

TECHNICAL SPECIFICATIONS STEP FIRED STEAM GENERATORS

GENERATOR MODEL		UNIT	E-10	E-15	E-20	E-26	E-40	SE-40	E-50	SE-50	E-60	SE-60	E-80	SE-80	E-100	SE-100	E-125	SE-125	E-185	SE-185															
NET OUTPUT	MAXIMUM LOAD	kW	98	147	196	255	392	392	490	490	589	589	785	785	981	981	1226	1226	1815	1815															
	FIRING STEPS	%	ON/OFF burner				50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100														
EQUIVALENT MAXIMUM OUTPUT SATURATED STEAM (*)		kg/h	157	235	313	407	626	626	783	783	939	939	1253	1253	1566	1566	1957	1957	2897	2897															
NOMINAL OPERATING STEAM PRESSURES AVAILABLE UP TO: (**)		barg	8	8	8	8	17	17	17	17	27	27	26	26	27	27	27	27	27	27															
STANDARD INSTALLED ELECTR. MOTOR POWER (230/400/415/440 VAC - 50/60 Hz)	WATER PUMP	kW	0,37	0,37	0,55	0,55	2,4	2,4	2,4	2,4	4	4	3	3	7,5	7,5	7,5	7,5	11	11															
	BLOWER	kW	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5			5,5	5,5																					
COMBUSTION EFFICIENCY (***)	FUEL TYPE: G = GAS / O = LIGHT OIL		G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O									
	@ 100% STEP	%	94	93	91	92	92	92	90	91	92	94	95	88	93	91	91	94	94	92	93	95	96	92	93	95	96	91	92	94	95	90	91	94	94
	@ 50% STEP	%	ON/OFF burner				94	95	96	96	93	95	94	93	95	95	95	95	97	97	95	95	97	97	94	95	96	97	94	94	96	96			
CONSUMPTION @ FULL LOAD	GAS with LCV = 37000 kJ/Nm ³	Nm ³ /h	10,2	15,7	20,7	27,6	42,0	40,6	54,2	51,3	62,9	60,9	83,0	80,4	103,7	100,5	131,1	126,9	196,2	187,8															
	LIGHT OIL with LCV = 42700 kJ/kg	kg/h	8,9	13,5	18,0		36,0	34,8		54,5	52,8	71,1	68,9	88,9	86,1	112,4	108,8	168,1	162,8																
WATER CONTENT (generator water/steam system)	FILLED	L	24	24	50	50	65	76,5	65	76,5	104	130	192	235	192	235	192	235	296	367															
	IN OPERATION	L	9,1	9,1	14	13	20	30,4	20	30,4	25	33	47	61	47	61	47	61	84	108															
GAS PRESSURE REQUIRED @ INLET (****)		mbarg	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25															
OVERALL GENERATOR DIMENSIONS (approx.)	LENGTH	gas	mm	1325	1325	1325	1325	1520	1520	1520	1520	2030	2030	1973	1973	2230	2230	2230	2230	2395	2395														
		oil	mm					1325	1325			1710	1710	1755	1755	1880	1880	1880	1880	2030	2030														
	WIDTH	gas	mm	960	960	1045	1045	945	945	945	945	1290	1290	1260	1260	1400	1400	1400	1400	1625	1625														
		oil	mm	835	835	925		945	945	945	945	1290	1290	1260	1260	1400	1400	1400	1400	1625	1625														
	HEIGHT	all fuels	mm	1470	1470	1890	1890	2150	2465	2150	2450	2320	2320	2405	2700	2405	2700	2405	2700	2515	2935														
	WEIGHT (empty)	gas	kg	390	390	450	450	660	790	660	790	1250	1320	1725	1980	1695	1950	1695	1950	2335	2650														
oil		kg	1215									1285	1725	1980	1650	1905	1650	1905	2245	2560															
OVERALL PUMP SKID DIMENSIONS (approx.)	LENGTH	mm	500	500	515	515	930	930	930	930	Feed water pump installed on generator base frame as a standard.																								
	WIDTH	mm	375	375	465	465	630	630	630	630																									
	HEIGHT	mm	650	650	650	650	1065	1065	1065	1065																									
	WEIGHT	kg	40	40	40	40	180	180	180	180																									
GENERATOR STACK CONNECTION (outer diameter)		mm	202	202	202	202	305	305	305	305	381	381	457	457	457	457	457	457	559	559															

NOTES:

- (*) @ 1 bara (absolute) with feed water temperature of 100 °C
- (**) Available as standard. Higher pressure(s) available on request.
- (***) Based on feed water temperature of 60 °C.
- (****) To be regulated by customer, based on 100% capacity and GAS-LCV = 37000 kJ/Nm³.

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TECHNICAL SPECIFICATIONS MODULATING STEAM GENERATORS

GENERATOR MODEL		UNIT	E-154		SE-154		E-204		SE-204		E-254		SE-254		E-304		SE-304		E-354		SE-354		E-404		SE-404		E-504		SE-504		E-604		SE-604		E-704		SE-704					
NET OUTPUT	MAXIMUM LOAD	kW	1471		1471		1962		1962		2452		2452		2943		2943		3433		3433		3924		3924		4905		4905		5886		5886		6866		6866					
	MODULATION RANGE	%	33/100		33/100		25/100		25/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100		20/100					
EQUIVALENT MAXIMUM OUTPUT SATURATED STEAM (*)		kg/h	2349		2349		3131		3131		3914		3914		4697		4697		5480		5480		6263		6263		7829		7829		9394		9394		10958		10958					
NOMINAL OPERATING STEAM PRESSURES AVAILABLE UP TO (**)		barg	27		27		27		27		27		27		27		27		27		27		27		27		27		27		27		27		27		27					
STANDARD INSTALLED ELECTRICAL MOTOR POWER (230/400/415/440 VAC - 50/60 Hz)	WATER PUMP (****)	kW	4		4		5,5		5,5		7,5		7,5		7,5		7,5		7,5		11,0		5,5 + 5,5		5,5 + 5,5		7,5 + 7,5		7,5 + 7,5		11 + 11		11 + 11		11 + 11		11 + 11					
	BLOWER	kW	5,5		5,5		7,5		7,5		11		11		11		11		15		15		22		22		30		30		30		30		45		45					
COMBUSTION EFFICIENCY (***)	FUEL TYPE: G=GAS/O=LIGHT OIL		G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O	G	O						
	MAXIMUM LOAD	%	93	93	95	95	92	93	94	95	92	93	94	95	92	93	94	95	91	92	93	94	91	92	95	95	90	91	94	95	91	91	94	95	91	90	93	92				
	MINIMUM LOAD	%	96	97	96	97	95	95	96	97	95	95	96	97	95	95	96	97	95	95	96	97	94	95	96	97	97	97	96	97	97	97	96	97	97	97	92	91	94	93		
CONSUMPTION @ FULL LOAD	GAS with LCV = 37000 kJ/Nm ³	Nm ³ /h	154		151		207		203		259		254		311		305		367		359		420		402		530		508		629		609		737		720					
	LIGHT OIL with LCV = 42700 kJ/kg	kg/h	133		131		178		174		222		218		267		261		315		308		360		348		454		435		545		522		657		643					
WATER CONTENT (generator water/steam system)	FILLED	L	556		695		556		695		556		695		777		916		777		916		1495		1721		1495		1761		1917		2183		2025		2300					
	IN OPERATION	L	315		460		300		450		288		431		400		530		380		520		665		930		650		920		1120		1386		1150		1350					
MINIMUM GAS PRESSURE REQUIRED @ INLET (****)		mbarg	120		120		170		170		230		230		300		300		390		390		170		170		230		230		300		300		300		300					
ATOMIZING AIR (oil fired only)	REQUIRED FLOW	Nm ³ /h	36		36		27		27		27		27		32		32		32		32		40		40		40		40		40		40		40		40					
	REQUIRED PRESSURE	barg	5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7		5 --> 7					
OVERALL GENERATOR DIMENSIONS (approx.)	LENGTH	gas	mm		2755		2755		2755		2755		2745		2745		2745		2745		2745		2745		2745		3060		3060		3060		3060		3060		3320		3320			
		oil	mm		2550		2550		2550		2550		2550		2550		2550		2550		2550		2550		2550		2840		2840		2840		2840		2840		2840		3100		3100	
		oil - gas	mm		2882		2882		2882		2882		2872		2872		2872		2872		2872		2872		2872		2872		3190		3190		3190		3190		3190		3320		3320	
	WIDTH	all fuels	mm		1950		1950		1950		1950		1950		1950		1950		1950		1950		1950		1950		2130		2130		2130		2130		2130		2115		2115			
	HEIGHT	all fuels	mm		2785		3165		2785		3165		2785		3165		2915		3490		2915		3490		3410		3975		3410		3975		4590		5235		5200		5845			
	WEIGHT (empty)	all fuels	kg		2950		3450		3050		3550		3150		3650		3600		4100		3700		4200		5800		6600		5800		6600		6900		7700		8600		9400			
OVERALL PUMP SKID DIMENSIONS (approx.)	LENGTH	mm	1345		1345		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350		1350					
	WIDTH	mm	680		680		820		820		820		820		820		820		820		820		820		820		820		820		820		820		820		820					
	HEIGHT	mm	1025		1025		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155					
	WEIGHT	kg	325		325		400		400		400		400		400		400		400		400		400		400		400		400		400		400		400		400					
GENERATOR STACK CONNECTION (outer diameter)		mm	559		559		559		559		713		713		713		713		713		713		713		806		806		806		806		806		908		908					

NOTES:

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