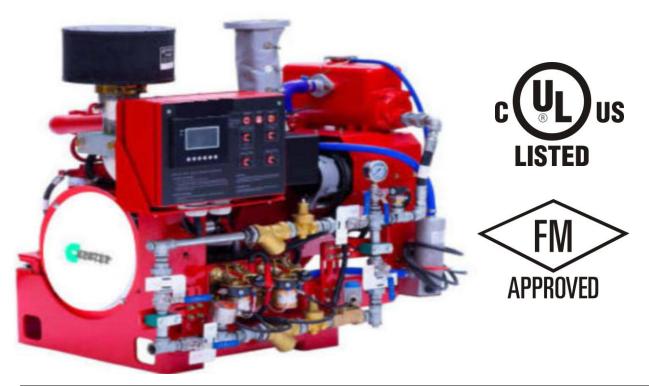


Engine Specification Sheet



Model	Ratings HP (kW) @ Rated speed rpm			
Model	1470	1760		
CH6-150-EB (UL)	780 (582)	858 (640)		
СН6-150-ЕВ (FM)	786 (586)	850 (634)		

ENGINE SPECIFICATIONS					
Туре	4 Cycle; In-line; water cooled; 6 Cylinder				
Aspiration	Turbocharged +Water Cooled				
Bore and Stroke	mm×mm	150×185			
Displacement	L	19.6			
Compression Ratio 15:1					
Combustion System	Direct Injection				
Rotation Viewed from flywheel	Counter Clockwise				
Dry Weight Approx.	kg 2650				
Dimension Approx. (L*W*H)	mm	2385*1300*1845			
Crankshaft Centerline Height	mm	650			
Oil Capacity Approx.	L	61			
Coolant Capacity - Engine + Heat Exchanger Approx.	L	100			

Document No.: SS06150B Date: 2024/10/8 Version: A



3.N/A - Not Applicable;

модеL СН6-150-ЕВ

Engine Equipment	Optional			
Air Cleaner	Drip proof	N/A		
Alternator	24V-DC, 55Amps with Belt Guard	N/A		
Coupling	Bare Flywheel	N/A		
Engine Heater	220V-AC	110V-AC		
Exhaust Flex Connection	DN200	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	Seawater (SS316 or	Bronze)		
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,8.5KW	N/A		
Throttle Control	Adjustable speed control	N/A		
Water Pump	Centrifugal Type, Belt Driven	N/A		
compressor, fan, optional equipment,	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 sta	ndard J1394 conditions	
Altitude above which output should be	m (ft.)	91 (300)		
Correction Factor per 305m		3%		
Temperature above which output shou	°C (°F)	25 (77)		
Correction Factor per 5.6°C (10°F) above Temperature Limit		1%	
Remark:				
1.All data certified within 5%;				
2.TBD - To Be Determined;				

Document No.: SS06150B Date: 2024/10/8 Version: A



Engine Coolant Flow at Full Load

Raw Water Cooling Capacity

Raw Water Pressure

Min. Raw Water Temp.

Engine Data Sheet

Engine Model	CH6-150-EB	Date	2023/12/23			
Drawing No.	CH6-150-E.00	Performance Curve No.	C06150B			
Rated Power	858 HP @ 1760 RPM	M Reference No. 14DS001E		S001E		
Rated Fower	640KW @ 1760 RPM	Version	A			
	Gi	ENERAL ENGINE DATA				
Туре	-		4 Cycle;In-line; wat	er cooled; 6 Cylinde		
Aspiration			Turbocharged +Water Cooled			
Bore and Stroke			mm×mm 150×18			
Cylinder Liner Type			☑ Wet	☐ Dry		
Displacement			L	19.6		
Compression Ratio			15	5:01		
Firing Order			1-5-3	3-6-2-4		
Combustion System			Direct	Injection		
Rotation Viewed from	front of engine		(CW		
Valves Per Cylinder			Intake :2	Exhuast :2		
Valuas lask == =t == !		Intake	mm	0.3		
Valves lashes at cold		Exhaust	mm	0.3		
Ignition Type			Compres	sion(Diesel)		
Charge Air Cooling Ty	rpe		Raw Water			
Dry Weight Approx.			kg	2650		
Dimension Approx. (L*W*H)			mm	2385*1300*1845		
Flywheel/ Flywheel House Dimension			14"/ SAE 1			
		EXHAUST SYSTEM				
Exhaust Gas Temp. at max. rating/power			°C	550		
Exhaust Gas Flow at Max. output			kg/h	4164		
Max. Allowable Back F	Pressure		kpa	7.5		
Minimum Exhaust Pipe Diameter			DN	200		
		AIR INTAKE SYSTEM				
Air Cleaner Type			Dry	Type		
Air Flow at Max. outpu			kg/h	4011		
Air Inlet Restriction Di	rty		kpa	6		
Air Inlet Restriction Cle	ean		kpa	3		
	LI	UBRICATION SYSTEM				
Oil Capacity			L	61		
Max. Sump Oil Temp.			°C	105		
Normal Operating Oil Pressure Range			bars	4~6.5		
Oil Pressure at Idle			bar	>2		
		COOLING SYSTEM				
Coolant Capacity - Engine + Heat Exchanger			L	100		
Sta		Start Open	°C	80		
Thermostat Range		Full Open	°C	92		
Coolant Pressure Cap		·	bar	0.9		
Max. Engine Coolant			°C	96		
Twax. Engine Goolant Temp.			2			

m³/h

m³/h

bar

°C

38.3

20

2

15.6

C HESTER En	gine Data Sheet						
Raw Water Pipe Size	Raw Water Inlet		1 1/2"				
Naw Water Fipe Size	Raw Water Outlet		G2"				
	HEATER SYSTEM						
Wattage		W	4500				
Voltage AC		V	220				
E	ELECTRICAL SYSTEM-DC						
System Voltage(Nominal)		V	24				
Starter motor		Kw	8.5				
Recommended Battery Capacity		AH	200				
Cold Cranking Amperes @ -18°C (0°F)		CCA	1000				
Reserve Capacity (RC)		Min	407				
Charging Alternator Output		Amps	55				
Max. Starter Cranking Amps @4.5°C (0°F)		Amps	260				
Min. Cranking Speed Required for Unaided Cold	Start	rpm	150				
	FUEL SYSTEM						
Injection Pump							
Injection Advance Angle	٥	20					
Minimum Supply line Size	mm	12					
Minimum Return line Size	mm	12					
Fuel Management Control	Med	chanical					
Max. Fuel Consumption	g/kw,h	205					
Idle Speed	rpm	700±50					
Max. Governed Speed	rpm	1936					
Maximum allowable fuel height above fuel pump	m	3					
Governed Speed Rate	Governed Speed Rate						
Er	ngine Performance Data						
Estimated free field soud pressure level at 1 met speed(Includes Noise from: exhaust;: Cooling Syst Components)	dBa	120					
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 Lim	ited	°C (°F)	25 (77)				
Correction Factor per 5.6°C (10°F) above Temperature Limit			1%				
Remark.							

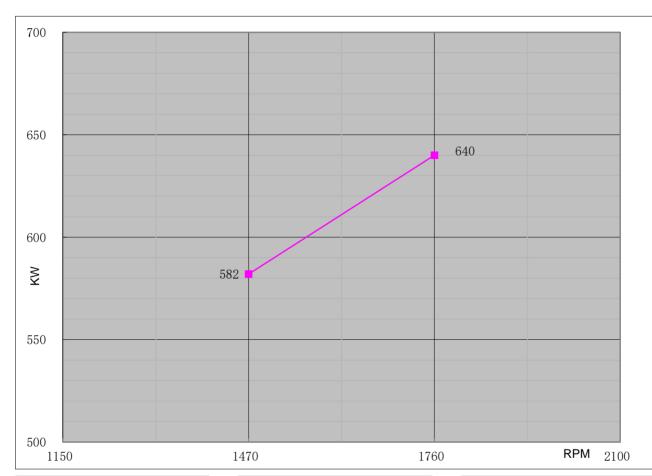
Remark:

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



Performance Curve

Engine Mode	I		CH6-150-EB		Curve No.	C0	6150B	D	ate		2023/12/23
Displacement	19.60	L	Aspiration		Turbocharged+Water co	oled	Power	Standaı	rd		UL/FM
Bore	150	mm	Cylinder Qty	/ .	6, In-Line		640	KW	@	1760	r/min
Stroke	185	mm	Fuel System	1	Mechanical		858	НР	@	1760	r/min



Torque					
Speed Torque					
RPM	N-m	lb-ft.			
1150					
1470	3780	2787			
1760	3473	2561			
2100					

Output Power				
Speed	Output	Power		
RPM	KW	HP		
1150				
1470	582	780		
1760	640	858		
2100				

Fuel Consumption					
Speed	Consur	nption			
RPM	g/KW-HR	lb/BHP-HR			
1150					
1470	195	0.321			
1760	205	0.337			
2100					

REV: A