



## Main Specification

Model	Units	V180TIH	V180TIM	V180TIL
Engine type		4cycle, V type, direct-injection, water cooled with wet turbo charger & inter-cooler		
Rating output	PS(kW) / rpm	600(441)/1,800	650(478)/2,100	820(603)/2,300
Displacement	cc	18,273		
Cylinder number - bore × stroke	mm	10 - 128 × 142		
Flywheel housing & fly wheel		SAE 1 & 14		
Low idling rpm	rpm	725 ± 25		
No load max. rpm	rpm	below 2,070	below 2,415	below 2,645
Compression ratio		15 : 1		14.6 : 1
Firing order		1 - 6 - 5 - 10 - 2 - 7 - 3 - 8 - 4 - 9		
Governor type of injection pump		Mechanical variable speed (R.Q.V)		
Fuel consumption(only Ref.)	g / PS.h	150	156	158
	Lit / h	109	122	156
Starting system		Electric Starting by starter motor		
Starter motor capacity	V - kW	24 - 6.6		
Alternator capacity	V - A	24 - 50		
Battery	V - Ah	24 - 200		
Cooling system		Indirect sea water cooling with heat exchanger		
Cooling water capacity	Max. / Min.	lit 92 / 81		
Fresh water pump type		Centrifugal type, driven belt		
Sea water pump type		Bronze impeller type driven by belt		
Lubricating oil(Engine)	Pan capacity	lit Max : 35, Min : 28 (Engine total : 38)		
Direction of revolution	Crankshaf	Counter clockwise viewed from stern side		
Engine Size(L×W×H)	Without M/G	mm 1,495 × 1,223 × 1,169		
Engine dry weight	Without M/G	kg 1,550		1,630

## Engine Dimension

