXTRACTION/INTRODUCTION)

Condensates recovery tray on the extracted air side in galvanized sheet metal with standard condensates discharge pipe

Available options

- Integral G4 pre-filter, with hinged access door
- By-pass on fresh air or extracted air
- Manual or motorized registers control
- Servo-motor delivered not mounted

Sound trap

Description

900 mm baffles
 Mineral wool, various densities, sides are coated with an anti-erosion film
 Galvanized sheet metal
 Semi-baffles on the lateral sides

Optional accessories

Available options

- Standard flexible sleeves outside the casing
- Pre-fabricated connection frames to be mounted at the ducts extremities (to the dimensions of the flexible sleeves)
- Screened frames for protection of the AHUs air intake/discharge

EQUIPMENT

OPTION	ELEMENTS	AIRTOP 25 to 150
1	Standard mixing or single air intake	●
3	Antifreeze, safety or compensation register	●
5	F1 or F2 or pleated filter	●
7	F2 filter + short or long pocket filter	●
8	F3 filter or short or long pocket filter	●
9		
10	H10 filter or HPR carbon filter or short or long pocket	●
12	Heating coil : hot water	●
14	Batterie électrique	●
17 - 18	Cooling coil : cold water	●
23	Standard economizer mixing	horizontal
37		vertical
26	LP or MP fan	●
28	Expansion compartment	●
31	Empty section	●
33	Muffler Baffle length 900	●
40	Récupérateur à plaques	●

DIMENSIONS

Determination of length "L"

A - Determine the size of the AHU as a function of the air flow to be treated

B - Add the lengths of the components necessary for the desired air treatment

Add the 2 end panels (2 x 25) to the total obtained to get the length of the air handling unit

Examples :

Air handling unit CLIMACIAT AIRTOP 50

- Filter F2	200	
- Heating coil 2 rows	200	
- Cooling coil 6 rows	400	
- Fan	<u>1000</u>	
Total of above elements	1800	i.e. a Monobloc L18 casing
End panels (25x2)	50	
- Total length of the AHU	1850	

Air handling unit CLIMACIAT AIRTOP 100

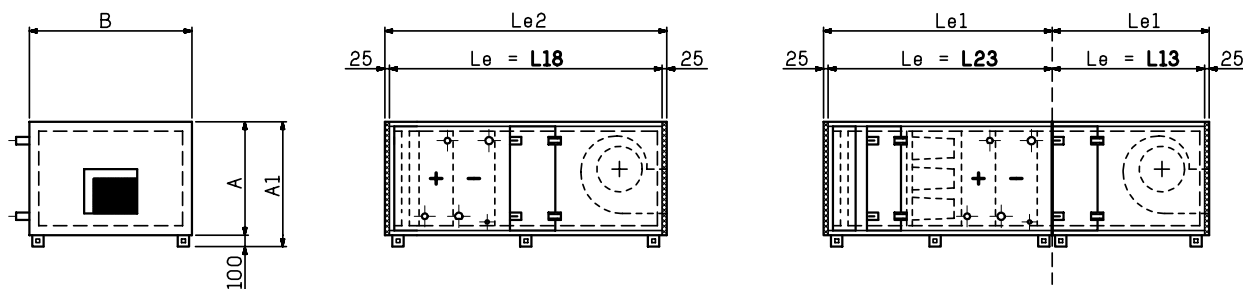
- Mixing	600	} 2300 i.e. a L23 casing
- Filter F2 + HPSL 85	900	
- Heating coil 2 rows	300	
- Cooling coil 6 rows	500	
- Fan	<u>1300</u>	i.e. a L13 casing
Total of above elements	3600	i.e. a length overpassing the maxi value of the Monobloc 100 (2800) air handling unit, and we therefore arrive at a bi-block air handling unit.

The traditional solution consists of an independant ventilation section. In this case, the end panels are not required and will be suppressed when connecting the 2 blocks.

- 1 block with mixing + filters + coils	= 2300 + 25 = 2325
- 1 block with fan	= 1300 + 25 = <u>1325</u>
- Total length of the bi-block air handling unit	3650

AIRTOP	25 50	75	100 150
L1		100	
L2		200	
L3		300	
L4		400	
L5		500	
L6		600	
L7		700	
L8		800	
L9		900	
L10		1000	
L11		1100	
L12		1200	
L13		1300	
L14		1400	
L15		1500	
L16		1600	
L17		1700	
L18		1800	
L19		1900	
L20		2000	
L21		2100	
L22	2200	2200	2200
L23	2300		2300
L24	2400		2400
L25			2500
L26			2600
L27			2700
L28			2800

DIMENSIONS

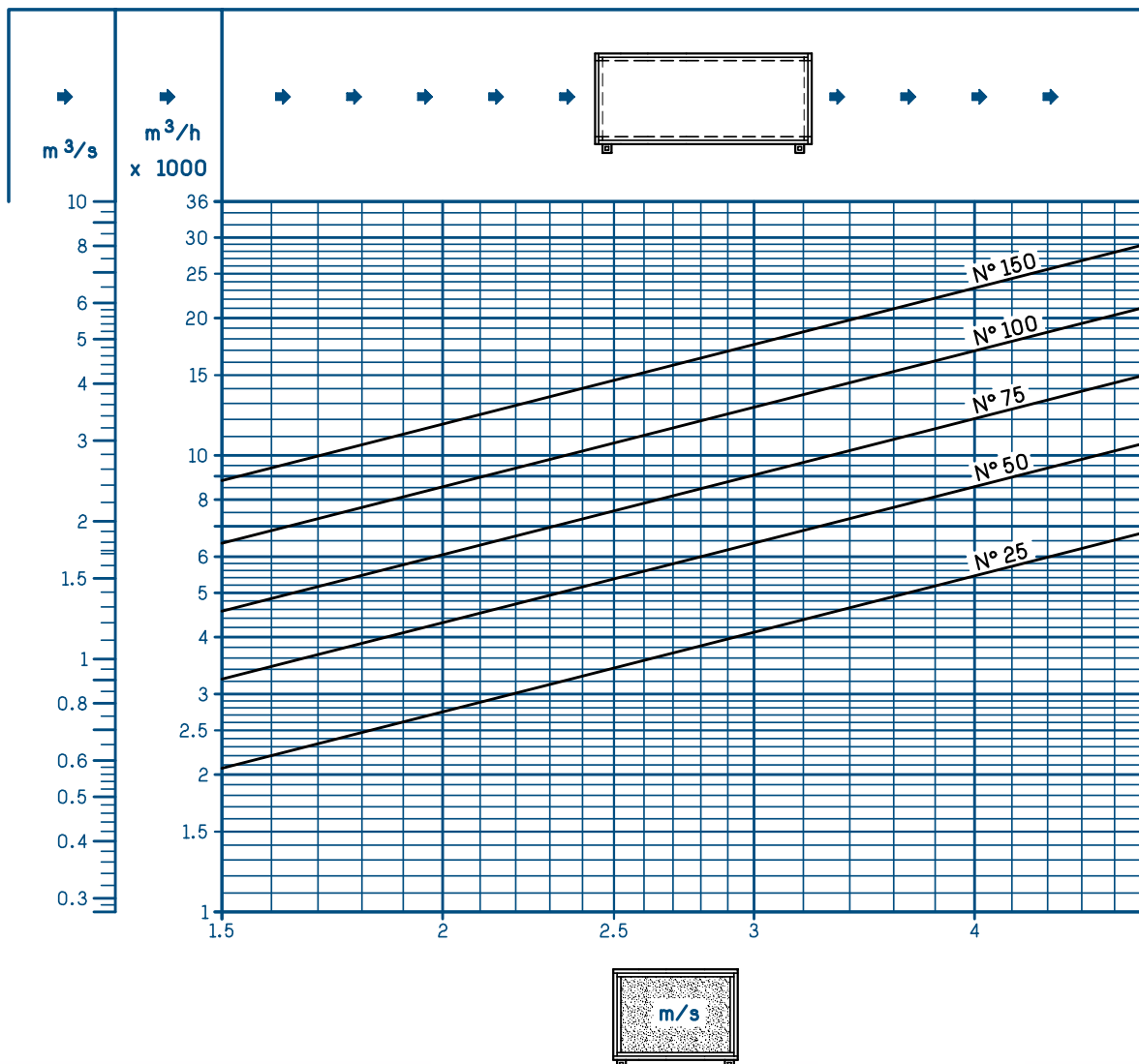


Le length of integrated elements
 Le1 length of integrated elements + 1 end panel
 Le2 length of integrated elements + 2 end panels

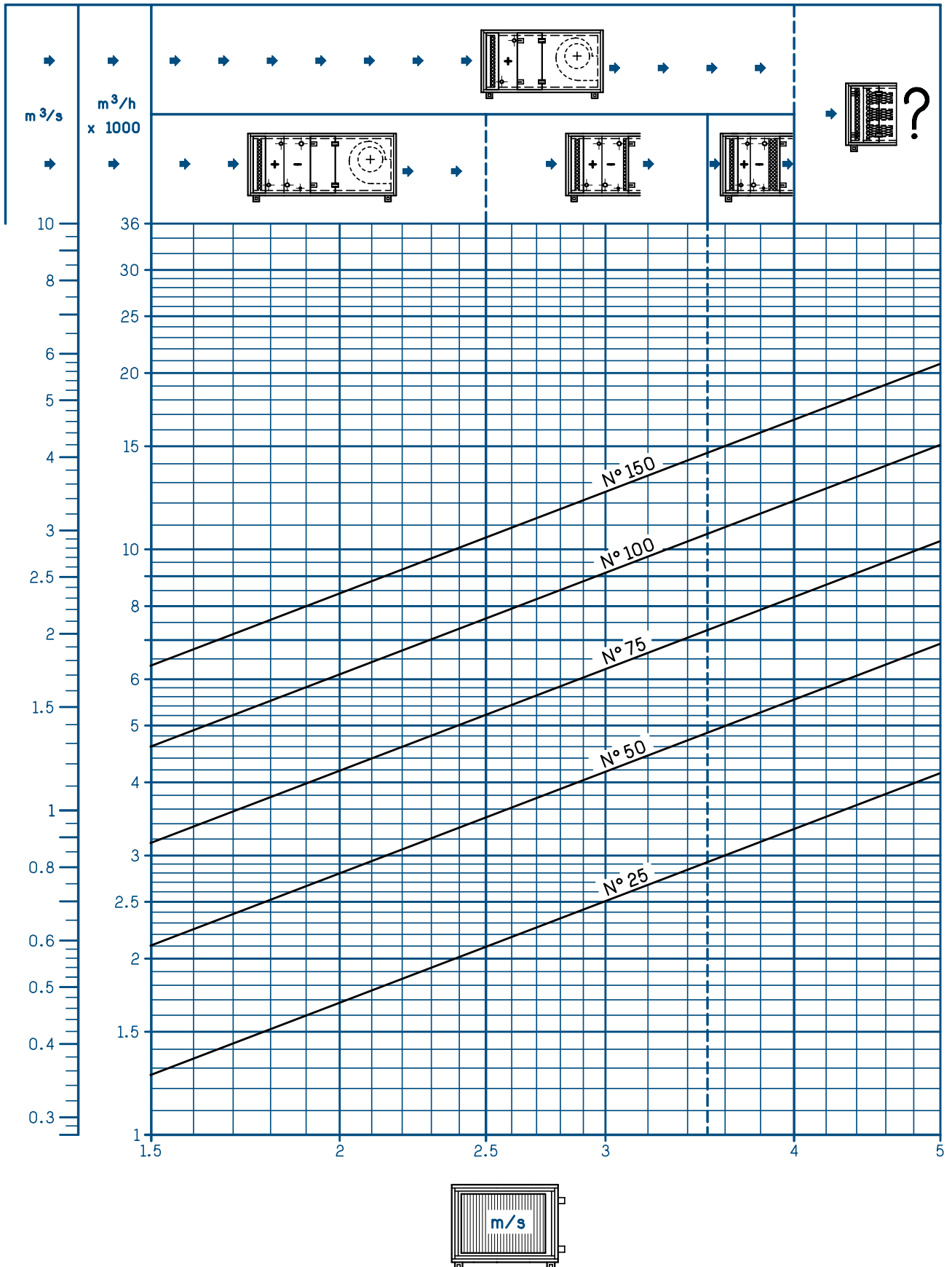
AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
A1	693	965	965	1046	1336
B	875	875	1185	1516	1516

SELECTION CURVES

Speed into the free section



Speed into the coil section



DIMENSIONS

Horizontally mounted air handling units - Lengths required for integration of standard elements

Option	Symbol	Description	Observation	AIRTOP						
				25	50	75	100	150		
FRONT SECTION		Width		875		1185	1516			
		Total height		693	965		1046	1336		
BASE		Base length (End panels)		50						
RECOVERY		1	Mixing or standard single air intake Internal, external boxes	Detail position page	300	500		600		
		3	Antifrost, safety or compensation register		200					
FILTRATION		2	Filter F1 or F2	with flush mounted door	Assembly 0 or 1	200				
		3	Filter F1 + F2 or pleated filter HEP 65-85-95		Assembly 1 or 2	300				
		5	Filter F2 + pleated filter HEP 65-85-95	with flush mounted door	Assemblies 1 + 2	500				
		6	Filter F2 + rigid pocket filter HPR 65-85-95-98 or HPR carbon			600				
		7	Filter F2 + short flexible pocket filter HPSC or FHPSC 65-85-95			700				
		9	Filter F2 + long flexible pocket filter HPSL or FHPSL 65-85-95			900				
		6	Filter F3 or short flexible pocket filter HPSC or FHPSC 65-85-95 or rigid pocket filter HPR 65-85-95-98 or HPR carbon	with flush mounted door	Assembly 2 integrated element at the start of box	600				
		9	Long flexible pocket filter HPSL or FHPSL 65-85-95			900				
		5	Filter F3 or short flexible pocket filter HPSC or FHPSC 65-85-95 or rigid pocket filter HPR 65-85-95-98 or HPR carbon	with flush mounted door	Assembly 2 integrated element between 2 other elements	600				
		8	Long flexible pocket filter HPSL or FHPSL 65-85-95			800				
	6	Filter F2 + pleated filter HEP 65-85-95	with flush mounted door	Assembly 3U	600					
	9	Rigid pocket filter HPR 65-85-95-98 or H10 or HPR carbon or Filter F2 + rigid pocket filter HPR 65-85-95-98 or H10 or HPR carbon			900					
	10	Filter F3 or short flexible pocket filter HPSC or FHPSC 65-85-95			1000					
	11	Filter F2 + short flexible pocket filter HPSC or FHPSC 65-85-95			1000					
	12	Long flexible pocket filter FHPSL 65-85-95 or/+ F2			1200					
HEATING		Heating coil Hot water	1.2 R	3 - 4 R	200		-			
					6 R	-		300		
						400				
						100				
					Slide for anti-frost sensor					
	Electrical battery	maxi output in kW	Nr. of shrouded elements	31.2		62.4	96.0	132	198	
				12	24	24	24	36		
					400					

DIMENSIONS

Horizontally mounted air handling units - Lengths required for integration of standard elements

Option	Symbol	Description	Observation	AIRTOP					
				25	50	75	100	150	
REFRIGERATION		Cooling coil Cold water WITH or WITHOUT STANDARD separator	1-2 R	300		-			
				-		400			
				3-4 R	300		-		
					-		400		
					400		-		
					-		500		
18		Cooling coil Cold water WITH BLADE separator	1-2 R	400					
			3-4 R	400					
			6 R	500					
ECONOMISER MIXING	23		Standard economiser mixing Internal boxes	position detail page	600	900	1000	1200	
VENTILATION	26		LP or MP fan Horizontal or vertical discharge		900	1000	1200	1300	1400
DIFFUSION	28		Expansion compartment	WITHOUT distributor	400				
				WITH distributor	600				
SPACE	31		Empty section		100 mini				
MUFFLER	33		Muffler	Baffles length 900	Intake = 1100 Discharge = 1400				

Additional boxes only

Option	Symbol	Description	Observation	AIRTOP				
				25	50	75	100	150
37 37G		VERTICAL economizer mixing (superimposed air handling units) (without end panels) Position detail pages ... and ...	L	300	500	500	500	600
			H	1286	1830	1830	1992	2572
			P kg	87	137	160	205	241
40		Plate recovery unit (without by-pass) (without end panels) Position detail page ...	L	1000	1300	1400	1400	1900
			H	1286	1830	1830	1992	2572
			P. kg	145	211	272	323	513
77		Plate recovery unit with VERTICAL economizer mixing (without by-pass) (superimposed air handling units) (without end panels) Position detail page ...	L	1300	1800	1900	1900	2500
			H	1286	1830	1830	1992	2572
			P. kg	182	304	375	464	695

DIMENSIONS

Horizontally mounted air handling units - Accessories

Option	Symbol	Description	AIRTOP							
			25	50	75	100	150			
50		Antifrost end valve Intake	Mixing section	e = 80	e = 130					
			Air handling unit section	e = 130						
51		Flexible sleeve Intake	Mixing section	e = 120						
			Air handling unit section	e = 120						
			Discharge	Fan section	e = 120					
52		Pre-fabricated frame Intake	Mixing section	e = 30						
			Air handling unit section	e = 30						
			Discharge	Fan section	e = 30					
54		Screened frame Intake	Mixing section	10						
			Air handling unit section							
			Discharge					Fan section		
55T		Roofing	a = 45							
55L		Gutter overhand	a = 45			-				
56		Hood and screen	Intake	Air handling unit section	L	400	650	650	650	950
			Discharge	Fan section	L	267	329	409	447	493
58		Adjustable support feet				mini h. = 135 maxi h. = 160				

NOTES

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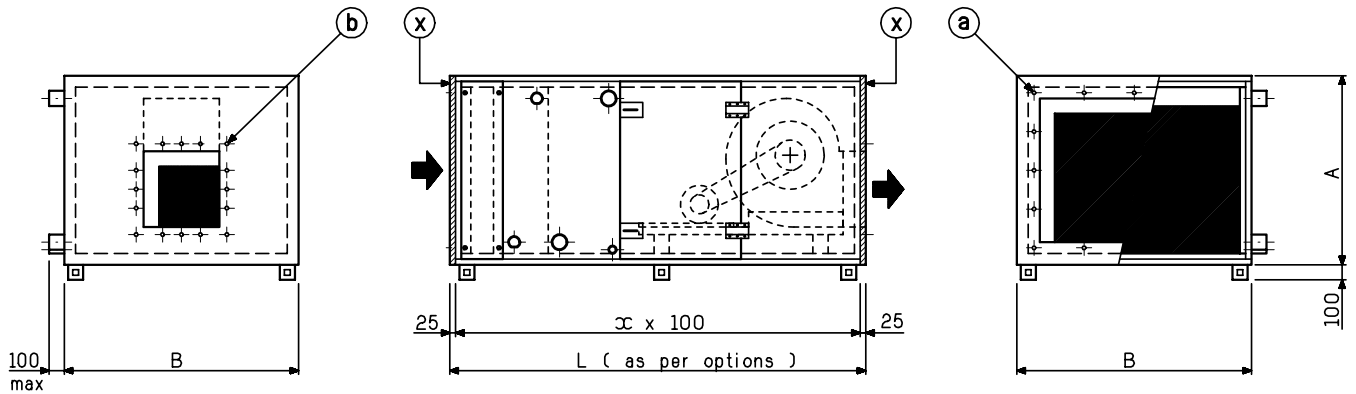
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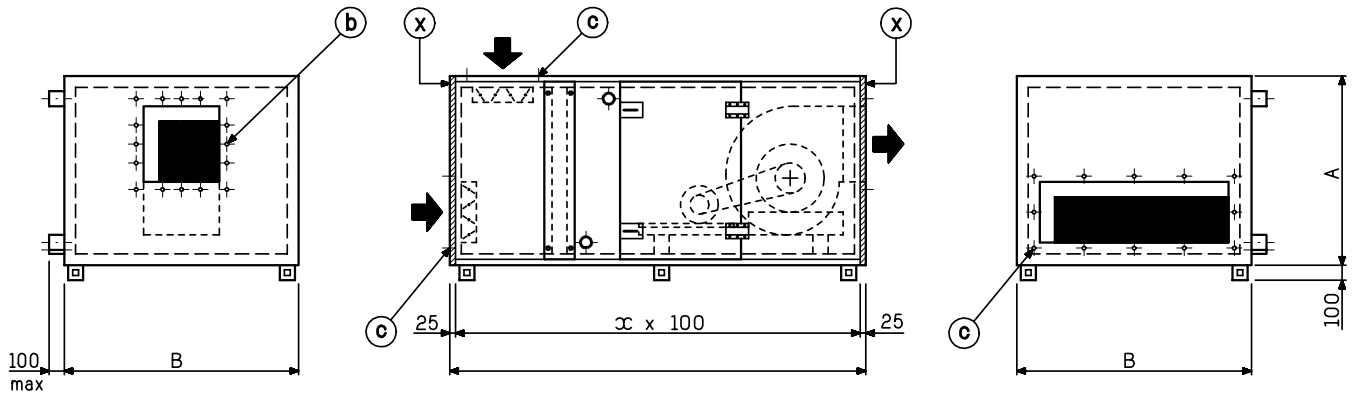
DIMENSIONS

H Horizontal Air Handling Unit mounting

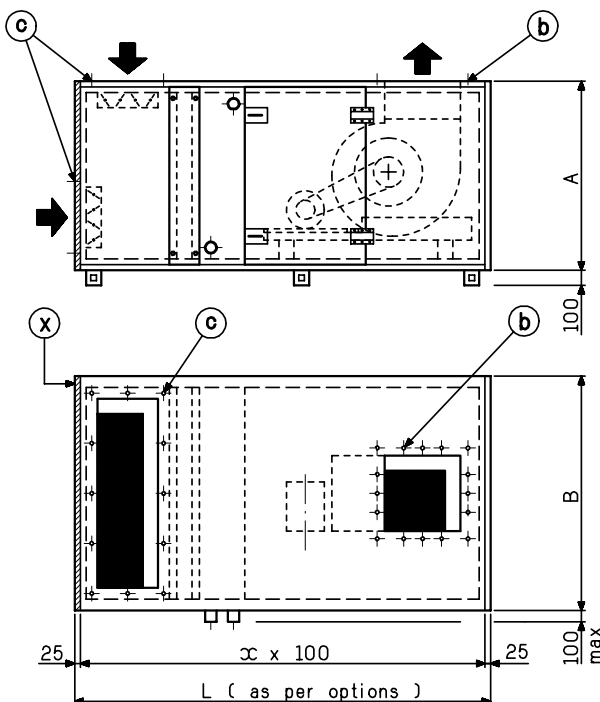
● Lower horizontal discharge HI



● Upper horizontal discharge HS



● Upper vertical discharge VS



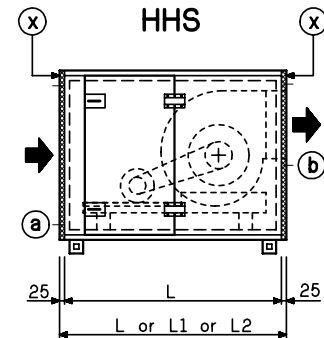
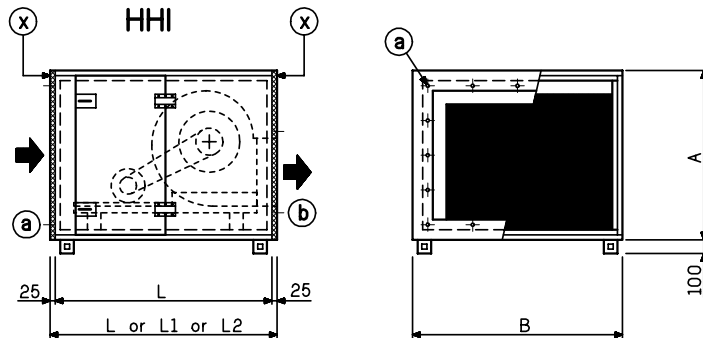
NOTE : Depending upon request or assembly, the air handling unit can be delivered WITH or WITHOUT panel ref.X or it can be replaced by a simple wall.

Les positions et les dimensions des unités de décharge sont de (références AIR) CONNEXIONS COORDONNEMENTS MÉCANIQUES) sont unifiés et peuvent être remplacés par des dispositifs similaires décrits dans cette notice.

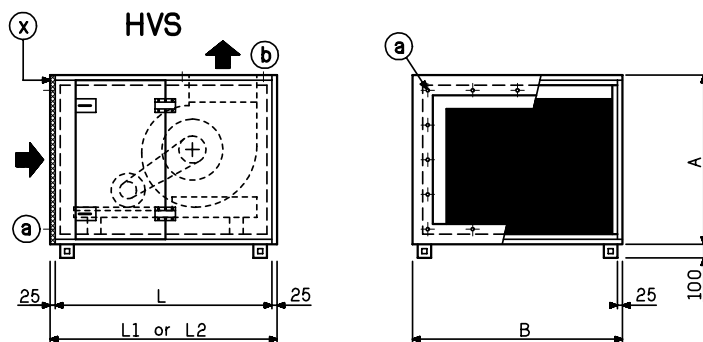
DIMENSIONS

Additional boxes - Option 26 - LP or MP fan - Horizontal assembly H

- Horizontal air recovery
- Lower (HI) or upper (HS) horizontal discharge



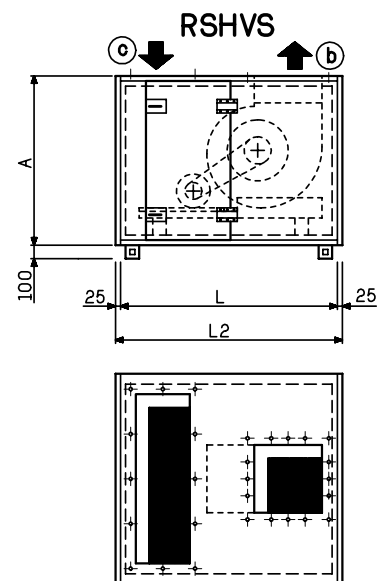
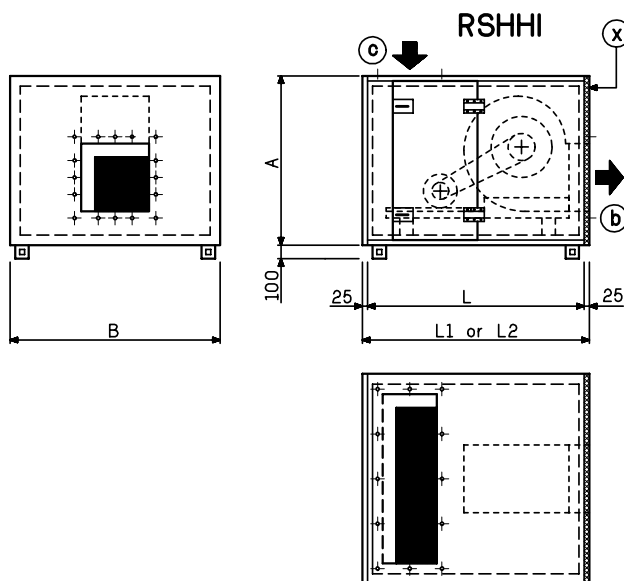
- Upper vertical discharge VS



- Upper (RS) or lower (RI) vertical recovery

- Lower (HI) or upper (HS) horizontal discharge

- Lower (VI) or upper (VS) vertical discharge

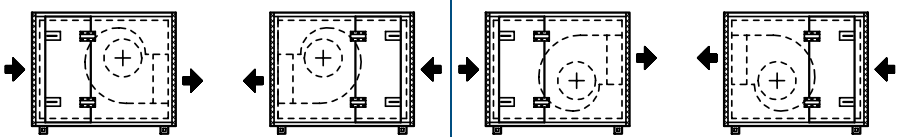
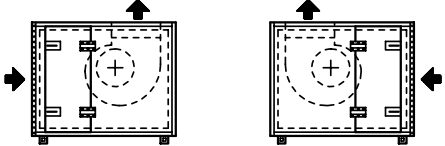
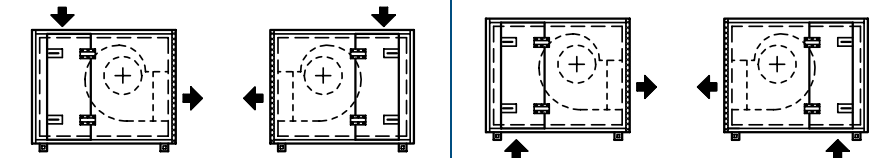
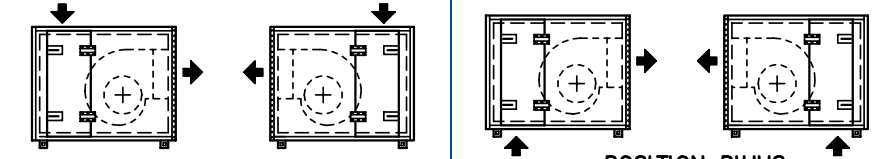
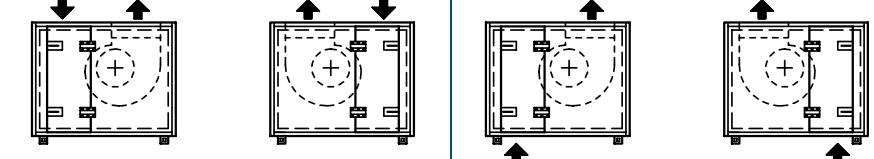


NOTE : According to requirement or assembly, the air handling unit can be delivered WITH or WITHOUT panel ref. X or it can be replaced by a simple wall.

a-b-c See air connections for drilling and position of connection holes.

DIMENSIONS

Additional boxes - Option 26 - LP or MP ventilation - H horizontal assembly

DRAWING	AIRTOP				
	25	50	75	100	150
 <p>POSITION HHI POSITION HHS</p>			●		
 <p>POSITION HVS</p>			●		
 <p>POSITION RSHHI POSITION RIHHI</p>			●		
 <p>POSITION RSHHS POSITION RIHHS</p>			●		
 <p>POSITION RSHVS POSITION RIHVS</p>			●		

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
L WITHOUT panel ref. X	900	1000	1200	1300	1400
L1 WITH 1 panel ref. X	925	1025	1225	1325	1425
L2 WITH 2 panels ref. X	950	1056	1250	1350	1450

NOTES

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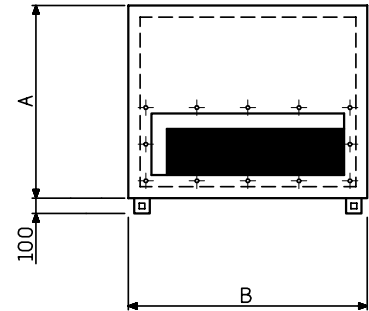
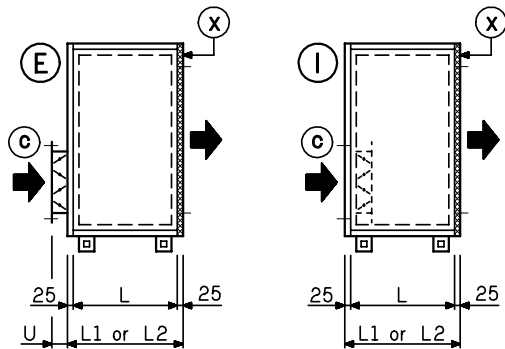
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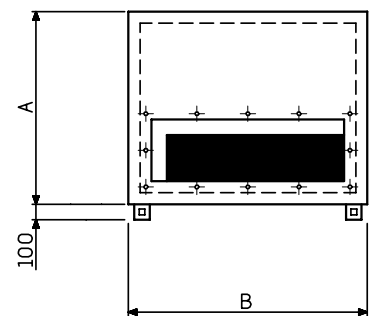
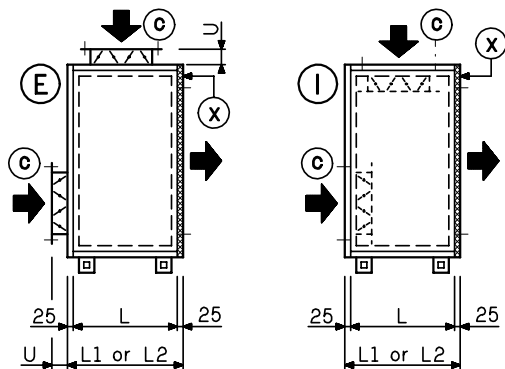
DIMENSIONS

Additional boxes - Option 1 - H horizontal assembly

● Standard single air intake



● Standard mixing



E : Damper boxes mounted outside the casing

I : Damper boxes mounted inside the casing

NOTE : Depending upon requirement or assembly, the air handling unit can be delivered WITH or WITHOUT panel ref. X or replaced by a simple wall.

c : See air connections for drilling and position of connection holes.

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
U	80	130	130	130	130
L WITHOUT panel ref. X	300	500	500	500	600
L1 WITH 1 panel ref. X	325	525	525	625	625
L2 WITH 2 panels ref. X	350	550	550	650	650

DIMENSIONS

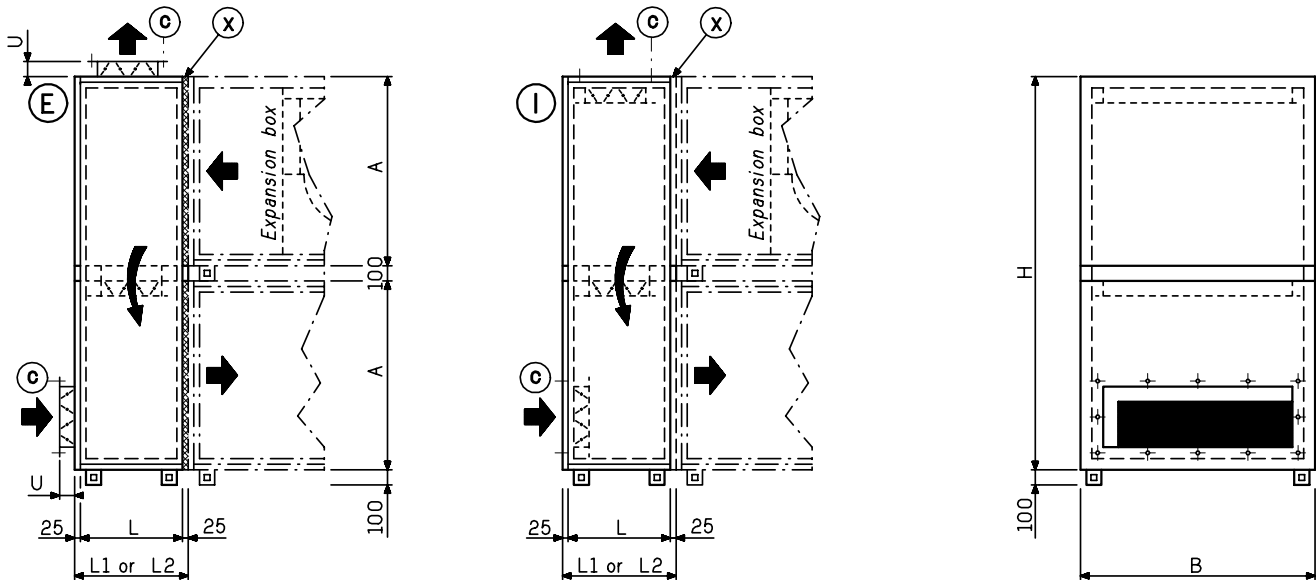
Additional boxes - Option 1 - H horizontal air handling unit mounting - Various installation positions

DRAWINGS		AIRTOP 25 to 150		
		E	I	
Single air intake	<p>POSITION 1I</p>	•	•	
	<p>POSITION 3I</p>	•	•	
	<p>POSITION 5I</p>	•	•	
	<p>POSITION 11I</p>	•	•	
	Standard mixing	<p>POSITION 15I</p>	•	•
		<p>POSITION 19E</p>	•	

DIMENSIONS

Additional boxes - Option 37 - H horizontal air handling unit mounting

- Vertical economizer mixing



E : Damper boxes mounted outside the casing

I : Damper boxes mounted inside the casing

NOTE : Depending upon requirement or assembly, the air handling unit can be delivered WHIT or WITHOUT panel ref. X or replaced by a simple wall.

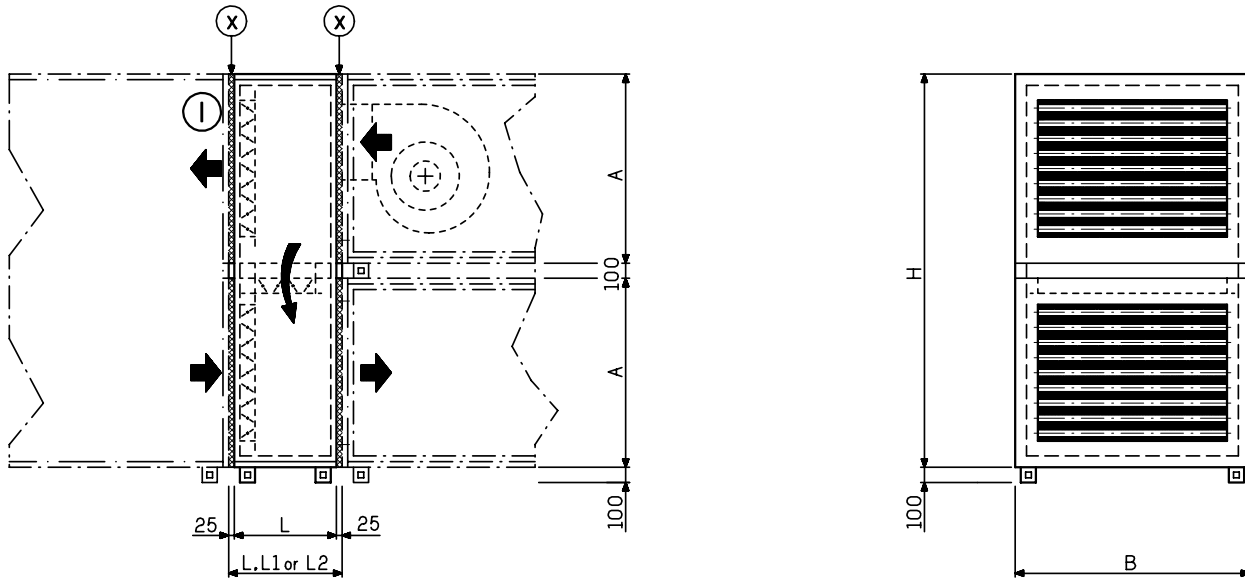
c : See AIR CONNECTION for drilling and position of connection holes.

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
H	1286	1830	1830	1992	2572
U	80	130	130	130	130
L WITHOUT panel ref. X	300	500	500	500	600
L1 WITH 1 panel ref. X	325	525	525	525	625
L2 WITH 2 panels ref. X	350	550	550	550	650

DIMENSIONS

Additional boxes - Option 37G - H Horizontal air handling unit mounting

- Vertical economizer mixing



I : Damper boxes mounted inside the casing.

NOTE : Depending upon request or assembly, the air handling unit can be delivered WITH or WITHOUT panel ref. X or it can be replaced a simple wall.

c : See AIR CONNECTIONS for drilling and position of connection holes.

Various positions of the air intakes as a function of the air direction

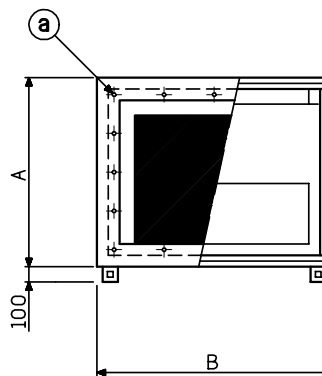
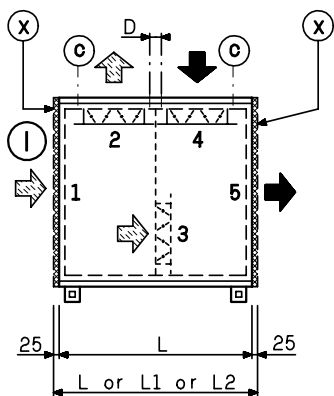
DRAWINGS		AIRTOP 25 to 150			
		I			
<p>POSITION 15GI</p>	<p>POSITION 25GI</p>	●			

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
H	1286	1830	1830	1992	2572
L WITHOUT panel ref. X	300	500	500	500	600
L1 WITH 1 panel ref. X	325	525	525	525	625
L2 WITH 2 panels ref. X	350	550	550	550	650

DIMENSIONS

Additional boxes - Option 23 - H Horizontal air handling unit mounting

- Standard economizer mixing



1 Extracted air 2 Rejected air 3 Recycled air 4 Fresh air 5 Suction air

| : Damper boxes mounted inside the casing.

NOTE : Depending upon request or assembly, the air handling unit can be delivered WITH or WITHOUT panel ref. X or it can be replaced by a simple wall.

C : See AIR CONNECTION for drilling and position of connection holes.

Various positions of the air intakes

DRAWINGS	AIRTOP 25 to 150
<p style="text-align: center;">POSITION I</p>	I
	●

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
D	110	120	120	177	177
L WITHOUT panel ref. X	600	900	900	1000	1200
L1 WITH 1 panel ref. X	625	925	925	1025	1225
L2 WITH 2 panels ref. X	650	950	950	1050	1250

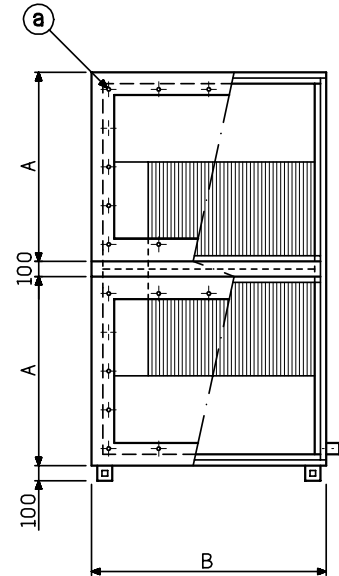
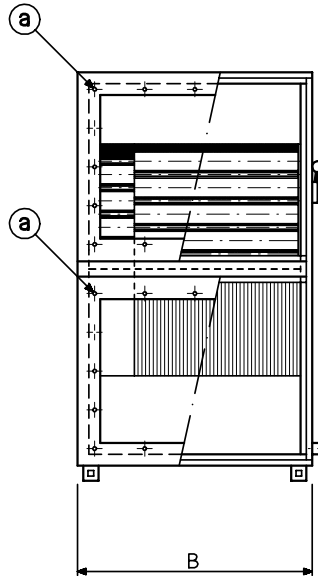
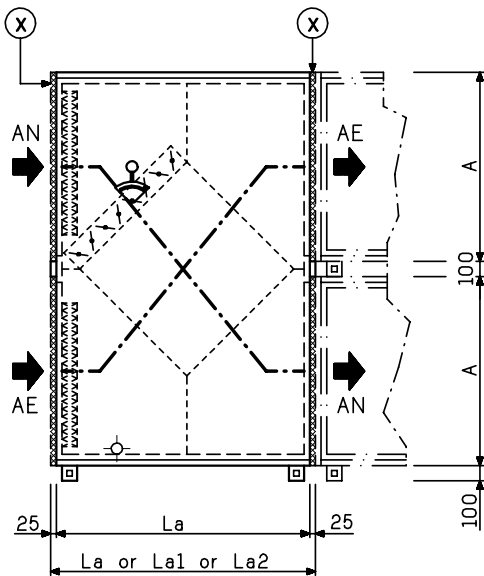
DIMENSIONS

Additional boxes - Options 40 and 77 - H horizontal air handling unit mounting

● Plate recovery unit RP - Option 40

- With by-pass

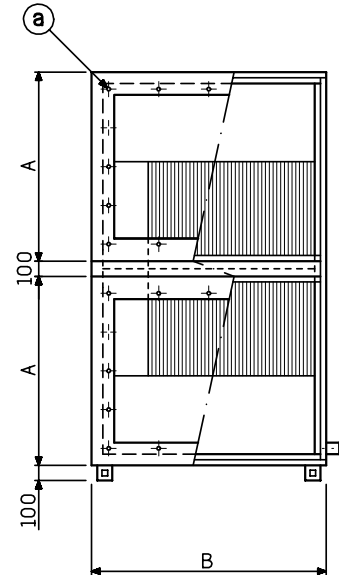
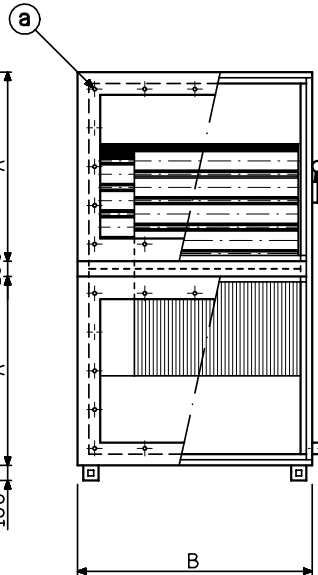
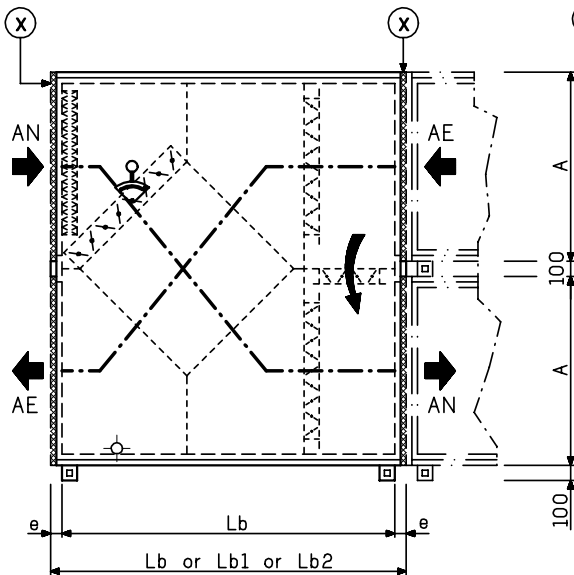
- Without by-pass



● Plate recovery unit with RPME - Option 77

- With by-pass

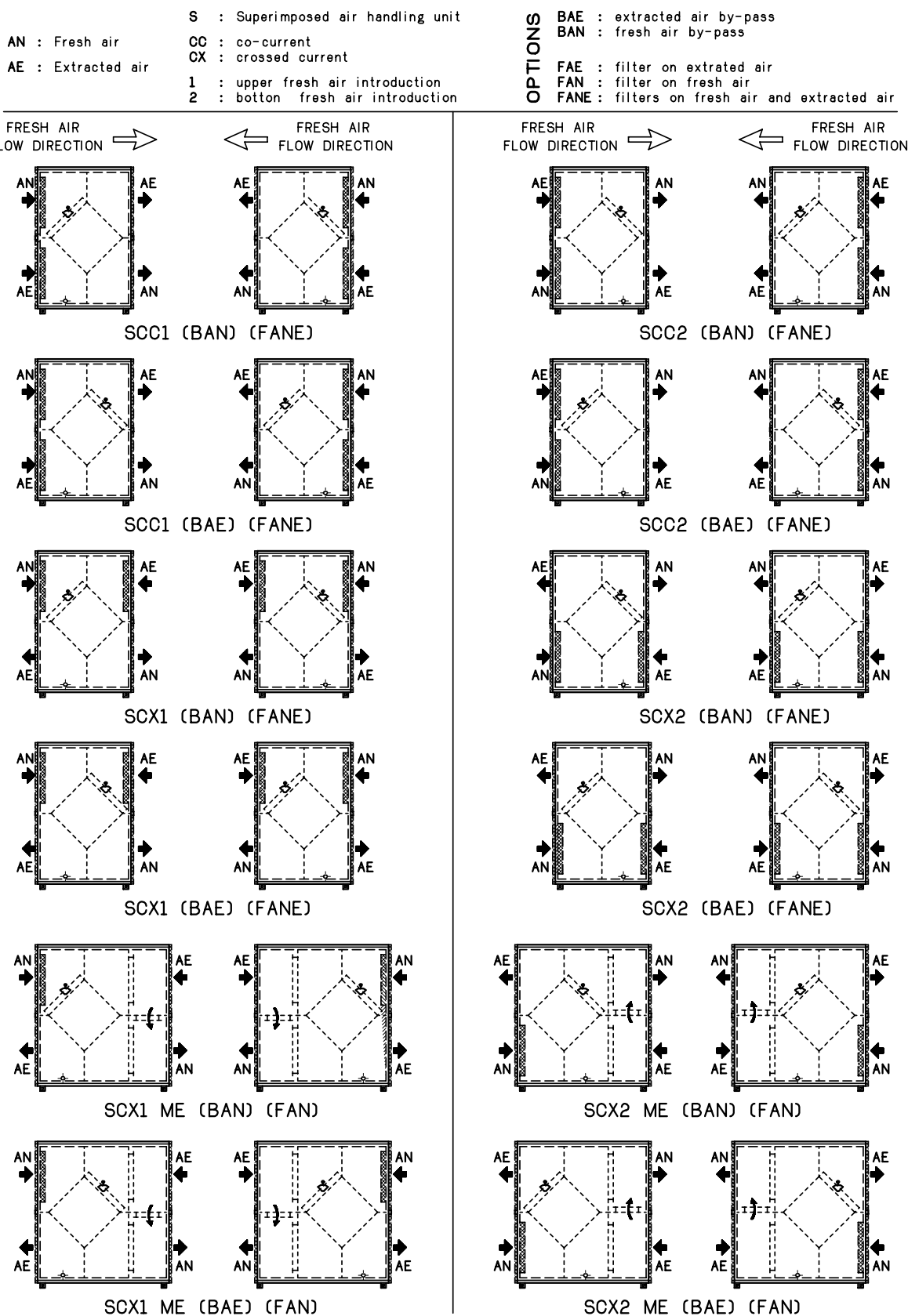
- Without by-pass



AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
B	875	875	1185	1516	1516
La WITHOUT panel rep. X	1000	1300	1400	1400	1900
La1 WITH 1 panel rep. X	1025	1325	1425	1425	1925
La2 WITH 2 panels rep. X	1050	1350	1450	1450	1950
Lb WITHOUT panel rep. X	1300	1800	1900	1900	2500
Lb1 WITH 1 panel rep. X	1325	1825	1925	1925	2525
Lb2 WITH 2 panels rep. X	1350	1850	1950	1950	2550

DIMENSIONS

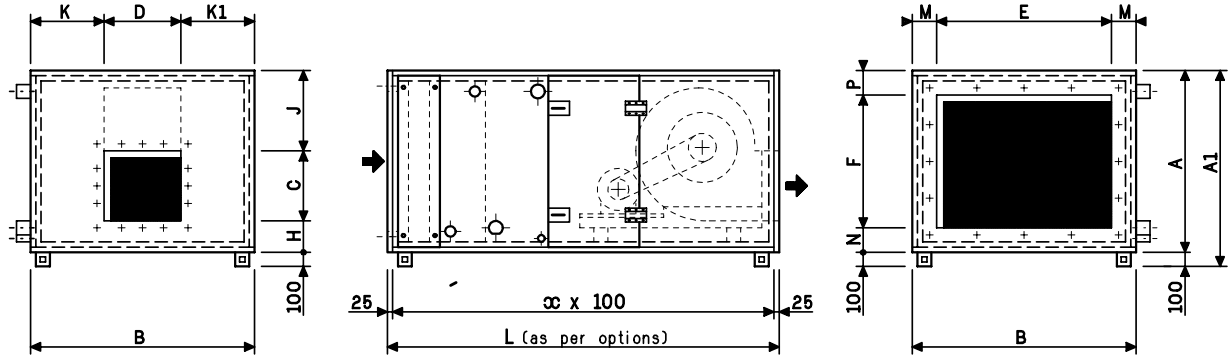
Various installation positions for manoeuvring by-pass dampers, if included, and discharging condensates as a function of the air direction



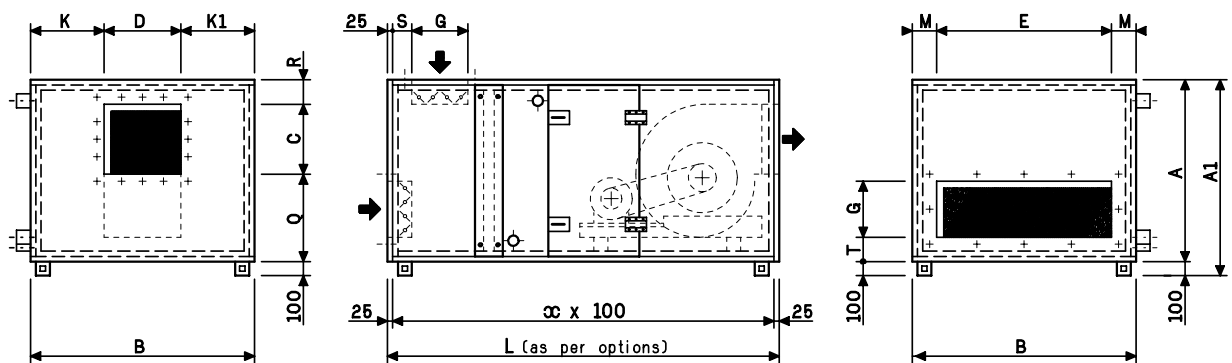
AIR CONNECTIONS

H Horizontal air handling unit mounting

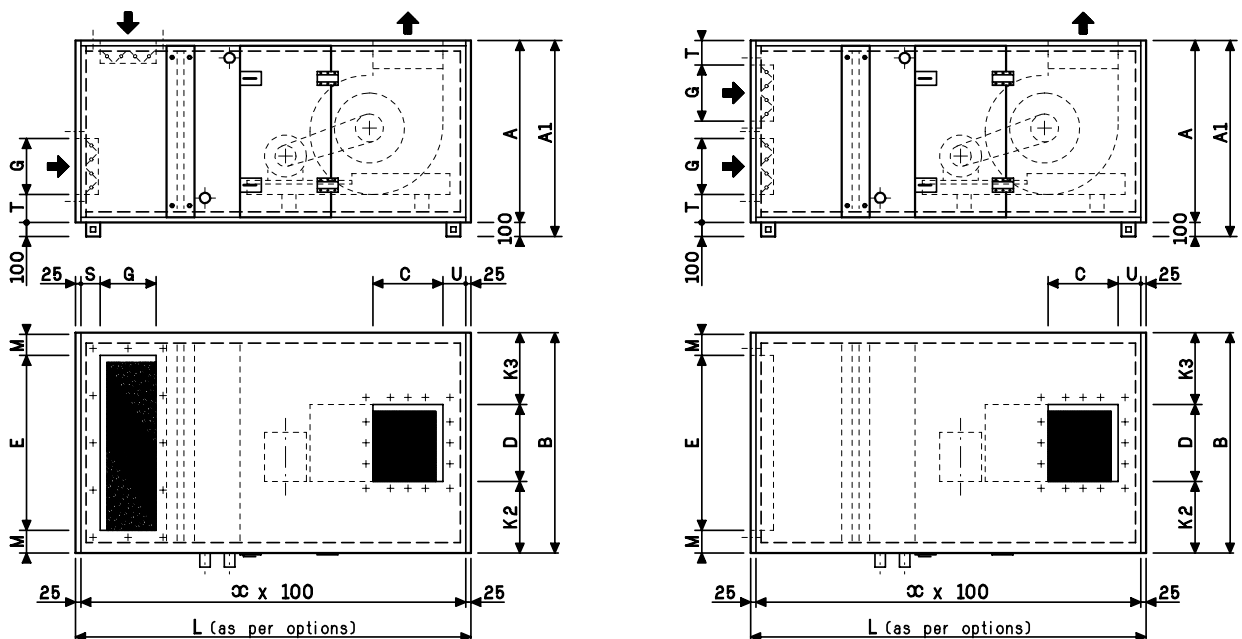
- HI Lower horizontal discharge



- HS Upper horizontal discharge



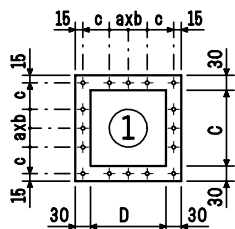
- VS Upper vertical discharge



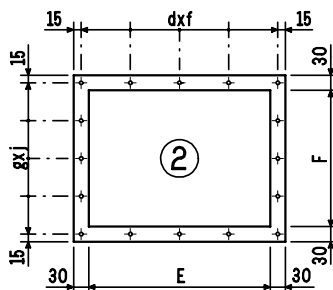
AIR CONNECTIONS

Drilling of connection flanges

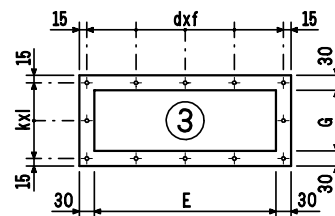
Fan discharge



Air handling unit intake



Mixing intake



Drilling for sheet screws diam. 5.5

AIRTOP	25	50	75	100	150
A	593	865	865	946	1236
A1	693	965	965	1046	1336
B	875	875	1185	1516	1516
C	299	415	464	514	574
D	299	415	464	514	574
E	610	610	910	1260	1260
F	310	610	610	610	1010
G	160	310	310	310	410
H	85.5	174.5	104	106.5	206.5
J	208.5	275.5	297	325.5	455.5
K	288	230	360.5	501	471
K1	288	230	360.5	501	471
K2	288	230	360.5	501	471
K3	288	230	360.5	501	471
M	132.5	132.5	137.5	128	128
N	141.5	127.5	127.5	168	113
P	141.5	127.5	127.5	168	113
Q	208.5	275.5	297	325.5	455.5
R	85.5	174.5	104	106.5	206.5
S	70	70	70	90	90
T	97	90.5	90.5	126	156
U	74	72	75	83.5	83.5
a	0	1	1	1	1
b	0	125	125	125	250
c	164.5	160	184.5	209.5	177
d	3	3	3	4	4
f	213.3	213.3	313.3	322.5	322.5
g	2	3	3	3	4
j	170	213.3	213.3	213.3	260
k	1	2	2	2	2
i	190	170	170	170	220