

Chapter 1 General
2. Specifications

SM/2QM20(H)·3QM30(H)

Model			3QM30		3QM30H		3QM30Y		3QM30F			
Type			Vertical 4-cycle water cooled diesel engine									
Combustion chamber			Swirl pre-combustion chamber									
Number of cylinders			3									
Bore × stroke			mm		88 × 90							
Displacement			cc		1642							
Continuous rating output (DIN6270A)	Output/Crankshaft speed		HP/rpm		30/2600							
	Brake mean effective pressure		kg/cm²		6.32							
	Piston speed		m/sec.		7.80							
	Propeller speed (Ahead)		rpm		1182	810	1281	867	1182	810	1281	867
One hour rating output (DIN6270B)	Output/crankshaft speed		HP/rpm		33/2800							
	Brake mean effective pressure		kg/cm²		6.46							
	Piston speed		m/sec.		8.40							
	Propeller speed (Ahead)		rpm		1273	872	1379	933	1273	872	1379	933
Compression ratio					20:1							
Fuel injection timing			degree		bTDC 28							
Fuel injection pressure			kg/cm²		160±10							
Engine weight (dry)			kg		280		260		310		290	
Main power take off					at Flywheel side							
Front power take off					at Crankshaft V-pulley side							
Direction of rotation	Crankshaft		Counter-clockwise viewed from stern									
	Propeller shaft		Clockwise viewed from stern									
Cooling system			Direct sea water cooling				Fresh water cooling					
Lubrication system			Complete enclosed forced lubrication									
Starting system			Electric and/or manual									
Reduction gear system					Constant-mesh spur gear		Constant-mesh helical gear		Constant-mesh spur gear		Constant-mesh helical gear	
Clutch	Type of clutch				Mechanical wet type single disc		Mechanical wet type multi disc		Mechanical wet type single disc		Mechanical wet type multi disc	
	Model				YP-10M		KH18		YP-10M		KH18	
Reduction ratio	Ahead				2.20	3.21	2.13	3.00	2.20	3.21	2.13	3.00
	Astern				2.30	3.46	1.96	3.06	2.30	3.46	1.96	3.06
Dimensions	Overall length		mm		924		952.5		924		966.5	
	Overall height		mm		673		692		714		733	
	Overall width		mm		501		501		562		562	
Lubricating oil capacity	Total		l		6.5							
	Effective		l		2.2							
	Clutch		l		1.2		*1.7		1.2		*1.7	