

ASX

Condensing floor-standing hot air generators with gas burners
low NOx modulating premixes for pressostatic and tensostatic structures



Technical and construction characteristics

The ASX series condensing hot air generators are units powered by methane gas or LPG, and have been designed for heating environments such as: pressostatic roofing and tensostatic roofing (tennis courts, basketball five-a-side football pitches, etc.).

CONTAINMENT STRUCTURE

All ASX hot air generators are characterized by a robust containment structure consisting of:

- Load-bearing structure made of die-cast aluminum profiles;
- Containment casing made of sandwich type panels 20 mm thick whose external part is made of sheet steel pre-painted while the internal part is in galvanized sheet steel reflective. A layer is placed between the 2 external/internal sheets of thermo-acoustic insulation in fire reaction class 0.

ASX models are suitable for outdoor installation with:

- Rain protection;
- Technical compartment, applied laterally to the generator, for the protection of the burner, instrumentation and panel electrical control and management.

COUNTER-CURRENT COMBUSTION CIRCUIT

- The combustion chamber is made of AISI 430 stainless steel guarantee of high reliability and long life. The detail cylindrical shape of the combustion chamber as well as the wide available volume allow you to create a perfect combustion and have a large exchange surface with uniform distribution of the thermal load.
- The air-fume heat exchanger is of the shell and tube type made of AISI 316 stainless steel with high exchange efficiency thermal achieved through an appropriate arrangement of tubes and the particular surface corrugation that they produce a high turbulent effect both on the internal flow of the products of the combustion and the external flow of air, allows to achieve an excellent heat exchange.
- The fume manifold is made of AISI 304 steel complete with inspection doors and condensate drain pipe. All ASX series generators are equipped with an electrical management and control panel compliant with current regulations (in particular EN 60335-1) whose casing is made of hot-painted steel sheet with epoxy powders.



SYSTEM A
CONDENSATION



ERP
READY



ROOM
OF COMBUSTION
IN STAINLESS STEEL



HOT AIR A
METHANE, LPG

MODELL	CAPACITY THERMAL kW	POWER THERMAL kW	BURNER METHANE /GPL €	THERMOSTAT ENVIRONMENT €	ENVIRONMENT PROBE WITH CABLE FROM 6 m €	SHUTTER THIRD WAY OF VENT €	SHUTTER FIREBREAK ON SEND €	CHIMNEY SINGLE WALL €
ASX 80	98,5	96,3	26.750,00	920,00	150,00	730,00	1.500,00	1.720,00
ASX 100	122,0	116,6	26.850,00	920,00	150,00	730,00	1.500,00	1.720,00
ASX 150	179,0	178,6	32.700,00	920,00	150,00	730,00	1.640,00	1.550,00
ASX 175	203,0	201,8	34.650,00	920,00	150,00	730,00	1.640,00	1.550,00
ASX 200	238,0	234,2	36.000,00	920,00	150,00	730,00	1.640,00	1.550,00
ASX 250	270,0	269,0	45.000,00	920,00	150,00	730,00	1.850,00	1.720,00
ASX 300	313,0	310,0	51.480,00	920,00	150,00	730,00	1.850,00	1.720,00

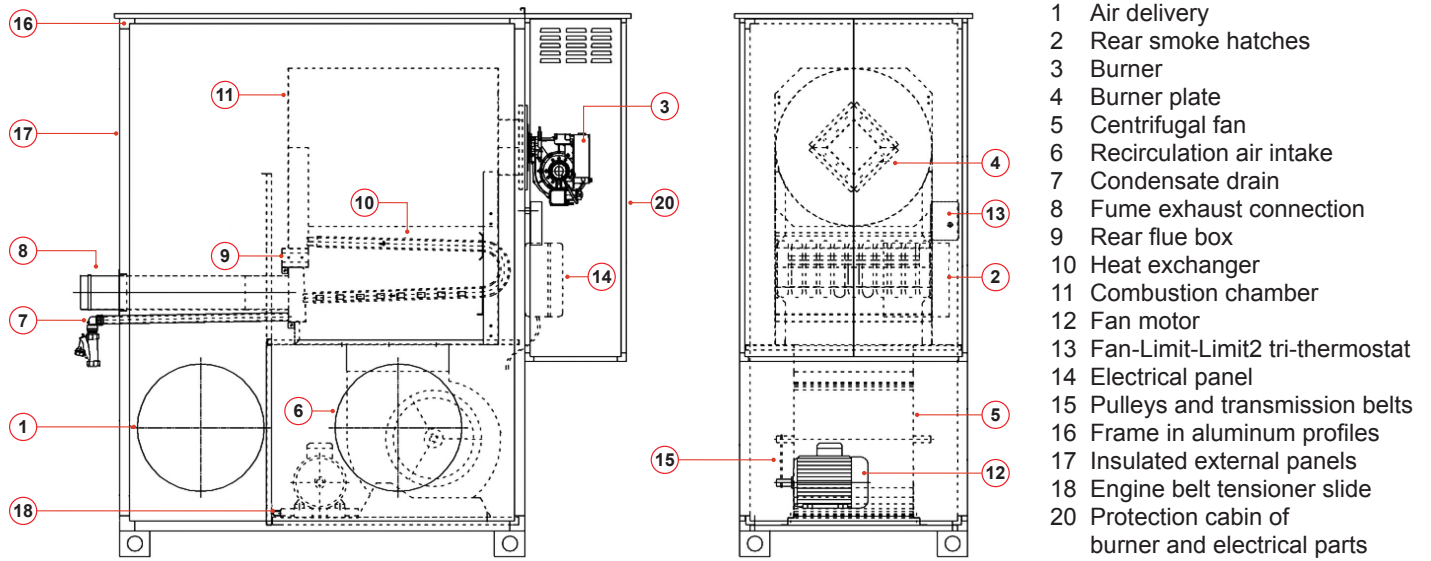
MODELLO	CAPACITY THERMAL kW	POWER THERMAL kW	BURNER METHANE /GPL Code	THERMOSTAT ENVIRONMENT Code	ENVIRONMENT PROBE WITH CABLE FROM 6 m Code	SHUTTER THIRD WAY OF VENT Code	SHUTTER FIREBREAK ON SEND Code	CHIMNEY SINGLE WALL Code
ASX 80	98,5	96,3	38300059	38300051	38300052	38300053	38300078	38300080
ASX 100	122,0	116,6	38300060	38300051	38300052	38300053	38300078	38300080
ASX 150	179,0	178,6	38300061	38300051	38300052	38300053	38300079	38300081
ASX 175	203,0	201,8	38300030	38300051	38300052	38300053	38300079	38300081
ASX 200	238,0	234,2	38300031	38300051	38300052	38300053	38300079	38300081
ASX 250	270,0	269,0	38300082	38300051	38300052	38300053	38300084	38300085
ASX 300	313,0	310,0	38300083	38300051	38300052	38300053	38300084	38300085

SPECIFY WHEN ORDERING IF THE GENERATOR IS FOR TENSOSTATIC OR PRESSOSTATIC STRUCTURES. The difference between generators with series pressostatic and tensostatic lies in the fact that in the generator with pressostatic series there is an overpressure damper included which closes when the fans stop due to a lack of electricity, keeping the pressostatic structure under pressure and finally there is a wiring customized where the fans are always in operation.

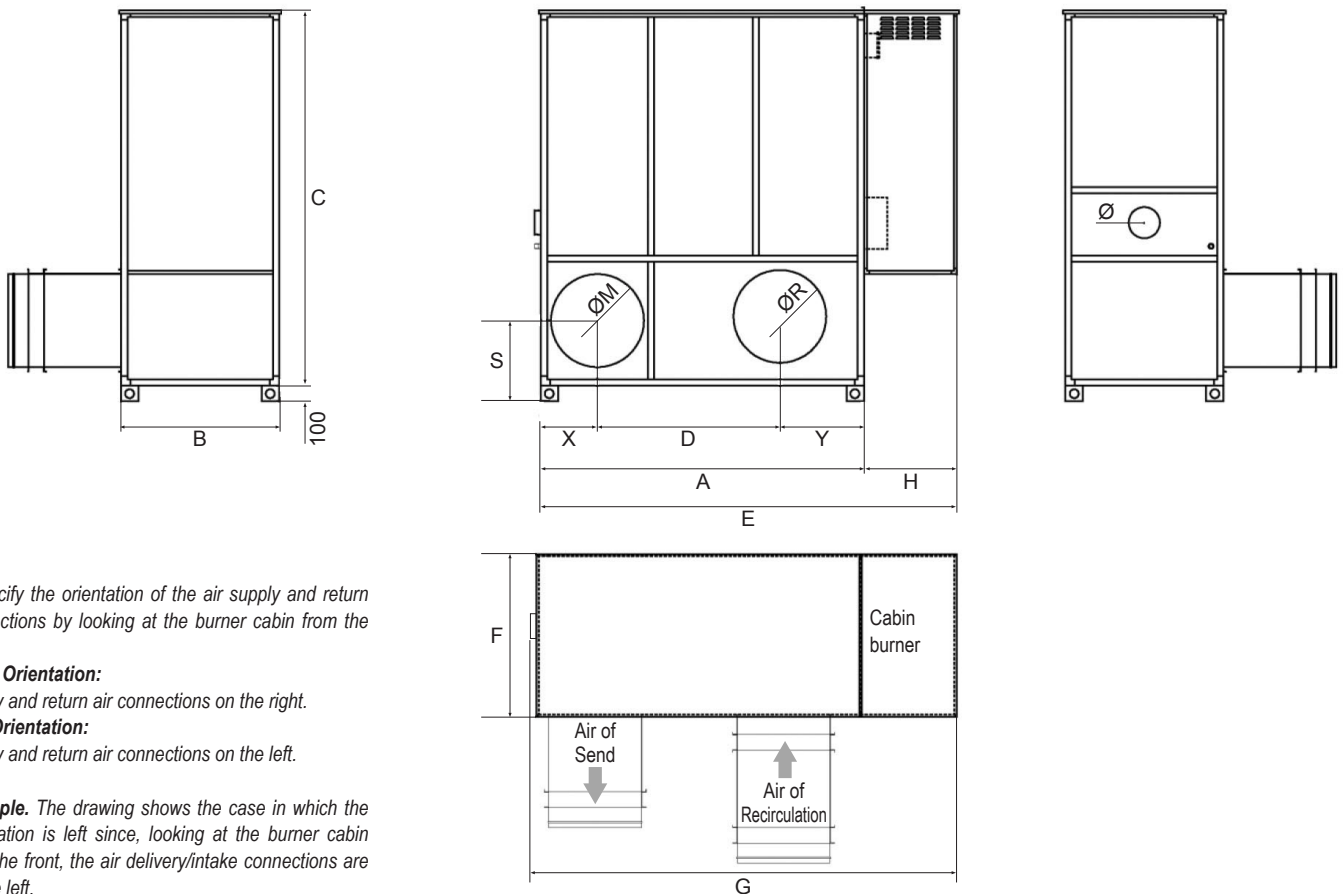
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ASX base-mounted generator composition



Dimensions of ASX floor standing generators with left view*



Models	A	B	C	D	E	F	G	H	X	Y	S	Ø fireplace interior	ØR	ØM
ASX 80	1600	900	2200	780	2000	910	2010	400	320	500	505	130	500	500
ASX 100	1600	900	2200	780	2000	910	2010	400	320	500	505	130	500	500
ASX 150	2086	1020	2500	1221	2686	1030	2695	600	365	500	520	150	600	600
ASX 175	2086	1020	2500	1221	2686	1030	2695	600	365	500	520	150	600	600
ASX 200	2086	1020	2500	1221	2686	1030	2695	600	365	500	520	150	600	600
ASX 250	2466	1100	2600	1430	3286	1140	3286	800	416	620	585	200	700	700
ASX 300	2466	1100	2600	1430	3286	1140	3286	800	416	620	585	200	700	700

Valori espressi in mm

ASX

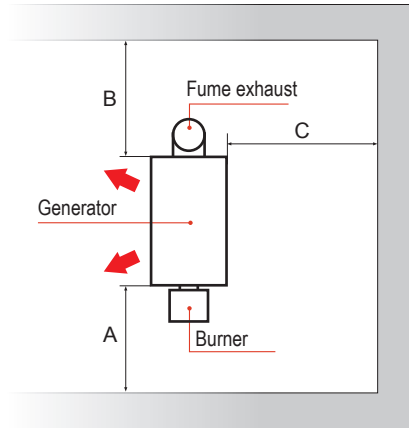
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Minimum distances of the ASX floor-standing generator from the walls

The diagram shown contains indications of the minimum distances necessary to carry out maintenance.

Models	A	B	C
ASX 80	1000	820	300
ASX 100	1000	820	300
ASX 150	1300	820	600
ASX 175	1300	820	600
ASX 200	1300	820	600
ASX 250	1300	820	600
ASX 300	1300	820	600

Valori espressi in mm



Technical data table for ASX floor-standing generators

Description	U.M.	ASX	ASX	ASX	ASX	ASX	ASX	ASX
		80	100	150	175	200	250	300
Gas category	IT	II 2H3B/P						
Type of appliance based on exhaust/combustion air intake		B23 - C13 - C33 - C53						
Nominal heat input Qn	kW	98,5	122	179	203	238	270	313
Nominal heat output Pn	kW	96,3	116,6	178,6	201,8	234,2	269,0	310,0
Thermal efficiency at nominal heat output Pn	%	97,8	95,6	99,8	99,4	98,4	99,3	98,7
Heat input at 50% of the nominal heat input	kW	49,25	61,0	89,5	101,5	119	162	187,8
Thermal power at 50% of the nominal heat input	kW	51,6	62,1	93,8	106,0	123,6	167,3	191,3
Thermal efficiency at 50% of the nominal heat input	%	104,9	101,8	104,8	104,5	103,9	103,3	101,8
Minimum heat input Qmin	kW	31		53			88	102
Thermal power at Qmin	kW	33,40		56,65			94,51	109,00
Thermal efficiency at minimum heat input Qmin	%	107,8		106,9			107,4	106,9
Back pressure in the combustion chamber with G20 at Qn	mbar	3,4	5,1	3,9	5,2	6,2	4,0	4,8
Back pressure in the combustion chamber with G30 at Qn	mbar	3,1	4,7	3,7	5,0	5,9	3,8	4,6
Condensation produced at ambient temperature 20 °C	l/h	4,06		4,50			5,52	5,20
Air flow at 18 °C	m ³ /h	7560	9200	13000	15800	18000	20800	24000
Useful static pressure	Pa	300						
ΔT air at Pn	°C	37,2		40,4	37,6	38,3	37,1	37,0
Gas consumption at 15 °C 1013 mbar								
Methane G20 at 20 mbar	m ³ /h	10,42	12,91	18,89	21,48	25,19	28,57	33,12
Natural Gas G25 at 25 mbar	m ³ /h	12,1	15,0	22,0	25,0	29,3	33,24	38,53
Propane G31 at 37 mbar	Kg/h	7,65	9,48	13,91	15,77	18,49	20,98	24,32
Butane G30 at 28 mbar	Kg/h	7,77	9,62	14,12	16,01	18,77	21,29	24,68
CO2 at Qn with G20 (tolerance ± 0.2)	%	8,9		8,8	8,7		8,3	
CO2 at Qn with G31 (tolerance ± 0.2)	%	10,50			10,00			
NOX (≤ 50 Mg/kWh)	CL	Class 5						
Fan motor electric power	kW	3,0	4,0	5,5		7,5		11,0
Fan motor supply voltage		400V/3+N/50Hz						
Fan motor absorption	A	5,9	7,8	9,2	9,9	11,5	12,8	19,8
Fan motor absorption. 3F voltage 230V/1/50Hz	A	10,0	12,8	16,8	17,8	20,7	23,0	32,5
Sound level (at 5 m)	dB(A)	72	73	71	73	74	75	76
IP protection rating		X5D						
Smoke exhaust/combustion air intake connection	mm	Ø 130/130		Ø 150/150			Ø 200/200	
Gas line connection		3/4"		1"			1" 1/2	
Net weight	Kg	415		700			780	
Gross weight	Kg	425		720			785	