

CUMMINS

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155B

M A R I N E
1 1 2 K W
1 5 5 H P

ENGINE SPECIFICATIONS

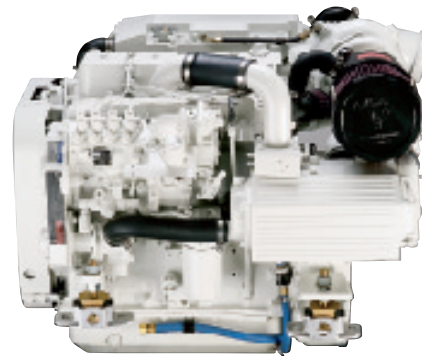
Configuration	In-line 4-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	3.9 L (239 in ³)
Rotation	Counterclockwise facing flywheel
Weight	390 kg (860 lb)

POWER RATINGS

High Output		
Crankshaft Power ¹	112 kW	155 hp
Crankshaft Power ²	112 kW	150 bhp
Rated Speed	2800 rpm	2800 rpm

¹ Technical data according to ISO 3046 fuel stop power. Fuel 25°C (77°F)

² Technical data according to ISO 8665 fuel stop power. Fuel 40°C (104°F)



Engine pictured may not be exact specification.

FUEL CONSUMPTION (PROP CURVE)

Rating	High Output						
RPM	2800	2500	2200	2000	1800	1500	1200
L/hr	28.8	21.2	15.1	11.7	8.7	5.7	3.4
g/hr	7.6	5.6	4.0	3.1	2.3	1.5	0.9

Fuel consumption 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). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice.

ENGINE DIMENSIONS

Length		Width		Height	
mm	in	mm	in	mm	in
779.9	30.7	703.7	27.7	771.2	30.36

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.

High Output

This power rating is intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.

Marine Engine Performance Data

Curve No. M-90197
DS-4959
CPL: 0741
DATE: 12May99

General Engine Data*

Engine Model.....	155B
Rating Type	High Output
Rated Engine Power..... kW [HP, Metric]	112 [155]
Rated Engine Speed	RPM 2800
High Idle Speed Range	RPM 2968 - 3080
Idle Speed Range.....	RPM 700 - 900
Engine Torque	Nm [ft/lb] 381[281]
Brake Mean Effective Pressure	kPa [PSI] 1222 [177]
Compression Ratio.....	16.5:1
Piston Speed	m/sec [ft/min] 11.2 [2205]
Maximum Torque Capacity from Front of Crank**	
Firing Order	1-3-4-2

Fuel System*

Fuel Consumption	litre/hr [GPH] 28.8 [7.6]
Approximate Fuel Flow to Pump	litre/hr [GPH] 37 [10]
Fuel Transfer Pump Pressure Range.....	kPa [PSI] 3.5-69 [0.5-10]

Weight (Dry)

Engine Only.....	kg [lb] 390 [860]
With Heat Exchanger Cooling System	kg [lb] +33 [72]

Air System*

Intake Manifold Pressure.....	mm Hg [in Hg] 711 [28]
Intake Air Flow	litre/sec [CFM] 130 [270]
Heat Rejection to Ambient.....	kW [BTU/min] 14 [800]
Minimum Ambient Temperature for Cold Start (No Aids)	°C [°F] 0 [32]

Exhaust System*

Exhaust Gas Flow (after turbine)	litre/sec [CFM] 320 [700]
Exhaust Gas Temperature (after turbine)	°C [°F] 482 [900]

Cooling System*

Heat Rejection to Coolant.....	kW [BTU/min] 95 [5400]
Engine Water Flow	litre/min [GPM] 189 [50]
Raw Water Flow	litre/min [GPM] 87 [23]
Pressure Cap Rating w/Heat Exchanger.....	kPa [PSI] 103 [15]

INSTALLATION DIAGRAMS:

Engine Only	3884676
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*All Data at Rated Conditions

**Consult Installation Direction Booklet for Limitations

CUMMINS ENGINE COMPANY, INC.
COLUMBUS, INDIANA

RUN HARD. DREAM BIG.™



220B

M A R I N E
1 5 7 K W
2 2 0 H P

ENGINE SPECIFICATIONS

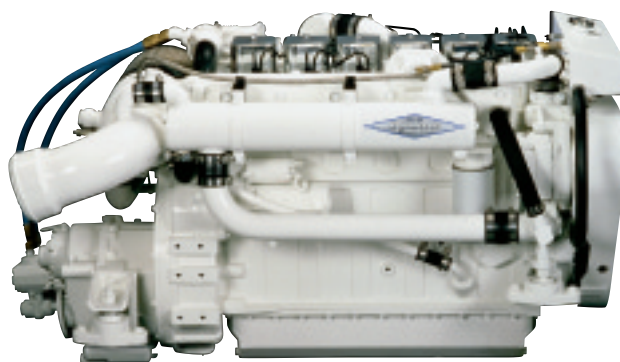
Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	5.9 L (359 in ³)
Rotation	Counterclockwise facing flywheel
Weight	466 kg (1,025 lb)

POWER RATINGS

High Output		
Crankshaft Power ¹	157 kW	220 hp
Crankshaft Power ²	157 kW	210 bhp
Rated Speed	2600 rpm	2600 rpm

¹ Technical data according to ISO 3046 fuel stop power. Fuel 25°C (77°F)

² Technical data according to ISO 8665 fuel stop power. Fuel 40°C (104°F)



Engine pictured may not be exact specification.

FUEL CONSUMPTION (PROP CURVE)

Rating	High Output						
RPM	2600	2400	2200	2000	1800	1600	1200
L/hr	44.9	35.7	28.2	22.2	17.4	13.2	8.0
g/hr	11.9	9.4	7.4	5.9	4.6	3.5	2.1

Fuel consumption 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). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice.

ENGINE DIMENSIONS

Length		Width		Height	
mm	in	mm	in	mm	in
1073.65	42.27	710.9	27.99	812.2	31.98

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.

High Output

This power rating is intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.



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General Engine Data

Engine Model.....	220B
Rating Type.....	High Output
Rated Engine Power	157 [220]
Rated Engine Speed.....	2600
Rated HP Production Tolerance	±5
Rated Engine Torque	575 [424]
Peak Engine Torque @ 1700 RPM	719 [530]
Brake Mean Effective Pressure	1287 [187]
Minimum Idle Speed Setting	700
Normal Idle Speed Variation	±50
High Idle Speed Range - Minimum	2808
High Idle Speed Range - Maximum	2912
Maximum Torque Capacity from Front of Crank ²	N.A.
Compression Ratio	16.5:1
Piston Speed.....	10.4 [2045]
Firing Order.....	1-5-3-6-2-4
Weight (Dry) Engine Only - Average	N/A
Weight (Dry) Engine With Heat Exchanger System - Average	508 [1120]

Fuel System¹

Approximate Fuel Flow to Pump	53 [14]
Maximum Allowable Fuel Supply to Pump Temperature	60 [140]
Approximate Fuel Flow Return to Tank	8 [2]
Approximate Fuel Return to Tank Temperature	N.A.
Maximum Heat Rejection to Drain Fuel⁵	N.A.
Fuel Transfer Pump Pressure.....	34 [5]

Air System¹

Intake Manifold Pressure	1321 [52]
Intake Air Flow	236 [500]
Heat Rejection to Ambient	21 [1200]

Exhaust System¹

Exhaust Gas Flow.....	543 [1150]
Exhaust Gas Temperature (Turbine Out).....	438 [820]
Exhaust Gas Temperature (Manifold).....	155 [310]

Emissions (in accordance with ISO8178 Cycle E3)

NOx (Oxides of Nitrogen)	8.23 [6.14]
HC (Hydrocarbons).....	0.78 [0.58]
CO (Carbon Monoxide).....	1.84 [1.37]
PM (Particulate Matter).....	N.A.

Cooling System¹

Coolant Flow to Engine Heat Exchanger/Keel Cooler.....	174 [46]
Standard Thermostat Operating Range (Min.)	83 [181]
Standard Thermostat Operating Range (Max.)	95 [203]
Heat Rejection to Engine Coolant ³	139 [7,900]
Sea Water Flow (With Heat Exchanger Option) ⁴	83 [22]
Pressure Cap Rating (With Heat Exchanger Option).....	103 [15]

INSTALLATION DRAWINGS

With Twin Disc MG 502-1 Marine Gear	3884426-A
With Twin Disc MG 5011-A Marine Gear.....	3884826
With ZF IRM-220A Marine Gear	3884425-A

TBD = To Be Decided

N/A = Not Applicable

N.A. = Not Available

¹All Data at Rated Conditions

²Consult Installation Direction Booklet for Limitations

³Heat rejection values are based on 50% water/ 50% ethylene glycol mix and do NOT include fouling factors. If sourcing your own cooler, a service fouling factor should be applied according to the cooler manufacturer's recommendation.

⁴Consult option notes for flow specifications of optional Cummins seawater pumps, if applicable.

⁵May not be at rated load and speed. Maximum heat rejection may occur at other than rated conditions.

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COLUMBUS, INDIANA

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RUN HARD. DREAM BIG.™



270B

M A R I N E
1 9 4 K W
2 7 0 H P

ENGINE SPECIFICATIONS

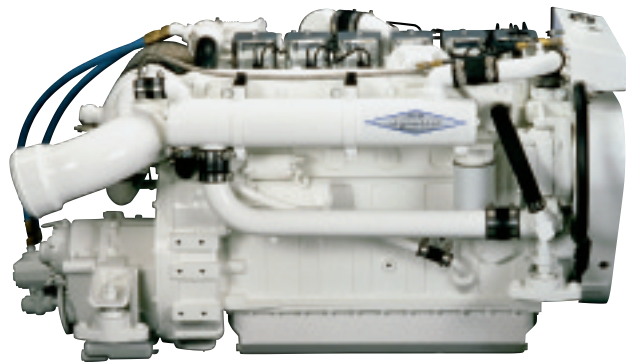
Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	5.9 L (359 in ³)
Rotation	Counterclockwise facing flywheel
Weight	581 kg (1,280 lb) SW 517 kg (1,140 lb) JW

POWER RATINGS

High Output*		
Crankshaft Power ¹	194 kW	270 hp
Crankshaft Power ²	194 kW	260 bhp
Rated Speed	2600 rpm	2600 rpm

¹ Technical data according to ISO 3046 fuel stop power. Fuel 25°C (77°F)

² Technical data according to ISO 8665 fuel stop power. Fuel 40°C (104°F)



Engine pictured may not be exact specification.

FUEL CONSUMPTION (PROP CURVE)

Rating	High Output							
RPM	2600	2400	2200	2000	1800	1600	1400	1200
L/hr	56.8	42.4	32.3	24.7	18.5	14.5	11.0	7.8
g/hr	15.0	11.2	8.5	6.5	4.9	3.8	2.9	2.1

Fuel consumption 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). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice.

ENGINE DIMENSIONS

	Length		Width		Height	
	mm	in	mm	in	mm	in
SW	1041	41	816	32.15	771.2	30.4
JW	1028.1	40.48	825.9	32.52	837.2	32.96

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.

High Output

This power rating is intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.



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Marine Engine Performance Data

General Engine Data

Engine Model	270B
Rating Type	High Output
Rated Engine Power kW [HP, Metric]	194 [270]
Rated Engine Speed	2600 RPM
Rated HP Production Tolerance	±5 %
Rated Engine Torque	739 [545] N•m [ft/lb]
Peak Engine Torque @ 1800	925 [682] N•m [ft/lb]
Brake Mean Effective Pressure	1558 [226] kPa [PSI]
Minimum Idle Speed Setting	600 RPM
Normal Idle Speed Variation	50 RPM
High Idle Speed Range - Minimum	2900 RPM
High Idle Speed Range - Maximum	3000 RPM
Maximum Torque Capacity from Front of Crank ²	N.A. N•m [ft/lb]
Compression Ratio	15.3:1
Piston Speed	10.4 [2047] m/sec [ft/min.]
Firing Order	1-5-3-6-2-4
Weight (Dry) Engine Only - Average	N/A kg [lb]
Weight (Dry) Engine With Heat Exchanger System - Average	517 [1140] kg [lb]

Fuel System¹

Approximate Fuel Flow to Pump	litre/hr [GPH]	238 [63]
Max. Allowable Fuel Inlet to Pump Temperature	°C [°F]	60 [140]
Approximate Fuel Flow Return to Tank	l/hr [gal/hr]	182 [48]
Approximate Fuel Return to Tank Temperature	°C [°F]	41 [106]
Maximum Heat Rejection to Drain Fuel ⁵	kW [BTU/min]	2 [118]
Fuel Transfer Pump Pressure	kPa [PSI]	152 [22]

Air System¹

Intake Manifold Pressure	mm Hg [in. Hg]	1575 [62]
Intake Air Flow	litre/sec [CFM]	276 [585]
Heat Rejection to Ambient	kW [BTU/min.]	20 [1163]

Exhaust System¹

Exhaust Gas Flow	litre/sec [CFM]	642 [1360]
Exhaust Gas Temperature (Turbine Out)	°C [°F]	455 [850]
Exhaust Gas Temperature (Manifold)	°C [°F]	N.A.

Emissions (in accordance with ISO8178 Cycle E3)

NO _x (Oxides of Nitrogen)	g/kw-hr [g/bhp-hr]	7.99 [5.96]
HC (Hydrocarbons)	g/kw-hr [g/bhp-hr]	N.A.
CO (Carbon Monoxide)	g/kw-hr [g/bhp-hr]	N.A.
PM (Particulate Matter)	g/kw-hr [g/bhp-hr]	N.A.

Cooling System¹

Coolant Flow to Engine Heat Exchanger/Keel Cooler	litre/min. [GPM]	151 [40]
Standard Thermostat Operating Range (Min.)	°C [°F]	83 [181]
Standard Thermostat Operating Range (Max.)	°C [°F]	95 [203]
Heat Rejection to Engine Coolant ³	kW [BTU/min.]	170 [9,700]
Sea Water Flow (With Heat Exchanger Option) ⁴	litre/min. [GPM]	193 [51]
Pressure Cap Rating (With Heat Exchanger Option)	kPa [PSI]	103 [15]

INSTALLATION DRAWING

..... 3884673

TBD = To Be Decided

N/A = Not Applicable

N.A. = Not Available

¹All Data at Rated Conditions

²Consult Installation Direction Booklet for Limitations

³Heat rejection values are based on 50% water/ 50% ethylene glycol mix and do NOT include fouling factors. If sourcing your own cooler, a service fouling factor should be applied according to the cooler manufacturer's recommendation.

⁴Consult option notes for flow specifications of optional Cummins seawater pumps, if applicable.

⁵May not be at rated load and speed. Maximum heat rejection may occur at other than rated conditions.

CUMMINS ENGINE COMPANY, INC.
COLUMBUS, INDIANA

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RUN HARD. DREAM BIG.™



330B

M A R I N E
2 3 5 K W
3 3 0 H P

ENGINE SPECIFICATIONS

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	5.9 L (359 in ³)
Rotation	Counterclockwise facing flywheel
Weight	581 kg (1,280 lb) SW 517 kg (1,140 lb) JW

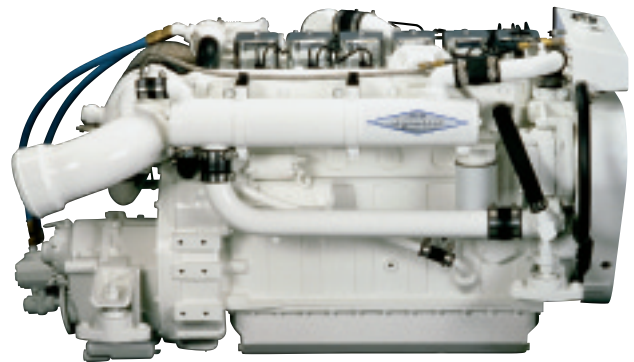
POWER RATINGS

High Output*		
Crankshaft Power ¹	235 kW	330 hp
Crankshaft Power ²	235 kW	315 bhp
Rated Speed	2800 rpm	2800 rpm

¹ Technical data according to ISO 3046 fuel stop power. Fuel 25°C (77°F)

² Technical data according to ISO 8665 fuel stop power. Fuel 40°C (104°F)

* IMO emissions compliant. Certification available from the US Environmental Protection Agency and Lloyd's Register of Shipping.



Engine Pictured may not be exact specification.

FUEL CONSUMPTION (PROP CURVE)

Rating	High Output							
RPM	2800	2600	2400	2200	2000	1800	1600	1400
L/hr	63.7	50.5	40.1	31.6	25.4	19.7	14.9	10.7
g/hr	16.8	13.4	10.6	8.4	6.7	5.2	3.9	2.8

Fuel consumption 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). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice.

ENGINE DIMENSIONS

	Length		Width		Height	
	mm	in	mm	in	mm	in
SW	1041	41	816	32.15	771.2	30.4
JW	1028.1	40.48	825.9	32.52	837.2	32.96

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.

High Output

This power rating is intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.



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Marine Engine Performance Data

Curve No. M-90208
DS-4960
CPL: 1975
DATE: 30Nov00

General Engine Data

Engine Model	330B (SW)
Rating Type	High Output
Rated Engine Power	235 [330]
Rated Engine Speed	2800
Rated HP Production Tolerance	±5
Rated Engine Torque.....	839 [619]
Peak Engine Torque @ 2000 RPM	926 [683]
Brake Mean Effective Pressure.....	1793 [260]
Minimum Idle Speed Setting	600
Normal Idle Speed Variation	±50
High Idle Speed Range - Minimum	3100
High Idle Speed Range - Maximum	3200
Maximum Torque Capacity from Front of Crank ²	N.A.
Compression Ratio.....	15.3:1
Piston Speed.....	11.2 [2203]
Firing Order	1-5-3-6-2-4
Weight (Dry) Engine Only - Average	N/A
Weight (Dry) Engine With Heat Exchanger System - Average	581 [1280]

Fuel System¹

Approximate Fuel Flow to Pump	litre/hr [GPH]	258 [68]
Maximum Allowable Fuel Supply to Pump Temperature	°C [°F]	60 [140]
Approximate Fuel Flow Return to Tank	litre/hr [GPH]	N.A.
Approximate Fuel Return to Tank Temperature.....	°C [°F]	N.A.
Maximum Heat Rejection to Drain Fuel⁵	kW [BTU/min]	N.A.
Fuel Transfer Pump Pressure Range	kPa [PSI]	124-172 [18-25]

Air System¹

Intake Manifold Pressure	mm Hg [in. Hg]	1422 [56]
Intake Air Flow	litre/sec [CFM]	310 [657]
Heat Rejection to Ambient	kW [BTU/min.]	N.A.

Exhaust System¹

Exhaust Gas Flow	litre/sec [CFM]	723 [1531]
Exhaust Gas Temperature (Turbine Out)	°C [°F]	485 [905]
Exhaust Gas Temperature (Manifold).....	°C [°F]	N.A.

Emissions (in accordance with ISO8178 Cycle E3)

NOx (Oxides of Nitrogen)	g/kw-hr [g/bhp-hr]	7.97 [5.94]
HC (Hydrocarbons)	g/kw-hr [g/bhp-hr]	0.30 [0.22]
CO (Carbon Monoxide)	g/kw-hr [g/bhp-hr]	1.73 [1.29]
PM (Particulate Matter)	g/kw-hr [g/bhp-hr]	0.21 [0.16]

Cooling System¹

Coolant Flow to Engine Heat Exchanger/Keel Cooler	litre/min. [GPM]	189 [50]
Standard Thermostat Operating Range (Min.)	°C [°F]	83 [181]
Standard Thermostat Operating Range (Max.).....	°C [°F]	95 [203]
Heat Rejection to Engine Coolant ³	kW [BTU/min.]	149 [8,500]
Sea Water Flow (With Heat Exchanger Option) ⁴	litre/min. [GPM]	208 [55]
Pressure Cap Rating (With Heat Exchanger Option).....	kPa [PSI]	103 [15]

INSTALLATION DRAWING

Engine Only	3626425
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TBD = To Be Decided

N/A = Not Applicable

N.A. = Not Available

¹All Data at Rated Conditions

²Consult Installation Direction Booklet for Limitations

³Heat rejection values are based on 50% water/ 50% ethylene glycol mix and do NOT include fouling factors. If sourcing your own cooler, a service fouling factor should be applied according to the cooler manufacturer's recommendation.

⁴Consult option notes for flow specifications of optional Cummins seawater pumps, if applicable.

⁵May not be at rated load and speed. Maximum heat rejection may occur at other than rated conditions.

CUMMINS ENGINE COMPANY, INC.
COLUMBUS, INDIANA

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370B

M A R I N E
2 6 5 K W
3 7 0 H P

ENGINE SPECIFICATIONS

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	5.9 L (359 in ³)
Rotation	Counterclockwise facing flywheel
Weight	581 kg (1,280 lb) SW 517 kg (1,140 lb) JW

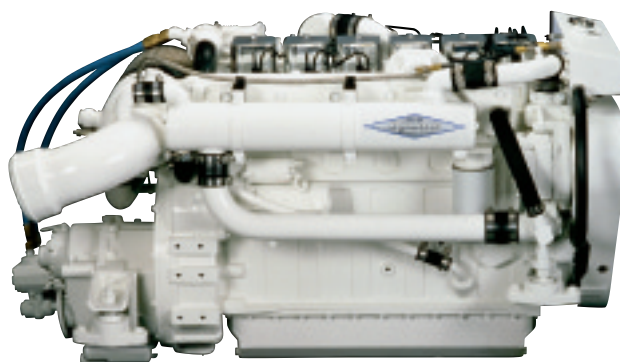
POWER RATINGS

High Output*		
Crankshaft Power ¹	265 kW	370 hp
Crankshaft Power ²	265 kW	355 bhp
Rated Speed	3000 rpm	3000 rpm

¹ Technical data according to ISO 3046 fuel stop power. Fuel 25°C (77°F)

² Technical data according to ISO 8665 fuel stop power. Fuel 40°C (104°F)

* IMO emissions compliant. Certification available from the US Environmental Protection Agency and Lloyd's Register of Shipping.



Engine Pictured may not be exact specification.

FUEL CONSUMPTION (PROP CURVE)

Rating	High Output							
RPM	3000	2800	2600	2400	2200	2000	1800	1600
L/hr	75.8	59.6	45.8	37.9	29.6	24.5	18.7	13.6
g/hr	20	15.8	12.1	10	7.8	6.5	4.9	3.6

Fuel consumption 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). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice.

ENGINE DIMENSIONS

	Length		Width		Height	
	mm	in	mm	in	mm	in
SW	1041	41	816	32.15	771.2	30.4
JW	1028.1	40.48	825.9	32.52	837.2	32.96

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.

High Output

This power rating is intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.