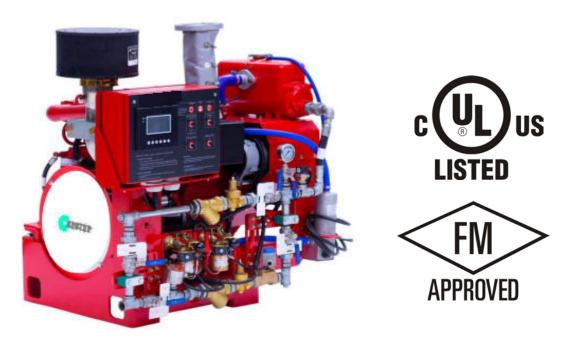


## **Engine Specification Sheet**



Model	Ratings HP (kW) @ Rated speed rpm
	2900
CH6-110-ED(UL)	268 (200)
CH6-110-ED(FM)	239 (178)

ENGINE SPECIFICATIONS				
Туре	4 Cycle; In-line; water cooled; 6 Cylinder			
Aspiration	Turbo	charged +Water Cooled		
Bore and Stroke	mm×mm	110x125		
Displacement	L	7.127		
Compression Ratio	16.8 : 1			
Combustion System	Direct Injection			
Rotation Viewed from flywheel	Counter Clockwise			
Dry Weight Approx.	kg	1070		
Dimension Approx. (L*W*H)	mm	1685*1080*1520		
Crankshaft Centerline Height	mm	400		
Oil Capacity	L	26		
Coolant Capacity - Engine + Heat Exchanger	L	26		

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3.N/A - Not Applicable;

## CH6-110-ED

Engine Equipment	Standard	Optional		
Air Cleaner	Drip proof	N/A		
Alternator	24V-DC, 70 Amps with Belt Guard	N/A		
Coupling	Bare Flywheel	N/A		
Engine Heater	220V-AC	110V-AC		
Exhaust Flex Connection	DN80	N/A		
Exhaust Protection	Metal Guard	N/A		
Flywheel Housing	SAE 2	N/A		
Flywheel Power Take Off	SAE 11.5	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 Position Warning Light	N/A		
Starters	24V-DC, 6 KW	N/A		
Throttle Control	Adjustable speed control	N/A		
Water Pump	Centrifugal Type, Gear Driven	N/A		
compressor, fan, optional equipment, of 300ft (91,4m) altitude, 29.61 in.(752 follow the standard GB 252-2011.	ing 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 st ntake air temperatu	andard J1394 conditions are, using 0# diesel fuel	
Altitude above which output should be	m (ft.)	91 (300)		
Correction Factor per 305m		3%		
Temperature above which output shou	uld be Limited	°C (°F)	25 (77)	
·	10°F) above Temperature Limit		1%	
Remark:  1.All data certified within 5%;  2.TBD - To Be Determined;				

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## **Engine Data Sheet**

Engine Madel	CHC 440 FD	Data		19/13/6		
Engine Model Drawing No.	CH6-110-ED CH6-110-ED.00	Date Performance Curve No.	2018/12/6 C06110D			
Drawing No.		Reference No.	14DS001E			
Rated Power	268 HP @ 2900 RPM 200 KW @ 2900 RPM	Version	14D3001E			
	200 KW @ 2900 KPW	version		<u> </u>		
	GE	NERAL ENGINE DATA				
Туре			4 Cycle; In-line; wa	ater cooled; 6 Cylinder		
Aspiration			Turbocharge	d +Water Cooled		
Bore and Stroke			mm×mm	110x125		
Cylinder Liner Type			✓ Wet	☐ Dry		
Displacement			L	7.127		
Compression Ratio			16	5.8 : 1		
Firing Order			1-5-	-3-6-2-4		
Combustion System				t Injection		
Rotation Viewed from	front of engine			CW		
Valves Per Cylinder		T		1 Exhuast :1		
Valves lashes at cold		Intake	mm (inch)	0.3		
		Exhaust	mm (inch)	0.35		
Ignition Type			•	ssion(Diesel)		
Charge Air Cooling Ty	•		Raw Water			
Weight (Fuel Pump Co	,		kg	1070		
	uel Pump Configuration)		mm 1685*1080*1520			
Flywheel/ Flywheel Ho	ouse Dimension		11.5"/ SAE 2			
Torque at rated RPM		N.m	659			
let to a		EXHAUST SYSTEM				
Exhaust Gas Temp. at			℃	540		
Exhaust Gas Flow at	•		kg/h	1342		
Max. Allowable Back F			kpa	10		
Minimum Exhaust Pipe		AID INTAKE CVCTEM	DN	80		
Air Cleaner Type	<u> </u>	AIR INTAKE SYSTEM	Dry Type	Disposable		
Air Cleaner Type Air Flow			Dry Type, Disposable kg/h 1290			
Air Inlet Restriction Di	rtv			6		
Air Inlet Restriction Cl	•		kpa kpa	3		
All thick ivestriction of		IBRICATION SYSTEM	кра	<u> </u>		
Oil Capacity	Lu	DIMONION OTOTEM	L	26		
Max. Sump Oil Temp.			℃	120		
Normal Operating Oil	Pressure Range		bars	3.4~5.0		
Oil Pressure at Idle		bar >0.98				
,		COOLING SYSTEM		1		
Coolant Capacity - En	gine + Heat Exchanger	L	26			
		Start Open	°C	76		
Thermostat Range		Full Open	°C	86		
Coolant Pressure Cap	· ·			0.9		
Max. Engine Coolant			bar ℃	98		
Engine Coolant Flow a			m <sup>3</sup> /h	14		
Raw Water Cooling Ca			m³/h 9			
			1			

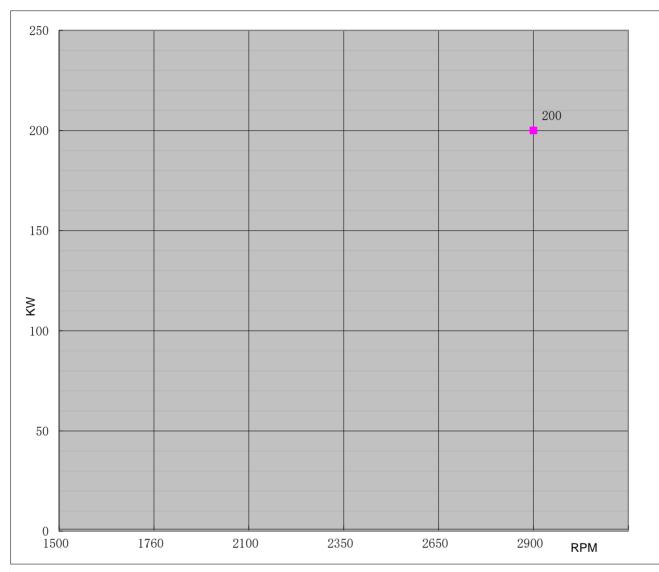
	igine Data Sheet			
Raw Water Pressure	bar	2		
Min. Raw Water Temp.		$^{\circ}$	15.6	
Daw Water Bina Cina	Raw Water Inlet	G1"		
Raw Water Pipe Size	Raw Water Outlet	G <sup>.</sup>	1 1/4"	
	HEATER SYSTEM			
Wattage	W	2200		
Voltage AC	V	240		
El	LECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24	
Starter motor		Kw	6	
Recommended Battery Capacity		AH	150	
Cold Cranking Amperes @ -18℃ (0°F)		CCA	800	
Reserve Capacity (RC)		Min	290	
Charging Alternator Output		Amps	70	
Max. Starter Cranking Amps @4.5℃ (0°F)		Amps	330	
Min. Cranking Speed Required for Unaided Co	old Start	rpm	240	
	FUEL SYSTEM			
Injection Pump				
Injection Advance Angle	0	24		
Minimum Supply line Size	mm	10		
Minimum Return line Size	mm	10		
Fuel Management Control	Med	chanical		
Max. Fuel Consumption	g/kw,h	240		
Idle Speed		rpm	750	
Max. Governed Speed		rpm	3190	
Maximum allowable fuel height above fuel pun	np	m	3	
Governed Speed Rate		%	<10	
Er	ngine Performance Data			
Estimated free field soud pressure level at 1 m speed(Includes Noise from: exhaust;: Cooling Components)	dBa	108		
All data is based on the engine operating with included are compressor, fan, optional equipm standard J1394 conditions of 300ft (91,4m) alt temperature, using 0# diesel fuel follow the sta	nent, and driven components.; itude, 29.61 in.(752mm) Hg d	Data is based on op	peration at SAE	
Altitude above which output should be Limited	m (ft.)	91 (300)		
Correction Factor per 305m.(1,000ft.)		3%		
Temperature above which output should be Lii		°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) abo	` '	1%		
emark:	•			

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



## **DIESEL ENGINE**

Engine Mode	ı		CH6-110-ED		Curve No.	C06110D		Date			2018/12/6	
Displacement	7.13	L	Aspiration		Turbocharged+Water co	oled	Power	Standa	rd		UL/FM	
Bore	110	mm	Cylinder Qty	y.	6		200	KW	@	2900	r/min	
Stroke	125	mm	Fuel System	n	In-Line; Mechanical		268	HP	@	2900	r/min	



	Torque	
Speed	Torqu	ıe
RPM	N-m	lb-ft.
1500		
1760		
2100		
2350		
2650		
2900	659	486

Output Power				
Speed	Output	Dower		
Speed	Output	Power		
RPM	KW	HP		
1500				
1760				
2100				
2350				
2650				
2900	200	268		

Fuel Consumption					
Speed	Consui	mption			
RPM		lb/BHP-HR			
1500	J				
1760					
2100					
2350					
2650					
2900	240	0.395			

REV: