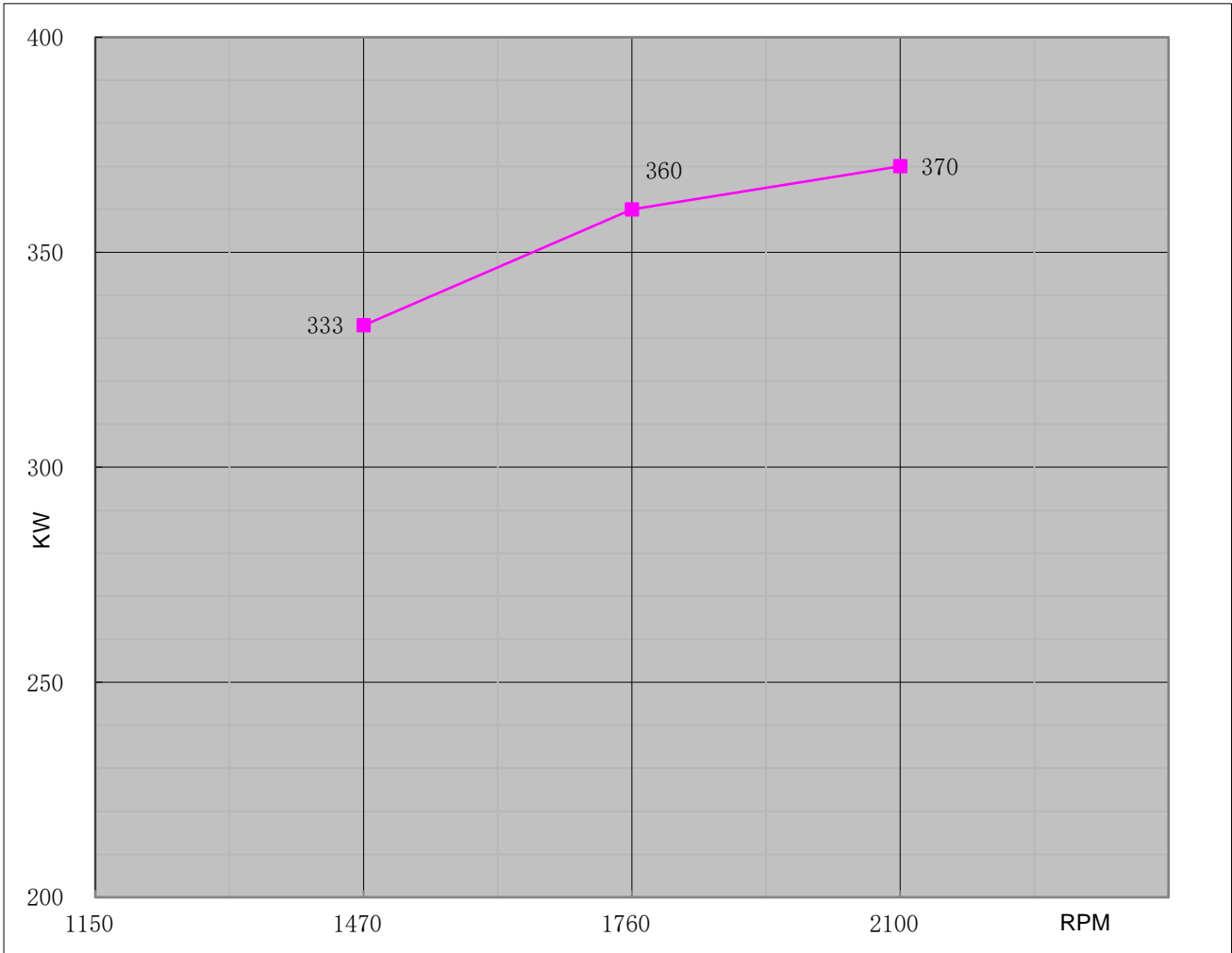




Performance Curve

Engine Model		CH8-128-E		Curve No.		C08128F	Date	2021/10/29
Displacement	14.62 L	Aspiration		Turbocharged+Water cooled		Power Standard		UL/FM
Bore	128 mm	Cylinder Qty.		8, V-Type		370 KW @ 2100 r/min		
Stroke	142 mm	Fuel System		Mechanical		496 HP @ 2100 r/min		



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1150		
1470	2162	1594
1760	1953	1441
2100	1683	1241

Output Power		
Speed	Output Power	
RPM	KW	HP
1150		
1470	333	447
1760	360	483
2100	370	496

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1150		
1470	210	0.345
1760	215	0.353
2100	230	0.378

REV: A



Engine Data Sheet

Engine Model	CH8-128-E	Date	2021/10/29
Drawing No.	CH8-128-E.00	Document No.	DS08128F
Rated Power	496 HP @2100 RPM	Performance Curve No.	C08128F
	370 KW @2100 RPM	Version	A

GENERAL ENGINE DATA

Type		4 Cycle; V-type; water cooled; 8 Cylinder	
Aspiration		Turbocharged +Water Cooled	
Bore and Stroke		mm×mm	128x142
Cylinder Liner Type		<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry
Displacement		L	14.618
Compression Ratio		14.6:1	
Firing Order		1-5-7-2-6-3-4-8	
Combustion System		Direct Injection	
Rotation Viewed from flywheel		Counter Clockwise	
Valves Per Cylinder		Intake :1 Exhaust :1	
Valves lashes at cold	Intake	mm	0.25
	Exhaust	mm	0.35
Charge Air Cooling Type		Raw Water	
Dry Weight Approx.		kg	1452
Dimension Approx. (L*W*H)		mm	1695*1401*1735
Flywheel/ Flywheel House Dimension		14"/ SAE 1	

EXHAUST SYSTEM

	Exhaust Gas Temp.	°C	572 @ 2100rpm
	Exhaust Gas Flow	m³/h	5622 @ 2100rpm
	Max. Allowable Back Pressure	kpa	9.5 @2100rpm
	Minimum Exhaust Pipe Diameter	DN	2x125
	Minimum exhaust pipe diameter is based on 6 meter of pipe, one elbow, and a silencer. Pressure drop no greater than one half the max. allowable back pressure		

AIR INTAKE SYSTEM

Air Cleaner Type	Dry Type		
Air Flow	m³/h	3156 @2100rpm	
Max. Allowable Air Inlet Restriction	kpa	6 @2100rpm	

LUBRICATION SYSTEM

Oil Capacity	L	28	
Engine Normal Operating Sump Oil Temp.	°C	80-120	
Normal Operating Oil Pressure Range	bars	3~4	
Oil Pressure at Idle	bar	>1	

COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	46	
Thermostat Range	Start Open	°C	71
	Full Open	°C	85
Coolant Pressure Cap	bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger	bar	5	
Engine Normal Operating Coolant Temp.	°C	71-98	
Engine Coolant Flow at Full Load	m³/h	40	



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)		1470	1760	2100
Raw Water Temperatures to 16 °C (m³/h)		13	15	16
Raw Water Temperatures to 38 °C (m³/h)		16.6	18.2	19.5
Raw Water Pipe Size	Raw Water Inlet	G1 1/2"		
	Raw Water Outlet	G2"		
HEATER SYSTEM				
Wattage		W	3000	
Voltage AC		V	220	
ELECTRICAL SYSTEM-DC				
System Voltage(Nominal)		V	24	
Starter motor		Kw	7	
Recommended Battery Capacity		AH	200	
Cold Cranking Amperes @ -18°C (0°F)		CCA	1000	
Charging Alternator Output		Amps	45	
FUEL SYSTEM				
Injection Pump				
Injection Advance Angle		°	18	
Minimum Supply line Size		mm	12	
Minimum Return line Size		mm	12	
Fuel Management Control		Mechanical		
Idle Speed		rpm	750	
Governed Speed Rate		%	<10	
Engine Performance Data				
All data is based on the engine operating with fuel system, lubricating oil pump, air cleaner, and alternator; not included are compressor, fan, optional equipment, and driven components.;Data is based on operation at SAE standard J1394 conditions of 300ft (91.4m) altitude, 29.61 in.(752mm) Hg dry barometer, and 77°F (25°C) intake air temperature, using 0# diesel fuel follow the standard GB 252-2011.				
Altitude above which output should be Limited		m (ft.)	91 (300)	
Correction Factor per 305m.(1,000ft.) above Altitude Limit		3%		
Temperature above which output should be Limited		°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) above Temperature Limit		1%		
Remark:				
1.All daa certified within 5%;				
2.TBD - To Be Determined;				
3.N/A - Not Applicable;				