

Customer	
Job ID	
Run By	Date Run
Engine Performance Code REV. 4.10.1.11.5	Engine Performance Data REV. 0.6

Model TITAN 130-20501S Axial
Package Type GSC 60 Hz
Match STANDARD
Fuel System GAS
Fuel Type SD NATURAL GAS

DATA FOR NOMINAL PERFORMANCE

Elevation	feet	2493					
Inlet Loss	in H2O	4.0					
Exhaust Loss	in H2O	10.0					
		1	2	3	4	5	6
Engine Inlet Temperature	deg F	-40.0	-20.0	0	40.0	60.0	100.0
Relative Humidity	%	60.0	60.0	60.0	60.0	60.0	60.0
Gearbox Efficiency		0.9850	0.9850	0.9850	0.9850	0.9850	0.9850
Generator Efficiency		0.9800	0.9800	0.9800	0.9800	0.9800	0.9800
Based On 1.0 Power Factor							
Specified Load*	kW	FULL	FULL	FULL	FULL	FULL	FULL
Net Output Power*	kW	16152	15591	15037	13865	13214	10829
Fuel Flow	mmBtu/hr	159.85	153.71	147.85	136.56	131.13	116.58
Heat Rate*	Btu/kW-hr	9897	9859	9832	9850	9924	10765
Therm Eff*	%	34.478	34.611	34.704	34.641	34.383	31.695
Engine Exhaust Flow	lbm/hr	410727	399730	389438	367455	356316	320232
PT Exit Temperature	deg F	911	916	921	938	949	998
Exhaust Temperature	deg F	911	916	921	938	949	998

Fuel Gas Composition (Volume Percent)	Methane (CH4)	92.79
	Ethane (C2H6)	4.16
	Propane (C3H8)	0.84
	N-Butane (C4H10)	0.18
	N-Pentane (C5H12)	0.04
	Hexane (C6H14)	0.04
	Carbon Dioxide (CO2)	0.44
	Hydrogen Sulfide (H2S)	0.0001
	Nitrogen (N2)	1.51

Fuel Gas Properties	LHV (Btu/Scf)	939.2	Specific Gravity	0.5970	Wobbe Index at 60F	1215.6
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*Electric power measured at the generator terminals.

This performance was calculated with a basic inlet and exhaust system. Special equipment such as low noise silencers, special filters, heat recovery systems or cooling devices will affect engine performance. Performance shown is "Expected" performance at the pressure drops stated, not guaranteed.