

PRODUCT RANGE

Power for marine professionals



AT THE LEADING EDGE IN MARINE DIESELS

Volvo Penta is a solid partner in providing marine power systems. The combined financial and technological resources provided by the Volvo Group, coupled with our tradition of innovative marine engineering, enable us to design and deliver diesel performance for a broad range of marine applications – and to provide service and support all over the world.

Prepared for future emission standards

Our focus in product development and renewal is on achieving even greater reliability, performance and fuel efficiency. Continuous progress in environmental performance ensures that our power range will meet the emission standards introduced in the future.

Engines and complete drive systems for marine professionals

- Extensive product range developed for a broad range of marine applications
- 3-16 litre diesel engines with drive, control and monitoring systems to match
- Type-approved engines delivered, tested and ready for installation
- Customised parts kits and efficient parts supply through the extensive network of qualified and well-equipped service dealers

Rating definitions

The definition of ratings is to be used as a guideline to select a product with correct rating. It is not about emissions, type approvals or warranty conditions. For complete warranty information and extended coverage, refer to Volvo Penta Warranty Information.

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This document is not contractual. In a constant effort to improve the quality of its products, Volvo Penta reserves the right to modify any of the characteristics stated in this form without notice. For specific information on a certain engine model, please ask your dealer or visit our website www.volvopenta.com. All models are not available on all markets. The engines in the pictures may be fitted with extra optional equipment.

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DIESEL INBOARD & **AUXILIARY ENGINES**

RATING 1 (Continuous Duty)

This power rating is intended for vessels with displacement hulls in heavy operation, unlimited number of running hours per year.

- · Engine running hours per year are UNLIMITED.
- · Load and speed could be constant, and full power can be used without interruption.

Typical boats, could include but are not limited to: Coastal fishing boats, tugboats, trawlers, barges, ferries etc.

(Check also page 2 for more info on ratings.)

NAIEC DATING				
		rnm	Regulations	Page
				20
102	139	2300	4,5,6	20
130	177	1900	1,4,5,6	21
148	201	2300	1,4,5,6	21
146	199	1900	1,4,5,6	22
166	226	2300	1,4,5,6	22
221	300	1800	1,4,6	23
261	355	1800	1,4,6	23
261	355	2200	1,4,6	23
214	291	1800	1,4,6	27
294	400	1800	1,2,4,5,6,8	27
331	450	1800	1,2,4,5,6,8	27
368	500	1800	1,2,4,5,6,8	27
368	500	1800	1,4,5,6	28
405	550	1800	1,2,4,5,6	28
441	600	1800	1,2,4,5,6	28
478	650	1800	1,2,4,5,6	28
	kW* 89 102 130 148 146 166 221 261 261 214 294 331 368 368 405 441	89 121 102 139 130 177 148 201 146 199 166 226 221 300 261 355 261 355 214 291 294 400 331 450 368 500 368 500 405 550 441 600	kW* hp* rpm 89 121 1900 102 139 2300 130 177 1900 148 201 2300 146 199 1900 166 226 2300 221 300 1800 261 355 1800 261 355 2200 214 291 1800 294 400 1800 331 450 1800 368 500 1800 405 550 1800 441 600 1800	kW* hp* rpm Regulations 89 121 1900 4,5,6 102 139 2300 4,5,6 130 177 1900 1,4,5,6 148 201 2300 1,4,5,6 146 199 1900 1,4,5,6 166 226 2300 1,4,6 221 300 1800 1,4,6 261 355 1800 1,4,6 261 355 2200 1,4,6 214 291 1800 1,4,6 294 400 1800 1,2,4,5,6,8 331 450 1800 1,2,4,5,6,8 368 500 1800 1,2,4,5,6,8 368 500 1800 1,2,4,5,6 405 550 1800 1,2,4,5,6 441 600 1800 1,2,4,5,6

^{*} Crankshaft power

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.

- TWO NOT Her in laminy cermicate, contact volvo Paria for specific hag state requirements and individual cermicate EPA Tier 3 Marine Commercial compliance, contact Volvo Penta for detailed information EPA Tier 3 Marine Leisure compliance, contact Volvo Penta for detailed information EU IWW certificate available for propulsion (shaft or diesel electric), contact Volvo Penta for detailed information
- CCNR Stage 2 certificate available, contact Volvo Penta for detailed information Type approved. Important! Always contact Volvo Penta for detailed information

- 8 IMO NOx Tier III family certificate, contact Volvo Penta for specific flag state requirements and individual certificates

DIESEL INBOARD & **AUXILIARY ENGINES**

RATING 2 (Heavy Duty)

This power rating is intended for vessels with semiplaning or displacement hulls in cyclical operation.

- Engine running hours per year, typically but not limited to, 3000-5000h.
- · Full power could be utilized maximum 8 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, and the load should be cycled between 20%-85%.

Typical boats could include but are not limited to: Patrol and pilot boats, Fishing boats, Passenger, crew and work boats etc.

(Check also page 2 for more infoon ratings.)

RANGE MARINE E	ENGINES RATING	i 2			
Engine	kW*	hp*	rpm	Regulations	Page
D5A TA	118	160	2300	4,5,6	20
D7A TA	174	237	2300	1,4,5,6	21
D7C TA	195	265	2300	1,4,5,6	22
D9 MH	313	425	2200	1,4,6	23
D13 MH	404	550	1900	1,2,4,5,6	27
D13 MH	441	600	1900	1,2,4,5,6,8	27
D16 MH	551	750	1900	1,2,4,5,6	28

^{*} Crankshaft power

- FPA Tier 3 Marine Commercial compliance, contact Volvo Penta for specific hag state requirements and information
 FPA Tier 3 Marine Commercial compliance, contact Volvo Penta for detailed information
 FPA Tier 3 Marine Leisure compliance, contact Volvo Penta for detailed information
 FU IWW certificate available for propulsion (shaft or diesel electric), contact Volvo Penta for detailed information
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DIESEL INBOARD ENGINES

RATING 3 (Light Duty)

This power rating is intended for vessels with high demands on speed and acceleration, planing or semiplaning hulls in cyclical operation.

- Engine running hours per year typically, but not limited to, 2000-3000h.
- Full power could be utilized maximum 2 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, and the load should be cycled between 20%-85%.

Typical boats could include but are not limited to: Fast patrol, rescue, police, light fishing, taxi boats, offshore supply, coastguard boats and high-speed passenger ferries etc.

(Check also page 2 for more info on ratings.)

RANGE MARINE E	NGINES RATING	3			
Engine	kW*	hp*	rpm	Regulations	Page
D8-450	331	450	2650	1,2**,4,6	23
D9-425	313	425	2200	1,4,6	24
D11-510	375	510	2250	1,2,4,6	25
D13-700	515	700	2300	1,2,4,6,8	27

^{*} Crankshaft power

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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- CCNR Stage 2 certificate available, contact Volvo Penta for detailed information Type approved. Important! Always contact Volvo Penta for detailed information

DIESEL INBOARD ENGINES

RATING 4 (Special Light Duty)

This power rating is intended for light planing vessels in commercial operation.

- Running hours per year typically, but not limited to, 800-1500h.
- Full power could be utilized maximum 1 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, and the load should be cycled between 20%-85%.

Typical boats could include but are not limited to: High-speed patrol, navy, rescue, police, ambulance, offshore supply, coastguard boats, high-speed passenger ferries and special high speed fishing boats etc.

(Check also page 2 for more info on ratings.)

RANGE MARINE E	NGINES RATING	4			
Engine	kW*	hp*	rpm	Regulations	Page
D4-180	132	180	2800	1,2,6,7	17
D4-225	165	225	3500	1,2,6,7	17
D6-300	221	301	3500	1,2,6,7	18
D6-330	243	330	3500	1,2,6,7	18
D8-510	375	510	2850	1,2**,4,6	23
D8-550	404	550	2900	1,2**,4,6	23
D9-500	368	500	2600	1,6	24
D11-625	460	626	2400	1,2,4,6	25
D13-800	588	800	2300	1,2,4,6,8	27

^{*} Crankshaft power

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- CCNR Stage 2 certificate available, contact Volvo Penta for detailed information Type approved. Important! Always contact Volvo Penta for detailed information
- The engine is approved for life and rescue boats according to MED (SOLAS), contact Volvo Penta for
- 8 IMO NOx Tier III family certificate, contact Volvo Penta for specific flag state requirements and individual certificates

^{**} Will be EPA Tier 3 Marine Commercial compliant in 2019

^{**} Will be EPA Tier 3 Marine Commercial compliant in 2019

DIESEL INBOARD ENGINES

DIESEL AQUAMATIC

RATING 5 (High Performance Duty)

This power rating is intended for vessels in pleasure craft applications, and can be used for high speed planing crafts and governmental or commercial applications with special limited warranty, see warranty handbok.

- Running hours per year typically, but not limited to, 50-500h.
- Full power could be utilized maximum 1 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, and the load should be cycled between 20%-85%.

Typical boats could include but are not limited to: High-speed patrol, navy, rescue, police, ambulance boats, high speed fishing boats etc. Pleasure crafts incl. sailboats.

(Check also page 2 for more info on ratings.)

RANGE MARINE ENGIN	IES RATING 5	5			
Engine	kW*	hp*	rpm	Regulations	Page
D3-110	81	110	3000	1,3,7	16
D3-150	110	150	3000	1,3,7	16
D3-170	125	170	4000	1,3,7	16
D3-200	147	200	4000	1,3,7	16
D3-220	162	220	4000	1,3,7	16
D4-260	191	260	3500	1,3,6,7	17
D4-300	221	300	3500	1,3,7	17
D6-370	272	370	3500	1,3,7	18
D6-435WJ	320	435	3500	1,3,7	18
D6-435	320	435	3500	1,3,7	18
D8-600	441	600	3000	1,3	23
D11-670	493	670	2450	1,3	25
D11-725	553	725	2500	1,3	25
D13-800	588	800	2300	1,3	27
D13-900	662	900	2300	1,3	27
D13-1000	735	1000	2400	1,3	27

^{*} Crankshaft power

RATING 4 (Special Light Duty)

For rating definitions, please see page 7. (Check also page 2 for more info on ratings.)

RANGE DIESEL AQUAMATIC RATING 4										
RANGE DIESEL AQUAMATIC RATING 4										
	Prop. shaft	Crankshaft								
Engine	power kW/hp	power kW/hp	rpm	Regulations	Page					
D4-225/DPH	158/215	165/225	3500	1,2,6,7	32					
D6-300/DPH	212/289	221/301	3500	1,2,6,7	33					
D6-330/DPH	233/317	243/330	3500	1.2.6.7	33					

RATING 5 (High Performance Duty)

For rating definitions, please see page 8. (Check also page 2 for more info on ratings.)

RANGE DIESEL AQUAMATIC RATING 5									
Engine	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	Regulations	Page				
D3-140	103	140	4000	1,3,7	31				
D3-170	125	170	4000	1,3,7	31				
D3-200	147	200	4000	1,3,7	31				
D3-220	162	220	4000	1,3,7	31				
D4-260/DPH	184/250	191/260	3500	1,3,6,7	32				
D4-300/DPH	214/291	221/300	3500	1,3,7	32				
D6-370/DPH	261/355	272/370	3500	1,3,7	33				
D6-400/DPH	281/382	294/400	3500	1,3,7	33				

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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AUXILIARY ENGINES

AUXILIARY ENGINES

PRIME POWER 1500 RPM 50 HZ

(Constant speed ratings)

Prime Power: ratings corresponding to ISO Standard Power for continuous operation. This relates to the supplying of electrical power at variable load with 70% load factor for an unlimited number of hours. A 10% overload capability is available with this rating.

(Check also page 2 for more info on ratings.)

	HE		RC		KC			
Engine	kW*	hp*	kW*	hp*	kW*	hp*	Regulations	Page
D5A T	77	105	73	99	77	105	6	20
D5A TA	92	125	-	-	92	125	5,6	20
D7A T	116	158	112	152	116	158	6	21
D7A TA	139	189	-	-	139	189	1,5,6	21
D9 MG	239	325	227	309	239	325	1,5,6	24
D13 MG	300	408	289	393	300	408	1,2,5,6.8	26
D13 MG	360	490	341	464	360	490	1,2,5,6.8	26
D16 MG	450	612	433	589	450	612	1,5,6	28

^{*} Crankshaft power

Marine GenSet for Diesel Electric Propulsion

Application type: Vessels operating with marine gensets for power to electric propulsion systems. Engine can be run for an unlimited number of running hours at a load factor of < 80%. 10% overload capability is available for maximum of 1 hour per 12 hours operation for this rating. Ratings corresponding to iISO Standard Power for continuous operation.

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.

- TWO NOW I fer in anning cermicate, contact volvo Paria for specific hag state requirements and individual cermicate EPA Tier 3 Marine Commercial compliance, contact Volvo Penta for detailed information EPA Tier 3 Marine Leisure compliance, contact Volvo Penta for detailed information EU IWW certificate available for propulsion (shaft or diesel electric), contact Volvo Penta for detailed information
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PRIME POWER 1800 RPM 60 HZ

(Constant speed ratings)

Prime Power: ratings corresponding to ISO Standard Power for continuous operation. This relates to the supplying of electrical power at variable load with 70% load factor for an unlimited number of hours. A 10% overload capability is available with this rating.

(Check also page 2 for more info on ratings.)

	HE		RC		KC			
Engine	kW*	hp*	kW*	hp*	kW*	hp*	Regulations	Page
D5A T	81	110	74	101	81	110	6	20
D5A TA	100	136	-	-	100	136	5,6	20
D7A T	122	166	115	156	122	166	6	21
D7A TA	148	201	-	-	148	201	1,5,6	21
D9 MG	265	360	244	332	265	360	1,5,6	24
D13 MG	360	490	349	475	360	490	1,2,5,6.8	26
D13 MG	400	544	381	518	400	544	1,2,5,6.8	26
D16 MG	500	680	470	639	500	680	1.5.6	28

^{*} Crankshaft power

Marine Genset for Diesel Electric Propulsion

Application type: Vessels operating with Marine Gensets for power to electric propulsion systems. Engine can be run for an unlimited number of running hours at a load factor of < 80%. 10% overload capability is available for maximum of 1 hour per 12 hours operation for this rating. Ratings corresponding to ISO Standard Power for continuous operation.

- TWO NOT Her in laminy cermicate, contact volvo Paria for specific haig state requirements and individual cermicate EPA Tier 3 Marine Commercial compliance, contact Volvo Penta for detailed information EPA Tier 3 Marine Leisure compliance, contact Volvo Penta for detailed information EU IWW certificate available for propulsion (shaft or diesel electric), contact Volvo Penta for detailed information
- CCNR Stage 2 certificate available, contact Volvo Penta for detailed information Type approved. Important! Always contact Volvo Penta for detailed information
- 8 IMO NOx Tier III family certificate, contact Volvo Penta for specific flag state requirements and individual certificates

MARINE GENSETS

MARINE GENSETS

PRIME POWER 1500 RPM 50 HZ

(Constant speed ratings)

Prime Power: ratings corresponding to ISO Standard Power for continuous operation. This relates to the supplying of electrical power at variable load with 70% load factor for an unlimited number of hours. A 10% overload capability is available with this rating.

(Check also page 2 for more info on ratings.)

	HE	RC	KC		
Genset	kWe*	kWe*	kWe*	Regulations	Page
D5A T	62-70	62	62-70	6	41
D5A TA	86	-	86	5,6	42
D7A T	90-108	70-104	90-108	6	43
D7A TA	119-130	-	119-130	1,5,6	44
D9 MG	168-225	136-214	168-225	1,4,5,6	45
D13 MG	248-332	248-332	248-332	1,2,4,5,6,8	46
D16 MG	332-420	332-414	332-420	1,4,5,6	47

^{*} Power output based on temperature rise class F and 400V for 50Hz series star connection

Marine Genset for Diesel Electric Propulsion

Application type: Vessels operating with Marine Gensets for power to electric propulsion systems. Engine can be run for an unlimited number of running hours at a load factor of < 80%. 10% overload capability is available for maximum of 1 hour per 12 hours operation for this rating. Ratings corresponding to ISO Standard Power for continuous operation.

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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PRIME POWER 1800 RPM 60 HZ

(Constant speed ratings)

Prime Power: ratings corresponding to ISO Standard Power for continuous operation. This relates to the supplying of electrical power at variable load with 70% load factor for an unlimited number of hours. A 10% overload capability is available with this rating.

(Check also page 2 for more info on ratings.)

	HE	RC	KC		
Genset	kWe*	kWe*	kWe*	Regulations	Page
D5A T	74	68	74	6	41
D5A TA	88-93	-	88-93	5,6	42
D7A T	105-114	88-107	105-114	6	43
D7A TA	125-139	-	125-139	1,5,6	44
D9 MG	170-250	170-230	170-250	1,4,5,6	45
D13 MG	300-380	300-360	300-380	1,2,4,5,6,8	46
D16 MG	390-477	390-448	390-477	1.4.5.6	47

^{*} Power output based on temperature rise class F and 400V for 50Hz series star connection

Marine Genset for Diesel Electric Propulsion

Application type: Vessels operating with Marine Gensets for power to electric propulsion systems. Engine can be run for an unlimited number of running hours at a load factor of < 80%. 10% overload capability is available for maximum of 1 hour per 12 hours operation for this rating. Ratings corresponding to ISO Standard Power for continuous operation.

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- CCNR Stage 2 certificate available, contact Volvo Penta for detailed information Type approved. Important! Always contact Volvo Penta for detailed information
- The engine is approved for life and rescue boats according to MED (SOLAS), contact Volvo Penta for
- 8 IMO NOx Tier III family certificate, contact Volvo Penta for specific flag state requirements and individual certificates

VOLVO PENTA IPS

RATING 3 (Light Duty)

For rating definitions, please see page 6. (Check also page 2 for more info on ratings.)

RANGE INBOARD PERFORMANCE SYSTEM										
Complete Propulsion System	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	Regulations	Page					
D8-IPS 600	315/428	331/450	2650	1,2,4,6	37					
D11-IPS 650	354/482	375/510	2250	1,2,4,6	37					
D13-IPS 900	485/660	515/701	2250	1,2,4,6,8	37					

RATING 4 (Special Light Duty)

For rating definitions, please see page 7. (Check also page 2 for more info on ratings.)

RANGE INBOARD PERFORMANCE SYSTEM											
Complete Propulsion System	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	Regulations	Page						
D6-IPS 400MC	210/286	221/301	3500	1,2	37						
D6-IPS 450	231/314	243/330	3500	1,2	37						
D8-IPS 650	356/484	375/510	2850	1,2,4,6	37						
D8-IPS 700	384/523	404/550	2900	1,2*,4,6	37						
D11-IPS 800	435/591	459/625	2300	1,2,4,6	37						
D13-IPS 1050	554/753	588/800	2300	1,2,4,6,8	37						

^{*} Will be EPA Tier 3 Marine Commercial compliant in 2019

RATING 5 (High Performance Duty)

For rating definitions, please see page 8. (Check also page 2 for more info on ratings.)

RANGE INBOARD PER	FORMANCE SYS	TEM			
Complete Propulsion System	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	Regulations	Page
D6-IPS 500	260/353	272/370	3500	1,3	37
D6-IPS 600	307/418	320/435	3500	1,3	37
D8-IPS 800	419/570	441/600	3000	1,3	37
D11-IPS 950	504/685	533/725	2500	1,2,4,6	37
D13-IPS 1200	624/848	662/900	2300	1,3	37
D13-IPS 1350	693/942	735/1000	2400	1,3	37

- IMO NOx Tier II family certificate, contact Volvo Penta for specific flag state requirements and individual certificates EPA Tier 3 Marine Commercial compliance, contact Volvo Penta for detailed information

- EPA Tier 3 Marine Leisure compliance, contact Volvo Penta for detailed information
 EU RWW certificate available for propulsion (shaft or diesel electric), contact Volvo Penta for detailed information
 CCNR Stage 2 certificate available, contact Volvo Penta for detailed information
 Type approved. Important! Always contact Volvo Penta for detailed information
 Type approved. Important! Always contact Volvo Penta for detailed information

- The engine is approved for life and rescue boats according to MED (SOLAS), contact Volvo Penta for detailed information



DIESEL INBOARD & AUXILIARY ENGINES

Power for displacement craft

The heavy-duty range has been developed for extreme reliability. These marine diesels are designed to keep running, year in and year out.

The basic design features robust engine blocks manufactured from high-strength castings, large bearing surfaces and powerful crankshafts with all components engineered to withstand the toughest conditions.

Low fuel consumption is high priority, as are low maintenance costs, exhaust and noise emissions and simple service – properties that are vitally important for the crew as well as the environment.

Power for planing craft

Volvo Penta diesel technology delivers performance without sacrificing reliability. Whether electronically controlled or mechanically governed, all marine diesels in the range provide the necessary performance for applications requiring fast acceleration and high top speed.

The Volvo Penta range today offers combinations of high power, low weight, low fuel consumption and emissions that were inconceivable only a few years ago.

Auxiliary engines

Diesel inboard rating 1, rating 2 and marine genset engines can be used also for various auxiliary applications.

D3 MARINE ENGINE

5-cylinder, 4-stroke, direct-injected turbo-charged, and aftercooled marine diesel engine.

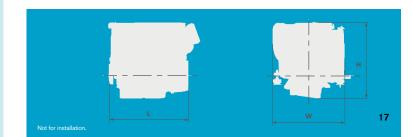
Bore x Stroke (mm): 81 x 93 Displacement (I): 2.4



PROPULSION ENGINE						
ENGINE ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
				P.	Ü	
D3-110	5	81	110	3000	219	0.355
D3-150	5	110	150	3000	221	0.358
D3-170	5	125	170	4000	241	0.39
D3-200	5	147	200	4000	235	0.381
D3-220	5	162	220	4000	239	0.387

DIMENSIONS AND WEIGHTS**									
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb				
D3-110	702	718	750	260	573				
D3-150	702	718	750	260	573				
D3-170	702	718	750	260	573				
D3-200	702	718	750	260	573				
D3-220	702	718	750	260	573				

^{*} Fuel consumption at rated power and speed.



^{**} Dimensions and weights based on bobtail engines.

D4 MARINE ENGINE

D6 MARINE ENGINE



4-cylinder, 4-stroke, direct-injected turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 103 x 110 Displacement (I): 3.67

6-cylinder, 4-stroke, direct-injecte
turbo-charged, and aftercooled
marine diesel engine.

Bore x Stroke (mm): 103 x 110 Displacement (I): 5.5



PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D4-180	4	132	180	2800	220	0.356
D4-225	4	165	225	3500	232	0.376
D4-260	5	191	260	3500	230	0.373
D4-300	5	221	300	3500	221	0.358

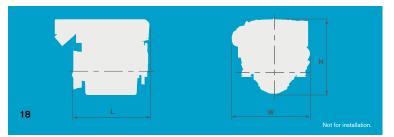
DIMENSIONS AND WEIGHTS**										
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb					
D4-180	784	820	780	482	1063					
D4-225	784	820	780	482	1063					
D4-260	784	820	780	482	1063					
D4-300	784	820	780	483	1065					

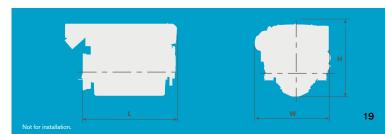
^{*} Fuel consumption at rated power and speed.

Rating	kW	hp	rpm	g/kWh*	lb/hph*
4	221	301	3500	242	0.392
4	243	330	3500	235	0.381
5	272	370	3500	236	0.382
5	320	435	3500	220	0.356
5	320	435	3500	220	0.356
	4 4 5 5	4 221 4 243 5 272 5 320	4 221 301 4 243 330 5 272 370 5 320 435	4 221 301 3500 4 243 330 3500 5 272 370 3500 5 320 435 3500	4 221 301 3500 242 4 243 330 3500 235 5 272 370 3500 236 5 320 435 3500 220

DIMENSIONS AND WEIGHTS**										
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb					
D6-300	1020	820	780	580	1279					
D6-330	1020	820	780	580	1279					
D6-370	1020	820	780	580	1279					
D6-435WJ*	1037	839	780	584	1287					
D6-435*	1037	839	780	594	1310					

^{*} Fuel consumption at rated power and speed.





^{**} Dimensions and weights based on bobtail engines.

^{**} Dimensions and weights based on bobtail engines.

D5A T/TA MARINE ENGINE

4-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled (TA version) marine diesel engine.

Bore x Stroke (mm): 108 x 130

Displacement (I): 4.76

PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D5A TA	1	89	121	1900	207	0.335
D5A TA	1	102	139	2300	227	0.368
D5A TA	2	118	160	2300	227	0.368

AUXILIARY ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D5A T (HE)	1	77	105	1500	222	0.360
D5A T (RC)	1	73	99	1500	222	0.360
D5A T (KC)	1	77	105	1500	222	0.360
D5A T (HE)	1	81	110	1800	222	0.360
D5A T (RC)	1	74	100	1800	222	0.360
D5A T (KC)	1	81	110	1800	222	0.360
D5A TA (HE)	1	92	125	1500	208	0,336
D5A TA (KC)	1	92	125	1500	208	0,336
D5A TA (HE)	1	100	136	1800	206	0.334
D5A TA (KC)	1	100	136	1800	206	0.334

DIMENSIONS AND WEIGHTS**							
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb		
D5A T	1018	813	959	580	1279		
D5A TA	1018	813	959	580	1279		

^{*} Fuel consumption at rated power and speed.



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled (TA version) marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 7.15

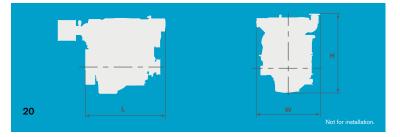


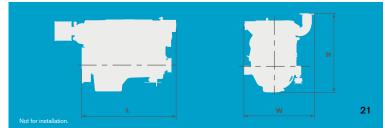
PROPULSION ENGIN	ΝE					
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D7A TA	1	130	177	1900	205	0.332
D7A TA	1	148	201	2300	216	0.350
D7A TA	2	174	237	2300	216	0.350

AUXILIARY ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D7A T (HE)	1	116	158	1500	219	0.355
D7AT (RC)	1	112	152	1500	215	0.348
D7A T (KC)	1	116	158	1500	219	0.355
D7A T (HE)	1	122	166	1800	215	0.348
D7A T (RC)	1	115	156	1800	215	0.348
D7A T (KC)	1	122	166	1800	215	0.348
D7A TA (HE)	1	139	189	1500	207	0.335
D7A TA (KC)	1	139	189	1500	207	0.335
D7A TA (HE)	1	148	201	1800	206	0.334
D7A TA (KC)	1	148	201	1800	206	0.334

DIMENSIONS AN	ND WEIGHTS**				
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb
D7AT	1280	948	1060	760	1676
D7A TA	1280	948	1060	760	1676

^{*} Fuel consumption at rated power and speed.





^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines.

^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines.

D7C TA MARINE ENGINE

D8 MARINE ENGINE



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 7.15

PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D7C TA	1	146	199	1900	204	0.330
D7C TA	1	166	226	2300	213	0.345
D7C TA	2	195	265	2300	216	0.350

DIMENSIONS AND WEIGHTS							
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**		
D7C TA	1282	929	1070	760	1676		

^{*} Fuel consumption at rated power and speed.

6-cylinder, 4 stroke, direct-injected, common rail, turbo-charged, and aftercooled marine diesel engine.

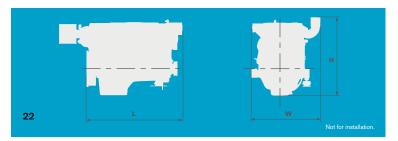
Bore x Stroke (mm): 110 x 135 Displacement (I): 7,7

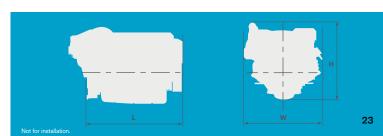


PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D8-450	3	331	450	2650	216	0.355
D8-510	4	375	510	2850	225	0.370
D8-550	4	404	550	2900	224	0.363
D8-600	5	441	600	3000	226	0.366

DIMENSIONS AND	WEIGHTS					
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**	
D8	1263	987	1006	840	1840	

^{*} Fuel consumption at rated power and speed (100% load).





^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines.

^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines.

D9 MARINE ENGINE

D11 MARINE ENGINE



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 120 x 138

Displacement (I): 9.4

6-cylinder, 4 stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 123 x 152 Displacement (I): 10.84



PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D9 MH	1	221	300	1800	205	0.332
D9 MH	1	261	355	1800	205	0.332
D9 MH	1	261	355	2200	219	0.355
D9 MH	2	313	425	2200	222	0.360
D9-425	3	313	425	2200	222	0.360
D9-500	4	368	500	2600	217	0.352
D9-575	5	422	575	2500	217	0.352

AUXILIARY ENGINE							
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*	
D9 MG (HE)	1	239	325	1500	204	0.331	
D9 MG (RC)	1	227	309	1500	204	0.331	
D9 MG (KC)	1	239	325	1500	204	0.331	
D9 MG (HE)	1	265	360	1800	206	0.334	
D9 MG (RC)	1	244	332	1800	206	0.334	
D9 MG (KC)	1	265	360	1800	206	0.334	

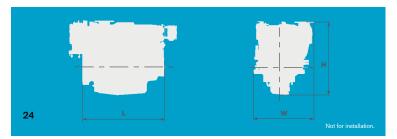
DIMENSIONS AN	D WEIGHTS**					
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb	
D9 MH	1488	1056	1035	1150	2535	
D9-425	1310	948	1029	1075	2370	
D9-500	1310	948	1029	1075	2370	
D9-575	1310	948	1029	1075	2370	

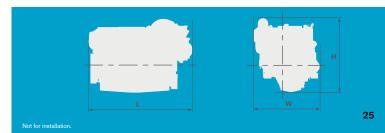
^{*} Fuel consumption at rated power and speed (100% load).

PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D11-510	3	375	510	2250	213	0.345
D11-625	4	460	626	2400	219	0.355
D11-670	5	493	675	2450	219	0.35
D11-725	5	533	725	2500	222	0.36

DIMENSIONS AND WEIGHTS								
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**			
D11	1309	977	1096	1145	2524			

^{*} Fuel consumption at rated power and speed (100% load).





^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines (dry weight).

^{**} Dimensions and weights based on bobtail heat-exchanger cooled engines.

D13 AUXILIARY

D13 PROPULSION



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 131 x 158 Displacement (I): 12.78

6-cylinder, 4-stroke, direct-injected, twin-entry, and turbo-charged marine diesel engine.

Bore x Stroke (mm): 131 x 158 Displacement (I): 12.78



AUXILIARY ENGIN	AUXILIARY ENGINE								
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*			
D13 MG (HE)	1	300	408	1500	194/203	0.314/0.329			
D13 MG (HE)	1	360	490	1500	191/202	0.309/0.327			
D13 MG (RC)	1	289	393	1500	194/203	0.314/0.327			
D13 MG (RC)	1	349	464	1500	191/196	0.309/0.317			
D13 MG (KC)	1	300	408	1500	194/203	0.314/0.329			
D13 MG (KC)	1	360	490	1500	191/202	0.309/0.327			
D13 MG (HE)	1	360	490	1800	200/216	0.345/0.349			
D13 MG (HE)	1	400	544	1800	199/209	0.322/0.339			
D13 MG (RC)	1	341	345	1800	200/216	0.325/0.349			
D13 MG (RC)	1	381	518	1800	199/206	0.322/0.334			
D13 MG (KC)	1	360	490	1800	200/216	0.325/0.349			
D13 MG (KC)	1	400	544	1800	199/209	0.322/0.339			

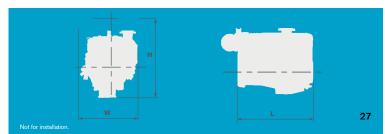
DIMENSIONS AND WEIGHTS**								
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb			
D13 MG	1728	1072	1501	1520	3351			

Fuel consumption at rated power and speed (IMO II / EPA Tier 3).
 ** Based on bobtail heat exchanger cooled engines.

PROPULSION ENGINE								
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*		
D13 MH	1	214	291	1800	207	0.336		
D13 MH	1	294	400	1800	200/208	0.323/0.336		
D13 MH	1	331	450	1800	200/211	0.323/0.342		
D13 MH	1	368	500	1800	199/212	0.322/0.343		
D13 MH	2	404	550	1900	204/213	0.331/0.345		
D13 MH	2	441	600	1900	205/213	0.322/0.344		
D13-700	3	515	700	2300	216	0.351		
D13-800 ***	4	588	800	2300	209	0.338		
D13-800 ***	5	588	800	2300	216	0.349		
D13-900 ***	5	662	900	2300	208	0.338		
D13-1000	5	735	1000	2400	209	0.339		

DIMENSIONS AND	DIMENSIONS AND WEIGHTS**							
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb			
D13 MH	1728	1072	1501	1520	3351			
D13-700	1420	1062	1053	1450	3197			
D13-800 ***	1420	1062	1053	1450	3197			
D13-800 ***	1420	1089	1220	1560	3439			
D13-900 ***	1420	1089	1220	1560	3439			
D13-1000	1420	1089	1220	1635	3604			





Fuel consumption at rated power and speed (IMO II/ EPA Tier 3).
 Based on bobtail heat-exchanger cooled engines.
 D13-800 rating 4 and D13-900 rating 5 has DST (Dual Stage Turbo).

D16 MARINE ENGINE



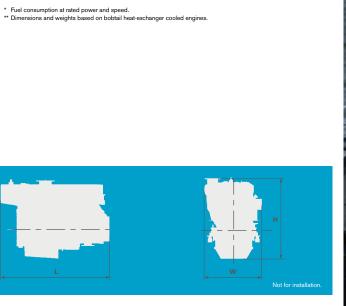
6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 144 x 165 Displacement (I): 16.12

PROPULSION ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D16 MH	1	368	500	1800	209	0.338
D16 MH	1	405	550	1800	209	0.338
D16 MH	1	441	600	1800	209	0.338
D16 MH	1	478	650	1800	210	0.341
D16 MH	2	551	750	1900	215	0.348

AUXILIARY ENGINE						
ENGINE	Rating	kW	hp	rpm	g/kWh*	lb/hph*
D16 MG (HE)	1	450	612	1500	206	0.333
D16 MG (RC)	1	433	589	1500	206	0.334
D16 MG (KC)	1	450	612	1500	206	0.333
D16 MG (HE)	1	500	680	1800	213	0.345
D16 MG (RC)	1	470	639	1800	213	0.345
D16 MG (KC)	1	500	680	1800	213	0.345

DIMENSIONS AND WEIGHTS**							
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb		
D16 MH	1548	1117	1303	1750	3858		





DIESEL AQUAMATIC DRIVES

The Duoprop drive

Duoprop is Volvo Penta's revolutionary sterndrive that introduced a new era in marine propulsion. By placing two counter-rotating propellers on a single axis system, the Duoprop technology, in combination with the D3, D4 or D6 engines, provides superior handling by eliminating the torque steer common to all single-prop systems. The counter-rotating aft prop reverses the swirl loss generated by the front propeller and converts it to additional thrust. All of which helps deliver up to 15% more power, 20% better acceleration, and 15% better fuel efficiency over single-propeller sterndrives. Duoprop also minimises cavitation, improves handling at slow speeds, and reduces steering force, hull roll and vibration.

DPH Duoprop

Exclusively developed to handle the tremendous torque and power of the D4 and D6 diesel engines. External hydraulic steering cylinders, patented X-act steering and patented nickel-bronze-aluminium propellers give optimum driving safety and performance.

DPS Duoprop

Provides amazing driving feel and safety for the D3 engines. With hydrodynamically improved design for higher speed and better performance, lower weight and reduced maintenance need.

SX single prop

Perfect reliability and performance with all the Volvo Penta Aquamatic benefits. Hydrodynamically improved design for better speed and performance, lower weight and reduced maintenance. For the D3 engines.

D3 AQUAMATIC

5-cylinder, 4-stroke, common rail, fuel injected, turbo-charged, and aftercooled marine diesel engine.

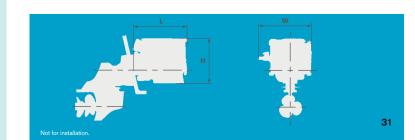
Bore x Stroke (mm): 81 x 93 Displacement: (I): 2.4



PROPULSION						
ENGINE	Rating	Prop. shaft power kW/hp	Crank shaft power kW/hp	rpm	g/kWh*	lb/hph*
D3-140 SX	5	98/133	103/140	4000	238	0.386
D3-140 DPS	5	98/133	103/140	4000	238	0.386
D3-170 SX	5	119/162	125/170	4000	241	0.39
D3-170 DPS	5	119/162	125/170	4000	241	0.39
D3-200 DPS	5	140/190	147/200	4000	235	0.381
D3-220 DPS	5	154/209	162/220	4000	239	0.387

DIMENSIONS AND	WEIGHTS					
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**	
D3-140 SX	853	710	750	358	789	
D3-140 DPS	853	710	750	363	800	
D3-170 SX	853	710	750	358	789	
D3-170 DPS	853	710	750	363	800	
D3-200 DPS	853	710	750	363	800	
D3-220 DPS	853	710	750	363	800	

^{*} Fuel consumption measured at rated power and speed.



^{**} Dry weight including drive excluding propeller.

D4 AQUAMATIC

D6 AQUAMATIC



4-cylinder, 4-stroke, direct-injected, Bore x Stroke (mm): 103 x 110

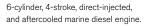
and aftercooled marine diesel engine. Displacement (I): 3.7

PROPULSION						
ENGINE	Rating	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	g/kWh*	lb/hph*
D4-225/DPH	4	158/215	165/225	3500	232	0.376
D4-260/DPH	5	184/250	191/260	3500	230	0.373
D4-300/DPH	5	214/291	221/300	3500	221	0.358

DIMENSIONS AND WEIGHTS									
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**				
D4-225/DPH	982	845	780	644	1420				
D4-260/DPH	982	845	780	660	1455				
D4-300/DPH	982	845	780	663	1462				

^{*} Fuel consumption measured at rated power and speed.

** Dry weight including drive and propeller.



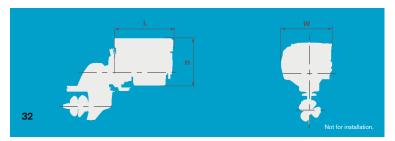
Bore x Stroke (mm): 103 x 110 Displacement (I): 5.5

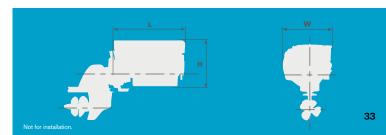


PROPULSION						
ENGINE	Rating	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm	g/kWh*	lb/hph*
D6-300/DPH	4	212/289	221/301	3500	242	0.392
D6-330/DPH	4	233/317	243/330	3500	235	0.381
D6-370/DPH	5	261/355	272/370	3500	236	0.382
D6-400/DPH	5	281/382	294/400	3500	219	0.355

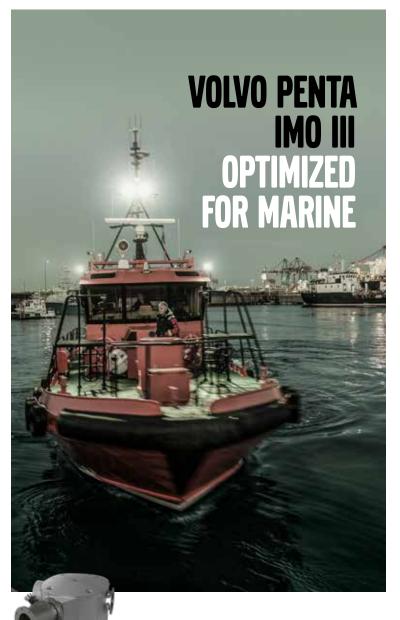
DIMENSIONS AND WEIGHTS						
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**	
D6-300/DPH	1218	845	780	750	1653	
D6-330/DPH	1218	845	780	750	1653	
D6-370/DPH	1218	845	780	770	1698	
D6-400/DPH	1347	845	780	785	1731	

^{*} Fuel consumption measured at rated power and speed.





^{**} Dry weight including drive and propeller.



Proven SCR technology ensures high engine power output while offering efficient NOx reduction. The Volvo Penta IMO Tier III solution is robust and designed for tough marine conditions. Based on SCR exhaust aftertreatment technology, our solution is available for IPS, inboard, genset and auxiliary applications. It is designed for flexibility, ease of installation and space-efficient configuration.

See more at www.volvopenta.com

VOLVO PENTA IPS

A revolutionary marine propulsion system. Volvo Penta IPS – Inboard Performance System – offers dramatically increased efficiency compared with inboard shafts. The patented, counter-rotating propellers work in undisturbed water and produce a completely horizontal thrust which results in 15% faster acceleration and 20% higher top speed. And thanks to the significantly reduced fuel consumption, cruising range is also greatly improved (30%).

Joystick manoeuvring

The new optional joystick makes docking and slowspeed manoeuvring easier than ever before. Simply move the joystick in the direction you want the boat to move, and the boat reacts to your intentions. All without the help of bow and stern thrusters!

The secret behind the amazing moves is the Volvo Penta IPS system with its individually steerable drive units. All controlled by sophisticated and specially developed software in the EVC system. The joystick is available for all Volvo Penta IPS-powered boats, also as retrofit.

Easy manoeuvring, powerful handling

Steerable propulsion units, instead of fixed propellers and rudders, means that Volvo Penta IPS turns and points the entire thrust in the desired direction. The result is 50% better turning radius and car-like manoeuvring for easy docking, as well as predictable handling at higher speeds.

Enhanced comfort

Volvo Penta IPS retains the traditional inboard benefits – such as propellers under the hull plus extensive use of bronze and stainless steel – while reducing vibrations, sound and exhaust fumes to a minimum.

Complete and integrated system

The Volvo Penta IPS has been developed and is manufactured as a complete system with everything included – engine, propulsion unit including gear box, propellers, exhaust and seawater system, steering, and controls. The system is always used in at least twinengine installation configurations.



The buttons on the joystick put a unique combination of functions within your easy reach. Dynamic Positioning, Joystick Driving, Joystick Docking and High Mode offer easier handling, increased safety, and reliable operation.



JOYSTICK DRIVING A whole new way to manoeuver with precision at all speeds. You steer comfortably with the joystick. The

integrated autopilot supports by automatically engaging after every course change.



HIGH MODE When you need extra power from the system, just press the High Mode button.



JOYSTICK DOCKING Makes

docking easy, even in tough conditions. Forget complicated manoeuvers in close quarters.

Just move the joystick in any direction and your boat will follow. You can install up to six Joystick Docking stations on your boat.



DYNAMIC POSITIONING SYSTEM

Press the button and your boat's position and heading are held within a very limited area - the

EVC system transforms GPS data into steering angles, gear shifts and throttle positions.



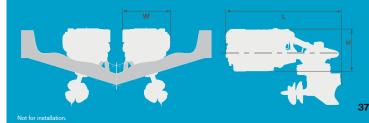
VOLVO PENTA IPS



PROPULSION SYSTEM				
ENGINE	Rating	Prop. shaft power kW/hp	Crankshaft power kW/hp	rpm
D6-IPS 400MC	4	210/286	221/301	3500
D6-IPS 450	4	231/314	243/330	3500
D6-IPS 500	5	260/353	272/370	3500
D6-IPS 600	5	307/418	320/435	3500
D8-IPS 600	3	315/428	331/450	2650
D8-IPS 650	4	356/484	375/510	2850
D8-IPS 700	4	384/523	404/550	2900
D8-IPS 800	5	419/570	441/600	3000
D11-IPS 650	3	354/482	375/510	2250
D11-IPS 800	4	435/591	459/625	2400
D11-IPS 950	5	504/685	533/725	2500
D13-IPS 900	3	485/660	515/701	2250
D13-IPS 1050	4	554/753	588/800	2300
D13-IPS 1200	5	624/848	662/900	2300
D13-IPS 1350	5	693/942	735/1000	2400

DIMENSIONS AND W	EIGHTS				
ENGINE	L (mm)	W (mm)	H (mm)	kg*	lb*
D6-IPS 400MC	2185	760	780	780	1720
D6-IPS 450	2185	760	780	863	1903
D6-IPS 500	2185	760	780	863	1903
D6-IPS 600	2185	760	780	863	1903
D8-IPS 600	2710	987	929	1418	3126
D8-IPS 650	2710	987	929	1418	3126
D8-IPS 700	2710	987	929	1418	3126
D8-IPS 800	2710	987	929	1418	3126
D11-IPS 650	3102	1006	989	1800	3968
D11-IPS 800	3102	1006	989	1800	3968
D11-IPS 950	3102	1006	989	1800	3968
D13-IPS 900	3103	1124	1220	2300	5060
D13-IPS 1050	3103	1124	1220	2300	5060
D13-IPS 1200	3103	1124	1220	2300	5060
D13-IPS 1350	3103	1124	1220	2300	5060

^{*} Dry weight including drive and propeller.





MARINE GENSETS

All Volvo Penta gensets are delivered complete and tested, ready for installation on board. All equipment and sets are type approved by the major classification societies and can be delivered with certification.

Compact yet easy to service

Engines and gensets that occupy less space in the engine room but still provide good service accessibility have always been a hallmark of Volvo Penta. Our range is designed for fast and trouble-free service operations and most engines support the use of computerised diagnostics tools which facilitate fault-tracing.

Fully compatible monitoring systems

Based on the Modbus protocol and equipped with a large number of hardwire contacts, the Volvo Penta control and monitoring system enables fast and safe integration with most switchboards and power management systems available on the market. The monitoring system and its range of functions – e.g. auto-start, shut-down and alarms – comply with all international standards.

Meeting future emission standards

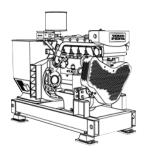
Our engine range meets the current exhaust emission requirements and many of our engines already comply with the emission standards which come into effect over the next couple of years.



D5A T MARINE GENSET

4-cylinder, 4-stroke, direct-injected, and turbo-charged marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 4.76



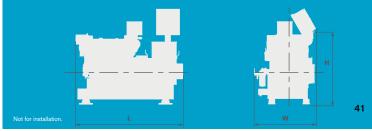
HEAT EXCHANGER COOLED	GENSETS			
	50 Hz 1500 rpm		60 Hz 180	0 rpm
ENGINE/GENERATOR	kVA*	kWe*	kVA*	kWe*
D5A T / UCM274C	78	62	93	74
D5A T / UCM274D	88	70	-	-

RADIATOR COOLED GENSETS							
	50 Hz 1500 rpm		60 Hz 1800 rpm				
ENGINE	kVA*	kWe*	kVA*	kWe*			
D5A T / UCM274C	78	62	85	68			

KEEL COOLED GENSETS				
	50 Hz 1500 rpm		60 Hz 18	00 rpm
ENGINE	kVA*	kWe*	kVA*	kWe*
D5A T / UCM274C	78	62	93	74
D5A T / UCM274D	88	70	-	-

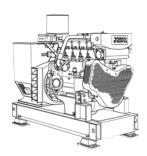
DIMENSIONS AND WEIGHTS**							
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb		
D5A T / UCM274C-1	1812	1046	1224	1195	2635		
D5A T / UCM274D-1	1812	1046	1224	1215	2679		

Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.



^{**} Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

D5A TA MARINE GENSET



4-cylinder, 4-stroke, direct-injected, and turbo-charged aftercooled marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 4.76

HEAT EXCHANGER COOLED GENSETS								
	50 Hz 1500 rpm		50 Hz 1500 rpm 60 Hz 1800 rp					
ENGINE	kVA*	kWe*	kVA*	kWe*				
D5A TA/UCM274D	-	-	110	88				
D5A TA/UCM274E	107	85	116	93				

KEEL COOLED GENSETS					
	50 Hz 1500 rpm		60 Hz 180	00 rpm	
ENGINE	kVA*	kWe*	kVA*	kWe*	
D5A TA/UCM274D	-	-	110	88	
D5A TA/UCM274E	107	85	116	93	

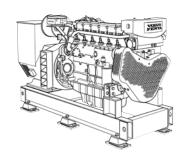
DIMENSIONS AND WEIGHTS**								
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb			
D5A TA/UCM274D	1812	1046	1224	1245	2745			
D5A TA/UCM274E	1925	1046	1224	1310	2888			

^{*} Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.



6-cylinder, 4-stroke, direct-injected, and turbo-charged marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 7.15



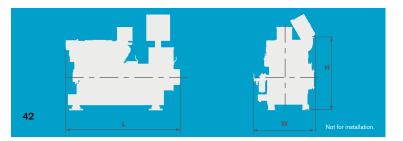
HEAT EXCHANGER COOLED GENSETS									
	50 Hz 1500 rpm		60 Hz 1800 rpm						
ENGINE	kVA*	kWe*	kVA*	kWe*					
D7A T/UCM274E	113	90	131	105					
D7A T/UCM274F	135	108	142	114					

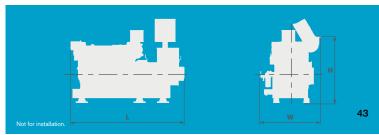
RADIATOR COOLED GENSETS									
	50 Hz 1500 rpm		60 Hz 1800 rpm						
ENGINE	kVA*	kWe*	kVA*	kWe*					
D7A T/UCM274D	88	70	110	88					
D7A T/UCM274F	130	104	134	107					

KEEL COOLED GENSETS					
	50 Hz 1500 rpm		60 Hz 18	300 rpm	
ENGINE	kVA*	kWe*	kVA*	kWe*	
D7A T/UCM274E	113	90	131	105	
D7A T/UCM274F	135	108	142	114	

DIMENSIONS AND WEIGHTS**								
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb			
D7A T/UCM274D***	2410	1157	1275	1515	3340			
D7A T/UCM274E	2191	1157	1275	1485	3274			
D7A T/UCM274F	2191	1157	1275	1520	3357			

Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.





^{**} Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

^{**} Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

^{***} Dimensions and weights based on radiator cooled genset.

D7A TA MARINE GENSET

6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 108 x 130 Displacement (I): 7.15

HEAT EXCHANGER COOLED GENSETS									
	50 Hz 1500 rpm		60 Hz 1800 rpm						
ENGINE	kVA*	kWe*	kVA*	kWe*					
D7A TA/UCM274F	-	-	156	125					
D7A TA/UCM274G	149	119	-	-					
D7A TA/UCM274H	163	130	173	139					

KEEL COOLED GENSETS					
	50 Hz 1500 rpm		60 Hz 18	00 rpm	
ENGINE	kVA*	kWe*	kVA*	kWe*	
D7A TA/UCM274F	-	-	156	125	
D7A TA/UCM274G	149	119	-	-	
D7A TA/UCM274H	163	130	173	139	

DIMENSIONS AND WEIGHTS									
ENGINE	L (mm)	W (mm)	H (mm)	kg**	lb**				
D7A TA/UCM274F	2191	1157	1275	1560	3439				
D7A TA/UCM274G	2239	1157	1275	1610	3549				
D7A TA/UCM274H	2275	1157	1275	1660	3660				

^{*} Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.

** Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 121 x 140 Displacement (I): 9.6



HEAT EXCHANGER COOL	ED GENSET	S			
	50 Hz 1	50 Hz 1500 rpm		300 rpm	
ENGINE	kVA*	kWe*	kVA*	kWe*	
D9 MG/UCM274H	-	-	213	170	
D9 MG/HCM434C	210	168	245	196	
D9 MG/HCM434D	230	184	270	216	
D9 MG/HCM434E	275	220	312	250	
D9 MG/HCM434F	281	225	-	-	

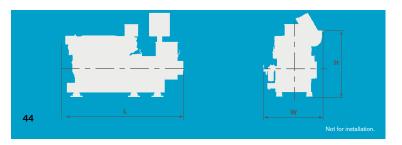
RADIATOR COOLED GEN	SETS				
		500 rpm	60 Hz 18	300 rpm	_
ENGINE	kVA*	kWe*	kVA*	kWe*	
D9 MG/UCM274H	170	136	213	170	
D9 MG/HCM434C	210	168	245	196	
D9 MG/HCM434D	230	184	270	216	
D9 MG/HCM434E	268	214	288	230	

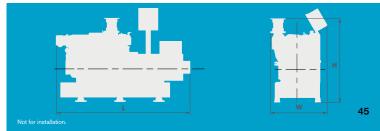
KEEL COOLED GENSETS				
	50 Hz 1500 rpm		60 Hz 18	00 rpm
ENGINE	kVA*	kWe*	kVA*	kWe*
D9 MG/UCM274H	-	-	213	170
D9 MG/HCM434C	210	168	245	196
D9 MG/HCM434D	230	184	270	216
D9 MG/HCM434E	275	220	312	250
D9 MG/HCM434F	282	225	-	-

DIMENSIONS AND WEI	GHTS**				
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb
D9 MG/UCM274H	2492	1161	1712	2260	4982
D9 MG/HCM434C	2660	1161	1712	2480	5467
D9 MG/HCM434D	2660	1161	1712	2570	5666
D9 MG/HCM434E	2660	1161	1712	2655	5853
D9 MG/HCM434F	2660	1161	1712	2790	6151

 $^{^{\}star}\,$ Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.

^{**} Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.





D13 MARINE GENSET



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 131 x 158 Displacement (I): 12.78

HEAT EXCHANGER COOLED GENSETS									
	50 Hz 1500 rpm		60 Hz 18						
ENGINE	kVA*	kWe*	kVA*	kWe*					
D13 MG/ HCM434F	310	248	375	300					
D13 MG/ HCM534C	355	284	426	341					
D13 MG/ HCM534D	415	332	475	380					

RADIATOR COOLED GENSETS							
	50 Hz 1500 rpm		60 Hz 18				
ENGINE	kVA*	kWe*	kVA*	kWe*			
D13 MG/ HCM434F	310	248	375	300			
D13 MG/ HCM534C	344	275	402	322			
D13 MG/ HCM534D	415	332	450	360			

KEEL COOLED GENSETS				
	50 Hz 1500 rpm		60 Hz 180	00 rpm
ENGINE	kVA*	kWe*	kVA*	kWe*
D13 MG/ HCM434F	310	248	375	300
D13 MG/ HCM534C	355	284	426	341
D13 MG/ HCM534D	415	332	475	380

DIMENSIONS AND WEIGHTS**					
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb
D13 MG/ HCM434F	2739	1174	1814	3070	6768
D13 MG/ HCM534C	2817	1174	1814	3175	6999
D13 MG/ HCM534D	2817	1174	1814	3305	7286





DI6 MARINE GENSET



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 144 x 165 Displacement (I): 16.1

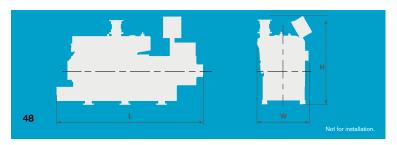
HEAT EXCHANGER COOLED GENSETS							
	50 Hz 1500 rpm		60 Hz 18	60 Hz 1800 rpm			
ENGINE	kVA*	kWe*	kVA*	kWe*			
D16 MG/HCM534D	415	332	488	390			
D16 MG/HCM534E	490	392	588	470			
D16 MG/HCM534F	525	420	596	477			

RADIATOR COOLED GENSETS								
	50 Hz 1	500 rpm	60 Hz 18	00 rpm				
ENGINE	kVA*	kWe*	kVA*	kWe*				
D16 MG/HCM534D	415	332	488	390				
D16 MG/HCM534E	490	392	560	448				
D16 MG/HCM534F	518	414	-					

KEEL COOLED GENSETS				
	50 Hz 150	00 rpm	60 Hz 180	00 rpm
ENGINE	kVA*	kWe*	kVA*	kWe*
D16 MG/HCM534D	415	332	488	390
D16 MG/HCM534E	490	392	588	470
D16 MG/HCM534F	525	420	596	477

DIMENSIONS AND WEIGHTS**						
ENGINE	L (mm)	W (mm)	H (mm)	kg	lb	
D16 MG/HCM534D	3131	1192	1842	3626	7994	
D16 MG/HCM534E	3131	1192	1842	3776	8325	
D16 MG/HCM534F	3131	1192	1842	4034	9633	

Power output based on temperature rise class F, 400V for 50Hz and 440V for 60 Hz series star connection.
 ** Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.







Maximum uptime always starts with premium product quality. Well-designed, robust, high-performing engines and drive systems. The materials, the excellence in engineering and the innovativeness. Proven technologies means reliability. Volvo Penta marine commercial equipment is tried and tested in demanding conditions all over the world – for more than a hundred years.

Predictability increases uptime. Volvo Penta service agreements can be tailored to your operating needs and budget to include anything from regular inspections to a comprehensive service and maintenance program that includes preventive repairs. The service agreement is between you and your Volvo Penta dealer, and helps you maximize uptime, lower total cost of ownership and improve cost control.

Unique fuel efficiency

Fuel efficiency is the most decisive factor for cost of operation and cost of ownership. Fuel consumption accounts for the largest portion of your total operational cost. Any fuel saving you can achieve goes straight to the bottom line.



"Wherever, whenever - we are there to support."



On call 24/7/365 in 28 languages

Our global dealer network – your first line of contact – is backed up by Volvo Penta Action Service, a phone-based breakdown and support service providing assistance 24 hours a day, every day of the year.

Global dealer network, with local expertise

The Volvo Penta marine commercial dealer network covers 130 countries, with 700 authorized dealers worldwide. They comply with our marine commercial dealer operating standard, which is designed to ensure consistently high-quality service and support. This includes 24/7accessibility, parts availability, advanced diagnostics, and technical competence to secure the local expertise necessary to keep your business going.

Find your nearest Volvo Penta dealer on volvopenta.com or download our dealer locator app.

World class parts distribution network

As part of the Volvo Group, we benefit from of one of the world's most efficient parts distribution networks in the industry – the Volvo Group Logistics Services. Working from 17 key locations around the world, 24/7, to ensure you get the right parts at the right place at the right time.



Volvo Penta global service and support - ensuring business is running at full capacity.

Volvo Penta global service and support

- · Global marine commercial dealer network
- · World class parts distribution network
- Volvo Penta Action Service
- Exchange Components
- · Repair & Overhaul kits
- Service Agreements
- Volvo Penta Oil Analysis
- · Extended Coverage
- · Quickline repowering service

Check out the Volvo Penta global service and support film:



"Ensuring your business is running at full capacity."

With Volvo Penta engines on board, uncompromising standards are built into your ship. Our comprehensive product program with engine outputs ranging from 100 to 1000 hp includes propulsion and auxiliary engines as well as complete marine generator sets. Advanced installation engineering ensures optimised durability and performance, while our extensive dealer network provides the service and parts which maximise engine lifetime. Ensuring high productivity and protecting the value of your investment.

Altogether, this makes Volvo Penta a leading worldwide supplier of power for marine professionals.



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