

ENGINE DATA

Manufacturer :		MTU	
Model :		12V2000G42 , 4-cycle, Turbo , Air/Air DC	
Cylinder Arrangement :		12 X V	
Displacement :		23.9 L (1458.5 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 :		735 kW (985 BHP)	
Frequency regulation, no load to full load :		Isochronous	
Frequency regulation, steady state :		0.25 %	
BMEP :		20.5 bar (297 psi)	
Governor : type, make		Isochronous, MDEC	
Exhaust System		Air Intake	
Exhaust gas flow	2580 L/s (5467 cfm)	Max. intake restriction	150 mm CE (6 in. WG)
Exhaust temperature	500 °C (932 °F)	Engine air flow	1 L/s (2 cfm)
Max back pressure	500 mm CE (20 in. WG)	Coolant System	
Fuel System		Ambient Temperature	50°C (122°F)
100%	174 L/h (46.0 gal/hr)	Radiator & engine capacity	220 L (58.1 gal)
75%	130.5 L/h (34.5 gal/hr)	Max water temperature	97 °C (207 °F)
50%	90.5 L/h (23.9 gal/hr)	Outlet water temperature	93 °C (199 °F)
25%		Fan power	27 kW
Total fuel flow	1860 L/h (491.4 gal/hr)	Fan air flow	14.7 m3/s (31151 cfm)
Oil System		Engine heat rejection	556 kW (31614 Btu/mn)
Total oil capacity w/filters	82 L (21.7 gal)		
Oil Pressure low idle	7 bar (101.4 psi)		
Oil Pressure rated RPM	4.4 bar (63.8 psi)		