





# Chongqing Cummins Engine Co. Ltd.

## Propulsion Marine Engine Performance Data

Curve No.: M-178  
DS: DS-4962  
CPL: 0731  
DATE: 25-Aug-08

### General Engine Data

Engine Model.....	NT855-M
Rating Type .....	Continuous
Rated Engine Power..... hp [kW]	270 [ 201 ]
Rated Engine Speed.....rpm	1800
Peak Engine Torque @ 1500 rpm..... lb.·ft. [N·m]	866 [ 1174 ]
Brake Mean Effective Pressure.....psi [kPa]	139 [ 957 ]
Minimum Idle Speed Setting..... rpm	575-650
Normal Idle Speed Variation.....±rpm	25
High Idle Speed Range     Minimum..... rpm	1962
Maximum..... rpm	2106
Aspiration .....	Turbocharged
Compression Ratio .....	14.5:1
Piston Speed..... ft/min [m/sec]	1791 [ 9.1 ]
Weight (Dry) - Engine Only - Average.....lb. [kg]	2771 [ 1258 ]
Weight (Dry) - Engine With HeatexchangerSystem - Average.....lb. [kg]	3051 [ 1385 ]
Installation Diagram No.....	4061292

### Fuel System<sup>1</sup>

Fuel Consumption at Rated Speed.....gal/hr [l/hr]	14 [ 52 ]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	41 [ 156 ]
Maximum Allowable Fuel Supply to Pump Temperature..... ° F [ ° C]	160 [ 71 ]
Approximate Fuel Return to Tank Temperature..... ° F [ ° C]	N.A.
Maximum Heat Rejection to Drain Fuel.....BTU/min [kW]	N.A.
Fuel Pressure - Pump Out / Rail             Mechanical Gauge.....psi [kPa]	103 [ 710 ]

### Air System<sup>1</sup>

Intake Manifold Pressure.....in. Hg [kPa]	23 [ 78 ]
Intake Air Flow.....cfm [l/sce]	593 [ 280 ]
Heat Rejection to Ambient.....BTU/min [kW]	1480 [ 26 ]

### Exhaust System<sup>1</sup>

Exhaust Gas Flow.....cfm [l/sec]	1356 [ 640 ]
Exhaust Gas Temperature (Turbine Out)..... ° F [ ° C]	759 [ 404 ]
Exhaust Gas Temperature (Manifold)..... ° F [ ° C]	1029 [ 554 ]

### Cooling System<sup>1</sup>

Sea Water Pump Specifications.....MAB 0.08.17-07/16/2001	
Pressure Cap Rating (With Heat Exchanger Option).....psi [kPa]	7 [ 50 ]

### Engines without Low Temperature Aftercooler (LTA)

#### Jacket Water Aftercooled Engine (JWAC)

Coolant Flow to Engine Heat Exchanger.....gal/min [l/min]	62 [ 234 ]
Standard Thermostat Operating Range (Start to Open)..... ° F [ ° C]	180 [ 82 ]
Standard Thermostat Operating Range (Full Open)..... ° F [ ° C]	201 [ 94 ]
Heat Rejection to Engine Coolant <sup>3</sup> ..... BTU/min [kW]	9733 [ 171 ]

TBD = To Be Determined

N/A = Not Applicable

N.A. = Not Available

1. All Data at Rated Conditions.

2. Consult Installation Direction Booklet for Limitations.

3. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix.

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

## CHONGQING CUMMINS ENGINE CO. LTD.

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All Data is Subject to Change Without Notice - contact CCEC for most recent data .