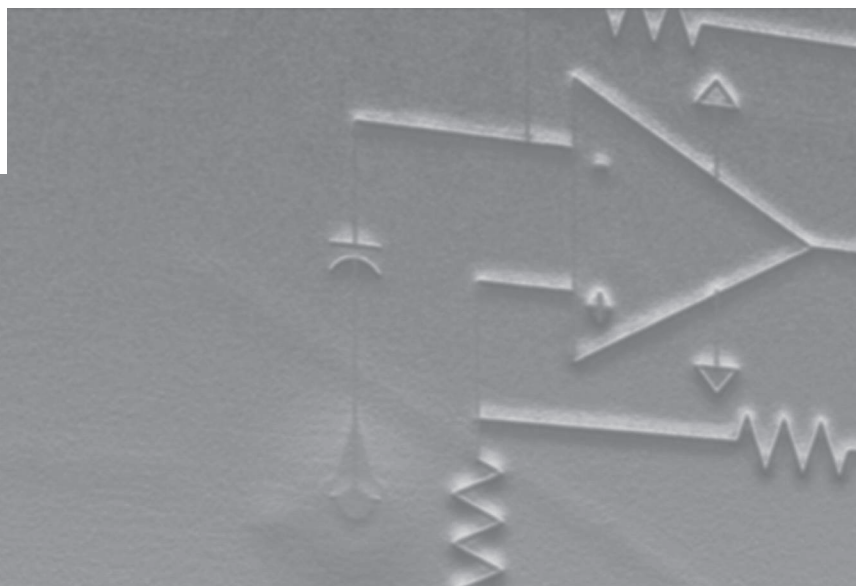




Technical and Commercial Manual

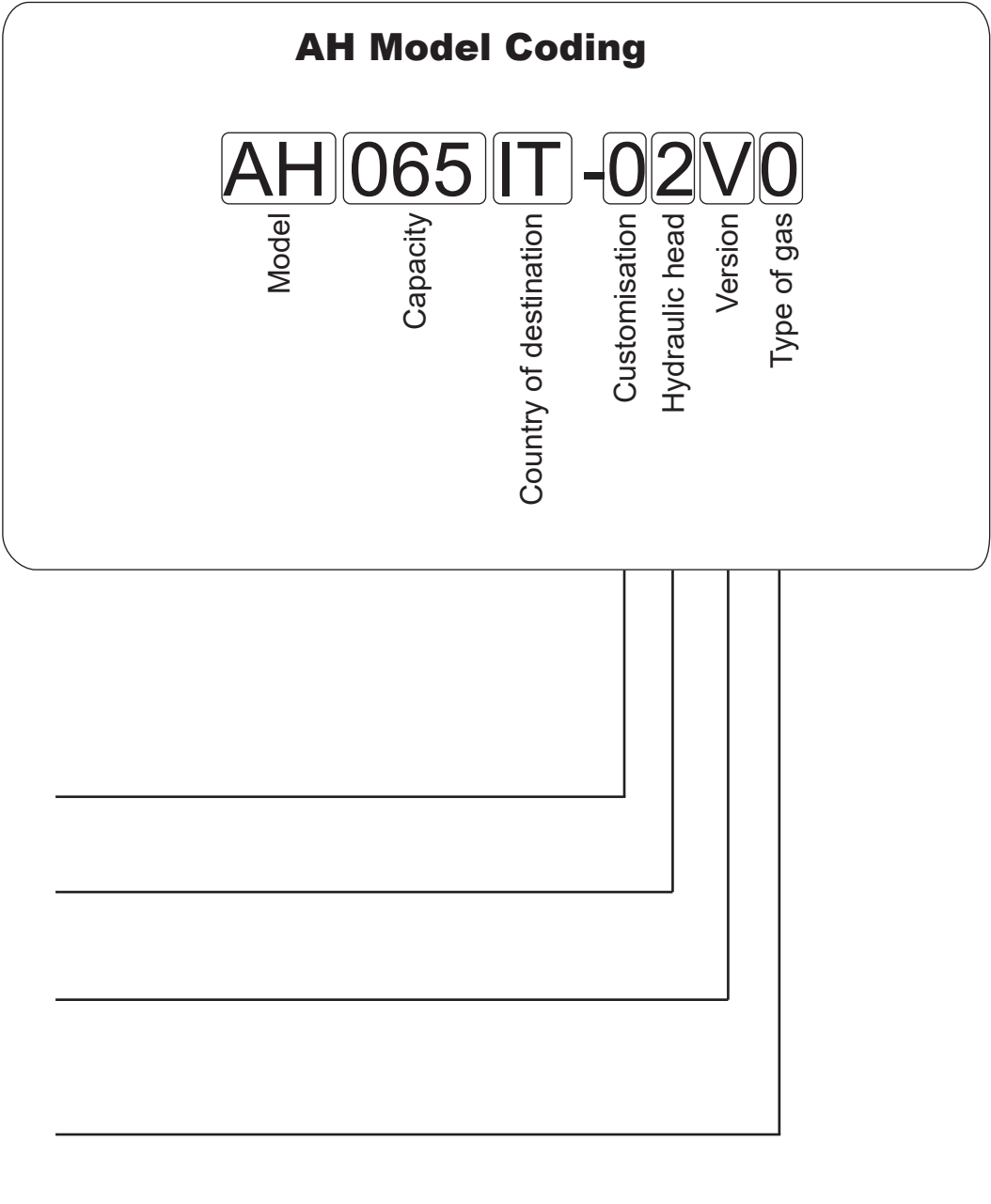
AH Heaters - New



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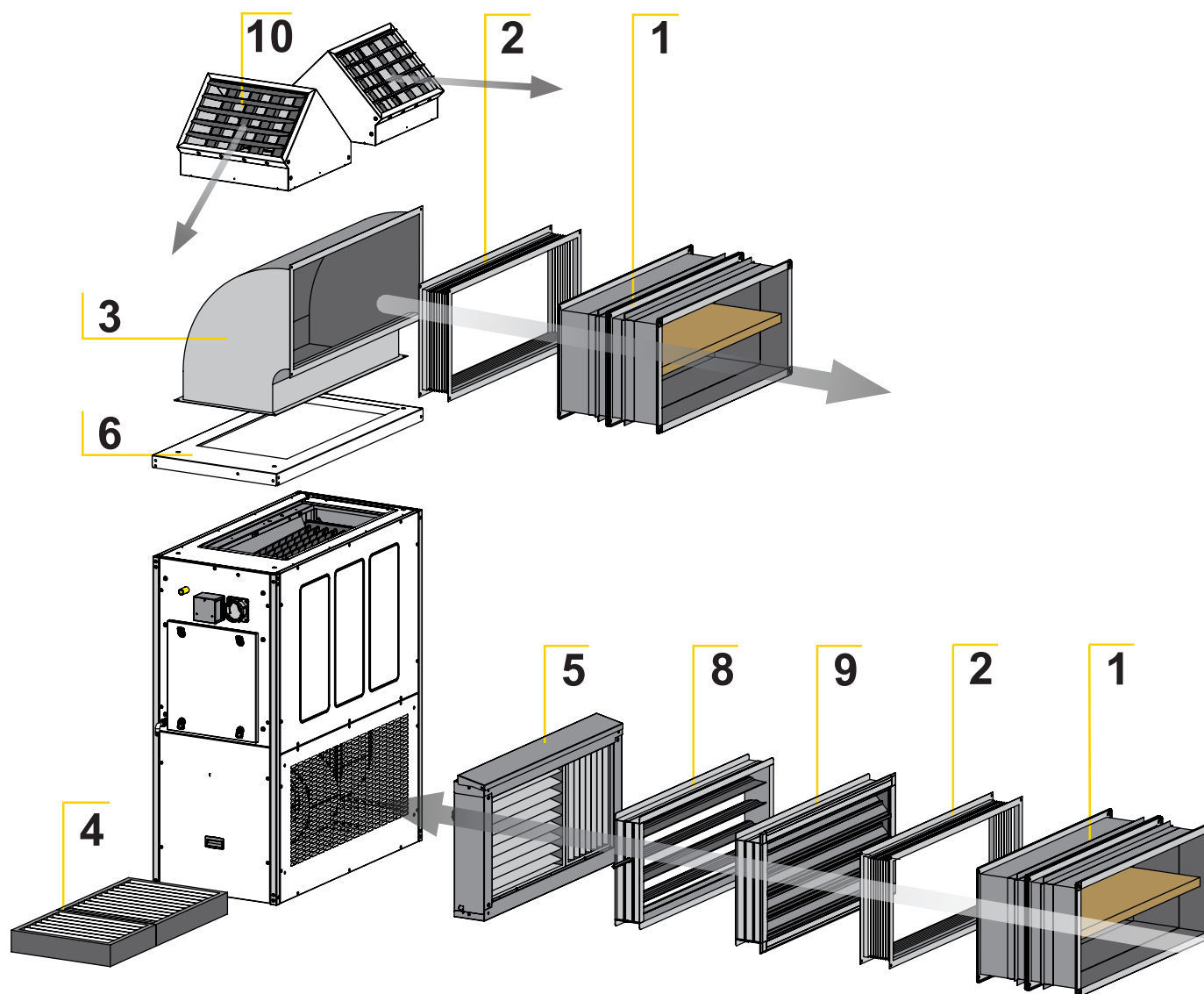
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1. AH UNIT MODEL CODING



2. SINGLE VERTICAL AH ACCESSORIES

2.1. Accessories



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Vertical ACCESSORIES

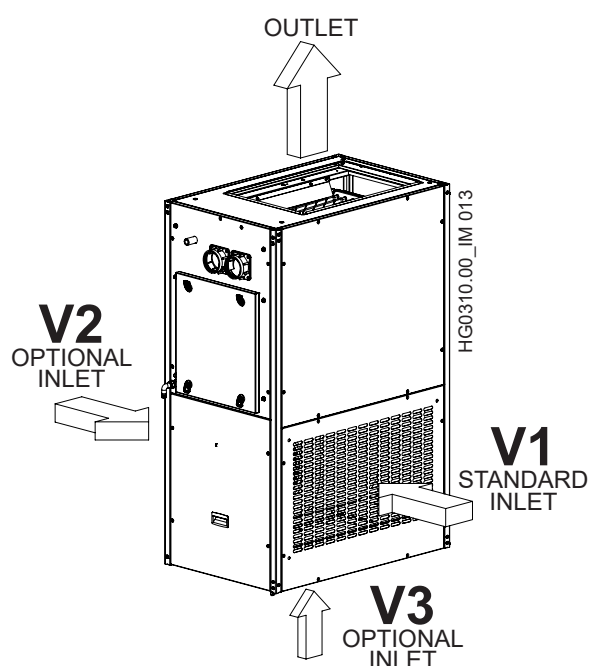
- | | |
|---------------------------|--|
| ① FIRE Damper | ⑥ Vertical ROOF (for outdoor installation) |
| ② VIBRATION DAMPING joint | ⑧ Motorised REGULATION shutter |
| ③ DUCT bend | ⑨ RAIN deflector |
| ④ Intake G3 FILTER | ⑩ Delivery PLENUM |
| ⑤ Side intake G3 FILTER | |

SINGLE VERTICAL Models (- xxV0)

POS.	Description	Model Code			
		AH034	Price	AH065	Price
①	FIRE Damper	G23646		G23666	
②	VIBRATION DAMPING joint	G23647		G23667	
③	DUCT bend	G23648		G23668	
④	G3 FILTER Intake	FLXHM034		FLXHM065	
⑤	FILTRO G3 Side Intake	FLXHM034-L		FLXHM065-L	
⑥	Vertical ROOF (for outdoor installation)	G23641		G23661	
⑧	Motorised REGULATION shutter	G23644		G23664	
⑨	RAIN deflector	G23645		G23665	
⑩	Delivery PLENUM	PLXHM034		PLXHM065	

2.2. Input and output configurations

Vertical single-module AH units feature air inlet in standard position V1. It is possible to request air inlet in position V2 and V3 as an alternative and/or in addition to inlet V1, as follows:

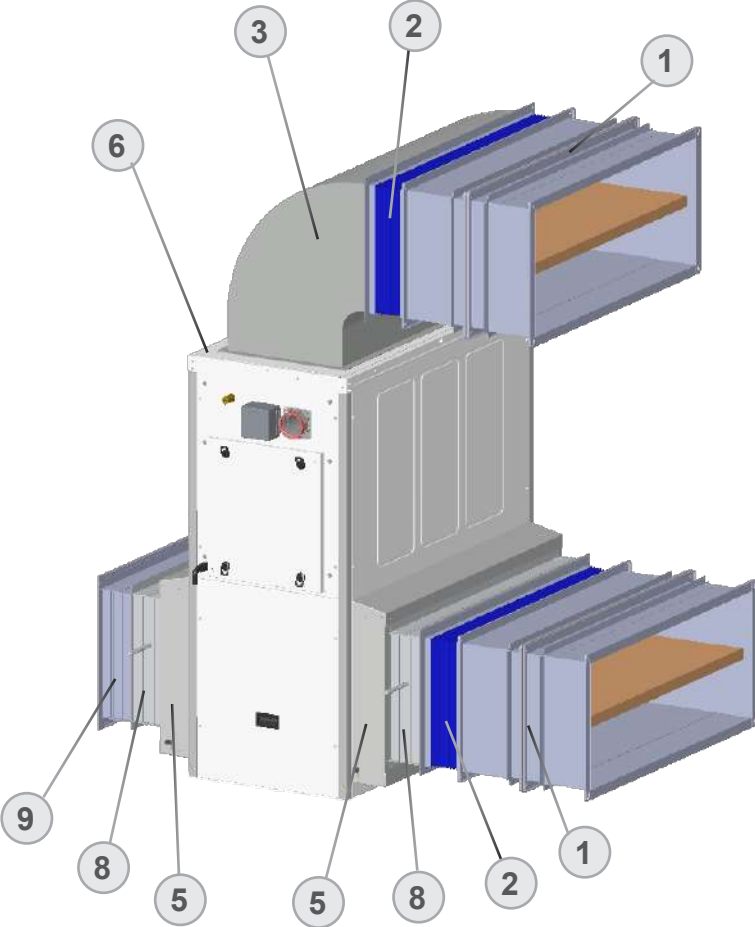


VERTICAL configuration

V1	STANDARD
V2	on REQUEST
V3	on REQUEST (for special cases)
V1 + V2	on REQUEST
V1 + V3	on REQUEST (for special cases)
V2 + V3	on REQUEST (for special cases)

The accessories indicated above can be added to any of the different configurations described.

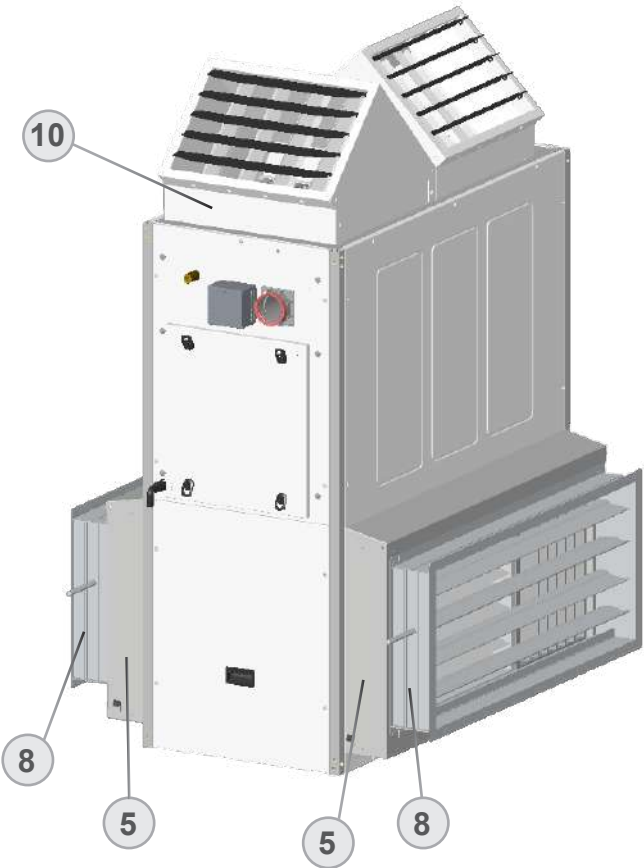
2.3. Common configuration examples

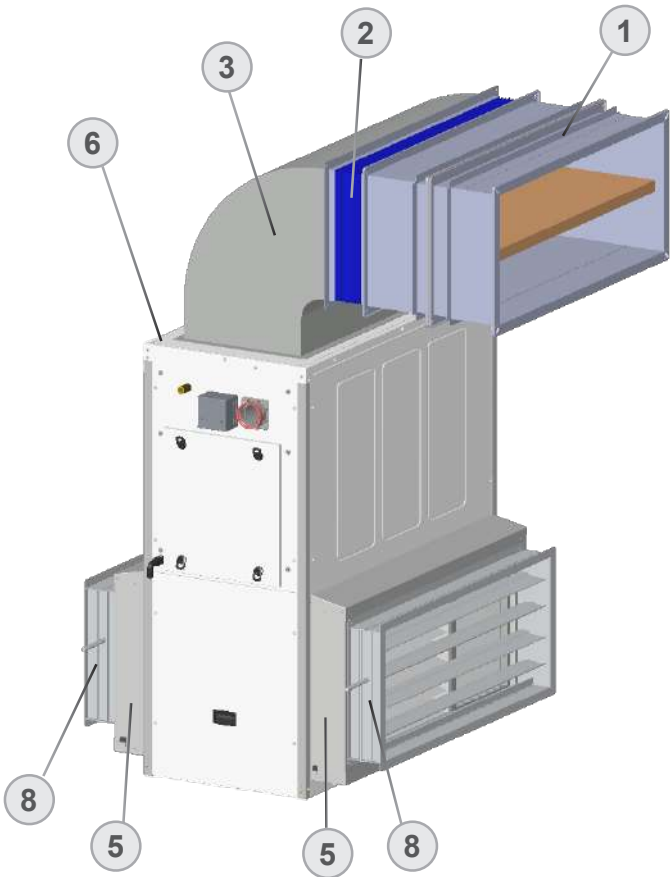


Example of Configuration A intake V1+ V2		
REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	2
②	VIBRATION DAMPING joint	2
③	DUCT bend	1
⑤	Side intake G3 FILTER	2
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	2
⑨	RAIN deflector	1

INDOOR INSTALLATION

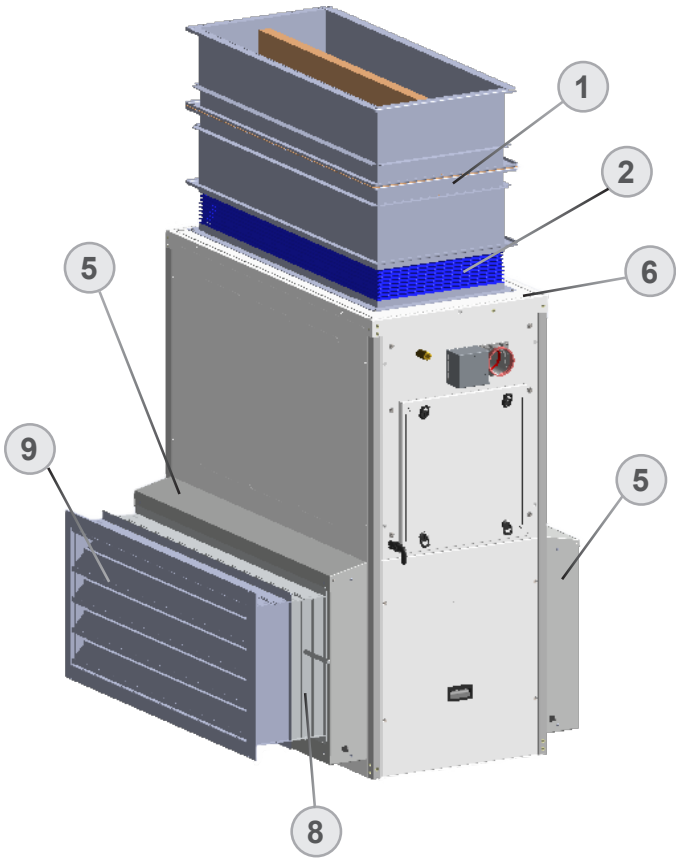
Example of Configuration B intake V1+ V2		
REF.	DESCRIPTION OF ACCESSORIES	QT
⑤	Side intake G3 FILTER	2
⑧	Motorised REGULATION shutter	2
⑩	Delivery PLENUM	1





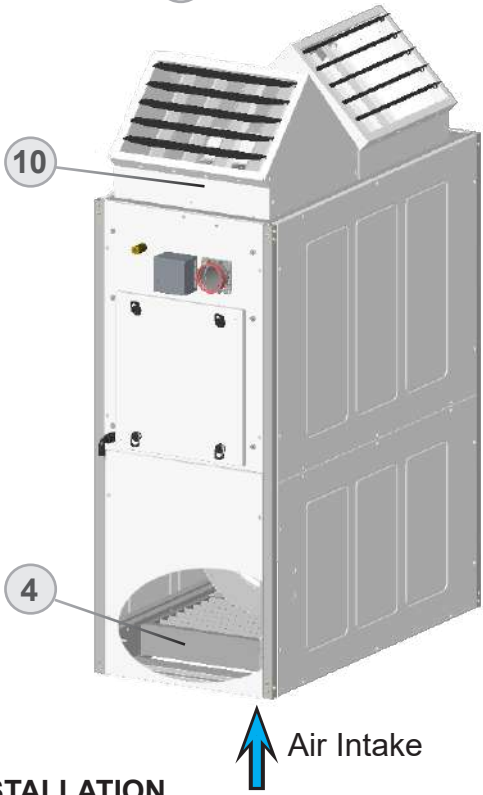
**Example of Configuration C
intake V1+ V2**

REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	1
②	VIBRATION DAMPING joint	1
③	DUCT bend	1
⑤	Side intake G3 FILTER	2
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	2



**Example of Configuration E
intake V1+ V2**

REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	1
②	VIBRATION DAMPING joint	1
⑤	Side intake G3 FILTER	2
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1



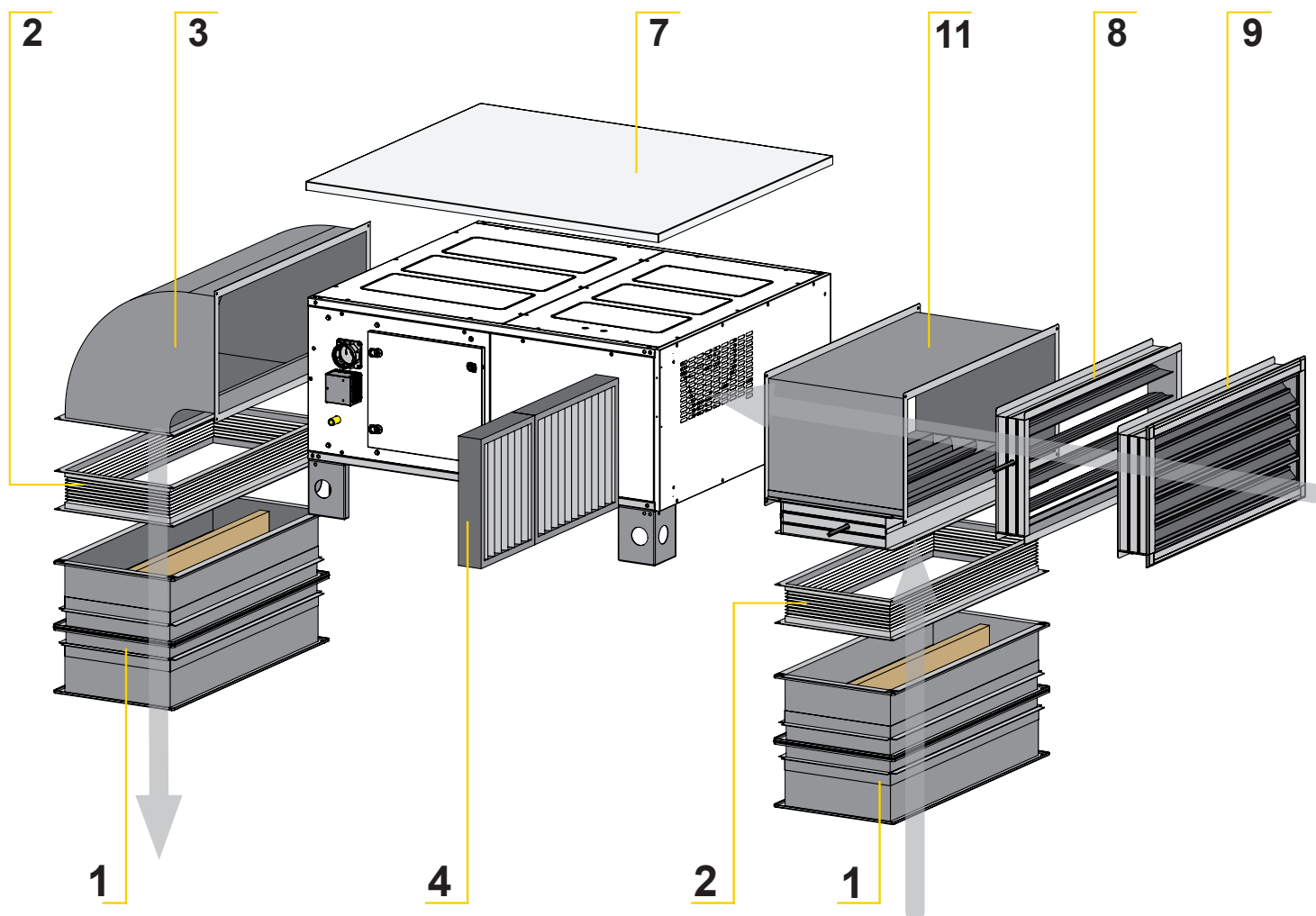
INDOOR INSTALLATION

**Example of Configuration D
intake V3**

REF.	DESCRIPTION OF ACCESSORIES	QT
④	Intake G3 FILTER	1
⑩	Delivery PLENUM	1

3. SINGLE HORIZONTAL AH ACCESSORIES

3.1. Accessories



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Horizontal ACCESSORIES

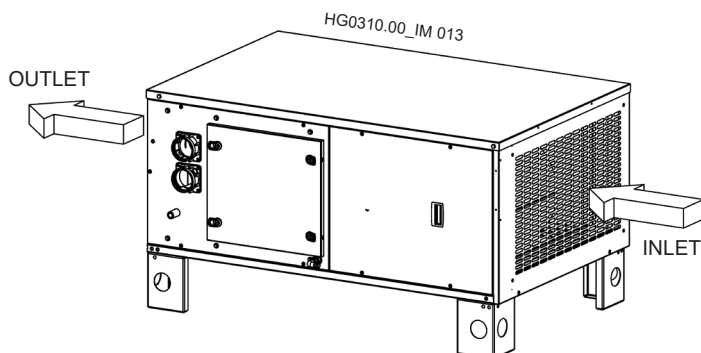
- | | |
|---------------------------|--|
| ① FIRE Damper | ⑦ Horizontal ROOF (for outdoor installation) |
| ② VIBRATION DAMPING joint | ⑧ Motorised REGULATION shutter |
| ③ DUCT bend | ⑨ RAIN deflector |
| ④ Intake G3 FILTER | ⑪ MIXING Box (including Regulation Shutter) |

SINGLE HORIZONTAL Models (- xxH0)

POS.		Model Code			
		AH034	Price	AH065	Price
①	FIRE Damper	G23646		G23666	
②	VIBRATION DAMPING joint	G23647		G23667	
③	DUCT bend	G23648		G23668	
④	G3 FILTER Intake	FLXHM034		FLXHM065	
⑦	Horizontal ROOF (for outdoor installation)	G23641-H		G23661-H	
⑧	Motorised REGULATION shutter	G23644		G23664	
⑨	RAIN deflector	G23645		G23665	
⑪	MIXING Box (including REGULATION Shutter)	G23643		G23663	

3.2. Input and output configurations

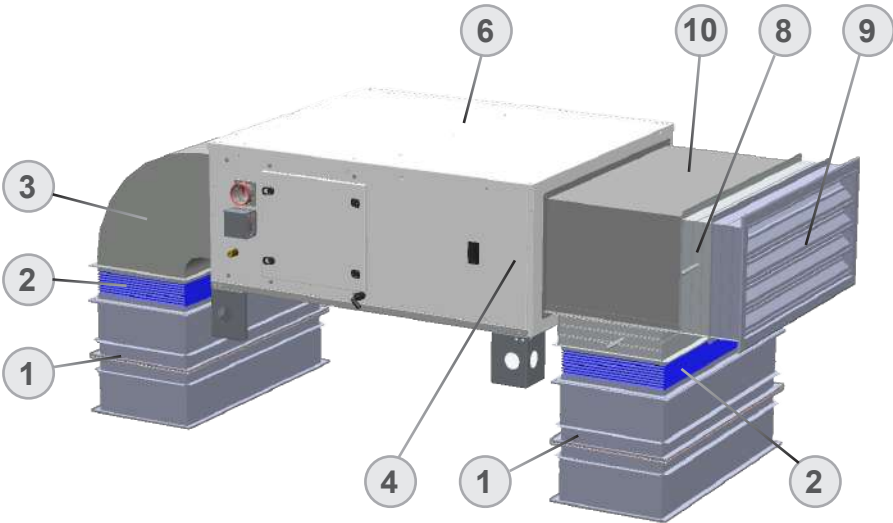
AH horizontal units feature only one configuration, the air inlet is on the RIGHT side and the outlet on the LEFT side when viewed from in front of the burner housing.



HORIZONTAL configuration

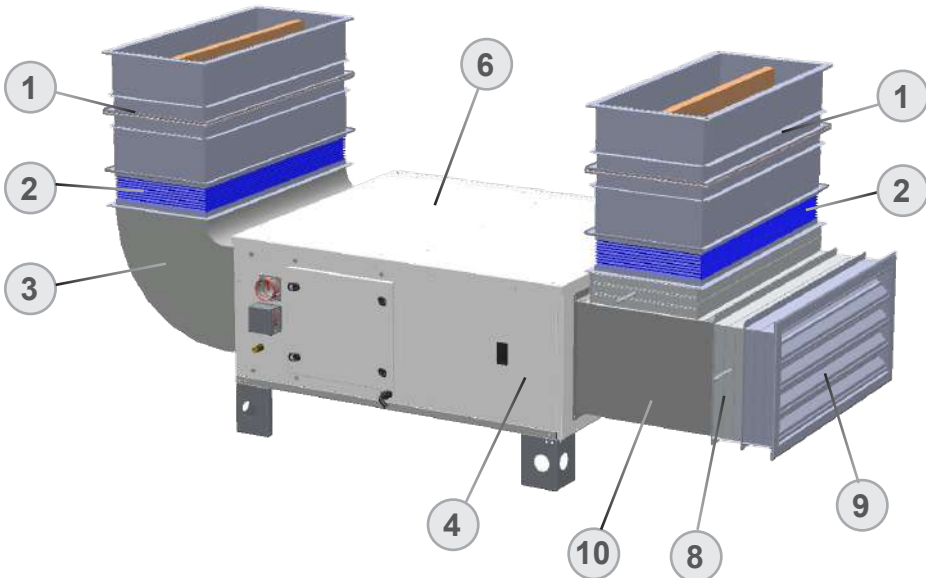
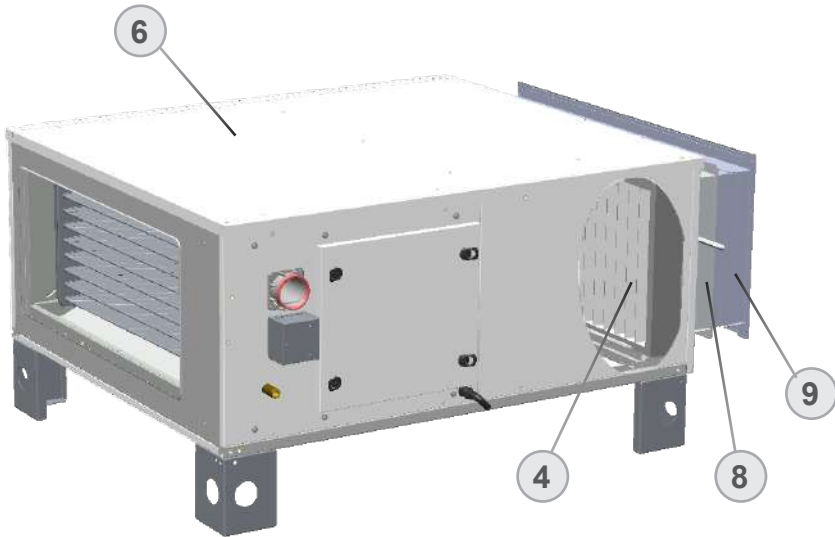
The accessories indicated above can be added to the configuration described.

3.3. Common configuration examples



Example of Configuration F		
REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	2
②	VIBRATION DAMPING joint	2
③	DUCT bend	1
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1
⑩	MIXING Box (including REGULATION Shutter)	1

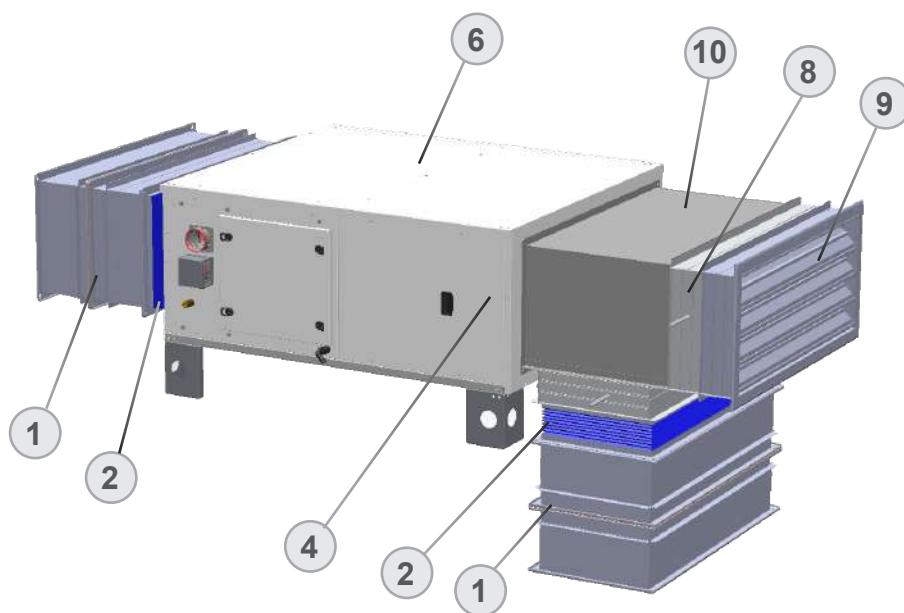
Example of Configuration G		
REF.	DESCRIPTION OF ACCESSORIES	QT
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1



Example of Configuration H		
REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	2
②	VIBRATION DAMPING joint	2
③	DUCT bend	1
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1
⑩	MIXING Box (including REGULATION Shutter)	1

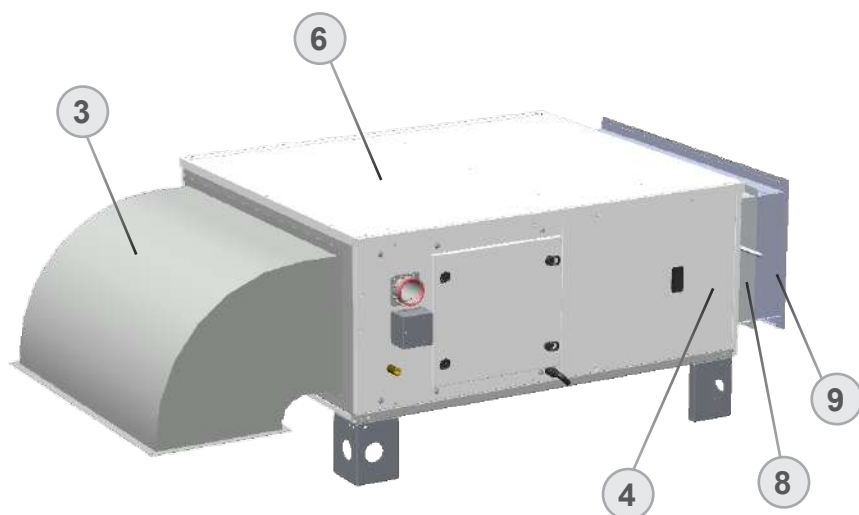
Example of Configuration I

REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	2
②	VIBRATION DAMPING joint	2
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1
⑩	MIXING Box (including REGULATION Shutter)	1



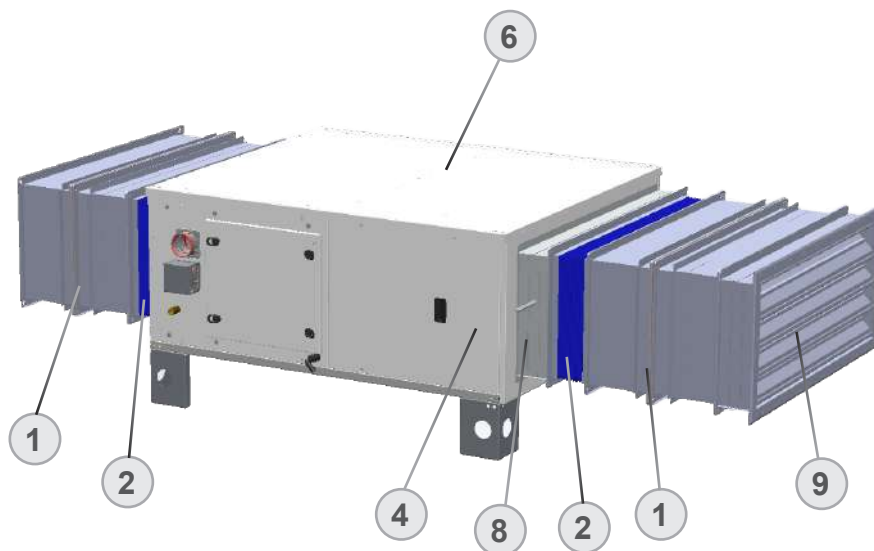
Example of Configuration L

REF.	DESCRIPTION OF ACCESSORIES	QT
③	DUCT bend	1
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1



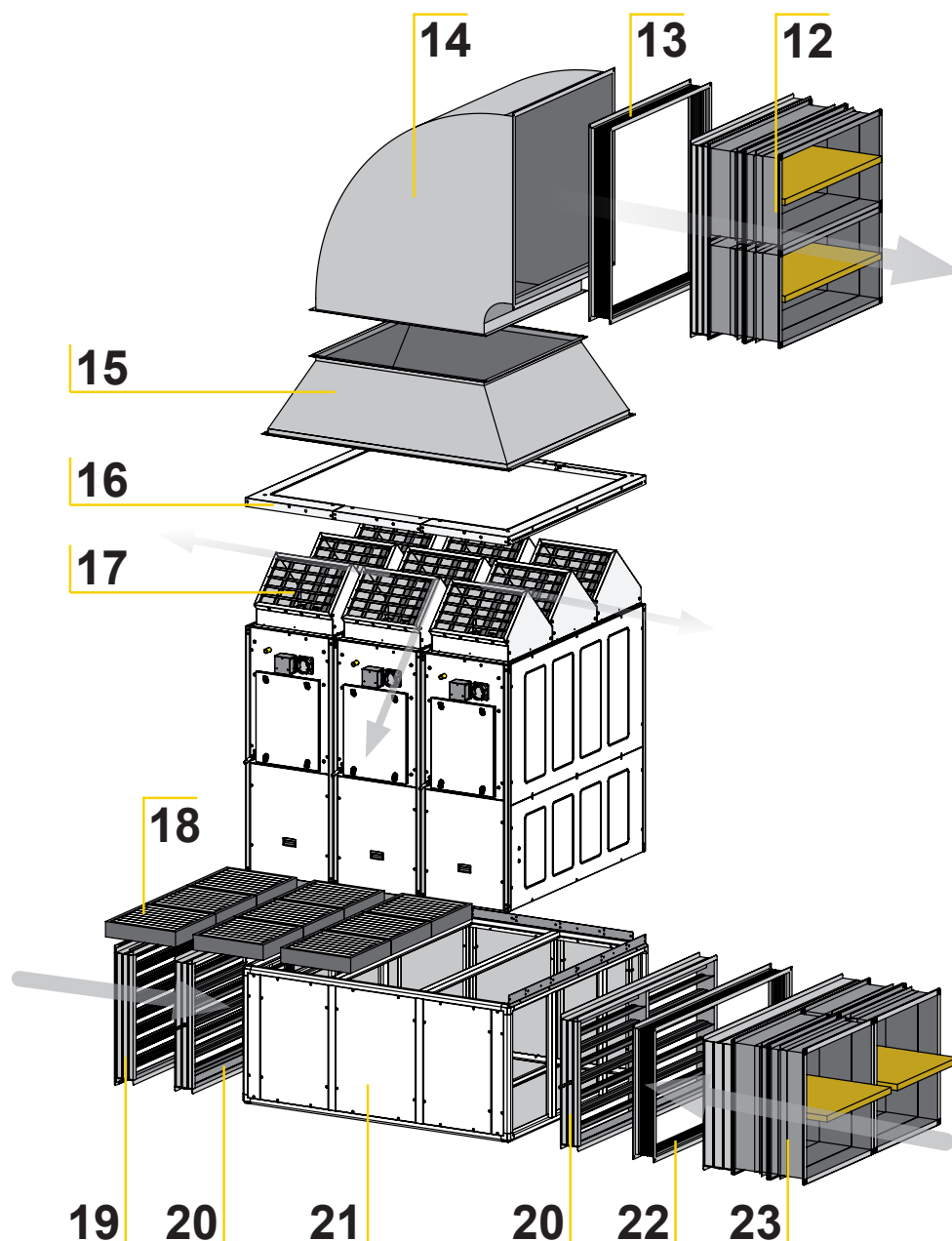
Example of Configuration M

REF.	DESCRIPTION OF ACCESSORIES	QT
①	FIRE Damper	2
②	VIBRATION DAMPING joint	2
④	Intake G3 FILTER	1
⑥	Vertical ROOF (for outdoor installation)	1
⑧	Motorised REGULATION shutter	1
⑨	RAIN deflector	1



4. MULTIPLE VERTICAL AH ACCESSORIES

4.1. Accessories



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ACCESSORIES

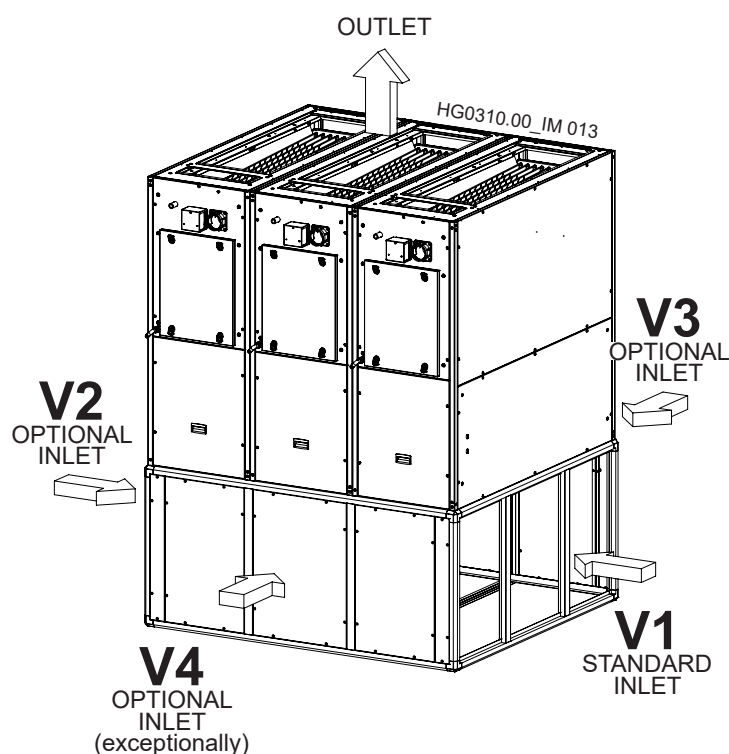
- | | |
|---|-------------------------------------|
| (12) Delivery fire DAMPER | (18) Intake G3 FILTER |
| (13) Delivery VIBRATION DAMPING joint | (19) RAIN deflector |
| (14) DUCT bend | (20) Motorised REGULATION shutter |
| (15) DUCT reduction | (21) Intake PLENUM |
| (16) Vertical ROOF (for outdoor installation) | (22) Intake VIBRATION DAMPING joint |
| (17) Delivery PLENUM | (23) Intake Fire DAMPER |

MULTIPLE VERTICAL Models (- xxV0)

POS.	Model Code					
	AH160 / AH210	Price	AH320	Price	AH420	Price
12	Delivery fire DAMPER	G23756	G23766		G23776	
13	Delivery VIBRATION DAMPING joint	G23757	G23767		G23777	
14	DUCT bend	G23728	G23738		G23748	
15	DUCT reduction	G23729	G23739		G23749	
16	Vertical ROOF (for outdoor installation)	G23721	G23731		G23741	
17	Delivery PLENUM	PLXHM210	PLXHM320		PLXHM420	
18	Intake G3 FILTER	FLXHM210	FLXHM320		FLXHM420	
19	RAIN deflector	G23725	G23735		G23745	
20	Motorised REGULATION shutter	G23724	G23734		G23744	
21	Intake PLENUM	G23723	G23733		G23743	
22	Intake VIBRATION DAMPING joint	G23727	G23737		G23747	
23	Intake Fire DAMPER	G23726	G23736		G23746	

4.2. Input and output configurations

Vertical multiple-module AH units feature air inlet in standard position V1. It is possible to request air inlet in position V2, V3 and V4 as an alternative and/or in addition to inlet V1, as follows:

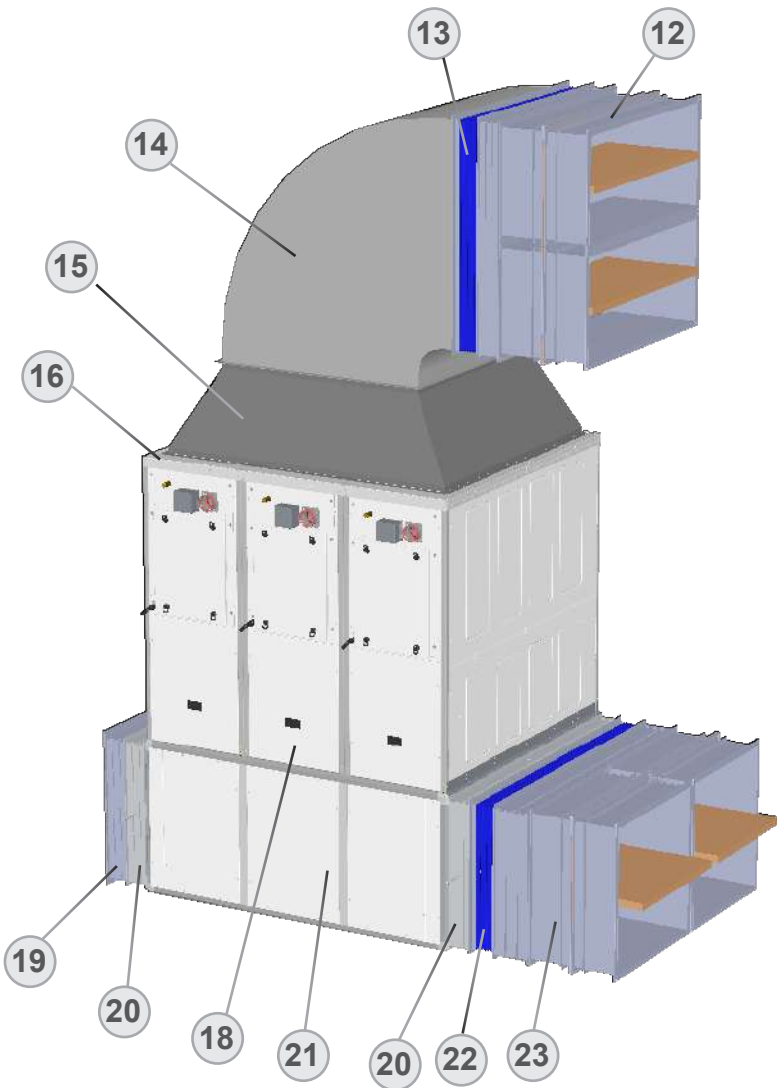


VERTICAL configuration

V1	STANDARD
V2	on REQUEST
V3	on REQUEST
V4	on REQUEST (for special cases)
V1 + V2	on REQUEST
V1 + V3	on REQUEST
V1 + V4	on REQUEST (for special cases)
V2 + V3	on REQUEST
V2 + V4	on REQUEST (for special cases)
V3 + V4	on REQUEST (for special cases)
...	

The accessories indicated above can be added to any of the different configurations described.

4.3. Common configuration examples



Example of Configuration N intake V1+V2		
REF.	DESCRIPTION OF ACCESSORIES	QT
12	Delivery fire DAMPER	1
13	Delivery VIBRATION DAMPING joint	1
14	DUCT bend	1
15	DUCT reduction	1
16	Vertical ROOF (for outdoor installation)	1
18	Intake G3 FILTER	1
19	RAIN deflector	1
20	Motorised REGULATION shutter	2
21	Intake PLENUM	1
22	Intake VIBRATION DAMPING joint	1
23	Intake Fire DAMPER	1

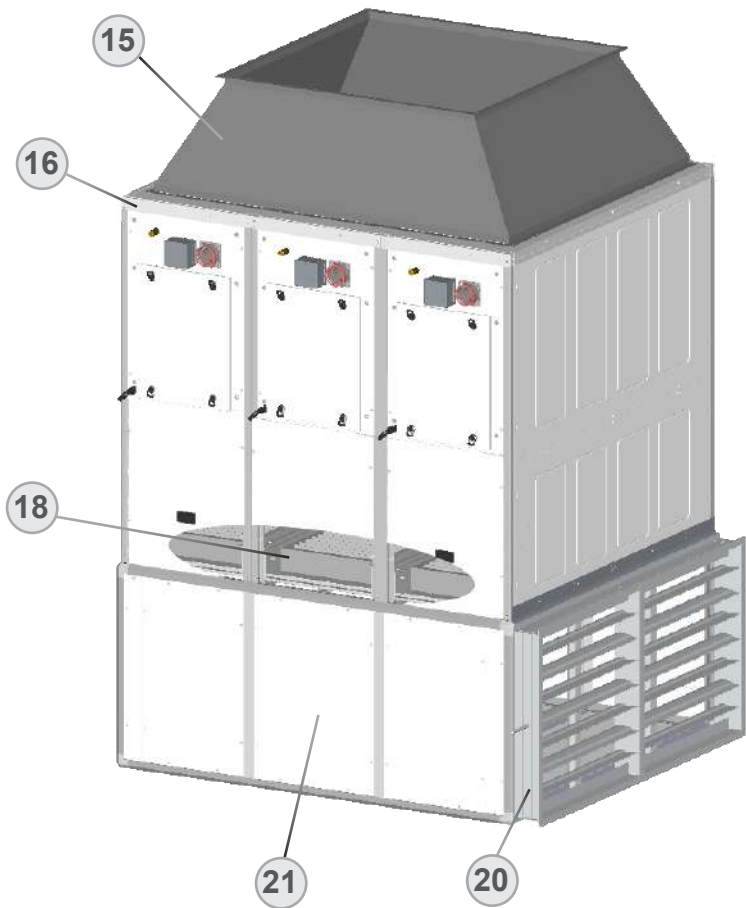
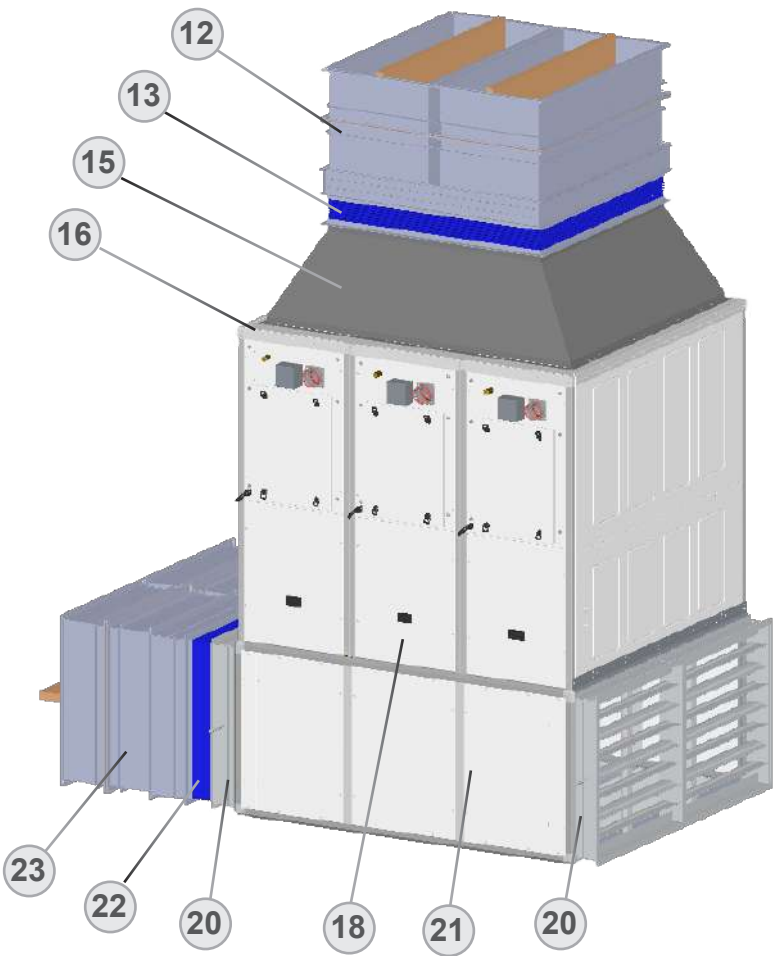
INDOOR INSTALLATION

Example of Configuration O		
REF.	DESCRIPTION OF ACCESSORIES	QT
17	Delivery PLENUM	1
18	Intake G3 FILTER	1
21	Intake PLENUM	1



**Example of Configuration P
intake V1+V2**

REF.	DESCRIPTION OF ACCESSORIES	QT
12	Delivery fire DAMPER	1
13	Delivery VIBRATION DAMPING joint	1
15	DUCT reduction	1
16	Vertical ROOF (for outdoor installation)	1
18	Intake G3 FILTER	1
20	Motorised REGULATION shutter	2
21	Intake PLENUM	1
22	Intake VIBRATION DAMPING joint	1
23	Intake Fire DAMPER	1

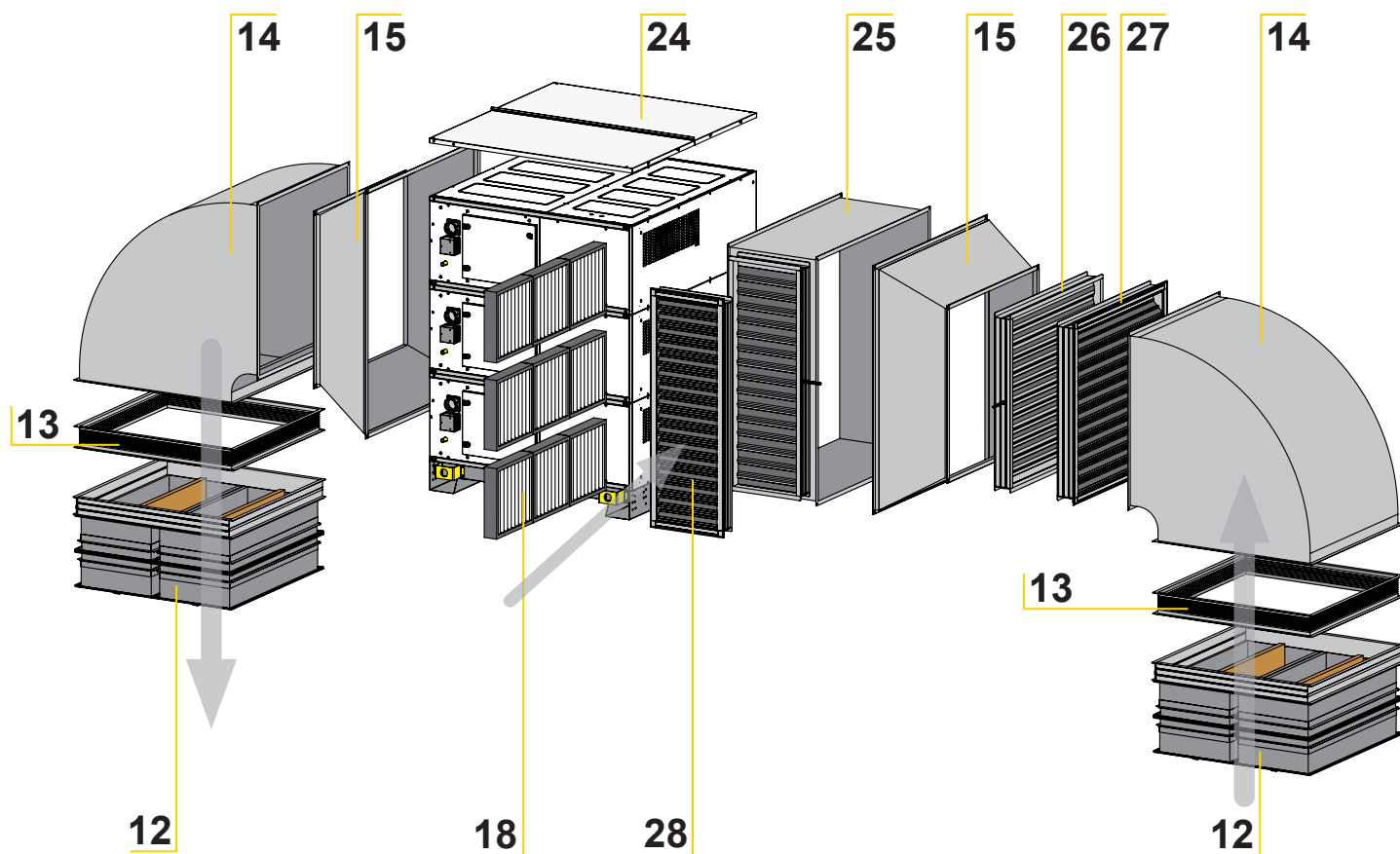


**Example of Configuration Q
intake V1+V2**

REF.	DESCRIPTION OF ACCESSORIES	QT
15	DUCT reduction	1
16	Vertical ROOF (for outdoor installation)	1
18	Intake G3 FILTER	1
20	Motorised REGULATION shutter	1
21	Intake PLENUM	1

5. MULTIPLE HORIZONTAL AH ACCESSORIES

5.1. Accessories



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ACCESSORIES

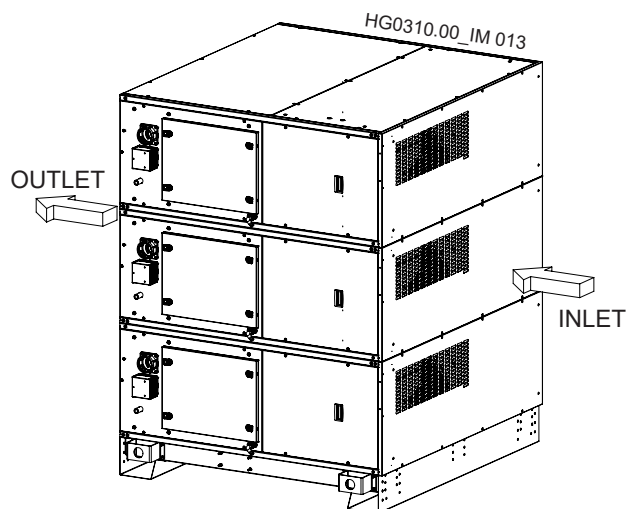
- | | |
|---------------------------|---|
| ⑫ FIRE Damper | ②④ Horizontal ROOF (for outdoor installation) |
| ⑬ VIBRATION DAMPING joint | ②⑤ MIXING Box (including REGULATION Shutter) |
| ⑭ DUCT bend | ②⑥ Motorised REGULATION shutter |
| ⑮ DUCT reduction | ②⑦ RAIN deflector |
| ⑱ Intake G3 FILTER | ②⑧ MIXING box RAIN deflector |

MULTIPLE HORIZONTAL Models (- xxH0)

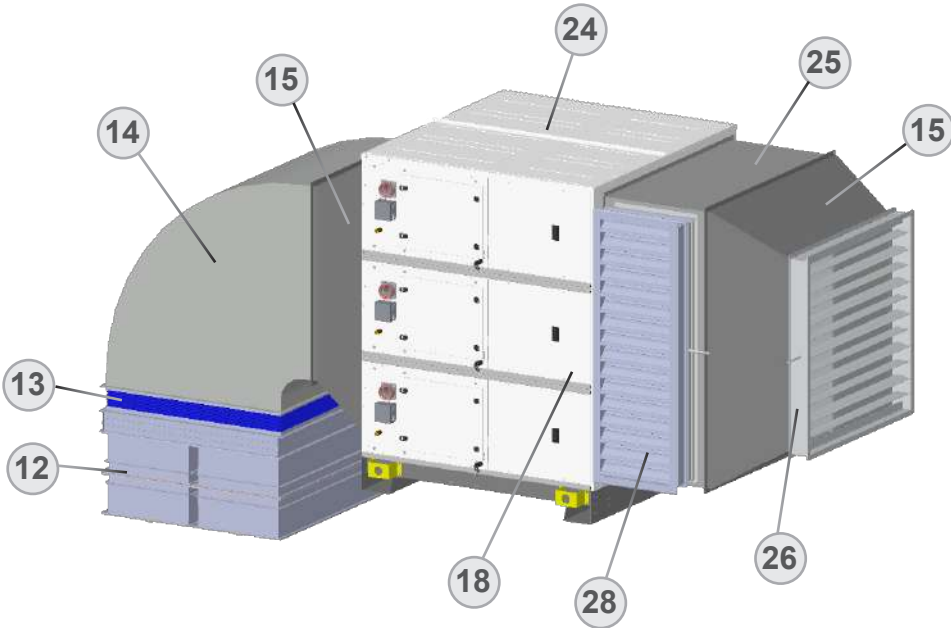
POS.		Model Code					
		AH160 / AH210	Price	AH320	Price	AH420	Price
12	FIRE Damper	G23756		G23766		G23776	
13	VIBRATION DAMPING joint	G23757		G23767		G23777	
14	DUCT bend	G23728		G23738		G23748	
15	DUCT reduction	G23729		G23739		G23749	
18	Intake G3 FILTER	FLXHM210		FLXHM320		FLXHM420	
24	Horizontal ROOF (for outdoor installation)	G23681-H		G23681-H		G23681-H	
25	MIXING Box (including REGULATION Shutter)	G23753		G23763		G23773	
26	Motorised REGULATION shutter	G23754		G23764		G23774	
27	RAIN deflector	G23755		G23765		G23775	
28	MIXING box RAIN deflector	G23752		G23762		G23772	

5.2. Input and output configurations

AH horizontal units feature only one configuration, the air inlet is on the RIGHT side and the outlet on the LEFT side when viewed from in front of the burner housing, as follows:

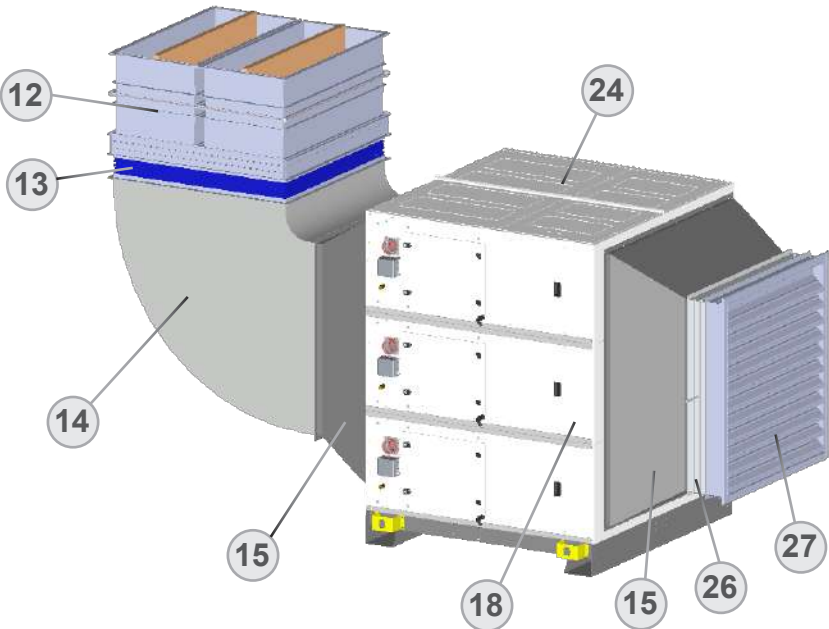
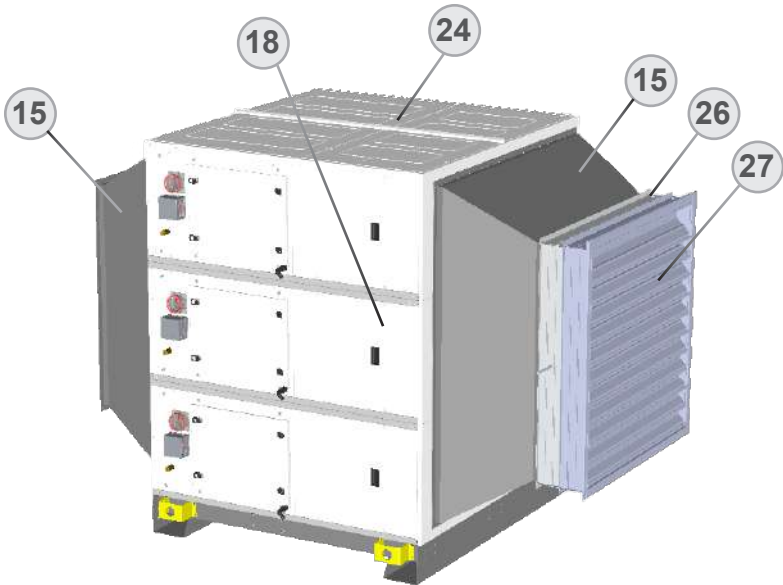


5.3. Common configuration examples

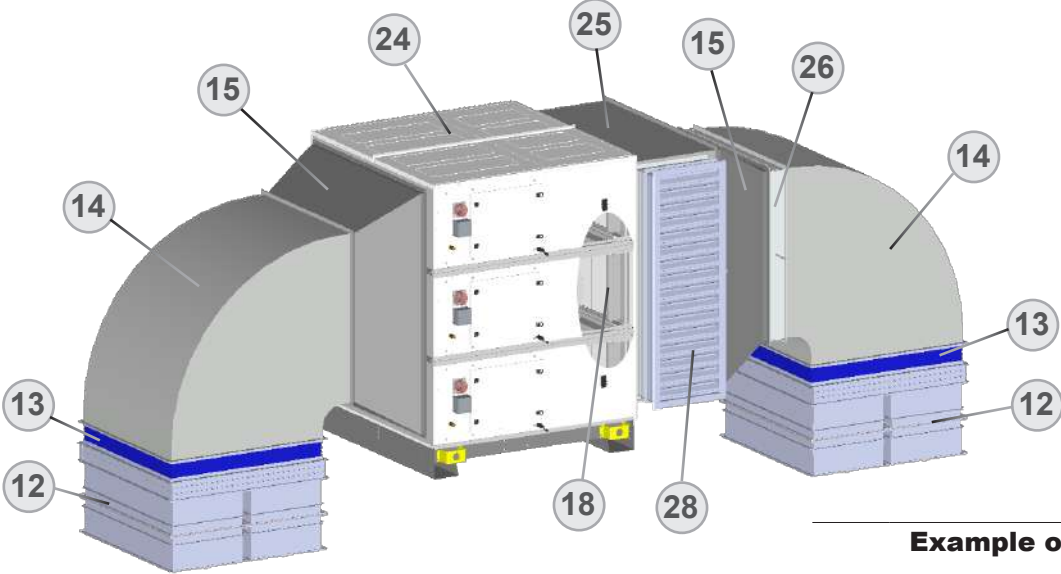


Example of Configuration R		
REF.	DESCRIPTION OF ACCESSORIES	QT
12	FIRE Damper	1
13	VIBRATION DAMPING joint	1
14	DUCT bend	1
15	DUCT reduction	2
18	Intake G3 FILTER	1
24	Vertical ROOF (for outdoor installation)	1
25	MIXING BOX (including REGULATION Shutter)	1
26	Motorised REGULATION shutter	1
28	Mixing box RAIN deflector	1

Example of Configuration S		
REF.	DESCRIPTION OF ACCESSORIES	QT
15	DUCT reduction	2
18	Intake G3 FILTER	1
24	Vertical ROOF (for outdoor installation)	1
26	Motorised REGULATION shutter	1
27	RAIN deflector	1



Example of Configuration T		
REF.	DESCRIPTION OF ACCESSORIES	QT
12	FIRE Damper	1
13	VIBRATION DAMPING joint	1
14	DUCT bend	1
15	DUCT reduction	2
18	Intake G3 FILTER	1
24	Vertical ROOF (for outdoor installation)	1
26	Motorised REGULATION shutter	1
27	RAIN deflector	1

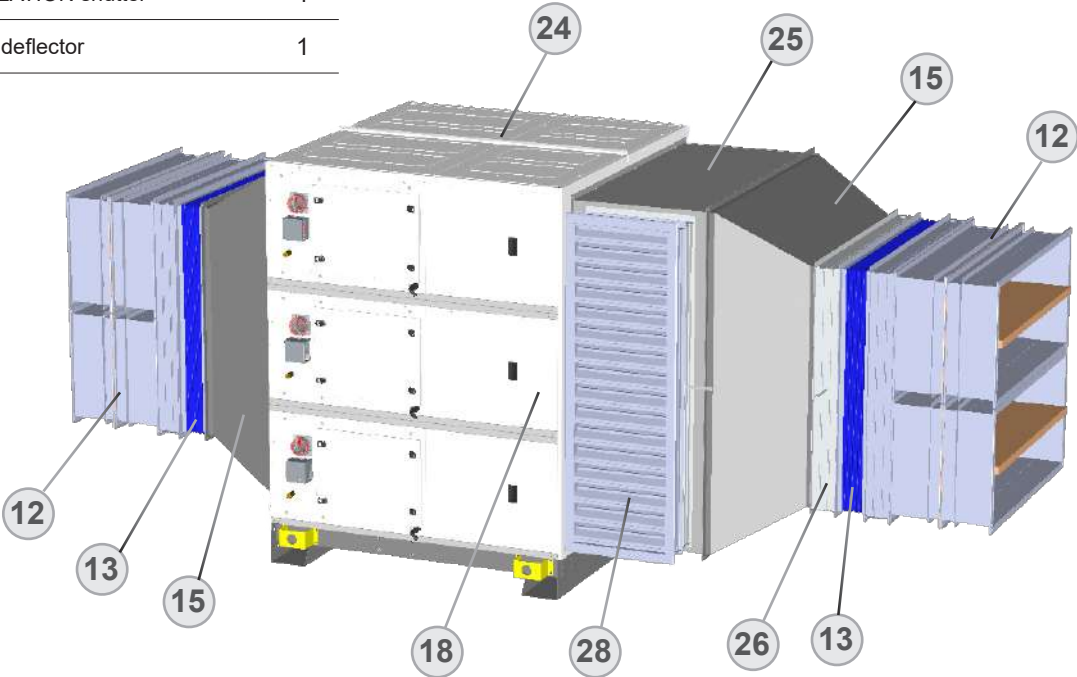


Example of Configuration U

REF.	DESCRIPTION OF ACCESSORIES	QT
12	FIRE Damper	2
13	VIBRATION DAMPING joint	2
14	DUCT bend	2
15	DUCT reduction	2
18	Intake G3 FILTER	1
24	Vertical ROOF (for outdoor installation)	1
25	MIXING BOX (including REGULATION Shutter)	1
26	Motorised REGULATION shutter	1
28	Mixing box RAIN deflector	1

Example of Configuration V

REF.	DESCRIPTION OF ACCESSORIES	QT
12	FIRE Damper	2
13	VIBRATION DAMPING joint	2
15	DUCT reduction	2
18	Intake G3 FILTER	1
24	Vertical ROOF (for outdoor installation)	1
25	MIXING BOX (including REGULATION Shutter)	1
26	Motorised REGULATION shutter	1
28	Mixing box RAIN deflector	1



6. TECHNICAL DATA

6.1. Technical data of Single Models

Model		AH034		AH065		AH105	
Type of equipment		B23P - C(11) ₃ - C13 - C33 - C43 - C53 - C63					
EC approval	PIN	0476DL4298					
NOx class [EN17082:2019]	Val	5					
Type of fuel		Gaseous					
		Heater Performance					
		min	max	min	max	min	max
Furnace heat input (Hi)	kW	7.60	34.85	12.40	65.00	21.00	100.00
Useful heat output [P_{min} , P_{rated}]*	kW	8.13	33.56	13.40	62.93	22.77	97.15
Hi Efficiency (N.C.V.) [η_{pl} , η_{nom}]*	%	106.97	96.30	108.06	96.82	108.40	97.15
Hs efficiency (G.C.V.) [η_{pl} , η_{nom}]*	%	96.37	86.76	97.36	87.22	97.68	87.52
Flue losses with burner on (Hi)	%	0.6	3.7	0.2	3.2	0.2	2.8
Flue losses with burner off (Hi)	%	< 0.1		< 0.1		< 0.1	
Max. condensation ⁽¹⁾	l/h	0.9		2.1		2.7	
		Flue gas emissions					
Carbon monoxide - CO - (0% of O ₂) ⁽²⁾	ppm	< 5		< 5		< 5	
Nitrogen oxide emissions - NOx* (0% of O ₂) (Hi) ⁽³⁾		51 mg/kWh - 29 ppm		45 mg/kWh - 25 ppm		40 mg/kWh - 23 ppm	
Nitrogen oxide emissions - NOx* (0% of O ₂) (Hs) ⁽⁴⁾		46 mg/kWh - 26 ppm		41 mg/kWh - 23 ppm		36 mg/kWh - 20 ppm	
Pressure available at the flue	Pa	90		120		120	
		Electrical Characteristics					
Supply voltage	V	230V/1F+N - 50 Hz		400V/3F+N - 50 Hz			
Rated power - 0.8 kW MOTOR	kW	0.874		1.697		1.730	
Rated power - 2 kW MOTOR	kW	2.074		4.097		4.130	
Protection Rating	IP	IP X5D					
Operating Temperatures	°C	from -15°C to +40°C [for lower temperatures, a burner housing heating kit is required ⁽⁶⁾]					
		Connections					
Ø gas connection		UNI/ISO 228/1- G 3/4"		UNI/ISO 228/1- G 3/4"		UNI/ISO 228/1- G 3/4"	
Intake/exhaust pipes Ø	mm	80/80		80/80		80/80	
		Air flow rate					
Air flow rate (15°C) ⁽⁵⁾	m³/h	3210		6010		9280	
Available pressure - 0.8 kW MOTOR	Pa	190		380		See diagram "air flow rates - pressure drops"	
Available pressure - 2 kW MOTOR	Pa	560		740		190	
Number and type of fans		1 x DDMP 10/10		2 x DDMP 10/08		2 DDMP 10/10	
Air flow rate	m³/h	See diagram "air flow rates - pressure drops"					
Available Head Pressure	Pa	See diagram "air flow rates - pressure drops"					
		Weight					
Net Weight	kg	190		220		280	

NOTES:

* Symbol in compliance with Reg.EU/2281/2016.

(1) Max. condensation produced acquired from testing at 30%Qn.

(2) Value referred to category H (G20).

(3) Weighted value to EN1020:2009 ref. to cat. H (G20), referred to net calorific value (Hi, N.C.V).

(4) Weighted value to EN1020:2009 ref. to cat. H (G20), referred to gross calorific value (Hs, G.C.V).

(5) Reference air flow rate for the calculation of yields and season energy efficiencies and emissions, with constant air flow rate, listed in the table. Air flow rate calculated for a ΔT of 30 °C

(6) If the burner housing heater kit is installed, add 105 W (230V) per module to the rated power value on the nameplate.

6.2. Technical data of Multiple Models

Model		AH160		AH210		AH320		AH420	
Type of equipment		B23P - C(11) ₃ - C13 - C33 - C43 - C53 - C63							
EC approval	PIN	0476DL4298							
NOx class [EN17082:2019]		5							
Type of fuel		Gaseous							
		Heater Performance							
		min	max	min	max	min	max	min	max
Furnace heat input (Hi)	kW	16.40	164.00	21.00	200.00	21.00	300.00	21.00	400.00
Useful heat output [P_{min} , P_{rated}]*	kW	17.77	160.06	22.77	194.30	22.77	291.45	22.77	388.60
Hi Efficiency (N.C.V.) [η_{pl} , η_{nom}]*	%	108.35	97.60	108.40	97.15	108.40	97.15	108.40	97.15
Hs efficiency (G.C.V.) [η_{pl} , η_{nom}]*	%	97.62	87.93	97.68	87.52	97.68	87.52	97.68	87.52
Flue losses with burner on (Hi)	%	0.3	2.4	0.2	2.8	0.2	2.8	0.2	2.8
Flue losses with burner off (Hi)	%	< 0.1		< 0.1		< 0.1		< 0.1	
Max. condensation ⁽¹⁾	l/h	6.6		5.4		8.1		10.8	
		Flue gas emissions							
Carbon monoxide - CO - (0% of O ₂) ⁽²⁾	ppm	< 5		< 5		< 5		< 5	
Nitrogen oxide emissions - NOx* (0% of O ₂) (Hi) ⁽³⁾		31 mg/kWh - 18 ppm		40 mg/kWh - 23 ppm		40 mg/kWh - 23 ppm		40 mg/kWh - 23 ppm	
Nitrogen oxide emissions - NOx* (0% of O ₂) (Hs) ⁽⁴⁾		28 mg/kWh - 16 ppm		36 mg/kWh - 20 ppm		36 mg/kWh - 20 ppm		36 mg/kWh - 20 ppm	
Pressure available at the flue	Pa	120		120		120		120	
		Electrical Characteristics							
Supply voltage	V	400V/3F+N - 50 Hz							
Rated power - 0.8 kW MOTOR	kW	3.45		3.46		5.19		6.92	
Rated power - 2 kW MOTOR	kW	8.25		8.26		12.39		16.52	
Protection Rating	IP	IP X5D							
Operating Temperatures	°C	from -15°C to +40°C [for lower temperatures, a burner housing heating kit is required ⁽⁶⁾]							
		Connections							
Ø gas connection		UNI/ISO 228/1- 2 x G 3/4"		UNI/ISO 228/1- 2 x G 3/4"		UNI/ISO 228/1- 3 x G 3/4"		UNI/ISO 228/1- 4 x G 3/4"	
Intake/exhaust pipes Ø	mm	2 x 80/80		2 x 80/80		3 x 80/80		4 x 80/80	
		Air flow rate							
Air flow rate (15°C) ⁽⁵⁾	m³/h	15300		18560		27840		37120	
Available pressure - 0.8 kW MOTOR	Pa	See diagram "air flow rates - pressure drops"							
Available pressure - 2 kW MOTOR	Pa	355		190		190		190	
Number and type of fans		4 x DDMP 10/10		4 x DDMP 10/10		6 DDMP 10/10		8 x DDMP 10/10	
Air flow rate	m³/h	See diagram "air flow rates - pressure drops"							
Available Head Pressure	Pa	See diagram "air flow rates - pressure drops"							
		Weight							
Net Weight	kg	560		560		840		1120	

NOTES:

* Symbol in compliance with Reg.EU/2281/2016.

(1) Max. condensation produced acquired from testing at 30%Qn.

(2) Value referred to category H (G20).

(3) Weighted value to EN1020:2009 ref. to cat. H (G20), referred to net calorific value (Hi, N.C.V.).

(4) Weighted value to EN1020:2009 ref. to cat. H (G20), referred to gross calorific value (Hs, G.C.V.).

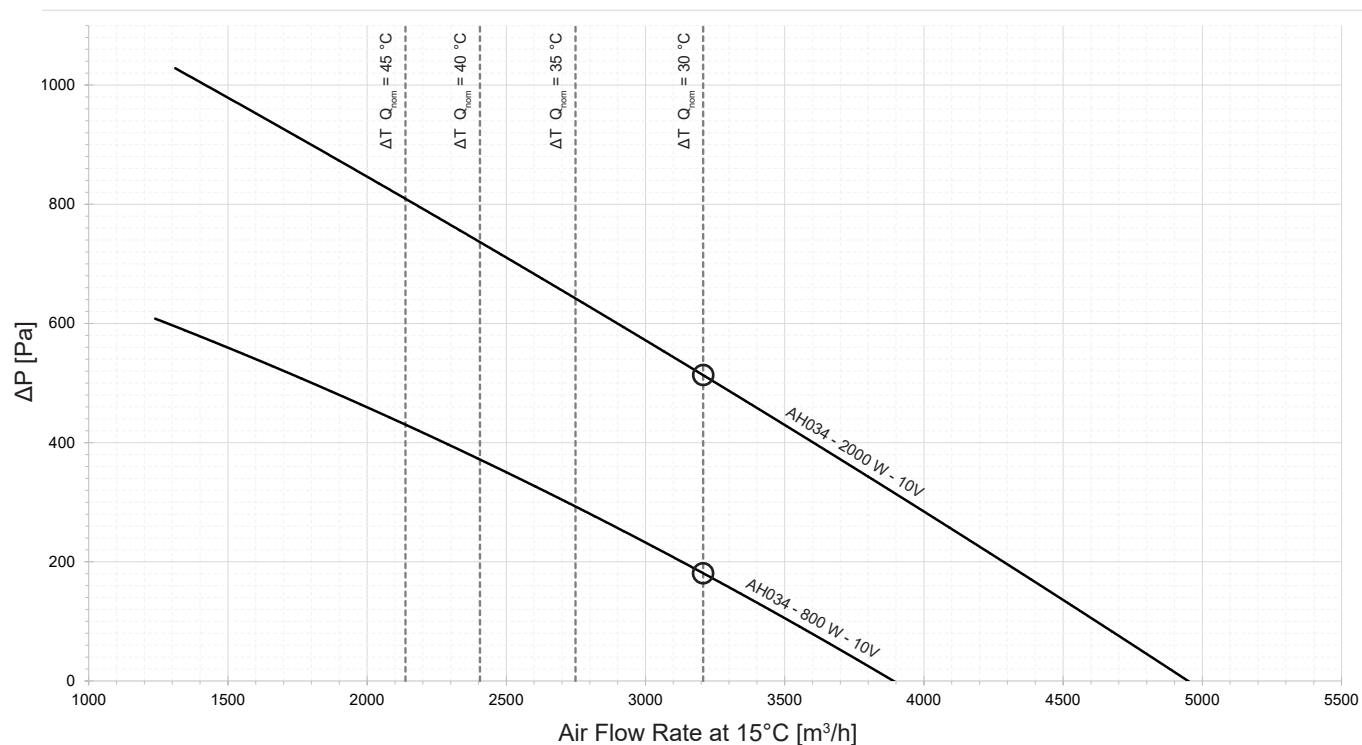
(5) Reference air flow rate for the calculation of yields and season energy efficiencies and emissions, with constant air flow rate, listed in the table. Air flow rate calculated for a ΔT of 30 °C

(6) If the burner housing heater kit is installed, add 105 W (230V) per module to the rated power value on the nameplate.

7. AIR FLOW RATE CURVES - PRESSURE

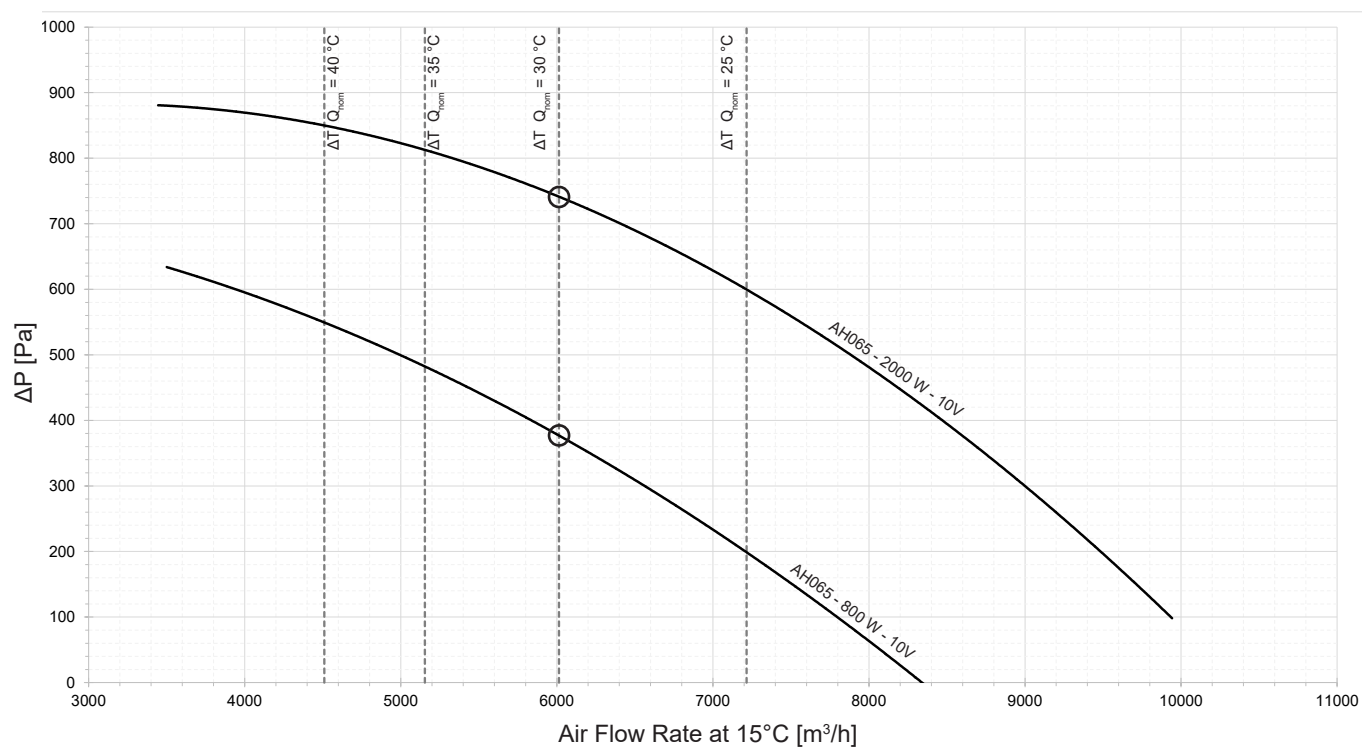
AH034 diagram

Air flow rate - Pressure drop [Q_{nom} - 10 V]

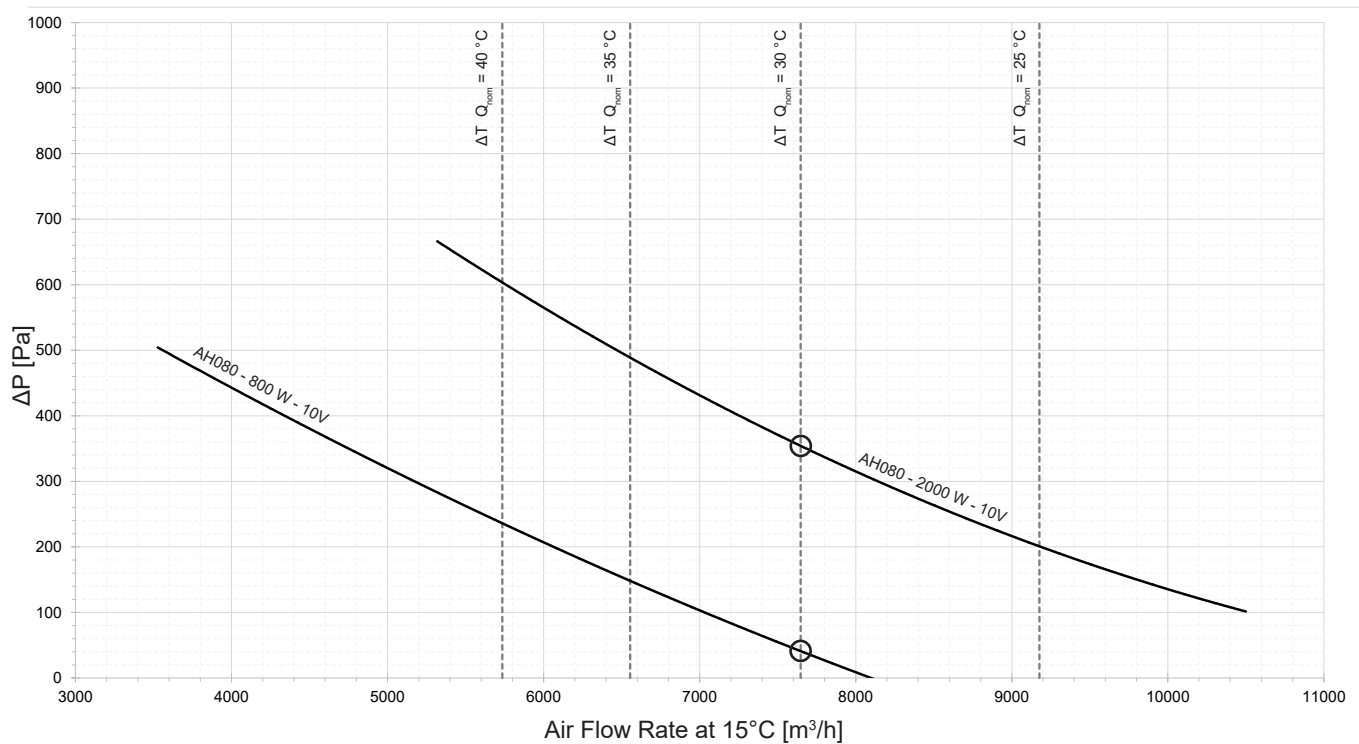


AH065 diagram

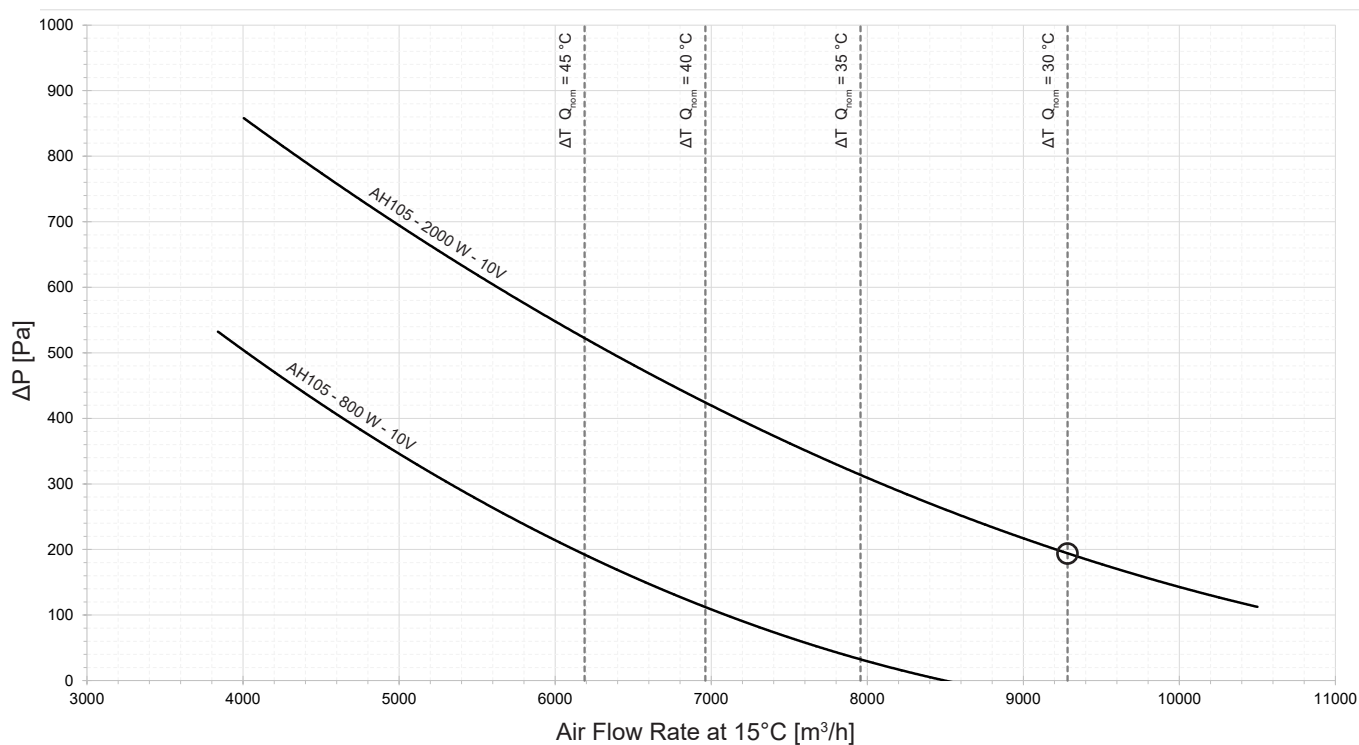
Air flow rate - Pressure drop [Q_{nom} - 10 V]



AH080 diagram (for AH160)
Air flow rate - Pressure drop [Q_{nom} - 10 V]



AH105 diagram
Air flow rate - Pressure drop [Q_{nom} - 10 V]



8. CHIMNEYS

SINGLE chimneys - (aluminium)

Model	INDEPENDENT flue outlet kit (aluminium)	INDEPENDENT flue outlet kit (aluminium)
	VERTICAL	HORIZONTAL
	Code	Code
AH034xx - xxV0	G18165-105	G18165-105
AH065xx - xxV0	G18165-105	G18165-105
AH105xx - xxV0	G18165-105	G18165-105
AH160xx - xxV0	2 x G18165-105	G18165-210-P0
AH210xx - xxV0	2 x G18165-105	G18165-210-P0
AH320xx - xxV0	3 x G18165-105	G18165-320-P0
AH420xx - xxV0	4 x G18165-105	-

COMMON chimneys - (stainless steel)

Model	COMMON flue outlet kit (stainless steel)	COMMON flue outlet kit (stainless steel)
	VERTICAL	HORIZONTAL
	Code	Code
AH034xx - xxV0	Not available	Not available
AH065xx - xxV0	Not available	Not available
AH105xx - xxV0	Not available	Not available
AH160xx - xxV0	G22175-210 (1 x Ø 200)	G22155-210-P0 (1 x Ø 200)
AH210xx - xxV0	G22175-210 (1 x Ø 200)	G22155-210-P0 (1 x Ø 200)
AH320xx - xxV0	G22175-320 (1 x Ø 200)	G22155-320-P0 (1 x Ø 200)
AH420xx - xxV0	G22175-420 (1 x Ø 200)	G22155-420-P0 (1 x Ø 200)

NOTES:

Accessories included for HORIZONTAL Common Flue outlet - AH420 (- xxH0)

 Ø200/250 mm concentric adapter	 90° Ø250 mm bend	 L 1000 mm Ø250 mm extension
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Accessories included for VERTICAL Common Flue outlet - AH420 (- xxV0)

 Ø200/250 mm concentric adapter	 L 1000 mm Ø250 mm extension
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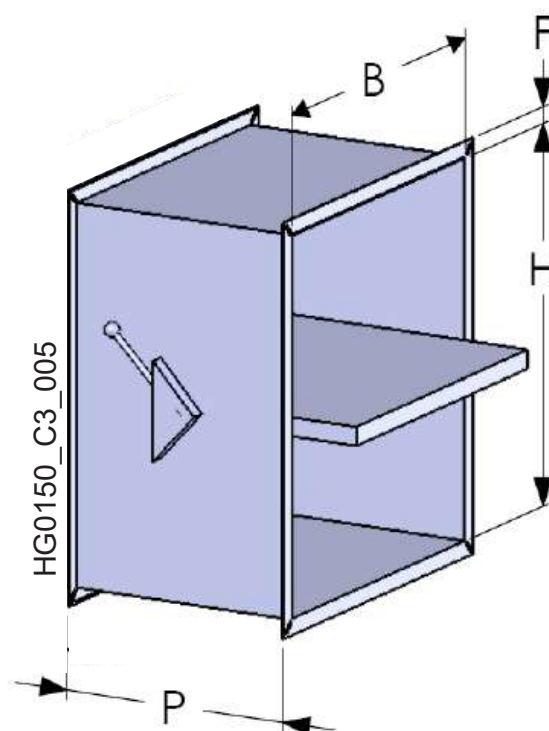
9. FIRE DAMPERS

Structure in galvanised iron steel. All dampers have the following specifications:

- reaction to fire EI120S
- thermal cut-out with fuse set on 72°C;
- microswitch, IP55, supplied as a standard and installed on damper
- dampers supplied with CERTIFICATE

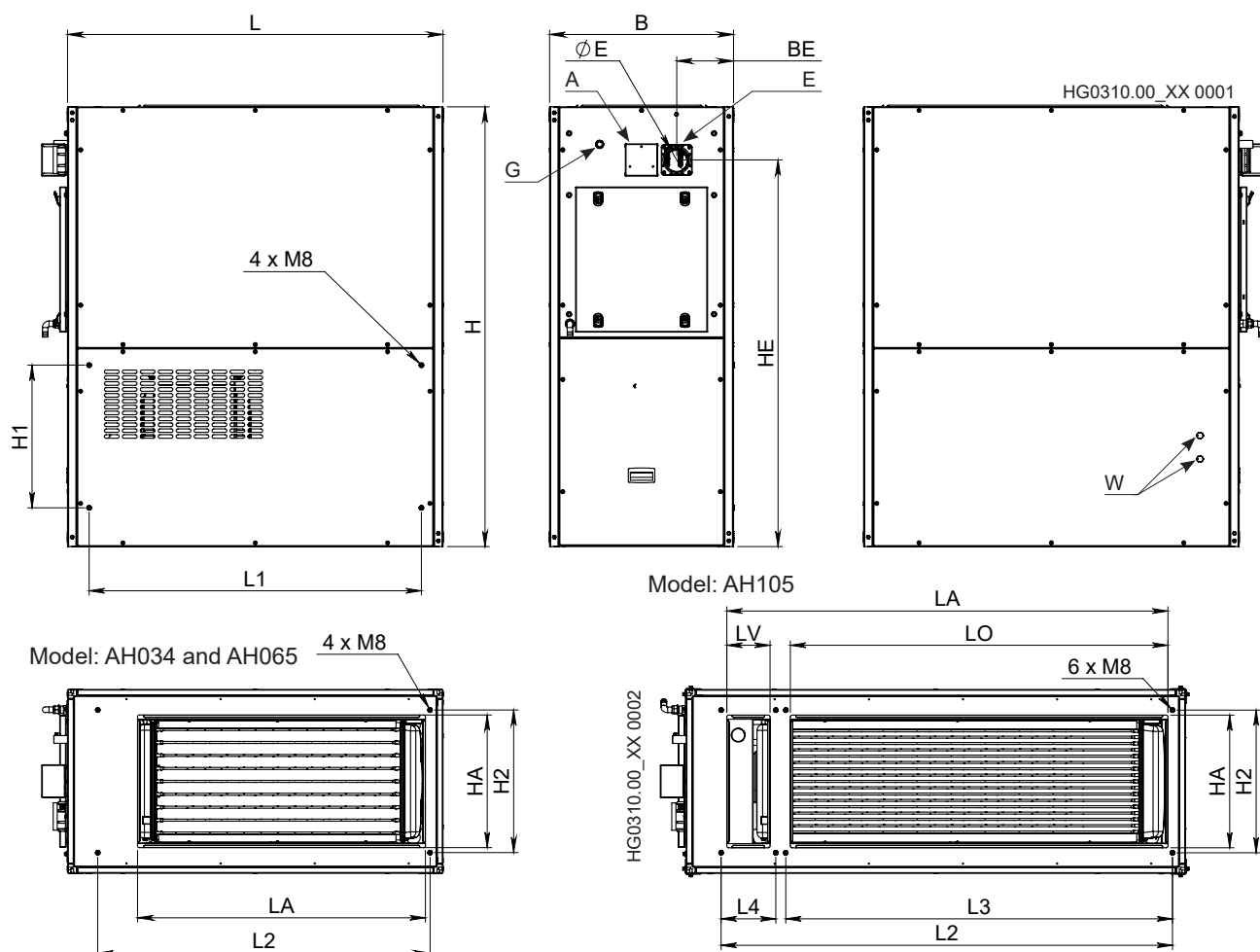
Fire damper kit

Model	Configuration	Flow	Code	B [mm]	H [mm]	P [mm]	F [mm]
AH034	Vertical or Horizontal	Delivery and Intake	G23646	800	450	510	35
AH065	Vertical or Horizontal	Delivery and Intake	G23666	1100	450	510	35
AH105	Vertical or Horizontal	Delivery and Intake	G23686	1500	450	510	35
AH160 - AH210	Vertical	Delivery	G23756	1000	970	510	35
		Intake	G23726	1200	650	510	35
AH160 - AH210	Horizontal	Delivery and Intake	G23756	1000	970	510	35
AH320	Vertical	Delivery	G23766	1200	1170	510	35
		Intake	G23736	1620	800	510	35
AH320	Horizontal	Delivery and Intake	G23766	1200	1170	510	35
AH420	Vertical	Delivery	G23776	1400	1370	510	35
		Intake	G23746	1620	800	510	35
AH420	Horizontal	Delivery and Intake	G23776	1400	1370	510	35



10. MODEL DIMENSIONS

10.1. Dimensions of Single VERTICAL Models

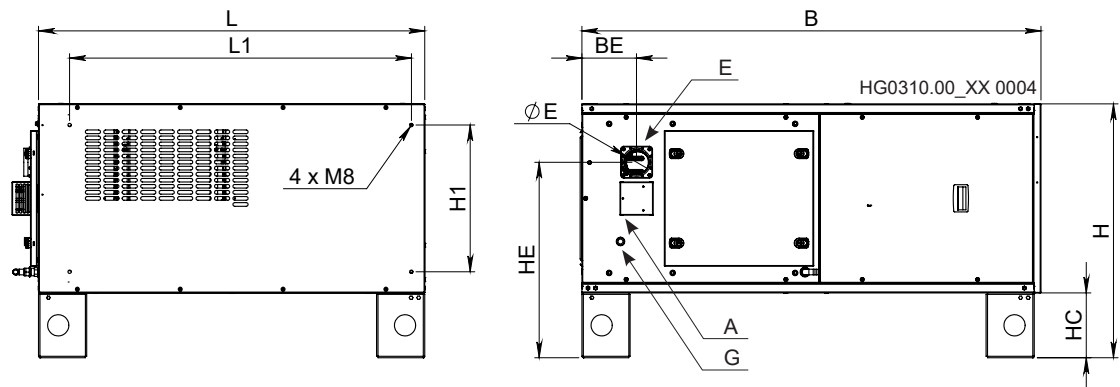


LEGEND:

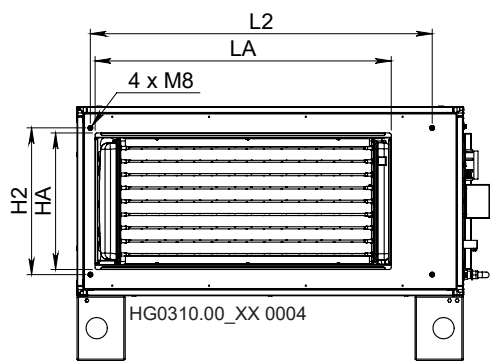
- A Intake
- E Flue Outlet
- G Gas connection
- W Electrical connection

Model	Overall dimensions [mm]			Dimensions [mm]										Flue outlet [mm]			Gas
				Intake		Delivery											
	B	L	H	L1	H1	L2	H2	LA	HA	L3	L4	LO	LV	BE	HE	ØE	
AH034	625	977	1495	830	485	830	485	679	451	/	/	/	/	193	1315	1 x 80	1 x G 3/4"
AH065	625	1277	1495	1130	485	1130	485	979	451	/	/	/	/	193	1315	1 x 80	1 x G 3/4"
AH105	625	1698	1580	1535	485	1535	485	1500	451	1315	186	1284	147	193	1400	1 x 80	1 x G 3/4"

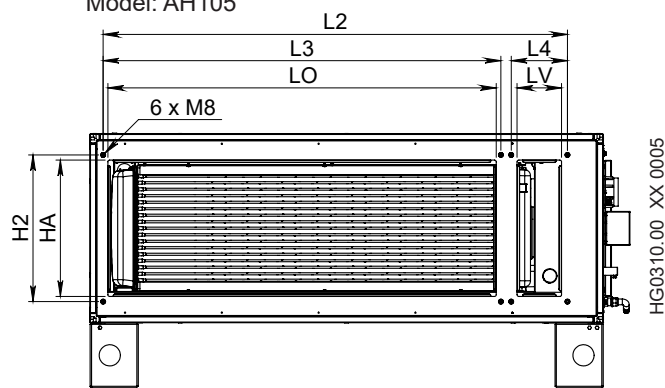
10.2. Dimensions of Single HORIZONTAL Models



Model: AH034 and AH065



Model: AH105

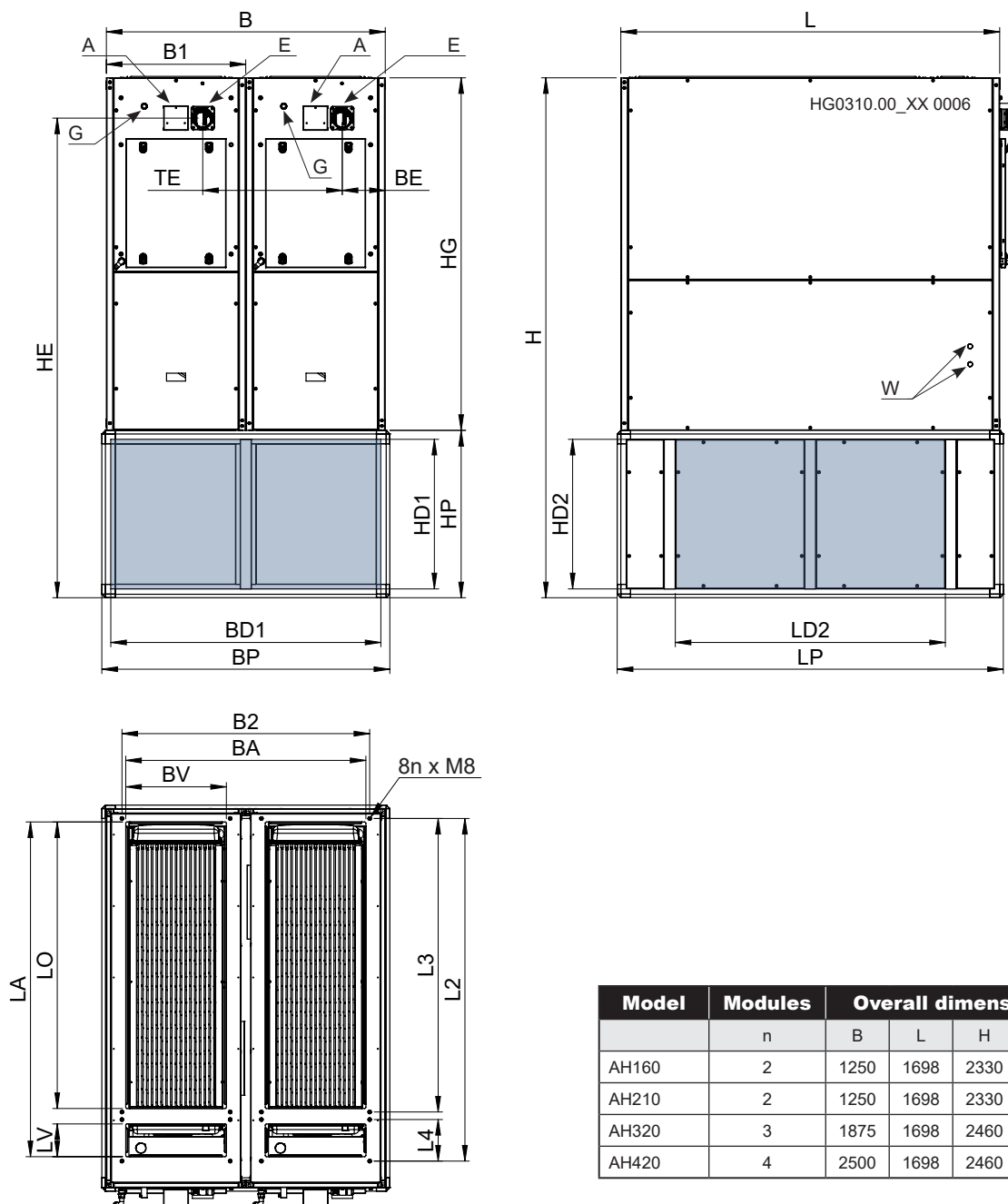


LEGEND:

- A Intake
- E Flue Outlet
- G Gas connection
- W Electrical connection

Model	Overall dimensions [mm]				Dimensions [mm]										Flue outlet [mm]			Gas
					Intake		Delivery											
	B	L	H	HC	L1	H1	L2	H2	LA	HA	L3	L4	LO	LV	BE	HE	ØE	
AH034	1520	977	840	215	830	485	830	485	679	451	/	/	/	/	180	646	1 x 80	1 x G 3/4"
AH065	1520	1277	840	215	1130	485	1130	485	979	451	/	/	/	/	180	646	1 x 80	1 x G 3/4"
AH105	1605	1698	840	215	1535	485	1535	485	1500	451	1315	186	1284	147	180	646	1 x 80	1 x G 3/4"

10.3. Dimensions of Multiple VERTICAL Models



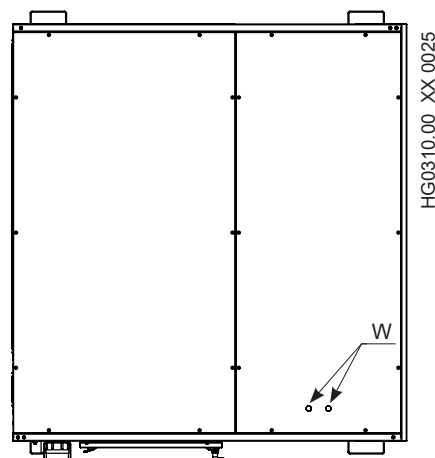
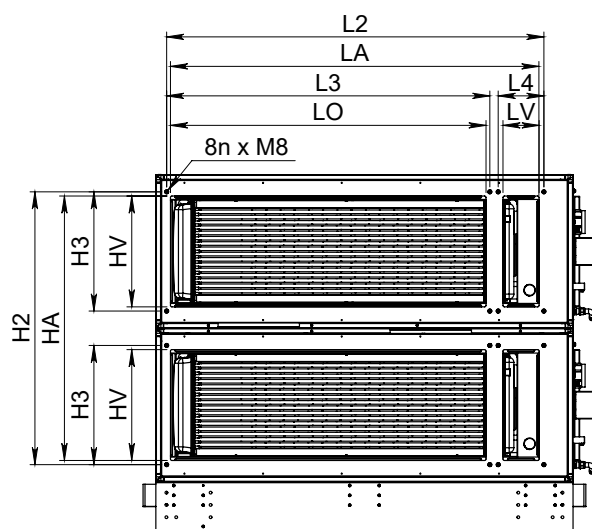
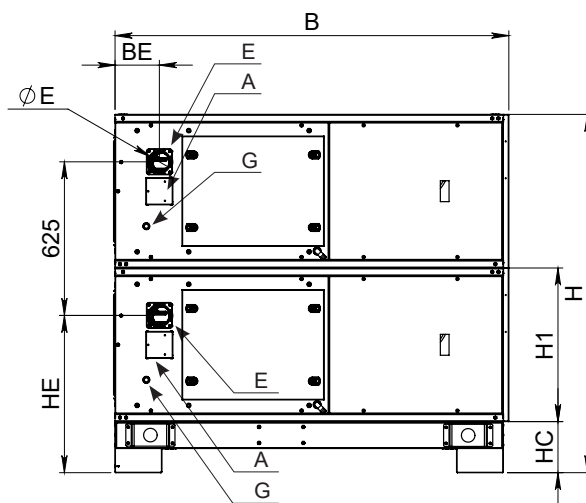
LEGEND:

A Intake
E Flue Outlet
G Gas connection
W Electrical connection

Model	Modules	Overall dimensions [mm]				
	n	B	L	H	B1	HG
AH160	2	1250	1698	2330	625	1580
AH210	2	1250	1698	2330	625	1580
AH320	3	1875	1698	2460	625	1580
AH420	4	2500	1698	2460	625	1580

Model	Modules	Flue outlet [mm]				Gas
	n	BE	HE	TE	ØE	
AH160	2	193	2150	625	n x 80	n x G 3/4"
AH210	2	193	2150	625	n x 80	n x G 3/4"
AH320	3	193	2280	625	n x 80	n x G 3/4"
AH420	4	193	2280	625	n x 80	n x G 3/4"

Model	Dimensions [mm]															
	Plenum			Intake				Delivery								
	BP	LP	HP	BD1	HD1	LD2	HD2	B2	L2	BA	LA	LO	BV	L3	L4	LV
AH160	1290	1730	750	1210	670	1210	670	1110	1535	1075	1500	1285	451	1315	186	147
AH210	1290	1730	750	1210	670	1210	670	1110	1535	1075	1500	1285	451	1315	186	147
AH320	1910	1730	880	1650	800	1650	800	1735	1535	1700	1500	1285	451	1315	186	147
AH420	2535	1730	880	1650	800	1650	800	2360	1535	2325	1500	1285	451	1315	186	147



Model	Modules	Overall dimensions [mm]				
	n	B	L	H	H1	HC
AH160	2	1605	1698	1460	625	210
AH210	2	1605	1698	1460	625	210
AH320	3	1605	1698	2085	625	210
AH420	4	1605	1698	2710	625	210

Model	Modules	Flue outlet [mm]			Gas
	n	BE	HE	ØE	
AH160	2	180	642	n x 80	n x G 3/4"
AH210	2	180	642	n x 80	n x G 3/4"
AH320	3	180	642	n x 80	n x G 3/4"
AH420	4	180	642	n x 80	n x G 3/4"

LEGEND:

A	Intake
E	Flue Outlet
G	Gas connection
W	Electrical connection

Model	Dimensions [mm]											
	Intake		Delivery									
			H2	L2	HA	LA	LO	H3	HV	L3	L4	LV
	H1	L1	H2	L2	HA	LA	LO	H3	HV	L3	L4	LV
AH160	1110	1535	1110	1535	1075	1500	1285	485	451	1315	186	147
AH210	1110	1535	1110	1535	1075	1500	1285	485	451	1315	186	147
AH320	1735	1535	1735	1535	1700	1500	1285	485	451	1315	186	147
AH420	2360	1535	2360	1535	2325	1500	1285	485	451	1315	186	147

