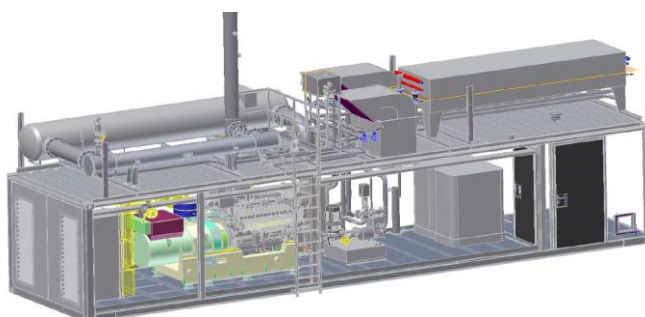


Product Range

Biogas 400 - 2300 kW

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



Biogas 400 - 1000 kW

Type		ETW 400 BG	ETW 600 BG	ETW 800 BG	ETW 1000 BG50
Power mechanical	kW	414	620	825	1030
Power electrical	kW	400	600	800	1000
Power thermal	kW	385	570	752	1101
from cooling water	kW	206	330	430	527
from exhaust 150°C	kW	179	240	322	574
from exhaust 180°C	kW	179	240	322	478
Fuel consumption	kW	935	1400	1856	2379
Biogas with calorific value 6 kWh/Nm ³	m ³ /h	155,8	233,3	309,3	396,5
Engine manufacture		MWM	MWM	MWM	MWM
Engine type		TCG3016V8	TCG3016V12	TCG3016V16	TCG2020V12
Position / number of cylinders		V8	V12	V16	V12
Displacement	cm ³	17.500	26.300	35.000	53.100
Medium piston speed	m/s	8,0	8,0	8,0	9,8
Intake air - volume flow	kg/h	1.897	2.951	3.731	5.469
Exhaust gas mass flow	kg/h	2.158	3.282	4.351	5.168
Lube oil consumption	kg/h	0,08	0,06	0,08	0,20
Cogeneration data					
Exhaust temperature before heat exchanger	°C	448	418	421	478
Exhaust temperature after heat exchanger	°C	180	180	180	120
Heating water temperature flow / return	°C	90 / 70	90 / 70	90 / 70	90 / 70
Efficiency electric	%	42,8	42,9	43,1	42,0
thermal	%	41,2	40,7	40,5	46,3
total	%	84,0	83,6	83,6	88,3
Sound					
Sound level engine	dB(A)	97	119,5	119,5	103
Sound level exhaust without silencer	dB(A)	120	133,7	131,9	119
Exhaust consistence					
NO _x	mg/Nm ³	500	500	500	500
CO	mg/Nm ³	1000	1000	1000	1000
NMHC	mg/Nm ³	40	40	40	40
Dimensions for standard container construction					
Length	m	10,5	12,2	12,2	13,0
Width	m	3,0	3,0	3,0	3,2
Height	m	2,6	2,6	2,6	3,0
Price for standard scope of supply	€	on request	on request	on request	on request

Subject to modifications and amendments

Options: Gas blower station, gas analysis system, gas conditioning system, flare

08.11.2021



Biogas 1200 - 2300 kW

Type		ETW 1200 BG	ETW 1560 BG	ETW 2000 BG	ETW 2300 BG50
Power mechanical	kW	1235	1605	2056	2364
Power electrical	kW	1200	1560	2000	2300
Power thermal	kW	1153	1528	2041	2195
from cooling water	kW	631	850	1044	1238
from exhaust 150°C	kW	522	678	997	957
from exhaust 180°C	kW	522	678	899	957
Fuel consumption	kW	2804	3683	4676	5302
Biogas with calorific value 6 kWh/Nm ³	m ³ /h	467,3	613,8	779,3	883,7
Engine manufacture		MWM	MWM	MWM	MWM
Engine type		TCG2020V12	TCG2020V16	TCG2020V20	TCG3020V20
Position / number of cylinders		V12	V16	V20	V20
Displacement	cm ³	53.100	70.800	88.500	88.500
Medium piston speed	m/s	9,8	9,8	9,8	9,8
Intake air - volume flow	kg/h	5.801	7.601	9.416	10.201
Exhaust gas mass flow	kg/h	6.341	8.282	10.547	11.633
Lube oil consumption	kg/h	0,24	0,31	0,40	0,40
Cogeneration data					
Exhaust temperature before heat exchanger	°C	446	444	455	445
Exhaust temperature after heat exchanger	°C	180	180	150	180
Heating water temperature flow / return	°C	90 / 70	90 / 70	90 / 70	90 / 70
Efficiency electric	%	42,8	42,4	42,8	43,4
thermal	%	41,1	41,5	43,6	41,4
total	%	83,9	83,8	86,4	84,8
Sound					
Sound level engine	dB(A)	103	111	112	121,01
Sound level exhaust without silencer	dB(A)	119	124	124	135,56
Exhaust consistence					
NOx	mg/Nm ³	500	500	500	500
CO	mg/Nm ³	1000	1000	1000	1000
NMHC	mg/Nm ³	40	40	40	40
Dimensions for standard container construction					
Length	m	13,0	14,0	15,0	15,0
Width	m	3,2	3,2	3,2	3,2
Height	m	3,0	3,0	3,3	3,3
Price for standard scope of supply	€	on request	on request	on request	on request

Subject to modifications and amendments

Options: Gas blower station, gas analysis system, gas conditioning system, flare
08.11.2021

