

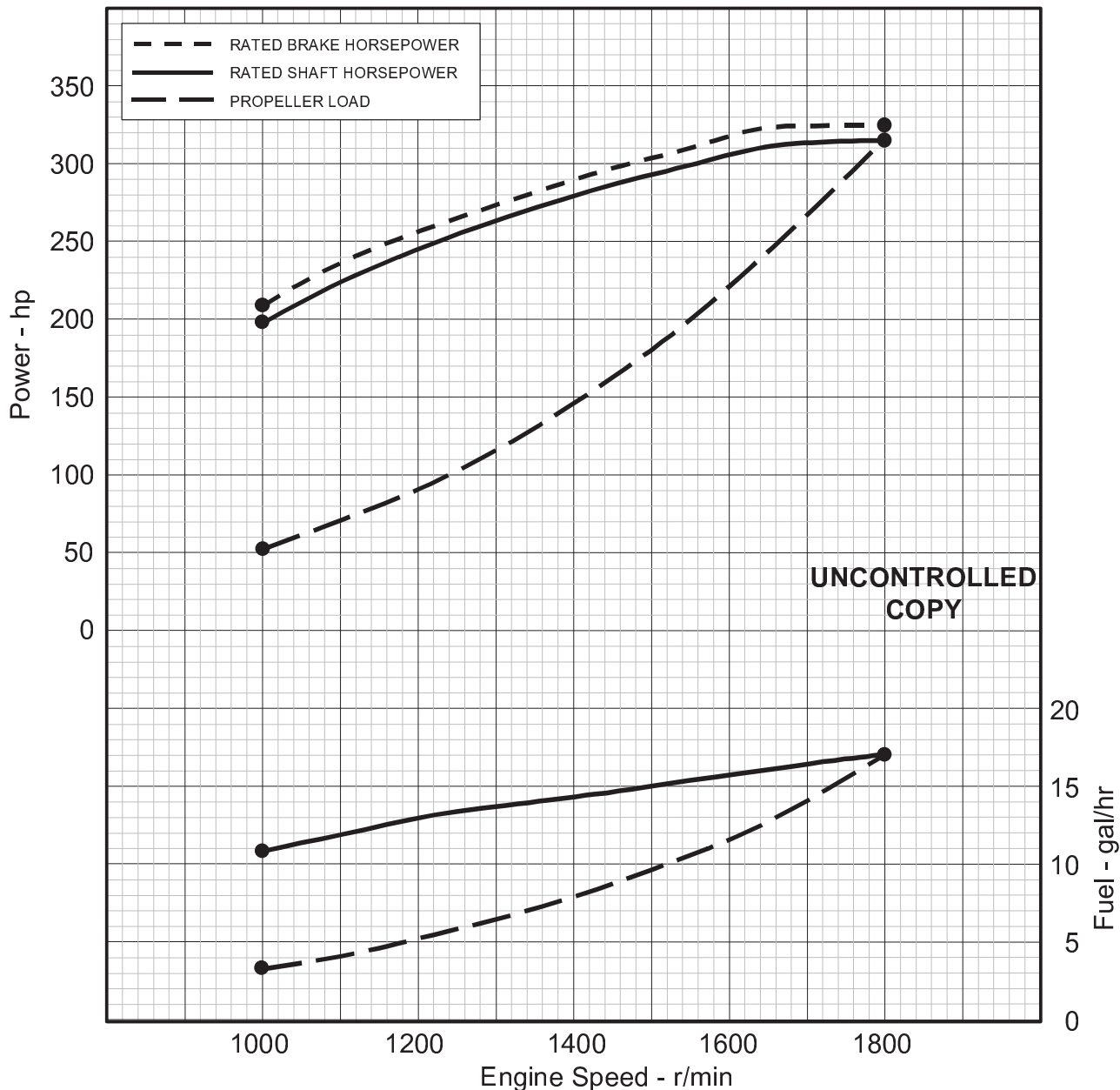


Marine Power

Model: 6V-92TA DDEC®

Rating: 325 bhp (242 kW) @ 1800 r/min
312 shp (423 kW) @ 1800 r/min

Continuous
Net Power



<p>Power output guaranteed within 5% SAE J1228 conditions: 77°F (25°C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer; 100°F (38°C) fuel inlet temperature; .853 specific gravity at 60°F. Power rated in accordance with NMMA Procedure Air intake restriction: 10 in. H₂O (2.5 kPa) Exhaust Back Pressure: 15 in. H₂O (3.7 kPa)</p>	<p><i>Conversion Factors:</i> Power: kW = bhp x 0.746 Fuel: kg/kW·hr = lb/bhp·hr x 0.608 Torque: N·m = lb·ft x 1.356</p>	<p>Turbo: TV7308 (1.08 A/R) Injector: 5234915 Accessories: DD-5111V Gear Alternator: 24V, 75A Raw Water Pump: Optional</p>
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Certified by:  T.J. MOORE

Curve No. E4-8062-32-16
Rev. / Date: 1 / 12-7-98
Sheet No. 1 of 2

Performance Curve

MARINE SPECIFICATION SHEET

General Data

Model	8062-7K20
Number of Cylinders.....	6
Bore and Stroke – in. x in. (mm x mm).....	4.84 x 5.00 (123 x 127)
Displacement – in. ³ (L).....	552 (9.05)
Compression Ratio.....	17.0:1
Piston Speed – ft/min (m/min).....	1500 (457)
Exhaust Valves.....	4
Combustion System.....	Direct Injection
Engine Type.....	63.5 ° VEE 2 Cycle
Aspiration.....	Turbocharged

Configuration

Injection Device.....	EUI
Turbocharger.....	TV7308 (1.08 A/R)
Charge Air Cooling System.....	JWAC
Blower Type.....	100% Standard Bypass
Blower Drive Ratio.....	2.05:1
Low Idle Speed – r/min.....	550
Maximum No Load Speed – r/min.....	1900
Engine Crankcase Vent System.....	Closed

Physical Data

Size:	WITH GEAR	WITHOUT GEAR
Length – in. (mm).....	64.9 (1650)	46.7 (1185)
Width – in. (mm).....	41.6 (1057)	41.6 (1057)
Height – in. (mm).....	46.9 (1190)	46.9 (1190)
Weight, dry – lb (kg).....	3280 (1468)	2725 (1238)
Weight, wet – lb (kg).....	3493 (1585)	2917 (1323)
Center of Gravity Distance:		
From R.F.O. Flange/Blk. (x axis) – in. (mm).....	Not Available	9.46 (713)
Above Output Shaft (y axis) – in. (mm).....	Not Available	13.28 (313)
Right of Output Shaft (z axis) – in. (mm).....	Not Available	-1.74 (44.0)
Installation Drawing.....	SK10863	

Mechanical Data

E4-8000-00-1

Marine Gear

Type.....	DD-5111V
Reduction Ratio.....	3.1:1
Lube Oil Capacity– qt (L).....	11.2 (10.6)
(marine gear must use straight viscosity oil)	
Gear Weight, dry – lb (kg).....	490 (222)
Center of Gravity Distance:	
From Mounting Face (x axis) – in. (mm).....	Not Available
Above Output Shaft (y axis) – in. (mm).....	Not Available
Right of Output Shaft (z axis) – in. (mm).....	Not Available

Fuel System

Fuel Injector.....	5234915
Injector Timing – in.	1.520
Fuel Consumption – lb/hr (kg/hr).....	118.5 (53.8)
Fuel Spill Rate gal/hr (L/hr).....	68.0 (257.4)
Total Fuel Flow gal/hr (L/hr).....	85.0 (321.6)
Maximum Fuel Inlet Temperature – °F (°C).....	140 (60)
Maximum Fuel Pump Suction:	
Clean System – in. Hg (kPa).....	6 (20.3)
Dirty System – in. Hg (kPa).....	12 (41)
Fuel Filter Size, Primary – microns.....	30
Fuel Filter Size, Secondary – microns.....	10
Recommended Supply Line I.D. – in. (mm).....	0.5 (12.7)

Lubrication System

Oil Pressure at Rated Speed – lb/in. ² (kPa).....	49-70 (338-483)
Oil Pressure at Low Idle – lb/in. ² (kPa).....	5.0 (34)
In Pan Oil Temperature – °F (°C).....	200 – 250 (93 – 121)
Oil Flow – gal/min (L/min).....	34 (121)
Oil Pan Capacity at Installation Angle	0° 15°
High Limit – qt (L).....	19.2 (18.2) 18.2 (17.2)
Low Limit – qt (L).....	14.2 (13.4) 16.3 (15.4)
Total Engine Oil Capacity with Filters – qt (L).....	21.2 (20.1) 20.2 (19.1)
Maximum Installation Angle - Degrees.....	15.0

Electrical System

Recommended Battery Capacity (CCA @ 0°F):	
12 Volt System, Above 32°.....	1900
12 Volt System, Below 32°.....	2500
24 Volt System, Above 32°.....	950
24 Volt System, Below 32°.....	1250
Maximum Resistance of Starting Circuit:	
12 Volt System – ohms.....	0.0012
24 Volt System – ohms.....	0.002

Cooling System

Engine Heat Rejection – Btu/min (kW).....	9915 (174.3)
Engine Radiated Heat – Btu/min (kW).....	540 (9.5)
Coolant Flow:	
Fresh Water Flow – gal/min (L/min).....	140 (530)
Raw Water Flow – gal/min (L/min).....	88 (333)
Maximum Water Pump:	Fresh Water Raw Water
Inlet Restriction – in. Hg (kPa).....	3.0 (10.2) 5.0 (17.0)
Fresh Water Capacity – qt (L).....	72 (68)
Maximum Coolant Pressure	
(Exclusive of Pressure Cap) – lb/in. ² (kPa).....	11.5 (79.3)
Maximum Raw Water Pump Pressure – lb/in. ² (kPa).....	14 (97)
Maximum Top Tank Temperature – °F (°C).....	210 (99)
Recommended Raw Water Pipe I.D.	
Inlet – in. (mm).....	4.0 (152)
Outlet – in. (mm).....	3.0 (76)
Recommended Sea Strainer Size:	
(Max. Screen Opening – 2.0 mm)	
Simplex – in. (mm).....	3.0 (76)
Duplex – in. (mm).....	4.0 (102)

Air System

Maximum Temperature Rise	
(Ambient Air to Engine Inlet) – °F (°C).....	30 (16.7)
Maximum Air Intake Restriction:	
Clean Air Cleaner – in. H ₂ O (kPa).....	12 (3.0)
Dirty Air Cleaner – in. H ₂ O (kPa).....	20 (5.0)
Engine Air Flow – ft ³ /min (m ³ /min).....	1090 (30.9)
Air Box Pressure – in. Hg (kPa).....	52.0 (175.6)
Recommended Intake Pipe Dia. – in. (mm).....	6.0 (152)
Minimum Net Engine Room Vent Area, – in. ² (cm ²).....	105 (675)
Maximum Crankcase Pressure – in. H ₂ O (kPa).....	2.5 (0.62)

Exhaust System

Exhaust Flow – ft ³ /min (m ³ /min).....	2240 (63.4)
Exhaust Temperature – °F (°C).....	625 (329)
Maximum Back Pressure – in. Hg (kPa).....	2.5 (8.4)
Recommended Exhaust Pipe Diameter:	Dry Wet
Single – in. (mm).....	5.0 (127) 6 (152)
Dual – in. (mm).....	Not Applicable

Performance Data

BMEP – lb/in. ² (kPa).....	129.5 (893)
Friction Power – fhp (kW).....	60 (45)

Engine Speed	Brake Power	Shaft Power	Rated Fuel Usage	Rated BSFC
r/min	bhp (kW)	shp (kW)	gal/hr-(L/hr)	lb/bhp-hr (g/kW-hr)
1800	325 (242)	312 (233)	17.0 (64.2)	0.365 (222)
1600	316 (236)	303 (226)	15.6 (59.2)	0.346 (210)
1400	288 (215)	276 (206)	14.2 (53.9)	0.345 (210)
1200	255 (190)	244 (182)	12.9 (49)	0.355 (216)
1000	208 (155)	198 (148)	10.8 (10)	0.364 (221)

Engine Speed	Prop Load	Prop Fuel Usage	Prop BSFC
r/min	shp (kW)	gal/hr-(L/hr)	lb/bhp-hr (g/kW-hr)
1800	312 (233)	17.0 (64.2)	0.365 (222)
1600	219 (163)	11.5 (43.6)	0.351 (213)
1400	147 (110)	7.9 (30.1)	0.358 (218)
1200	92 (69)	5.4 (20.3)	0.378 (230)
1000	53 (40)	3.4 (12.9)	0.402 (244)

Emissions Data

Smoke, Rated Speed – Bosch Number.....	0.3
Noise – dB(A) @ 1.....	98.5
Additional Noise Data.....	Not Available
NO _x – g/hr.....	3055
CO – g/hr.....	355
HC – g/hr.....	94
SO ₂ – g/hr.....	538

UNCONTROLLED
COPY

All values are at rated speed and power at SAE J1228 with standard engine hardware, unless otherwise noted.

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All information subject to change without notice.

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