

TRILLION GASIFIER

The ultimate solution to your high energy cost



Our State-of-the-art Trillion Gasifier is designed to generate producer gas that can be piped directly to any conventional diesel engine for bi-fuel operation. It utilises biomass such as rice husk, sugarcane pulp, wood chips, sawdust, coal, palm oil kernel shell or fibre etc. Our specially designed filtration system thoroughly and efficiently cleans up the gas giving a gas quality that is fully in compliance with the FAO specifications. The end result is an improved engine emission that is definitely cleaner and more environmentally friendly. So let's do our part to save our planet!

- Save up to 85% of fuel consumption
- Low capital investment i.e. fast payback
- Easy to install and simple to operate
- Compact design
- Low maintenance cost
- Low biomass consumption
- No unpleasant smell
- No engine modification required
- No deration on the engine output
- Will not affect the engine life span
- Improve existing engine performance
- Availability of carbon credit for sales



MODEL	TG 30	TG 70	TG 180	TGP 250	TGP 300	TGP 350
GASIFIER TYPE	Downdraft Throatless Gasifier					
TYPE OF BIO MASS	Rice Husk / Palm Oil Kernel Shell					
BIO MASS CONSUMPTION KG/HR	16 / 10	32 / 20	64 / 40	90 / 56	112 / 80	125 / 90
GAS PRODUCTION M³ /HR	12	52	118	197	236	575
WATER USAGE GAL/HR	200	1300	3000	5000	6000	14600
PLANT AREA REQUIRED FT	3' X 4'	4'x6'	7'x10'	15' X 15'	15' X 15'	15' X 15'
MINIMUM CLEARANCE HEIGHT (FT)	5'	10'	16'	16'	16'	16'
GAS TEMP @ ENGINE INTAKE ° C	30	30	30	30	30	30
MATERIAL USED	2mm SS, 1.2 to 5 mm MS					
GAS QUALITY						
DUST AMOUNT MG/M³ GAS	<5	<5	<5	<5	<5	<5
TAR AMOUNT MG/M³ GAS	<500	<500	<500	<500	<500	<500
ACID AMOUNT MG/M³ GAS	<50	<50	<50	<50	<50	<50
TIME REQUIRED FOR SYSTEM STARTUP (MINS)	3	3	3	3	3	3
CLEANING INTERVAL	Upto 240 hours					
% SAVING ON DIESEL	50% to 85% Depending on the type of engine load					
OPERATOR REQUIRED	1	1	1	2	2	2
BAD SMELL FROM EXHAUST EMISSION	No	No	No	No	No	No
ENGINE KNOCKING	No	No	No	No	No	No
SHORTEN ENGINE SERVICE LIFE	No	No	No	No	No	No
CUMBERSOME OPERATION	No	No	No	No	No	No
ENGINE MODIFICATION	No	No	No	No	No	No
Note:	Higher capacity models above TG180 are custom designed and build according to application.					

Trillion International Pte. Ltd. 121, Woodlands Industrial Park E5, Woodlands E-Terrace, Singapore 757497
 Email : jamestanwh@singnet.com.sg Mobile : +65 96332990 Tel : +65.65423315 Fax : +65 65462848