RUN HARD. DREAM BIG.™

Cummins Marine

ENGINE SPECIFICATIONS

Configuration	In-line 4 Cylinder, 4-Stroke Diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	3.9 L (239 in^3)
Rotation	Counterclockwise facing flywheel

POWER RATINGS

Power Rating	Medium Continuous		Intermittent	
Aspiration	Naturally Aspirated	Turbocharged	Naturally Aspirated	Turbocharged
Rated RPM	2500	2500	2800	2800
kW (BHP)	57 (76)	97 (130)	60 (80)	112 (150)
Max Torque N·m (ft-lb) RPM	185 (136) 1200	280 (207) 2200	185 (136) 1200	300 (221) 2200

FEATURES AND BENEFITS

Engine Design
Compact size for ease of installation with easy access for routine maintenance. Four stroke cycle combusion for quiet and fuel efficient operation.

Cooling System
Heat exchanger or keel cooled configurations available for application flexibility.

Fuel System
CAV rotary fuel pump.

Lubrication System
9.5 L (2.5 g) marine grade, cast aluminum oil pan. Spin-on Fleetguard lube oil filters.

Electrical System
12-volt and 24-volt systems available. Marine grade wiring harness and instrument panels.

Manufacturing
ISO certified plants.

U.S. Navy Certified
Tested and certified for the U.S. Navy's 1,000-hour abuse cycle test.

AVAILABLE ACCESSORIES

Air Cleaner: Light or heavy duty.
Auxiliary Pump
Hydraulic Pump Drive: SAE A or B flange.
Walker Air Sep: Closed crankcase ventilation system.
Accessory Drive Pulley: Belt or gear driven.
Marine Classification Society Approvals: Check with your local Cummins professional for an updated listing.

4B/4BT

MARINE

57-112 KW
76-150 HP

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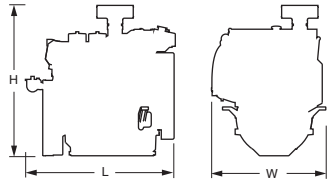
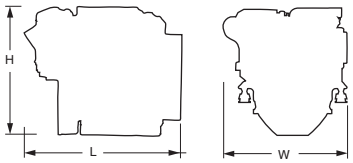
Engine Dimensions

		Length		Width		Height		Weight	
		mm	in	mm	in	mm	in	kg	lb
Keel Cooled	NA	790	31	711	28	894	35	381	840
	T	779.9	30.70	703.7	27.7	771.2	30.36	390	860
Heat Exchanger	NA	790	31	711	28	894	35	414	912
	T	779.9	30.70	703.7	27.7	771.2	30.36	423	932

NA - Naturally Aspirated
T - Turbocharged



Naturally Aspirated



Turbocharged

Performance Data

Rating	Medium Continuous (NA)				Medium Continuous (T)			
rpm	2500	2300	2100	1900	2500	2300	2100	1900
kW	57	44	34	25	97	75	57	43
g/kW-hr	228	231	225	228	214	220	228	236
L/hr	15.5	12.1	9.1	6.8	24.8	19.7	15.5	12.1
bhp	76	59	45	34	130	101	77	57
lb/hp-hr	.378	.380	.373	.371	350	.360	.373	.393
gal/hr	4.1	3.2	2.4	1.8	6.5	5.2	4.1	3.2

Rating	Intermittent (NA)				Intermittent (T)			
rpm	2800	2600	2400	2200	2800	2600	2400	2200
kW	60	48	37	29	112	90	70	54
g/kW-hr	239	225	222	220	216	219	218	224
L/hr	17.1	12.9	9.8	7.6	28.8	23.5	18.2	14.4
bhp	80	64	50	39	150	120	94	73
lb/hp-hr	.394	.372	.364	.359	.355	.362	.357	.364
gal/hr	4.5	3.4	2.6	2.0	7.6	6.2	4.8	3.8

Above data represents performance along a 3.0 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16 °C (60 °F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29 °C (85 °F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ± 3% of rated horsepower. Cummins has always been a pioneer in product improvement. Thus specifications may change without notice. Consult your local Cummins professional for further information.

Rating Definitions
Ratings are based on ISO 8665 conditions of 100kPa(29.612 in Hg) and 25 °C (77 °F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Medium Continuous Duty
Intended for continuous use in variable load applications where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This rating is an ISO 3046 fuel stop power rating and is for applications that operate less than 3,000 hours per year.

Intermittent Duty
Intended for intermittent use in variable load applications where full power is limited to two hours out of every eight hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This rating is an ISO 3046 fuel stop power rating and is intended for applications that operate less than 1,500 hours per year.

Cummins Marine

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Bulletin 4000129 Printed in U.S.A. Rev. 6/01