ASP

Floor-standing hot air generators, with blown air gas or oil burner for sports facilities

HIGH YIELD 91% CERTIFIED

ERP READY

ROOM OF COMBUSTION IN STAINLESS STEEL

HOT AIR GAS, LPG, METHANE

Technical and construction characteristics

The ASP series hot air generators are units powered by fuel gas or diesel, for direct exchange air heating and suitable for: sports facilities, tensile structures, pressure structures.

CONTAINMENT STRUCTURE composed of:

- load-bearing structure made with assembled aluminum profiles with die-cast aluminum corners;
- containment casing made with type panels 20 mm thick sandwich whose external part is made of sheet metal pre painted steel while the internal part is made of sheet metal of galvanized steel. It is placed between the two external internal sheets a layer of thermo-acoustic insulation in class 0 reaction to fire and with rain protection;
- technical compartment, applied laterally to the generator, for the protection of the burner, instrumentation and panel electrical control and management.

COMBUSTION CIRCUIT

The combustion chamber is made of stainless steel as a guarantee of high reliability and long life.

The particular "polygonal" shape of the combustion chamber as well as the large available volume allow perfect combustion to be achieved and a large exchange surface to be available with uniform distribution of the thermal load.

The combinations between generators and gas burners must be made within the options permitted by CE certification, based on EEC directive 90/396.

All ASP Series Generators are equipped with an electrical management and control panel compliant with mandatory standards (in particular EN 60335-1) whose casing is made of hot-painted steel sheet with epoxy powders.

MODEL	CAPACITY THERMAL kW	POWER THERMAL kW	WITHOUT BURNER €	BURNER METHANE/LPG €	THERMOSTAT ON RECOVERY €	SHUTTER THIRD WAY OF VENT €	SHUTTER FIREBREAK €	CHIMNEY MONO WALL €	CHIMNEY DOUBLE WALL €	SHUTTER CALIBRATION AIR €	SHUTTER ABOVE PRESSURE €
ASP 80	98,5	94,7	19.300,00	23.450,00	790,00	620,00	1.290,00	1.470,00	3.240,00	410,00	850,00
ASP 100	115,8	110,2	20.180,00	24.750,00	790,00	620,00	1.290,00	1.470,00	3.240,00	410,00	850,00
ASP 150	179,0	172,4	20.550,00	25.200,00	790,00	620,00	1.640,00	1.550,00	3.670,00	480,00	930,00
ASP 175	203,0	198,3	22.000,00	26.650,00	790,00	620,00	1.640,00	1.550,00	3.670,00	480,00	930,00
ASP 200	238,0	229,2	26.000,00	32.180,00	790,00	620,00	1.850,00	1.550,00	3.670,00	480,00	930,00
ASP 250	270,0	260,8	30.900,00	37.920,00	790,00	620,00	1.850,00	1.720,00	4.070,00	610,00	1.020,00
ASP 300	313,0	300,8	37.700,00	44.930,00	790,00	620,00	1.850,00	1.720,00	4.070,00	610,00	1.020,00
ASP 425	425,0	420,7	58.170,00	68.740,00	790,00	620,00	2.000,00	1.720,00	4.070,00	900,00	1.200,00
ASP 500	500,0	487,5	61.670,00	75.680,00	790,00	620,00	2.090,00	1.720,00	4.070,00	900,00	1.380,00

MODEL	CAPACITY THERMAL kW	POWER THERMAL kW	WITHOUT BURNER Code	BURNER METHANE/LPG Code	THERMOSTAT ON RECOVERY Code	SHUTTER THIRD WAY OF VENT Code	SHUTTER FIREBREAK Code	CHIMNEY MONO WALL Code	CHIMNEY DOUBLE WALL Code	SHUTTER CALIBRATION AIR Code	SHUTTER ABOVE PRESSURE Code
ASP 80	98,5	94,7	38300000	38300001	38300025	38300032	38300039	38300046	38300054	38300062	38300070
ASP 100	115,8	110,2	38310000	38300002	38300025	38300033	38300040	38300047	38300055	38300063	38300071
ASP 150	179,0	172,4	38320000	38300003	38300025	38300034	38300041	38300048	38300056	38300064	38300072
ASP 175	203,0	198,3	38321000	38321100	38300025	38310034	38310041	38310048	38310056	38310064	38310072
ASP 200	238,0	229,2	38330000	38300004	38300025	38300035	38300042	38300049	38300057	38300065	38300073
ASP 250	270,0	260,8	38340000	38300005	38300025	38300036	38300043	38300050	38300058	38300066	38300074
ASP 300	313,0	300,8	38350000	38300006	38300025	38300037	38300044	38300050	38300058	38300066	38300075
ASP 425	425,0	420,7	38360000	38300007	38300025	38300038	38300045	38310050	38310058	38300068	38300076
ASP 500	500,0	487,5	38370000	38300008	38300025	38300028	38300029	38310050	38310058	38300069	38300077

SPECIFY WHEN ORDERING WHETHER 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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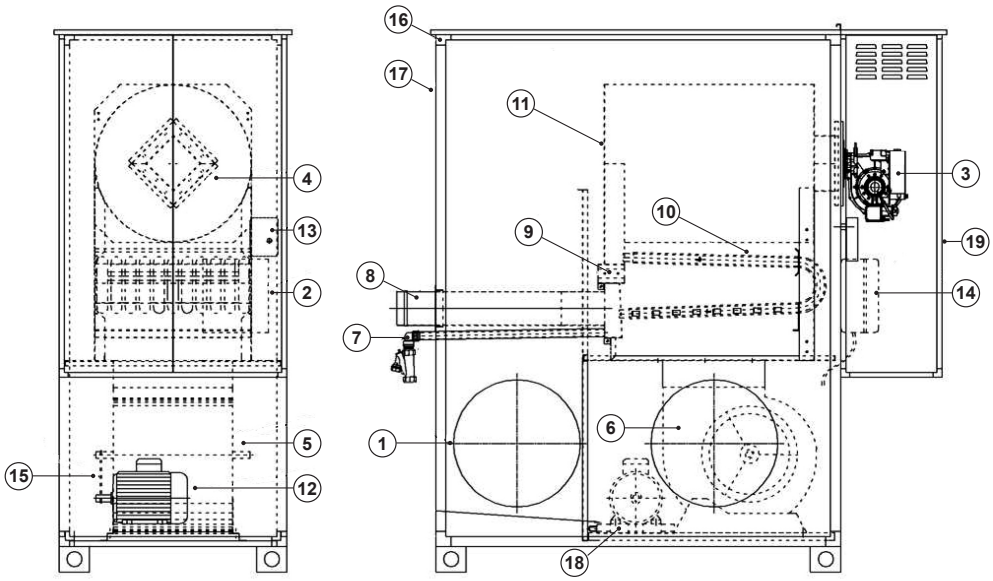
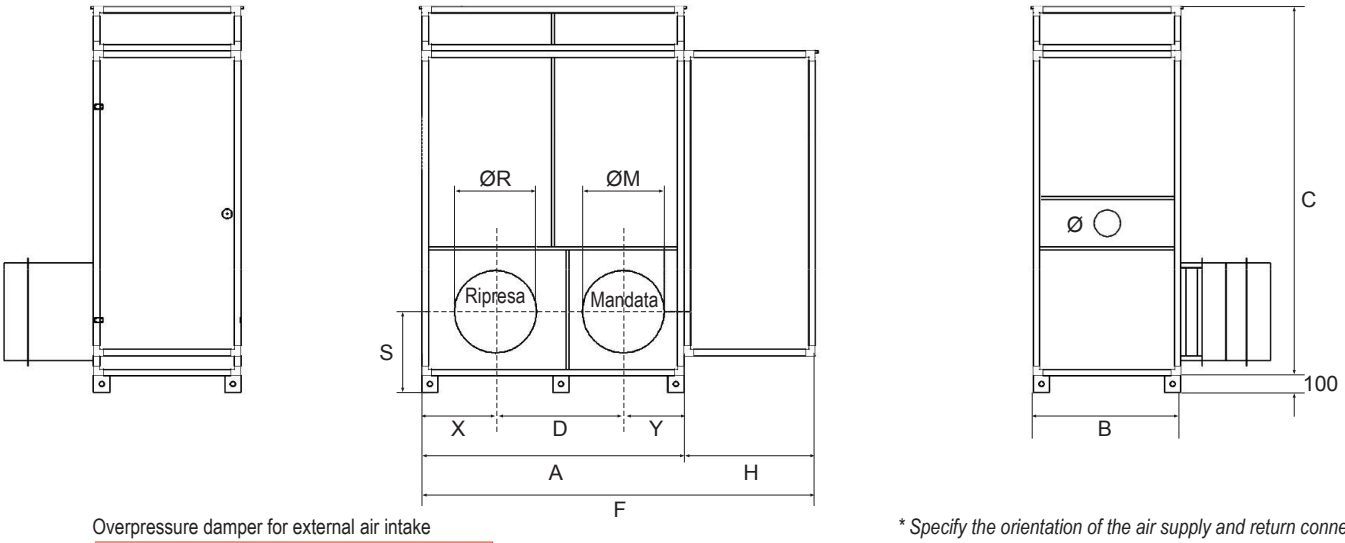
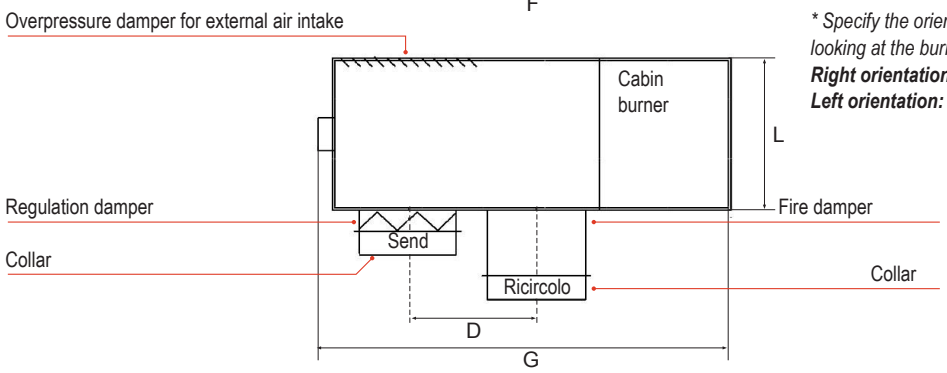
ASP pedestal generator composition



1 Air delivery
2 Rear smoke hatch
3 Burners
4 Burner plate
5 Centrifugal fan
6 Recirculation air intake
7 Condensate drain
8 Fume exhaust connection
9 Rear smoke box
10 Heat exchanger
11 Combustion chamber
12 Fan motor
13 Fan-Limit-Limit2 tri-thermostat
14 Electrical panel
15 Pulleys and transmission belts
16 Frame in aluminum profiles
17 Insulated external panels
18 Engine belt tensioner slide
19 Burner protection cabin and electrical parts

Dimensions and weights of ASP base-mounted generators for static pressure-tension roofing





** Specify the orientation of the air supply and return connections by looking at the burner cabin from the front.*
Right orientation: *air supply and return connections on the right.*
Left orientation: *air supply and return connections on the left.*

Example. *The drawing shows the case in which the orientation is left since, looking at the burner cabin from the front, the delivery/return connections air are located on the left.*

Models	A	B	C	D	E	F	H	X	Y	S	Ø fireplace interior	ØR	ØM	Net weight Kg	Gross weight Kg
ASP 80	1600	900	2200	780	2000	910	700	320	500	505	130	500	500	415	425
ASP 100	1600	900	2200	780	2000	910	700	320	500	505	130	500	500	415	425
ASP 150	2086	1020	2500	1221	2686	1030	700	365	500	520	150	600	600	700	720
ASP 175	2086	1020	2500	1221	2686	1030	700	365	500	520	150	600	600	700	720
ASP 200	2086	1020	2500	1221	2686	1030	700	365	500	520	150	600	600	700	720
ASP 250	2466	1100	2600	1430	3286	1140	700	416	620	585	200	700	700	780	785
ASP 300	2466	1100	2600	1430	3286	1140	800	416	620	585	200	700	700	780	785
ASP 425	3000	1500	3522	1703	1540	3920	920	520	776	725	250	900	900	1100	1120
ASP 500	3000	1500	3522	1703	1540	3920	920	520	776	725	250	900	900	1100	1120

Values expressed in mm

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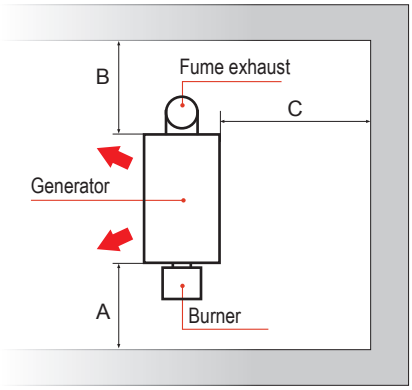
Minimum distances of the ASP floor-standing generator from the walls

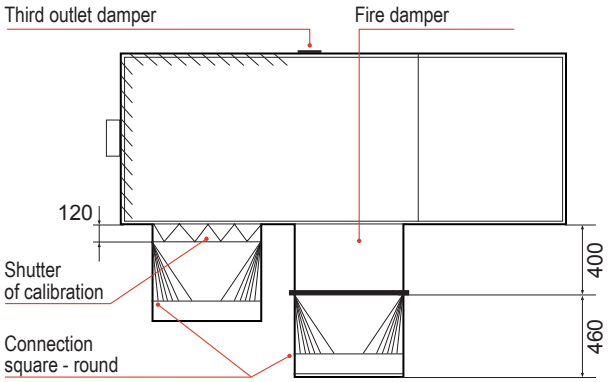
The diagram shown contains indications of the minimum distances necessary to carry out maintenance.

Modelli	A	B	C
ASP 80	1000	600	600
ASP 100	1000	600	600
ASP 150	1300	600	600
ASP 175	1300	600	600
ASP 200	1300	650	600
ASP 250	1500	650	600
ASP 300	1500	650	600
ASP 425	1500	650	600
ASP 500	1500	650	600

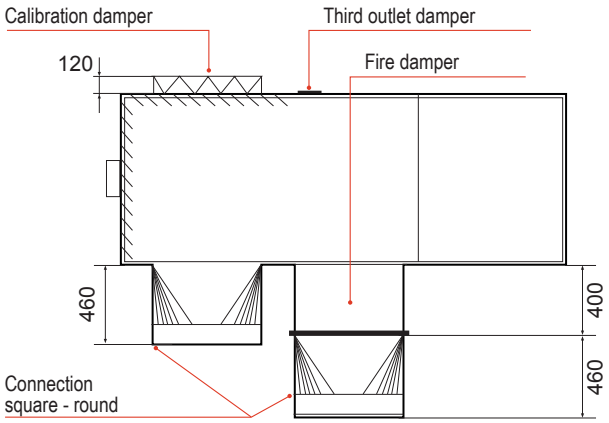
Values expressed in mm



ASP pedestal generators for pressure structures



ASP pedestal generators for tensile structures



Values expressed in mm

Technical data table for ASP floor-standing generators with 2-stage blown gas burners

Description	U.M.	ASP 80	ASP 100	ASP 150	ASP 175	ASP 200	ASP 250	ASP 300	ASP 425	ASP 500
Nominal heat input Qn	kW	98,5	115,8	179,0	203,0	238,0	270,0	313,0	425,0	500,0
Nominal heat output Pn	kW	94,7	110,2	172,4	198,3	229,2	260,8	300,8	420,7	487,5
Thermal efficiency at nominal flow rate Pn	%	96,1	95,2	96,3	97,7	96,3	96,6	96,1	98,6	97,5
Heat input at 50% of the nominal heat input	kW	48,0	55,0	82,0	85,0	100,0	135,0	156,5	212,5	212,5
Thermal power at 50% of the nominal heat input	kW	47,7	54,5	82,3	86,5	100,3	137,2	157,3	213,8	217,0
Thermal efficiency at 50% of the nominal heat input	%	99,3	97,9	100,4	101,8	100,3	101,6	100,5	101,4	102,1
Back pressure in combustion chamber with G20 at Qn	mbar	2,3	3,5	2,5	3,4	4,0	2,6	3,3	3,0	3,6
Back pressure in the combustion chamber with G30 at Qn	mbar	2,1	3,3	1,8	2,2	3,1	2,5	3,2	2,8	3,4
Air flow at 18 °C	m^3/h	7560	9200	13000	15800	18000	20800	24000	32500	38300
Static Pressure Useful for pressostatic structure	Pa	300	300	300	300	300	300	300	300	300
Static Pressure Useful for tensile structure	Pa	250	250	250	250	250	250	250	250	250
ΔT air at Qnom	°C	37,2	37,2	40,4	37,6	38,3	37,1	37,0	36,7	41,0
Methane G20 at 20 mbar	m^3/h	10,42	12,91	18,94	21,48	25,19	28,57	33,12	44,97	52,90
Natural Gas G25 at 25 mbar	m^3/h	12,10	15,00	22,00	25,00	29,30	33,24	38,53	52,30	61,50
Propane G31 at 37 mbar	Kg/h	7,65	9,48	13,91	15,77	18,49	20,98	24,32	32,80	38,60
Butane G30 at 28 mbar	Kg/h	7,77	9,62	14,12	16,01	18,77	21,29	24,68	33,50	39,40
CO2 at Qn with G20 (Tolerance ± 0.2)	%	9,4	9,6	9,8	9,7	9,3	8,2	9,4	9,4	8,8
Fan motor electric power for pressostatic structure	kW	3	4	5,5	5,5	7,5	7,5	11	11	15
Fan motor electric power for tensile structure	kW	2,2	4	4	5,5	7,5	7,5	11	11	15
Fan motor supply voltage	V-Ph-Hz									
Fan motor absorption of pressostatic structure voltage - 3F 400/V/50Hz	A	5,9	7,8	9,2	9,9	11,5	12,8	19,8	19,8	26,8
Fan motor absorption of pressostatic structure voltage - 3F 230/V/50Hz	A	10,0	12,8	16,8	17,8	20,7	23,0	32,5	32,5	44,0
Tensostatic structure voltage fan motor absorption - 3F 400/V/50Hz	A	4,4	7,0	7,8	8,8	10,4	11,5	17,8	17,8	24,0
Tensostatic structure voltage fan motor absorption - 3F 230/V/50Hz	A	7,6	12,2	13,5	15,3	18,1	20,0	30,0	30,0	39,6
Sound level (at 5m) for pressostatic structure	dB(A)	72	73	71	73	74	75	76	76	76
Sound level (at 5m) for tensile structure	dB(A)	71	72	70	72	73	74	75	75	75
Degree of protection		IP X5D								
Fume exhaust connection diameter	mm	130	130	150	150	150	200	200	250	250
GAS CATEGORY	IT	It is the gas category of the combined GAR blown gas burner								
Type of appliance based on discharge		**B 23**								
Gas line connection		3/4"	3/4"	1"	1"	1"	1" 1/2	1" 1/2	2"	2"