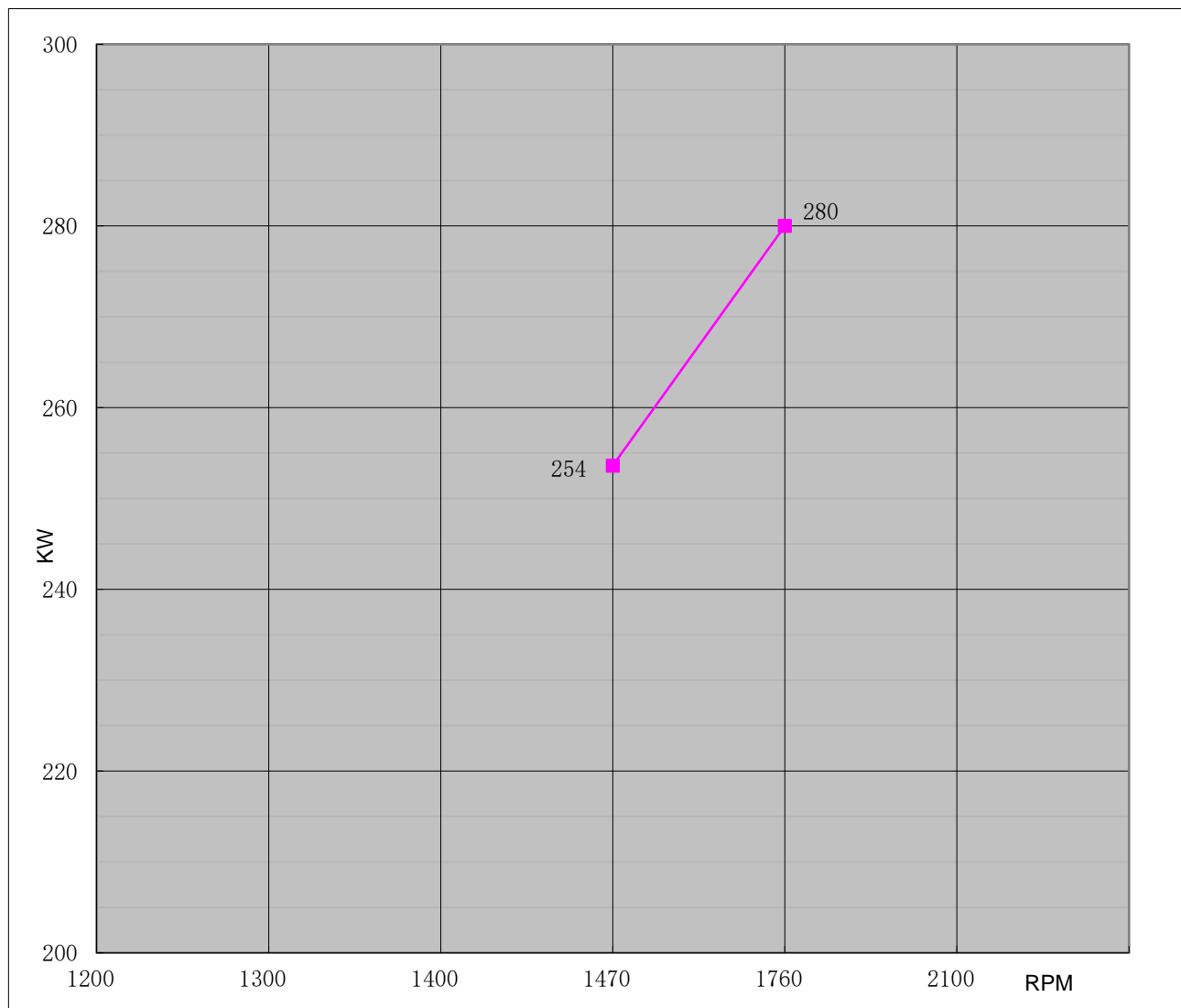




Engine Performance Curve

Engine Model		CH6-135-E		Curve No.		C06135F	Date	2020/9/10
Displacement	12.88	L	Aspiration	Turbocharged+Water cooled		Power Standard		UL/FM
Bore	135	mm	Cylinder Qty.	6		280	KW @ 1760	r/min
Stroke	150	mm	Fuel System	In-line; Mechanical		375	HP @ 1760	r/min



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1200		
1300		
1400		
1470	1648	1215
1760	1519	1120
2100		

Output Power		
Speed	Output Power	
RPM	KW	HP
1200		
1300		
1400		
1470	254	340
1760	280	375
2100		

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1200		
1300		
1400		
1470	205	0.337
1760	210	0.345
2100		

REV: B



Engine Data Sheet

Engine Model	CH6-135-E	Date	2020/9/10
Drawing No.	CH6-135-E-00	Document No.	DS06135F
Rated Power	375 HP @ 1760 RPM	Performance Curve No.	C06135F
	280 KW @ 1760 RPM	Version	B

GENERAL ENGINE DATA

Type		4 Cycle; In-line; water cooled; 6 Cylinder	
Aspiration		Turbocharged +Water Cooled	
Bore and Stroke		mmxmm	135x150
Cylinder Liner Type		<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry
Displacement		L	12.88
Compression Ratio		15.75:1	
Firing Order		1-5-3-6-2-4	
Combustion System		Direct Injection	
Rotation Viewed from flywheel		Counter Clockwise	
Valves Per Cylinder		Intake:1 Exhaust :1	
Valves lashes at cold	Intake	mm	0.325
	Exhaust	mm	0.375
Charge Air Cooling Type		Raw Water	
Dry Weight Approx.		kg	1480
Dimension Approx. (L*W*H)		mm	1835*1085*1529
Flywheel/ Flywheel House Dimension		14"/ SAE 1	

EXHAUST SYSTEM

Exhaust Gas Temp.	°C	600 @1760rpm
Exhaust Gas Flow	m³/h	3618 @1760rpm
Max. Allowable Back Pressure	kpa	10
Minimum Exhaust Pipe Diameter	DN	125
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	1536 @1760rpm	
Max. Allowable Air Inlet Restriction	kpa	5.5	

LUBRICATION SYSTEM

Oil Capacity	L	32	
Engine Normal Operating Sump Oil Temp.	°C	80-115	
Normal Operating Oil Pressure Range	bars	4~6.0	
Oil Pressure at Idle	bar	>0.15	

COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	48	
Thermostat Range	Start Open	°C	77
	Full Open	°C	90
Coolant Pressure Cap	bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger	bar	5	
Engine Normal Operating Coolant Temp.	°C	77-95	
Engine Coolant Flow at Full Load	m³/h	27	



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)		1470	1760
Raw Water Temperatures to 16 °C (m³/h)		8	9
Raw Water Temperatures to 38 °C (m³/h)		10.5	12
Raw Water Pipe Size	Raw Water Inlet	G1 1/2"	
	Raw Water Outlet	G2"	
HEATER SYSTEM			
Wattage		W	4500
Voltage AC		V	220
ELECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24
Starter motor		Kw	8.5
Recommended Battery Capacity		AH	180
Cold Cranking Amperes @ -18°C (0°F)		CCA	950
Charging Alternator Output		Amps	55
FUEL SYSTEM			
Injection Pump			
Injection Advance Angle		°	14.5
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;			