

DIESEL INBOARD, RATING 1, 2, 3 AND 4 (5*)

Engine	RATING 1		RATING 2		RATING 3		RATING 4, (5 *)		No. of cyl.	Displ. litres	Dry weight kg	Regulations
	Power kW/hp	Speed rpm	Crankshaft Power kW/hp	Speed rpm	Crankshaft Power kW/hp	Speed rpm	Crankshaft Power kW/hp	Speed rpm				
D3-110*							81/110	3000	5	2.4	¹⁾ 264	1, 5
D3-130*							96/130	4000	5	2.4	¹⁾ 332	1, 5
D3-160*							120/163	4000	5	2.4	¹⁾ 332	1, 5
D3-190*							140/190	4000	5	2.4	¹⁾ 332	1, 5
D4-180					132/180	2800	132/180	2800	4	3.6	¹⁾ 546	1, 5
D4-225							165/225	3500	4	3.6	¹⁾ 546	1, 2, 4, 5
D4-260*							191/260	3500	4	3.6	¹⁾ 580	1, 5
D6-280							206/280	3500	6	5.5	¹⁾ 656	1, 2, 4, 5
D6-310							228/310	3500	6	5.5	¹⁾ 677	1, 2, 4, 5
D6-370*							272/370	3500	6	5.5	¹⁾ 706	1, 5
D5A T	72/98	1900	83/113	1900					4	4.8	²⁾ 510	1, 3, 4
D5A T	81/110	2300	95/129	2300					4	4.8	²⁾ 510	1, 3, 4
D5A TA	89/121	1900	103/140	1900					4	4.8	²⁾ 525	1, 3, 4
D5A TA	102/139	2300	118/160	2300					4	4.8	²⁾ 525	1, 3, 4
D7A T	108/147	1900	126/171	1900					6	7.2	²⁾ 670	1, 3, 4
D7A T	123/167	2300	129/175	2300					6	7.2	²⁾ 670	1, 3, 4
D7A TA	130/177	1900	153/208	1900					6	7.2	²⁾ 690	1, 3, 4
D7A TA	148/201	2300	174/237	2300					6	7.2	²⁾ 690	1, 3, 4
D7C TA	146/199	1900	169/230	1900					6	7.2	²⁾ 690	1, 3, 4
D7C TA			182/248	2100					6	7.2	²⁾ 690	1, 3, 4
D7C TA	166/226	2300	195/265	2300					6	7.2	²⁾ 690	1, 3, 4
D9 MH	221/300	1800							6	9.4	²⁾ 1150	1, 2, 3, 4
D9 MH	261/355	1800/2200	313/425	2200					6	9.4	²⁾ 1150	1, 2, 3, 4
D9-425					313/425	2200			6	9.4	²⁾ 1075	1, 2, 3, 4
D9-500							368/500	2600	6	9.4	²⁾ 1075	1, 2, 3, 4
D12 MH	220/300	1800							6	12.1	²⁾ 1400	1, 3, 4
D12 MH	257/350	1800							6	12.1	²⁾ 1400	1, 3, 4
D12 MH	294/400	1800	368/500	1800					6	12.1	²⁾ 1400	1, 2, 3, 4
D12 MH	331/450	1800	405/551	1900					6	12.1	²⁾ 1400	1, 2, 3, 4
D12-650					478/650	2300			6	12.1	²⁾ 1400	1, 2, 4
D12-675							496/675	2300	6	12.1	²⁾ 1400	1, 4
D12-715*							526/715	2300	6	12.1	²⁾ 1400	1, 4
D16 MH	368/501	1800							6	16.1	²⁾ 1750	1, 3, 4
D16 MH	405/551	1800							6	16.1	²⁾ 1750	1, 3, 4
D16 MH	442/601	1800							6	16.1	²⁾ 1750	1, 3, 4
D16 MH	479/651	1800	552/751	1900					6	16.1	²⁾ 1750	1, 2, 3, 4
D25A MS	440/598	1600	485/660	1650					6	24.5	²⁾ 2890	1, 3, 4
D25A MT	470/639	1600	520/707	1650	605/823	1800			6	24.5	²⁾ 2930	1, 3, 4
D30A MS	445/605	1350	490/666	1400					6	30.0	²⁾ 2950	1, 3, 4
D30A MT	480/653	1350	530/721	1400	610/830	1500			6	30.0	²⁾ 2980	1, 3, 4
D34A MS	634/862	1940	701/953	2000					V-12	33.9	²⁾ 3400	1, 3, 4
D34A MT	701/953	1940	776/1055	2000	858/1167	2100			V-12	33.9	²⁾ 3820	1, 3, 4
D49A MS	880/1197	1600	970/1319	1650					V-12	49.0	²⁾ 5250	1, 3, 4
D49A MT	940/1278	1600	1040/1414	1650	1210/1646	1800			V-12	49.0	²⁾ 5420	1, 3, 4
D65A MS	1170/1591	1600	1290/1754	1650					V-16	65.4	²⁾ 6600	1, 3, 4
D65A MT	1250/1700	1600	1380/1877	1650	1610/2190	1800			V-16	65.4	²⁾ 6800	1, 3, 4

AUXILIARY ENGINES

Diesel inboard R1, R2 and Marine Genset engines can be used also for various auxiliary applications

GENERAL NOTES

- ¹⁾ Weight: dry including transmission
- ²⁾ Weight: dry excluding transmission

Regulations

- IMO NOx family certificate, contact Volvo Penta for specific flag state requirements and individual certificates
- EPA Tier 2 Marine Commercial compliance, contact Volvo Penta for detailed information
- CCNR certificate, contact Volvo Penta for detailed information
- Type approved, contact Volvo Penta for detailed information, select type approved transmissions
- The engine is approved for life and rescue boats according to MED (SOLAS), contact Volvo Penta for detailed information

MARINE GENSETS

Genset range	HEAT EXCHANGER COOLING		RADIATOR COOLING		KEEL COOLING		
	400V/50Hz kWe	440V/60Hz kWe	400V/50Hz kWe	440V/60Hz kWe	400V/50Hz kWe	440V/60Hz kWe	Regulations
D5A T	62-71	74-75	62-68	62-68	62-71	74-75	1, 3, 4
D5A TA	70-86	88-93	-	-	70-86	88-93	1, 3, 4
D7A T	90-108	105-113	90-103	90-106	90-108	105-113	1, 3, 4
D7A TA	108-130	125-139	-	-	108-130	125-139	1, 3, 4
D9 MG	160-225	190-250	160-225	190-250	160-214	190-230	1, 2, 3, 4
D12 MG	240-294	300-350	240-277	300-320	240-294	300-350	1, 2, 3, 4
D16 MG	324-427	370-475	-	-	324-427	370-475	1, 2, 3, 4
D25A MS	420-489	470-565	420-476	470-546	392-489	470-565	1, 4
D25A MT	517	-	-	-	-	-	1, 4
D30A MS	569	-	550	-	520-569	-	1, 4
D30A MT	576-613	-	-	-	-	-	1, 4
D34A MS	650	610-728	628	610-699	650	610-728	1, 4
D34A MT	664-680	690-791	-	-	680	791	1, 4
D49A MS	736-1068	936-1145	804-1040	936-1097	804-1068	936-1145	1, 4
D49A MT	1072	-	1222	-	1072	1222	1, 4
D65A MS	1148-1425	1264-1539	1148-1404	1184-1491	1148-1425	1264-1539	1, 4
D65A MT	1436	1626	-	-	1436	1626	1, 4

kWe = kiloWatt electric

VOLVO PENTA INBOARD PERFORMANCE SYSTEM (IPS)

Complete propulsion system	RATING 4 (5*)		Dry weight kg	Regulations
	Crankshaft Power kW/hp	Speed rpm		
Volvo Penta IPS 400	228/310	3500	880	1, 2
Volvo Penta IPS 350*	191/260	3500	800	1

DIESEL AQUAMATIC, RATING 4 (5*)

Engine	RATING 4 (5*)		Speed rpm	No. of cyl.	Displ. litres	Dry weight kg	Regulations
	Prop. shaft Power kW/hp	Crankshaft Power kW/hp					
D3-130/SX*	90/122	96/130	4000	5	2.4	¹⁾ 325	1, 5
D3-130/DPS*	90/122	96/130	4000	5	2.4	¹⁾ 330	1, 5
D3-160/SX*	115/157	120/163	4000	5	2.4	¹⁾ 325	1, 5
D3-160/DPS*	115/157	120/163	4000	5	2.4	¹⁾ 330	1, 5
D3-190/SX*	133/181	140/190	4000	5	2.4	¹⁾ 325	1, 5
D3-190/DPS*	133/181	140/190	4000	5	2.4	¹⁾ 330	1, 5
D4-225/DPH*	165/225	158/215	3500	4	3.7	¹⁾ 644	1, 2, 4, 5
D4-260/DPH*	184/250	191/260	3500	4	3.7	¹⁾ 660	1, 5
D6-280/DPH*	148/201	206/280	3500	6	5.5	¹⁾ 750	1, 2, 4, 5
D6-310/DPH*	219/298	228/310	3500	6	5.5	¹⁾ 750	1, 2, 4, 5
D6-310/DPR*	219/298	228/310	3500	6	5.5	¹⁾ 748	1, 2, 4, 5
D6-350/DPH*	248/337	257/350	3500	6	5.5	¹⁾ 770	1, 5
D6-350/DPR*	248/337	257/350	3500	6	5.5	¹⁾ 768	1, 5

Marine Commercial Ratings

RATING 1 (Heavy Duty Commercial)
For commercial vessels with displacement hulls in heavy operation. Load and speed could be constant, and full power can be used without interruption.

RATING 2 (Medium Duty Commercial)
For commercial vessels with semiplaning or displacement hulls in cyclical operation. Full power could be utilized max 4 h per 12 h operation period. Between full load operation periods, engine speed should be reduced at least 10% from the obtained full load engine speed.

RATING 3 (Light Duty Commercial)
(Light Duty Commercial) For commercial vessels or craft with high demands on speed and acceleration, planing or semi-planing hulls in cyclical operation. Full power could be utilized maximum 2 h per 12 h operation period. Between full load periods, engine speed should be reduced at least 10 % from the obtained full load engine speed.

RATING 4 (Special Light Duty Commercial)
For light planing craft in commercial operation. Recommended speed at cruising = 25 knots. Full power could be utilized max 1h per 12 operation period. Between full load operation periods, engine speed should be reduced at least 10 % from the obtained full load engine speed.

* **RATING 5** This power is intended for pleasure craft applications, and can be used for high speed planing crafts in commercial applications with special limited warranty, see warranty and service book.

PRIME POWER For Gensets and Auxiliary engines with constant speed ratings. For continuous service – overloadable by 10% for one hour within an operating period of 12 hours.

Technical data according to ISO 3046, fuel temp. 40°C. All data present net performance with standard accessories under the conditions of 100kPa barometric pressure, 25°C ambient temperature and 30% relative humidity

All specifications are subject to change without notice.

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