

Product Range

biogas 400 - 2547 kW

(biogas, landfill gas, sewage gas, special gas)

Type		ETW 400 BG	ETW 600 BG	ETW 800 BG	ETW 1010 BG	ETW 1200 BG	ETW 1380 BG	ETW 1520 BG	ETW 2020 BG	ETW 2300 BG	ETW 2540 BG
Power mechanical	kW	414	620	825	1050	1235	1419	1564	2085	2364	2781
Power electrical	kW	400	600	800	1012	1200	1380	1521	2028	2300	2547
Power	thermal	kW	405	600	792	1056	1212	1391	1510	2070	2654
	from cooling water	kW	206	330	430	624	631	801	882	1211	1538
	from exhaust 150°C	kW	199	270	362	432	581	590	628	859	1116
	from exhaust 180°C	kW	179	240	322	381	522	525	552	758	989
Fuel consumption	kW	935	1400	1856	2348	2804	3183	3446	4643	5302	5913
Biogas with calorific value 6 kWh/Nm ³	m ³ /h	155,8	233,3	309,3	391,3	467,3	530,5	574,3	773,8	883,7	985,5
Engine manufacture		MWM	MWM	MWM	MTU	MWM	MWM	MTU	MTU	MWM	MTU
Engine type		TCG3016V8	TCG3016V12	TCG3016V16	8V4000L64FB	TCG2020V12	TCG3020V12	12V4000L64FB	16V4000L64FB	TCG3020V20	20V4000L64FB
Position / number of cylinders		V8	V12	V16	V8	V12	V12	V12	V16	V20	V20
Displacement	cm ³	17.500	26.300	35.000	38.130	53.100	53.000	57.200	76.270	88.500	95.330
Medium piston speed	m/s	8,0	8,0	8,0	10,5	9,8	9,8	10,5	10,5	9,8	10,5
Intake air - volume flow	kg/h	1.897	2.951	3.731	4.758	5.801	6.275	5.517	7.420	10.201	11.981
Exhaust gas mass flow	kg/h	2.158	3.282	4.351	5.245	6.341	7.021	7.862	10.580	11.633	13.207
Lube oil consumption	kg/h	0,08	0,06	0,08	0,16	0,24	0,15	0,24	0,32	0,40	0,40
Cogeneration data											
Exhaust temperature before heat exchanger	°C	448	418	421	407	446	422	400	405	445	414
Exhaust temperature after heat exchanger	°C	180	180	180	180	180	180	180	180	180	120
Heating water temperature flow / return	°C	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70	90 / 70
Efficiency	electric	%	42,8	42,9	43,1	43,1	42,8	43,4	44,1	43,7	43,4
	thermal	%	43,3	42,9	42,7	45,0	43,2	43,7	44,6	43,4	44,9
	total	%	86,1	85,7	85,8	88,1	86,0	87,1	87,9	88,3	88,0
Sound											
Sound level engine	dB(A)	97	119,5	119,5	120	103	119,9	123,9	124	121	122
Sound level exhaust without silencer	dB(A)	120	133,7	131,9	121,5	119	132,4	121,3	120,6	135,56	119,4
Exhaust consistence											
NO _x	mg/Nm ³	500	500	500	500	500	500	500	500	500	500
CO	mg/Nm ³	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
HCHO	mg/Nm ³	40	40	40	40	40	40	40	40	40	40
Dimensions standard container module											
Length	m	10,5	12,2	12,2	12,2	13,0	13,0	13,0	14,0	15,0	15,0
Width	m	3,0	3,0	3,0	3,2	3,2	3,2	3,2	3,2	3,2	3,2
Height	m	2,6	2,6	2,6	3,0	3,0	3,0	3,0	3,0	3,3	3,3
Price for standard scope of supply	€	on request	on request	on request	on request	on request	on request	on request	on request	on request	on request