

SPECIFICATIONS

Thermodynamic Cycle		Diesel 4 stroke
Air Handling		TCA
Arrangement		3L
Bore x Stroke	millimeters	94 x 107
Total displacement	liters	2.2
Valves per cylinder	number	0.002
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Compression ratio		17.5:1
Injection System		ECR
EGR		-

PERFORMANCES

Rated power [*]	kW (HP) @ rpm	39 (53) @ 2600
Peak torque	Nm (kgm) @ rpm	180 (18) @ 1800
High idle speed	rpm	-
Low idle speed	rpm	-
Minimum starting temperature without auxiliaries	°C	-30°
Oil and oil filter maintenance interval for replacement	hours	300

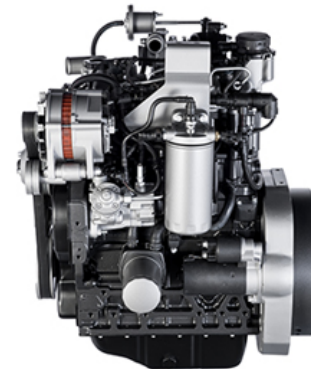
STANDARD CONFIGURATION

Flywheel housing	type	SAE 4 / SAE 5
Flywheel size	inch	11"
Intake manifold location		high / right side
Exhaust manifold location		high / right side
Turbocharger		Fixed Geometry Turbo
Turbocharger location		Top / right side
Fan transmission ratio		-
Distance between fan - crankshaft centers	millimeters	X=- Y=-
Fuel filter	number	e with water separator - left side
Fuel prefilter		-
Fuel Pump		-
Oil filter	number	single cartridge - left side
Oil sump		30° angularity limits longitudinal with flywheel in high position
Oil vapours blow-by circuit		CCV with oil separator
Oil heat exchanger		-
Oil filler		On valve cover
Starter		12V - 2 kW
Alternator		12 V - 75 A, 90 A
Engine stop device		-
Wiring harness		-
Painting color		grey
Lift Pump		-
Hydraulic steering pump	liters/min	-
Maximum torque available from crankshaft pulley	Nm	-

WEIGHT AND DIMENSIONS

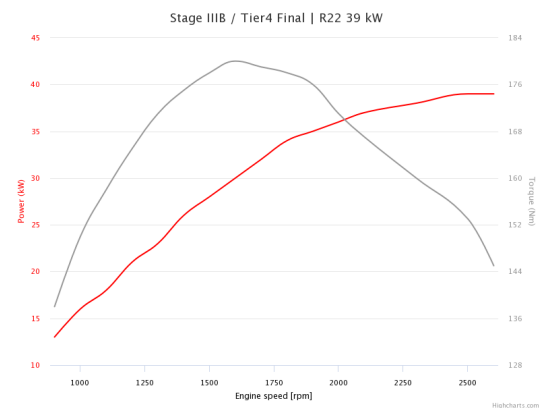
Dimensions	LxWxH (mm)	580 x 524 x 723
Dry Weight	Kg	240

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

POWER & TORQUE



NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)		-
PTO - transmission ratio		1.136:1
PTO - maximum available torque	n SAE A / Group 2 drive - Constant Load	66 Nm
Battery - minimum capacity recommended	Ah	100 Ah (12V)
Battery - minimum cold cranking capacity recommended	Ah	12 V - 690 Ah

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharge)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

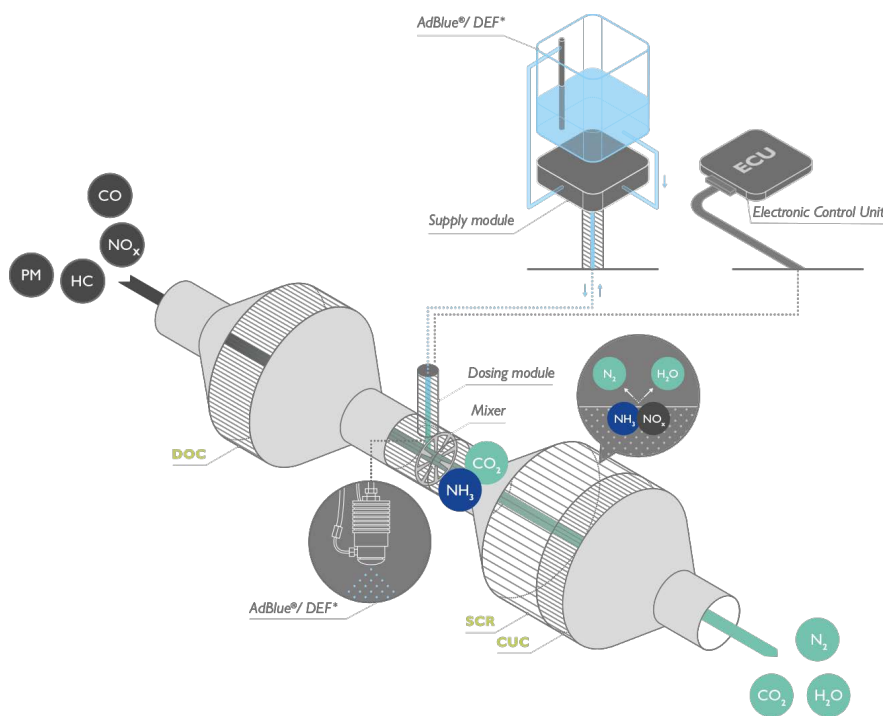
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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



AFTER TREATMENT SYSTEM

After Treatment System includes Diesel Oxidation Catalyst (DOC) and Particulate Matter Catalyst (PM-CAT)



ELEMENT

- 1 DIESEL OXIDATION CATALYST
- 2 ADBLUE® / DEF INJECTION
- 3 SELECTIVE CATALYTIC REDUCTION ON FILTER
- 4 CLEAN-UP CATALYST

LEGEND

PM Particulate Matter
 HC unburnt Hydrocarbons
 NO_x Nitrogen Oxides
 CO Carbon Monoxide
 N₂ Nitrogen
 CO₂ Carbon Dioxide
 H₂O Water
 AdBlue®/ DEF = CO(NH₂)₂ + H₂O

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