

Engine Specification Sheet







Model	Ratings HP (kW) @ Rated speed rpm			
Model	1470	1760		
CH6-135-EB	340 (254)	338 (252)		

ENGINE SPECIFICATIONS					
Туре	4 Cycle; In-line; water cooled; 6 Cylinder				
Aspiration	Turbo	charged +Water Cooled			
Bore and Stroke	mm×mm	135x150			
Displacement	L	12.88			
Compression Ratio	15.75:1				
Combustion System Direct Injection					
Rotation Viewed from flywheel	Counter Clockwise				
Dry Weight Approx.	kg	1480			
Dimension Approx. (L*W*H)	mm	1835*1085*1529			
Crankshaft Centerline Height	mm	440			
Oil Capacity	L	32			
Coolant Capacity - Engine + Heat Exchanger	L	48			

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CH6-135-EB

Engine Equipment	Standard	Optional		
Air Cleaner	Drip proof	N/A		
Alternator	24V-DC, 55Amps with BeltGuard	N/A		
Coupling	Bare Flywheel	N/A		
Engine Heater	220V-AC	110V-AC		
Exhaust Flex Connection	DN100	N/A		
Exhaust Protection	Metal Guard	N/A		
Flywheel Housing	SAE 1	N/A		
Flywheel Power Take Off	SAE 14	N/A		
Fuel Connections	Flexible hoses according ISO 15540	N/A		
Fuel Filter	Full flow, cartridge type	N/A		
Governor, Speed	Constant speed, mechanical	N/A		
Heat Exchanger	Shell and Tube Type	N/A		
Instrument Panel	Build on Engine	N/A		
Junction Box	Integrated in control panel	N/A		
Lube Oil Cooler	Jacket Water Cooled	N/A		
Lube Oil Filter	Full flow, cartridge type	N/A		
Lube Oil Pump	Gear Driven, Gear Type	N/A		
Manual Start Control	Dual Manual Start Contactors	N/A		
Overspeed Control	Electronic instrument panel, test on instrument panel	N/A		
Raw Water Cooling Loop w/ Alarms	Galvanized	Seawater (All 316 SS)		
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)	N/A		
Run - Stop Control	On Instrument Panel with Control			
Starters	24V-DC,8.5KW	N/A		
Throttle Control	Adjustable speed control	N/A		
Water Pump	Centrifugal Type, Gear Driven	N/A		
compressor, fan, optional equipment, a	ng with fuel system, lubricating oil pump, and driven components.;Data is based on mm) Hg dry barometer, and 77°F (25°C) i	operation at SAE stand	lard J1394 conditions	
Altitude above which output should be	Limited	m (ft.)	91 (300)	
Correction Factor per 305m.	3%			
Temperature above which output shou	°C (°F)	25 (77)		
Correction Factor per 5.6°C (1	%		
Remark: 1.All data certified within 5%; 2.TBD - To Be Determined;				
3.N/A - Not Applicable;				

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Raw Water Cooling Capacity

Engine Data Sheet

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Engine Model	CH6-135-EB	Date	2021,	/12/30	
Drawing No.	CH6-135-E .00	Performance Curve No.	C06135B 14DS001E		
Rated Power	338 HP @ 1760 RPM	Reference No.			
Rated Power	252 KW @ 1760 RPM	Version		A	
		ENERAL ENGINE DATA			
Туре	9	ENERAL ENGINE DATA	4 Cycle; In-line; wat	er cooled: 6 Cylind	
Aspiration			•	+Water Cooled	
Bore and Stroke			mm×mm	135x150	
Cylinder Liner Type			✓ Wet	Dry	
Displacement			L	12.88	
Compression Ratio			15.	75:1	
Firing Order			1-5-3	-6-2-4	
Combustion System			Direct I	njection	
Rotation Viewed from	front of engine		C	:W	
Valves Per Cylinder			Intake:1	Exhuast :1	
Valves lashes at cold		Intake	mm	0.325	
vaives iasiles at cold		Exhaust	mm	0.375	
Ignition Type			Compress	sion(Diesel)	
Charge Air Cooling Typ	oe .		Raw Water		
Dry Weight Approx.		kg	1480		
Dimension Approx. (L		mm 1835*1085*152			
Flywheel/ Flywheel House Dimension			14"/ SAE 1		
Torque at rated RPM			N.m	1519	
		EXHAUST SYSTEM			
Exhaust Gas Temp. at r			℃	600	
Exhaust Gas Flow at M			m³/h	3618	
Max. Allowable Back Pr			kpa	10	
Minimum Exhaust Pipe		ALD INITALE OVOTERA	DN	100	
Air Classas Turas		AIR INTAKE SYSTEM	Date	T	
Air Cleaner Type				Type 1536	
Air Flow at Max. outpur Air Inlet Restriction Dire			m³/h		
Air Inlet Restriction Din	•		kpa	6 3	
All little restriction cle		UBRICATION SYSTEM	kpa	ა	
Oil Capacity		OBRIGATION STSTEIN	L	32	
Max. Sump Oil Temp.			℃	115	
Normal Operating Oil	Pressure Range		bars	4~6.0	
Oil Pressure at Idle			bar	>0.15	
S. 1 1000die de idie		COOLING SYSTEM	, and the second	, 0.10	
Coolant Capacity - Eng	gine + Heat Exchanger		L	48	
	,	Start Open	°C	77	
Thermostat Range		Full Open	°C	90	
Coolant Pressure Cap			bar	0.9	
Max. Engine Coolant To	emp.		°C	98	
Engine Coolant Flow at	•		m³/h	27	
D 14/ 1 0 11 0			2		

m³/h

20

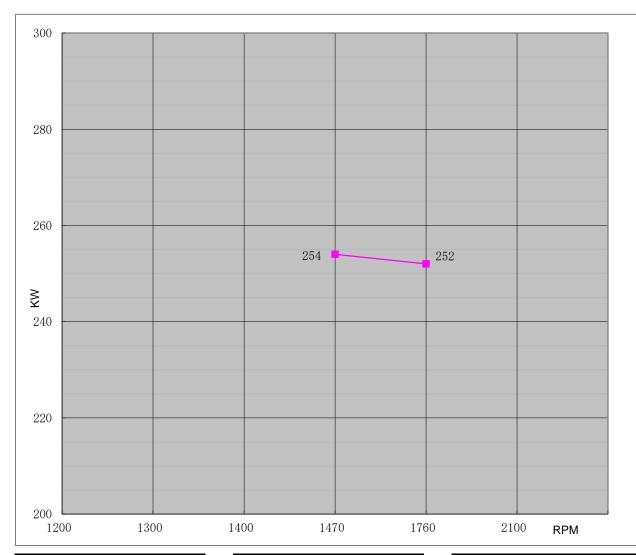
	gine Data Sheet		
Raw Water Pressure		bar	2
Min. Raw Water Temp.		$^{\circ}\!\mathbb{C}$	15.6
Daw Water Dina Cias	Raw Water Inlet	G1	1 1/2"
Raw Water Pipe Size	Raw Water Outlet		G2"
	HEATER SYSTEM		
Wattage		W	4500
Voltage AC		V	220
E	LECTRICAL SYSTEM-DC		
System Voltage(Nominal)		V	24
Starter motor		Kw	8.5
Recommended Battery Capacity		AH	180
Cold Cranking Amperes @ -18°C (0°F)		CCA	900
Reserve Capacity (RC)		Min	360
Charging Alternator Output		Amps	55
Max. Starter Cranking Amps @4.5°C (0°F)		Amps	430
Min. Cranking Speed Required for Unaided Cold	Start	rpm	210
	FUEL SYSTEM		
Injection Pump			
Injection Advance Angle	o	14.5	
Minimum Supply line Size	mm	12	
Minimum Return line Size	mm	12	
Fuel Management Control	Med	chanical	
Max. Fuel Consumption	g/kw,h	240	
Idle Speed	rpm	750	
Max. Governed Speed		rpm	1980
Maximum allowable fuel height above fuel pump)	m	3
Governed Speed Rate	%	<10	
En	gine Performance Data		
Estimated free field soud pressure level at 1 mete speed(Includes Noise from: exhaust;: Cooling Sys Components)	dBa	108	
All data is based on the engine operating with fur are compressor, fan, optional equipment, and dri conditions of 300ft (91,4m) altitude, 29.61 in.(752 0# diesel fuel follow the standard GB 252-2011.	ven components.;Data is bas	sed on operation at SA	AE standard J1394
Altitude above which output should be Limited	m (ft.)	91 (300)	
Correction Factor per 305m.(1,000ft.) a	bove Altitude Limit		3%
Temperature above which output should be Limit	ted	°C (°F)	25 (77)
Correction Factor per 5.6°C (10°F) abov		,	1%
mark:	•	1	

1.All daa certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;



DIESEL ENGINE

Engine Model		СН	6-135-EB Curve No. C 0		H6-135-EB		Curve No.		6135B	D	ate		2021/12/30
Displacement	12.88	Г	Aspiration		Turbocharged+Water cod	oled	Power	Standa	rd		UL/FM		
Bore	135	mm	Cylinder Qty	y .	6, In-line		252	KW	@	1760) r/min		
Stroke	150	mm	Fuel System	า	Mechanical		338	НР	@	1760) r/min		



	Torque					
Speed	Torqu	ue				
RPM	N-m	lb-ft.				
1200						
1300						
1400						
1470	1648	1215				
1760	1366	1008				
2100						

Output Power						
Speed Output Power						
RPM	KW	HP				
1200						
1300 1400						
1400 1470	254	240				
1470 1760	254 252	340 338				
2100	202	JJ0				

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