

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators



mod. AS L



mod. AS EX



Technical and construction characteristics

The AS L series hot air generators (for indoor installation) and AS EX (for open-air outdoor installation) are produced in models with a power range from 32 to 600 kW and represent a valid and effective solution for tertiary, religious and industrial users where rapid commissioning of the system is required or where the heat demand is intermittent and low thermal inertia is required.

The generators can be used, where permitted by current regulations, directly inside the rooms to be heated.

For air delivery, a special plenum is applied (not supplied as standard) with adjustable vents for better distribution.

In cases where the generator is installed in a special heating plant, the air distribution is entrusted to a system of ducts, which quickly and silently bring the hot air to each room. The AS L series generators are also particularly suitable for applications in specific sectors: in agriculture for greenhouses or farms, in some industrial process cycles such as painting or drying.

Steel combustion chamber with double flue gas pass, heat exchanger with large surface tubular section passages, fan unit made up of double inlet centrifugal fans statically and dynamically balanced, controlled by an electric motor on a belt tensioner slide. Thermostatic control on fan start-up and safety limit.

Summer ventilation function on all models.

The entire range of hot air generators in the "AS L - AS EX" series is supplied in versions without burner or with methane or LPG burner.

Upon request it is possible to produce a version with air intake from below (not from the side).

The hot air generator is made up of an aluminum frame and external pre-painted sheet metal paneling:

The panels are insulated inside with a glass wool mat.

In the heating section we find a combustion chamber and heat exchanger.

The insulating mat is protected in this area with galvanized sheet metal, against the dangers of overheating.

Under the combustion chamber, in the ventilation section, a double inlet centrifugal fan is mounted, driven by an electric motor with belt drive.

The fan unit is protected against reaching the hands with a protective grille with 10x10 mm holes.

The grille is screwed onto the frame and can only be removed with the help of a tool.

The combustion chamber, made of stainless steel for high temperatures, is bolted to the frame so that its thermal expansions do not compromise its durability over time.

The heat exchanger, made of steel tubes, is solidly welded to the combustion chamber.

At the bottom, in the ventilation section, we find an electrical control panel with:

- Switch
- HEATING switch.



MADE
IN ITALY



HIGH
YIELD



ROOM
OF COMBUSTION
IN STAINLESS STEEL



ERP
READY



GAS HOT AIR,
LPG, METHANE

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

AS L - AS EX floor-standing hot air generators

MODEL	CAPACITY THERMAL	POWER THERMAL	WITHOUT BURNER	WITH BURNER METHANE TWO-STAGE	WITH BURNER AT GPL	HEADER 3 WAY	4 SIDE KIT HEADER	EARNINGS FILTERS	FIRE DAMPER ON THE CANAL DELIVERY	FIRE DAMPER ON THE CANAL OF RECOVERY
	kW	kW	€	€	€	€	€	€	€	€
AS L30	32,6	30,6	6.530,00	10.430,00	10.430,00	1.080,00	115,00	370,00	QUOTE ON REQUEST	
AS EX 30			7.580,00	11.480,00	11.480,00	-	-			
AS L60	58,0	56,0	8.300,00	12.280,00	12.280,00	1.450,00	150,00	540,00	QUOTE ON REQUEST	
AS EX 60			9.500,00	13.470,00	13.470,00	-	-			
AS L80	98,5	94,7	11.780,00	17.500,00	17.500,00	1.620,00	190,00	640,00	QUOTE ON REQUEST	
AS EX 80			13.260,00	18.980,00	18.980,00	-	-			
AS L100	115,8	110,2	11.980,00	17.700,00	17.700,00	1.620,00	190,00	640,00	QUOTE ON REQUEST	
AS EX 100			13.500,00	19.200,00	19.200,00	-	-			
AS L150	179,0	172,4	17.470,00	23.550,00	23.550,00	2.160,00	220,00	1.220,00	QUOTE ON REQUEST	
AS EX 150			19.980,00	26.060,00	26.060,00	-	-			
AS L175	203,0	198,3	18.000,00	24.640,00	24.640,00	2.160,00	220,00	1.270,00	QUOTE ON REQUEST	
AS EX 175			20.520,00	27.140,00	27.140,00	-	-			
AS L200	238,0	229,2	18.900,00	25.500,00	25.500,00	2.160,00	220,00	1.270,00	QUOTE ON REQUEST	
AS EX 200			21.500,00	28.100,00	28.100,00	-	-			
AS L250	270,0	260,8	28.640,00	38.280,00	38.280,00	2.280,00	400,00	1.550,00	QUOTE ON REQUEST	
AS EX 250			30.900,00	40.550,00	40.550,00	-	-			
AS L300	313,0	300,8	33.780,00	44.500,00	44.500,00	2.280,00	400,00	1.550,00	QUOTE ON REQUEST	
AS EX 300			36.150,00	46.860,00	46.860,00	-	-			
AS L425	425,0	420,7	41.300,00	56.300,00	56.300,00	3.300,00	580,00	2.150,00	QUOTE ON REQUEST	
AS EX 425			44.790,00	59.780,00	59.780,00	-	-			
AS L500	500,0	487,5	43.800,00	64.800,00	64.800,00	3.300,00	580,00	2.150,00	QUOTE ON REQUEST	
AS EX 500			48.300,00	69.300,00	69.300,00	-	-			
AS L600	600,0	585,0	50.900,00	72.000,00	72.000,00	4.200,00	660,00	3.020,00	QUOTE ON REQUEST	
AS EX 600			55.380,00	76.500,00	76.500,00	-	-			

* For the version with air intake from below (not lateral) increase the list price of the AS L - AS EX generator by 10%

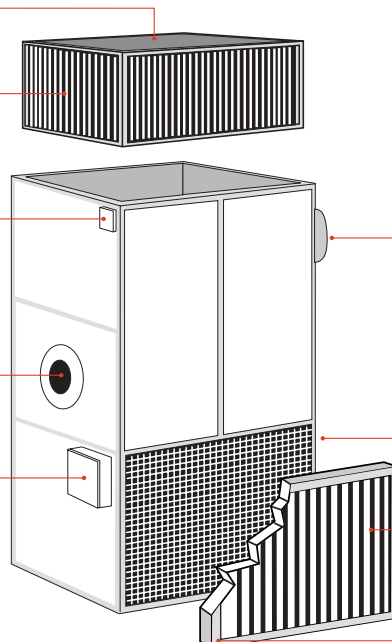
3 - way plenum

Diffusers with adjustable fins

Fan Limit

Burner plate

Electrical cabinet



Fume exhaust

Recovery grid
(supplied as standard, on the left from mod. 30 to mod. 200, on the right from the mod. 250 per mod. 600.
For particular installation needs the position of the grid can be reversed)

Shooting filter

Frame for return filter

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

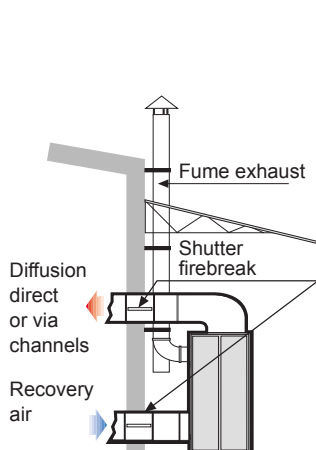
Accessories AS L - AS EX

MODEL	CAPACITY THERMAL	POWER THERMAL	WITHOUT BURNER	WITH BURNER METHANE TWO-STAGE	WITH BURNER LPG	HEADER 3 WAY	4 SIDE KIT HEADER	EARNINGS FILTERS	FIRE DAMPER ON THE CANAL DELIVERY	FIRE DAMPER ON THE CANAL OF RECOVERY
	kW	kW	Code	Code	Code	Code	Code	Code	Codice	Code
AS L30	32,6	30,6	38700000	38700002	38700001	38700003	38700004	38700005	-	-
AS EX 30			38710000	38710002	38710001	-	-	38710003	38000026	38000027
AS L60	58,0	56,0	38700006	38700008	38700007	38700009	38700010	38700011	-	-
AS EX 60			38710004	38710006	38710005	-	-	38710007	38010026	38010027
AS L80	98,5	94,7	38700012	38700014	38700013	38700015	38700016	38700017	-	-
AS EX 80			38710008	38710010	38710009	-	-	38710011	38030026	38030027
AS L100	115,8	110,2	38700018	38700020	38700019	38700015	38700016	38700017	-	-
AS EX 100			38710012	38710014	38710013	-	-	38710011	38030026	38030027
AS L150	179,0	172,4	38700021	38700023	38700022	38700024	38700025	38700026	-	-
AS EX 150			38710015	38710017	38710016	-	-	38710018	38050026	38050027
AS L175	203,0	198,3	38700027	38700029	38700028	38700030	38700031	38700032	-	-
AS EX 175			38710019	38710021	38710020	-	-	38710022	38070026	38070027
AS L200	238,0	229,2	38700033	38700035	38700034	38700030	38700031	38700032	-	-
AS EX 200			38710023	38710025	38710024	-	-	38710022	38070026	38070027
AS L250	270,0	260,8	38700036	38700038	38700037	38700039	38700040	38700041	-	-
AS EX 250			38710026	38710028	38710027	-	-	38710029	38100026	38100027
AS L300	313,0	300,8	38700042	38700044	38700043	38700039	38700040	38700041	-	-
AS EX 300			38710030	38710032	38710031	-	-	38710029	38100026	38100027
AS L425	425,0	420,7	38700045	38700047	38700046	38700048	38700049	38700050	-	-
AS EX 425			38710033	38710035	38710034	-	-	38710036	38160026	38160027
AS L500	500,0	487,5	38700051	38700053	38700052	38700048	38700049	38700050	-	-
AS EX 500			38710037	38710039	38710038	-	-	38710036	38160026	38160027
AS L600	600,0	585,0	38700054	38700056	38700055	38700057	38700058	38700059	-	-
AS EX 600			38710040	38710042	38710041	-	-	38710043	38170026	38170027

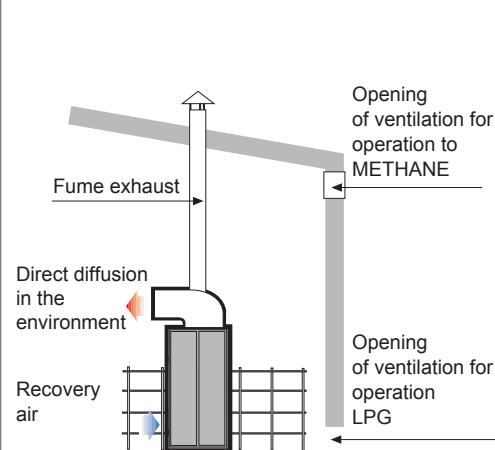
* Per la versione con ripresa d'aria da sotto (non laterale) aumentare il prezzo di listino del generatore AS L - AS EX di un 10%

AS L - AS EX installation examples

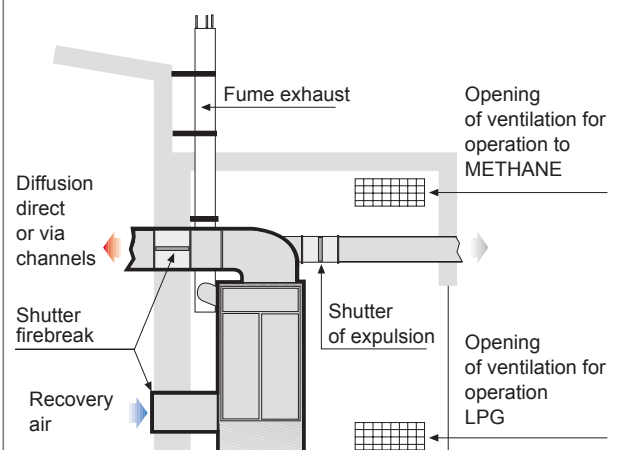
Installation example on the outside



Installation example inside the room to be heated



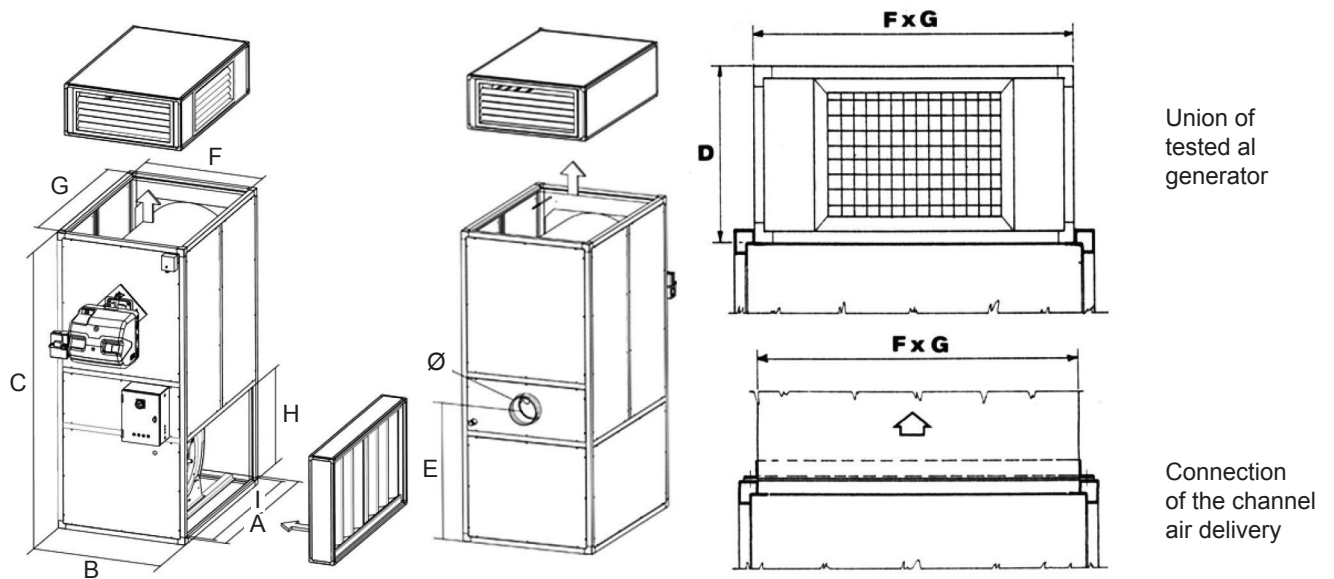
Installation example in a thermal power plant



AS L - AS EX

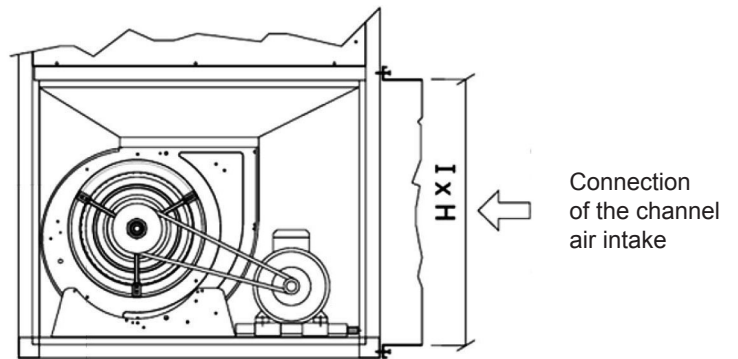
Indoor/outdoor gas floor-standing hot air generators

Dimensions and weights AS L



The air intake is on the LEFT up to the AS L 200 model and on the RIGHT from the AS L 250 model up to the AS L600 model.

RIGHT and LEFT are intended with respect to the burner side. In the drawing the shot is on the RIGHT
The position of the grill can be reversed.



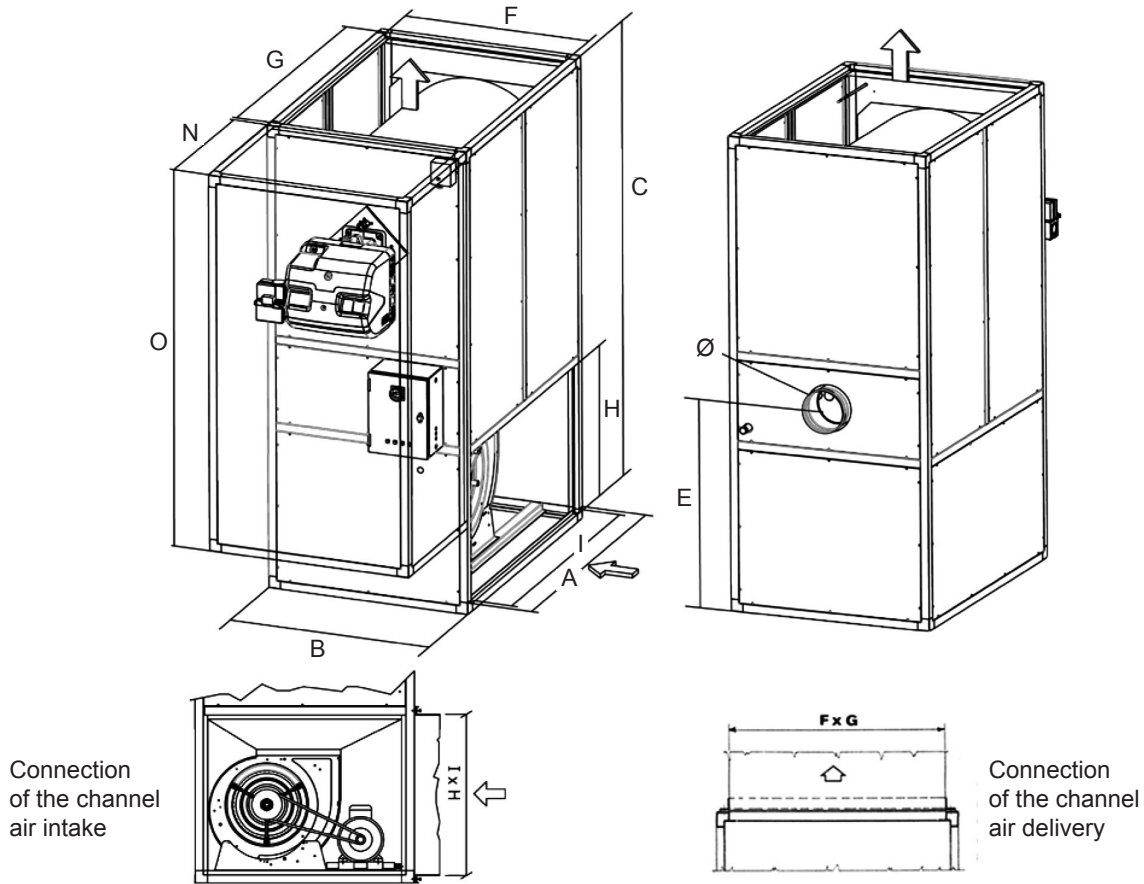
Models	Dimensions in mm Length / Width / Height			Height header	Height smoke exhaust	Attack for air delivery		Attack for air intake		Profile of the frame	Exhaust fumes	Net weight	Packaging weight	Header weight
	A	B	C			F	G	H	I					
AS L30	660	530	1430	305	705	490	620	480	620	20	150	110	115	10
AS L60	870	636	1750	305	860	596	830	630	830	20	180	176	183	12
AS L80	1020	750	1950	405	935	670	940	690	940	40	130	225	235	37
AS L100	1020	750	1950	405	935	670	940	690	940	40	130	240	250	37
AS L150	1440	1020	2340	405	1070	940	1360	760	1360	40	150	390	400	40
AS L175	1440	1020	2340	405	1070	940	1360	760	1360	40	150	400	410	40
AS L200	1440	1020	2340	405	1070	940	1360	760	1360	40	150	415	425	40
AS L250	1790	1020	2340	405	1130	940	1710	760	1710	40	200	520	535	46
AS L300	1790	1020	2340	405	1130	940	1710	760	1710	40	200	550	565	46
AS L425	2300	1340	2660	405	1220	1260	2220	930	2220	40	250	850	870	67
AS L500	2300	1340	2660	405	1220	1260	2220	930	2220	40	250	870	890	67
AS L600*	2300	1500	2840	445	1400	1420	2220	1070	2220	40	250	965	985	70

*The AS L 600 model is made in n. 2 sections: Height of the ventilation section 1150 mm - Height of the heating section 1690 mm

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

Dimensions and weights AS EX



The air intake is on the LEFT up to the AS EX 200 model and on the RIGHT from the AS EX 250 model up to the AS EX 600 model. RIGHT and LEFT are intended with respect to the burner side. In the drawing the shot is on the RIGHT. The position of the grid can be reversed.

Modelli	Dimensions in mm Length / Width / Height			Height smoke exhaust E	Attack for air delivery F G		Attack for air intake H I		Burner cabin Depth / Height N O		Exhaust fumes Ø	Net weight Kg	Packaging weight Kg
	A	B	C		F	G	H	I	N	O			
AS EX 30	660	530	1430	705	490	620	490	620	400	1280	150	125	130
AS EX 60	870	636	1750	860	596	830	630	830	400	1540	180	200	207
AS EX 80	1020	750	1950	935	670	940	690	940	400	1320	130	265	275
AS EX 100	1020	750	1950	935	670	940	690	940	400	1320	130	280	290
AS EX 150	1440	1020	2340	1070	940	1360	760	1360	600	1700	150	432	442
AS EX 175	1440	1020	2340	1070	940	1360	760	1360	600	1700	150	442	452
AS EX 200	1440	1020	2340	1070	940	1360	760	1360	600	1700	150	457	467
AS EX 250	1790	1020	2340	1130	940	1710	760	1710	40	800	200	580	595
AS EX 300	1790	1020	2340	1120	940	1710	760	1710	40	800	200	610	625
AS EX 425	2300	1340	2660	1120	1260	2220	930	2220	40	900	250	935	950
AS EX 500	2300	1340	2660	1120	1260	2220	930	2220	40	900	250	955	970
AS EX 600*	2300	1500	2840	1400	1420	2220	1070	2220	40	900	250	1070	1090

*The AS L 600 model is made in n. 2 sections: Height of the ventilation section 1150 mm - Height of the heating section 1690 mm

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

Technical data table for AS L - AS EX 30÷175 floor-standing generators

Description	U.M.	AS L30	AS L60	AS L80	AS L100	AS L150	AS L175
Nominal heat input Q _{nom}	kW	32,6	58,0	98,5	115,8	179,0	203,0
Nominal heat output P _n	kW	30,6	56,0	94,7	110,2	172,4	198,3
Efficiency at nominal heat input P _n	%	94,0	96,1	95,2	95,2	96,3	97,7
Heat input at 50% of the nominal heat input	kW	18,4	25,0	48,0	55,0	82,0	85,0
Thermal power at 50% of the nominal heat input	kW	18,4	26,0	47,7	54,5	82,3	86,5
Thermal efficiency at 50% of the nominal heat input	%	99,8	103,8	99,3	97,9	100,4	101,8
Back pressure in combustion chamber with G20 at Q _{nom}	mbar	0,5	0,3	2,3	3,5	2,5	3,4
Back pressure in combustion chamber with G30 at Q _{nom}	mbar	0,4	0,2	2,1	3,3	1,8	2,2
G20: NO _x (Erp 2istep ≤70Mg/kWh) with GCV ⁽¹⁾	mg/kWh	≤70	≤70	≤70	≤70	≤70	≤70
AEREAULIC PERFORMANCE							
Air flow at 18 °C	m ³ /h	2.750	5.100	7.560	9.200	13.000	15.800
Useful static pressure	Pa	50	90	150	150	200	200
ΔT air at Q _{nom}	°C	31,9	31,5	35,9	34,3	38,0	36,0
MAX GAS CONSUMPTION AT 15 °C-1013 mbar							
Methane G20 at 20 mbar	m ³ /h	3,45	6,14	10,42	12,25	18,94	21,48
Natural Gas G25 at 25 mbar	m ³ /h	4,00	7,10	12,10	14,22	22,00	25,00
Propane G31 at 37 mbar	kg/h	2,53	4,50	7,65	8,99	13,91	15,77
Butane G30 at 28 mbar	kg/h	2,57	4,57	7,77	9,13	14,12	16,1
Average flue gas temperature with combustion air 20 °C at Q _{nom}	°C ± 15%	140	130	115	130	115	95
CO ₂ content in % in the fumes at Q _{nom}	%	8,9	9,6	9,3	9,5	9,8	9,6
Weight of fumes in kg at Q _{nom}	kg/h	56,7	100,9	171,4	201,5	311,5	352,2
Flue gas exhaust pressures at Q _{nom}	Pa	50	50	50	50	50	50
Average flue gas temperature with combustion air 20 °C at Q _{min}	°C ± 15%	70	65	55	75	50	50
CO ₂ content in % in the flue gas at Q _{min}	%	7,7	8,2	7,7	7,9	8,5	8,0
Weight of fumes in kg at Q _{min}	kg/h	32,0	43,5	83,5	95,7	142,7	147,9
ELECTRICAL DATA							
Fan motor electric power	kW x n.	0,2	0,736	1,5	2,2	3,0	4,0
Fan motor supply voltage		230V/1/50Hz		400V/3+N/50Hz			
Fan motor absorption	A	3,1	6,7	3,5	4,9	6,3	8,3
Fan motor voltage absorption 3F 230V 50Hz	A	-	-	6,2	8,5	11,1	14,4
Sound pressure (at 5 m)	dB(A)	62	72	72	73	71	73
Degree of protection version L		IP X5D					
ELECTRICAL DATA WITH USEFUL PRESSURE 300 Pa							
Electrical power of the fan motor	kW	0,5	1,5	2,2	3,0	4,0	5,5
Fan motor supply voltage		230V/1/50Hz		400V/3+N/50Hz			
Fan motor voltage absorption 3F 400V 50Hz	A	-	3,5	4,9	6,3	8,3	11,3
Fan motor voltage absorption 3F 230V 50Hz	A	3,9	6,2	8,5	11,1	14,4	19,6
Fume exhaust connection	Ø mm	150	150	130	130	150	150
Burners	mod.	Abbinabile a bruciatore gas soffiato 2016/426					
Gas category		È la categoria gas del bruciatore a gas soffiato GAR abbinato					
Appliance type based on smoke exhaust		B23					

NOTES: (1) Nox values, calculated according to EN 17082:2019, par. 6.8, obtained with 2-stage or modulating diesel burners with low Nox emission
Class 3 Nox ≤ 120 mg/kWh or also Class 2 Nox ≤ 180 mg/kWh (ERP 2nd STEP)

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

Tabella dati tecnici generatori a basamento AS L - AS EX 200+600

Description	U.M.	AS L200	AS L250	AS L300	AS L425	AS L500	AS L600
Nominal heat input Q _{nom}	kW	238,0	270,0	313,0	425,0	500,0	600,0
Nominal heat output P _n	kW	229,2	260,8	300,8	420,7	487,5	585,0
Efficiency at nominal heat input P _n	%	96,3	96,6	96,1	98,6	97,5	97,5
Heat input at 50% of the nominal heat input	kW	100,0	135,0	156,5	212,5	212,5	212,5
Thermal power at 50% of the nominal heat input	kW	100,3	137,2	157,3	213,8	217,0	217,0
Thermal efficiency at 50% of the nominal heat input	%	100,3	101,6	100,5	101,4	102,1	102,1
Back pressure in combustion chamber with G20 at Q _{nom}	mbar	4,0	2,6	3,3	3,0	3,6	5,2
Back pressure in combustion chamber with G30 at Q _{nom}	mbar	3,1	2,5	3,2	2,8	3,4	4,9
G20: NO _x (Erp 2istep ≤70Mg/kWh) with GCV ⁽¹⁾	mg/kWh	≤70	≤70	≤70	≤70	≤70	≤70
AEREAULIC PERFORMANCE							
Air flow at 18 °C	m ³ /h	18.000	20.800	24.000	32.500	38.300	41.000
Useful static pressure	Pa	200	200	200	200	200	160
ΔT air at Q _{nom}	°C	36,5	35,9	35,9	37,2	36,7	41,0
MAX GAS CONSUMPTION AT 15 °C-1013 mbar							
Methane G20 at 20 mbar	m ³ /h	25,19	28,57	33,12	44,97	52,9	63,5
Natural Gas G25 at 25 mbar	m ³ /h	29,30	33,24	38,53	52,30	61,50	73,80
Propane G31 at 37 mbar	kg/h	18,49	20,98	24,32	32,80	38,60	46,30
Butane G30 at 28 mbar	kg/h	18,77	21,29	24,68	33,50	39,40	47,30
Average flue gas temperature with combustion air 20 °C at Q _{nom}	°C ± 15%	110	110	125	88	93	94
CO ₂ content in % in the fumes at Q _{nom}	%	9,2	8,2	9,4	9,3	8,7	8,8
Weight of fumes in kg at Q _{nom}	kg/h	414,1	469,8	554,6	739,5	870,0	1044,0
Flue gas exhaust pressures at Q _{nom}	Pa	50	50	50	50	50	50
Average flue gas temperature with combustion air 20 °C at Q _{min}	°C ± 15%	60	60	60	60	50	50
CO ₂ content in % in the flue gas at Q _{min}	%	8,1	8,4	8,3	9,4	8,6	8,7
Weight of fumes in kg at Q _{min}	kg/h	174,0	234,9	272,3	369,8	369,8	369,8
ELECTRICAL DATA							
Fan motor electric power	kW x n.	5,5	3x2	4x2	4x2	5,5x2	5,5x2
Fan motor supply voltage		400V/3+N/50Hz					
Fan motor absorption	A	11,3	6,3x2	8,3x2	8,3x2	11,3x2	11,3x2
Fan motor voltage absorption 3F 230V 50Hz	A	19,6	11,1x2	14,4x2	14,4x2	19,6x2	19,6x2
Sound pressure (at 5 m)	dB(A)	74	74	75	74	75	75
Degree of protection version L		IP X5D					
ELECTRICAL DATA WITH USEFUL PRESSURE 300 Pa							
Electrical power of the fan motor	kW	7,5	3x2	5,5x2	5,5x2	7,5x2	7,5x2
Fan motor supply voltage		400V/3+N/50Hz					
Fan motor voltage absorption 3F 400V 50Hz	A	15,0	6,3x2	11,3x2	11,3x2	15x2	15x2
Fan motor voltage absorption 3F 230V 50Hz	A	26,3	11,1x2	19,6x2	19,6x2	26,3x2	26,3x2
Fume exhaust connection	Ø mm	150	200	200	250	250	250
Burners	mod.	Abbinabile a bruciatore gas soffiato 2016/426					
Gas category		È la categoria gas del bruciatore a gas soffiato GAR abbinato					
Appliance type based on smoke exhaust		B23					

NOTES: (1) Nox values, calculated according to EN 17082:2019, par. 6.8, obtained with 2-stage or modulating diesel burners with low Nox emission
Class 3 Nox ≤ 120 mg/kWh or also Class 2 Nox ≤ 180 mg/kWh (ERP 2nd STEP)

AS L - AS EX

Indoor/outdoor gas floor-standing hot air generators

ECODESIGN Directive 2009/125/EC ErP regulation 2016/2281/EC Information requirements for floor-standing hot air heaters AS L - AS EX 30=175

Type of AS series hot air generator	Simboli	U.M.	30		60		80		100		150		175	
Thermal power load range			100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%
Thermal power control			2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.
B1 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
C2 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
C4 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
Fuel type	gas/liquid		gas	gas	gas	gas	gas	gas	gas	gas	gas	gas	gas	gas
Nominal heating capacity	P nom.h	kW	30,6	30,6	56,0	56,0	94,7	94,7	110,2	110,2	172,4	172,4	198,3	198,3
Minimum capacity	P min.	kW	18,4	10,2	26,7	19,6	47,7	33,4	53,8	33,4	82,3	54,8	86,4	54,8
Nominal electricity consumption heating capacity	Elett./max	kW	0,280	0,280	0,280	0,280	0,430	0,430	0,430	0,430	0,460	0,460	0,460	0,460
Minimum electricity consumption heating capacity	Elett./min	kW	0,252	0,252	0,252	0,252	0,387	0,387	0,387	0,387	0,414	0,414	0,414	0,414
Electricity consumption in standby mode	Elett./st.by	kW	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010
Useful efficiency at nominal heat output	η nom	%	84,6	84,6	86,9	86,9	86,5	86,5	85,7	85,7	86,7	86,7	87,9	87,9
Useful efficiency at the minimum flow rate of Hs	η pl	%	89,8	91,8	93,4	95,2	89,4	97,0	88,1	97,0	90,4	93,1	91,5	93,1
Loss factor for W.A.H.(1) not installed	Fenv	%	1	1	1	1	1	1	1	1	1	1	1	1
Loss factor for W.A.H.(1) installed in a heated area	Fenv	%	0	0	0	0	0	0	0	0	0	0	0	0
Energy consumption of the burner during ignition	Pign	kW	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen oxide emission from Hs (GCV) with G20⁽²⁾	NOx	mg/kWh	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70
Emissions efficiency	η s, flow	%	0,930	0,953	0,943	0,954	0,931	0,946	0,935	0,953	0,930	0,946	0,938	0,954
Seasonal energy for space heating efficiency for W.A.H. not installed in heated area	ηs, h	%	78,8	85,3	85,8	90,3	79,3	88,9	78,7	89,8	80,2	86,1	82,2	87,0
Seasonal energy for space heating efficiency for W.A.H. installed in a heated area	ηs, h	%	79,8	86,2	86,8	91,2	80,3	89,8	79,6	90,8	81,1	87,0	83,1	88,0

NOTES: (1) W.A.H. = hot air generators.

(2) The NOx values are calculated according to the EN17082:2019 par 6.8 standard and are valid with forced draft gas burners certified Low Nox ERP 2nd STEP ≤ 70 mg/kWh or compliant with Low Nox emissions ≤ 70 mg/kWh.

Direttiva ECODESIGN 2009/125/CE regolamento ErP 2016/2281/CE Requisiti informativi per generatori ad aria calda a basamento AS L - AS EX 200=600

Type of AS series hot air generator	Simboli	U.M.	200		250		300		425		500		600	
Thermal power load range			100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%	100-50%	100-30%
Thermal power control			2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.	2 fasi	modul.
B1 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
C2 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
C4 hot air generator	Yes/No		no	no	no	no	no	no	no	no	no	no	no	no
Fuel type	gas/liquid		gas	gas	gas	gas	gas	gas	gas	gas	gas	gas	gas	gas
Nominal heating capacity	P nom.h	kW	229,2	229,2	260,8	260,8	300,8	300,8	491,1	491,1	487,5	487,5	585,0	585,0
Minimum capacity	P min.	kW	100,3	54,8	137,2	83,8	157,3	83,8	215,5	132,4	217,0	155,1	217,0	186,1
Nominal electricity consumption heating capacity	Elett./max	kW	0,620	0,620	0,620	0,620	0,620	0,620	1,050	1,050	1,050	1,050	1,050	1,050
Minimum electricity consumption heating capacity	Elett./min	kW	0,558	0,558	0,558	0,558	0,558	0,558	0,945	0,945	0,945	0,945	0,945	0,945
Electricity consumption in standby mode	Elett./st.by	kW	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010	0,010
Useful efficiency at nominal heat output	η nom	%	86,7	86,7	86,9	86,9	86,5	86,5	91,3	93,1	87,8	87,8	87,8	87,8
Useful efficiency at the minimum flow rate of Hs	η pl	%	90,3	93,1	91,4	93,1	90,5	93,1	88,1	97,0	91,9	93,1	91,9	93,1
Loss factor for W.A.H.(1) not installed	Fenv	%	1	1	1	1	1	1	1	1	1	1	1	1
Loss factor for W.A.H.(1) installed in a heated area	Fenv	%	0	0	0	0	0	0	0	0	0	0	0	0
Energy consumption of the burner during ignition	Pign	kW	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen oxide emission from Hs (GCV) with G20⁽²⁾	NOx	mg/kWh	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70	≤70
Emissions efficiency	η s, flow	%	0,937	0,957	0,929	0,949	0,931	0,953	0,928	0,948	0,930	0,948	0,938	0,945
Seasonal energy for space heating efficiency for W.A.H. not installed in heated area	ηs, h	%	80,9	87,2	80,7	86,3	79,9	86,8	80,8	86,7	82,3	86,6	83,0	86,2
Seasonal energy for space heating efficiency for W.A.H. installed in a heated area	ηs, h	%	81,9	88,1	81,7	87,3	80,9	87,8	81,7	87,6	83,2	87,5	83,9	87,2

NOTES: (1) W.A.H. = hot air generators.

(2) The NOx values are calculated according to the EN17082:2019 par 6.8 standard and are valid with forced draft gas burners certified Low Nox ERP 2nd STEP ≤ 70 mg/kWh or compliant with Low Nox emissions ≤ 70 mg/kWh.