

## ENGINE DATA

Manufacturer :		MTU/Detroit Diesel	
Model :		16V2000G82 , 4-cycle, Turbo , Air/Air DC	
Cylinder Arrangement :		16 X V	
Displacement :		31.9 L (1946.7 C.I.)	
Bore and Stroke :		130 mm (5.1 in.)X 150 mm (5.9 in.)	
Compression ratio :		14 : 1	
Rated RPM :		1800 Rpm	
Piston Speed :		9 m/s (29.5 ft./s)	
Max. Power at rated RPM :		1115 kW (1494 BHP)	
Frequency regulation, no load to full load :		Isochronous	
Frequency regulation, steady state :		0.25 %	
BMEP :		19.4 bar (281 psi)	
Governor : type, make		Isochronous, MDEC	
<b>Exhaust System</b>		<b>Air intake</b>	
Exhaust gas flow	3260 L/s (6908 cfm)	Max. intake restriction	150 mm CE (6 in. WG)
Exhaust temperature	515 °C (959 °F)	Engine air flow	1.2 L/s (3 cfm)
Max back pressure	500 mm CE (20 in. WG)	<b>Coolant System</b>	
<b>Fuel System</b>		Ambient Temperature	50°C (122°F)
100%	266 L/h (70.3 gal/hr)	Radiator & engine capacity	220 L (58.1 gal)
75%	163 L/h (43.1 gal/hr)	Max water temperature	97 °C (207 °F)
50%	114.3 L/h (30.2 gal/hr)	Outlet water temperature	93 °C (199 °F)
25%		Fan power	41 kW
Total fuel flow	1860 L/h (491.4 gal/hr)	Fan air flow	21.8 m <sup>3</sup> /s (46196 cfm)
<b>Oil System</b>		Engine heat rejection	711 kW (40427 Btu/mn)
Total oil capacity w/filters	110 L (29.1 gal)		
Oil Pressure low idle	7 bar (101.4 psi)		
Oil Pressure rated RPM	4.4 bar (63.8 psi)		