

TECHNICAL SPECIFICATIONS - 150 to 500 BHP

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
NET OUTPUT	MAXIMUM LOAD	kW	1471	1471	1962	1962	2452	2452	2943	2943	3433	3433	3924	3924	4905	4905
	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
EQUIVALENT MAXIMUM OUTPUT SATURATED STEAM (*)		kg/h	2349	2349	3131	3131	3914	3914	4697	4697	5480	5480	6263	6263	7829	7829
NOMINAL OPERATING STEAM PRESSURES		barg	Up to 150 barg depending on model and application													
STANDARD INSTALLED ELECTRICAL MOTOR POWER (230/400/415/440 VAC - 50/60 Hz)			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
	BLOWER	kW	5.5	5.5	7.5	7.5	11	11	11	11	15	15	22	22	30	30
COMBUSTION EFFICIENCY (**)	FUEL TYPE G(Gas) O(Light Oil)		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	91	92
	MINIMUM LOAD	%	96	97	96	97	95	95	96	97	95	95	96	97	94	95
CONSUMPTION @ FULL LOAD	GAS - LCV = 37000 kJ/Nm ³	Nm ³ /h	154	151	207	203	259	254	311	305	367	359	420	402	530	508
	LIGHT OIL - LCV = 42700 kJ/kg	kg/h	133	131	178	174	222	218	267	261	315	308	360	348	454	435
WATER CONTENT (generator water/steam system)	FILLED	L	556	695	556	695	556	695	777	916	777	916	1495	1721	1495	1761
	IN OPERATION	L	315	460	300	450	288	431	400	530	380	520	665	930	650	920
HEATING SURFACE		m ²	41.7	59.9	41.7	59.9	41.7	59.9	55.2	73.4	55.2	73.4	83.9	111	83.9	111
MINIMUM GAS PRESSURE REQUIRED @ INLET (***)		mbar	160-240	160-240	210-360	210-360	190-280	190-280	230-365	230-365	280-450	280-450	190-250	190-250	250-340	250-340
ATOMIZING AIR (oil fired only)	REQUIRED FLOW	Nm ³ /h	36	36	27	27	27	27	32	32	32	32	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
OVERALL GENERATOR DIMENSIONS (approx.)	LENGTH	gas	mm	2755	2755	2755	2755	2745	2745	2745	2745	2745	3060	3060	3060	3060
		oil	mm	2550	2550	2550	2550	2550	2550	2550	2550	2550	2840	2840	2840	2840
		gas-oil	mm	2882	2882	2882	2882	2872	2872	2872	2872	2872	3190	3190	3190	3190
	WIDTH	all fuels	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	2130	2130	2130	2130
	HEIGHT	all fuels	mm	2785	3165	2785	3165	2785	3165	2915	3490	2915	3490	3410	3975	3410
	WEIGHT (empty)	all fuels	kg	2950	3450	3050	3550	3150	3650	3600	4100	3700	4200	5800	6600	5800
OVERALL PUMP SKID DIMENSIONS (approx.)	LENGTH	mm	1345	1345	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
	HEIGHT	mm	1025	1025	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
GENERATOR STACK CONNECTION (outer diameter)		mm	559	559	559	559	713	713	713	713	713	713	806	806	806	806

NOTES

(*) @ 1 bara (absolute) with feed water temperature of 100 °C

(**) based on feed water temperature of 60 °C

(***) to be provided by customer (based on 100% capacity; based on LHV between 31,8 and 37,3 MJ/Nm³) - (Note: gas train design pressure is 500 mbar) (****) motor power may vary due to steam/feed water pressure. E404 / 504 / 604 and 704 have two Clayton pumps. As from model E-804 the units have one centrifugal feed water pump and feed water quantity regulating system.