

Ä HESTER	En	gine Data Sheet		
Engine Model	CH4-102-EC	Date	202	22/12/3
Drawing No.	CH4-102-EC.00	Document No.		22/12/3)4102CF
Drawing No.	75 HP @ 2950 RPM	Performance Curve No.	C04102CF	
Rated Power	56 KW @ 2950 RPM	Version	A	
		Version		
	GI	ENERAL ENGINE DATA		
Туре			4 Cycle; In-line; water cooled; 4 Cylinde	
Aspiration			Natural	
Bore and Stroke			mm×mm	102x118
Cylinder Liner Type		🗌 Wet	🗸 Dry	
Displacement		L	3.86	
Compression Ratio		17:1		
Firing Order		1-3-4-2		
Combustion System			Direct Injection	
Rotation Viewed from flywheel			Counter Clockwise	
Valves Per Cylinder			Intake :1 Exhuast :1	
Valves lashes at cold		Intake	mm	0.4
Exhaust		Exhaust	mm	0.4
Charge Air Cooling Typ	De		Rav	v Water
Dry Weight Approx.			kg	502
Dimension Approx. (L			mm	1230*840*1275
Flywheel/ Flywheel Hou	use Dimension		11.5	"/ SAE 3
		EXHAUST SYSTEM	1	
Exhaust Gas Temp.			°C	600 @ 2950rpm
Exhaust Gas Flow			m³/h	1955 @ 2950rpm
Max. Allowable Back Pressure			kpa	5.5
Minimum Exhaust Pipe Diameter			DN	80
Minimum exhaust pipe di allowable back pressure		pipe, one elbow, and a silencer.	Pressure drop no great	er than one half the ma
Air Cleaner Type			Dry Type	
Air Flow		m³/h	600 @2950rpm	
Max. Allowable Air Inle	t Restriction		kpa	3.5 @2950rpm
		UBRICATION SYSTEM		C
Oil Capacity			L	12
	Engine Normal Operating Sump Oil Temp.			80-120
Normal Operating Oil Pressure Range			°C bars	3~6
Oil Pressure at Idle			bar	>1
		COOLING SYSTEM		
Coolant Capacity - Eng	gine + Heat Exchanger		L	25
		Start Open	°C	76
Thermostat Range		Full Open	°C	86
Coolant Pressure Cap		I	bar	0.9
	essure Range at Heat Exch	anger	bar	5
Engine Normal Operat			°C	76-95
Engine Coolant Flow at Full Load			m³/h	9.6



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)			2950	
Raw Water Temperatures to 16 °C (m ³ /h)			4.2	
Raw Water Temperatures to 38 ℃ (m ³ /h)			5.5	
Raw Water Pipe Size		Raw Water Inlet	G3/4"	
		Raw Water Outlet	G1"	
		HEATER SYSTEM		
Wattage			W	2000
Voltage AC			V	220
	E	LECTRICAL SYSTEM-DC		
System Voltage(Nominal)			V	24
Starter motor			Kw	4.5
Recommended Battery Capacity			AH	150
Cold Cranking Amperes @ −18°C (0°F)			CCA	900
Charging Alternator Output			Amps	35
		FUEL SYSTEM		
Injection Pump				
Injection Advance Angle			0	14~15
Minimum Supply line Size			mm	10
Minimum Return line Size			mm	10
Fuel Management Control			Mechanical	
Idle Speed			rpm	790±40
Governed Speed Rate		%	<10	
	En	gine Performance Data		
are compressor, fan, option	al equipment, and dr altitude, 29.61 in.(752	el system, lubricating oil pump, ven components.;Data is based 2mm) Hg dry barometer, and 77	on operation at SA	AE standard J1394
Altitude above which output should be Limited			m (ft.)	91 (300)
Correction Factor per 305m.(1,000ft.) above Altitude Limit		bove Altitude Limit	3%	
Concetion ractor	Temperature above which output should be Limited			25 (77)
			1%	