

OPTIONAL EQUIPMENT* List:

PAINT SYSTEM

PAINT KIT
 (Paint, primer, undercoat and glass coat
 kit) (1000)

ACCESSORIES

PAINT KIT
 Complete maintenance

LABOUR/MAINTENANCE

PAINT KIT
 Complete maintenance

WEIGHT SYSTEM

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT SYSTEM

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT SYSTEM

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT SYSTEM

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT AND CONTROL SYSTEM

WEIGHT AND CONTROL SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

WEIGHT SYSTEM

WEIGHT SYSTEM
 (Weight system, scale, scale
 and scale) (1000)

DATA

Capacity	1000
Weight	1000
Power consumption	1000
Weight of paint	1000
Weight of maintenance	1000
Weight of paint	1000
Weight of maintenance	1000
Weight of paint	1000
Weight of maintenance	1000



1. The weight of paint is 1000.
2. The weight of maintenance is 1000.
3. The weight of paint and maintenance is 1000.
4. The weight of paint and maintenance is 1000.
5. The weight of paint and maintenance is 1000.

CONSTRUCTION DRAWINGS



VOLO PENTA

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ENGINE DIAGRAM

MAHLE DIESEL ENGINE
 MAHLE DIESEL ENGINE

Model No. 78C
 Serial No. 100-1

Model No. 78C Serial No. 100-1

TABLE 1

Fuel consumption (at 1000 RPM, 100% load)		
Fuel consumption (at 1000 RPM, 75% load)		
Fuel consumption (at 1000 RPM, 50% load)	1	1
Fuel consumption (at 1000 RPM, 25% load)	0.5	0.5
Fuel consumption (at 1000 RPM, 10% load)	0.2	0.2
Fuel consumption (at 1000 RPM, 5% load)	0.1	0.1
Fuel consumption (at 1000 RPM, 2% load)	0.05	0.05
Fuel consumption (at 1000 RPM, 1% load)	0.02	0.02
Fuel consumption (at 1000 RPM, 0.5% load)	0.01	0.01
Fuel consumption (at 1000 RPM, 0.2% load)	0.005	0.005
Fuel consumption (at 1000 RPM, 0.1% load)	0.002	0.002
Fuel consumption (at 1000 RPM, 0.05% load)	0.001	0.001
Fuel consumption (at 1000 RPM, 0.02% load)	0.0005	0.0005
Fuel consumption (at 1000 RPM, 0.01% load)	0.0002	0.0002



Table 1 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Table 2 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Table 3 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Values are given in kg/hr.

Table 4 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Table 5 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Table 6 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

Table 7 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.

The typical value for the engine is given in kg/hr.

All measurements apply to a 24-hr cycle.

Table 8 shows fuel consumption values for the engine at various loads and speeds. Values are given in kg/hr.





TMD 70B



Cylinder, direct injection, 4-stroke diesel engine with turbocharging.

Maximum shaft output 141 kW (194 hp) - 1500 rpm, 133 kW (184 hp) - 1800 rpm.



EXHAUST GAS CLEANUP

EXHAUST FILTER - Exhaust particulate control based on paper and/or ceramic technology, with very low pressure drop. Filter and bypass system have 100% of operating time available for the engine.

EXHAUST CONDENSER - Exhaust gas cooled from 150°C (300°F) to 100°C (212°F) to reduce particulate emissions. Condenser and bypass system in series, ensuring very low particulate emissions. Low flow and bypass valves close at 1000 rpm or less. The condenser has a bypass valve closed for engine speeds above 1000 rpm. The bypass valve opens and closes automatically whenever the gas filter becomes clogged with particulate and/or soot. The bypass valve:

EXHAUST VALVE - Exhaust valve and pressure sensor. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.

EXHAUST PIPING - Exhaust piping with heat shield. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.

EXHAUST MANIFOLD - Exhaust manifold with low backflow and low emissions. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.

EXHAUST SYSTEM - Exhaust system with low backflow and low emissions. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.

EXHAUST FILTER - Exhaust filter with low backflow and low emissions. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.

EXHAUST SYSTEM - Exhaust system with low backflow and low emissions. It is designed to minimize backflow and reduce emissions. It features low flow, automatic, spring assisted, 90° rotation valve.



EXHAUST SYSTEM

- | | |
|---------------------|----------------------|
| 1. EXHAUST VALVE | 2. EXHAUST |
| 3. EXHAUST PIPING | 4. EXHAUST CONDENSER |
| 5. EXHAUST MANIFOLD | 6. EXHAUST FILTER |
| 7. EXHAUST SYSTEM | |

EXHAUST SYSTEM - The exhaust system with low backflow and low emissions.

EXHAUST SYSTEM - The exhaust system with low backflow and low emissions.

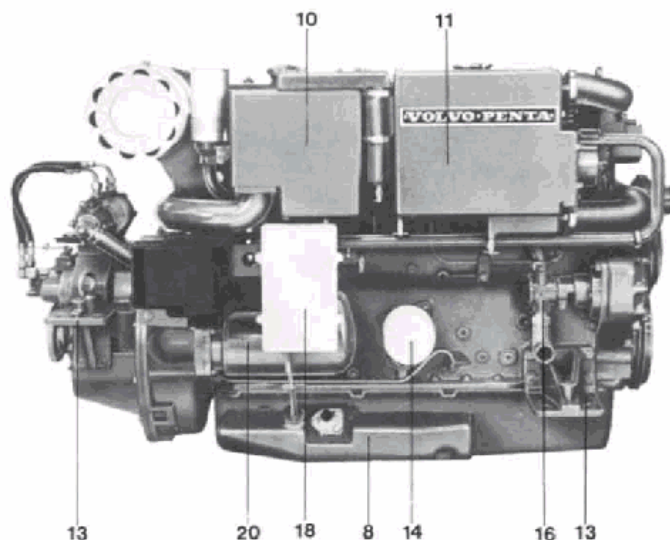
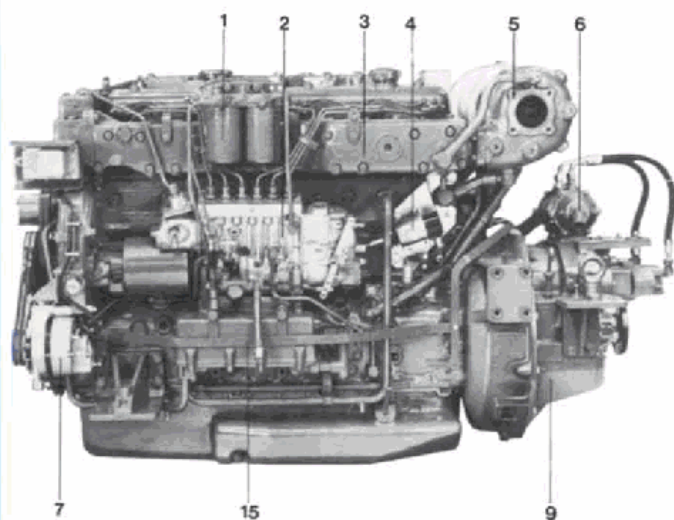
- 1. Exhaust Valve
- 2. Exhaust Piping
- 3. Exhaust Manifold
- 4. Exhaust Condenser
- 5. Exhaust Filter
- 6. Exhaust System



TAMD 70D

6-cylinder, direct-injected 4-stroke diesel engine with turbo-charging and after cooler.

Flywheel power at sea-level conditions 210 kW (286 hp). Air pressure 1,01 bar (29,2 in merc), temperature 15°C (60°F).



STANDARD EQUIPMENT

ENGINE BODY – Cylinder block and cylinder heads of special-alloy cast iron. Double cylinder heads with steel gaskets. Replaceable, wet-type cylinder liners. Pistons of light-alloy with cast iron ring carriers. Three compression rings and one oil scraper ring. The upper compression ring is chromed. Crankshaft and camshaft are journaled in seven bearings and have surface-hardened bearing races. Main- and big-end bearing shells of lead-bronze. The camshaft, drive outputs, sea-water, injection and lubricating oil pumps are gear-driven. Over-head valves and replaceable valve seats. The engine is delivered with engine brackets for fixed mounting (13).

FUEL SYSTEM – Injection pump (2) with centrifugal governor and feed pump as well as flexible hoses with fuel pipe connections for the suction and return lines. Electrically operated stop device (4). Twin fine filters (1).

COOLING SYSTEM – Fresh-water cooling with plate heat exchanger (11) or tubular heat exchanger. Raw-water pump 1" (16). The engine temperature is regulated by means of two thermostats. The engine has lubricating oil cooled pistons.

LUBRICATING SYSTEM – Pressure lubricating system with lubricating oil filter of spin-on type (14). Fresh-water cooled oil cooler (15). Lubricating oil sump (8) with shallow profile.

TURBOCHARGING SYSTEM – Exhaust gas driven turbo-compressor for supercharging the intake air (5). Fresh-water cooled turbine housing. Raw-water cooled aftercooler (10) for cooling compressor air, which gives a higher degree of efficiency. Air filter of changeable type with insert of special paper. Air pre-heater with electric wiring box (18) for rapid starting and reduced exhaust smoke.

EXHAUST SYSTEM – Fresh-water cooled exhaust manifold (3). The turbo-compressor exhaust outlet has a flange for connection of exhaust line.

ELECTRICAL SYSTEM – 24 V starter motor 3 kW (4 hp) (20). Electrical stopping device.

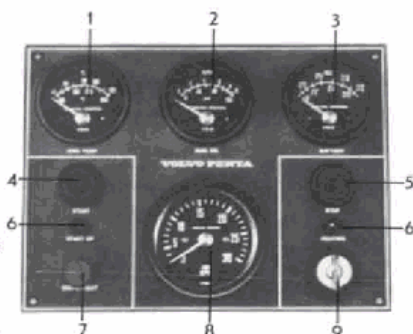
EXTRA EQUIPMENT

ELECTRICAL SYSTEM – Volvo Penta electrical system with cut-out relay. This relay prevents engagement of the starter motor unintentionally when the engine is running. Instrument panel, 12 or 24 V, with rheostat and cable harness 6 m (21 ft.). Ready-connected "plug-in" contacts. Alternator alternatives

Alternator	12 V/38 A
Alternator	24 V/25 A (7)
Alternator	24 V/60 A

Instrument panel with:

1. Temperature gauge
2. Oil pressure gauge
3. Voltmeter
4. Start contact
5. Stop contact
6. Warning lamps for air pre-heating
7. Rheostat, instrument lighting
8. Rev counter
9. Key switch



POWER TRANSMISSION – The engine is supplied with hydraulically operated reverse gear equipped with oil cooler (6) and pre-drilled propeller shaft flange according to the following alternatives:

- | | | |
|---------|-------------------|--|
| Alt. 1. | Twin Disc MG 506 | red. ratio 1:1 for L-H and R-H prop. (9) |
| 2. | | red. ratio 1,5:1 for L-H and R-H prop. (9) |
| 3. | | red. ratio 2:1 for L-H and R-H prop. (9) |
| 4. | | red. ratio 3:1 for L-H and R-H prop. (9) |
| 5. | Twin Disc MG 507* | red. ratio 1:1 for L-H and R-H prop. |
| 6. | | red. ratio 1,5:1 for L-H and R-H prop. |
| 7. | | red. ratio 1,98:1 for L-H and R-H prop. |
| 8. | | red. ratio 2,99:1 for L-H and R-H prop. |

* For light commercial duty

EXTRA EQUIPMENT

FUEL SYSTEM

Twin fuel filters
Water-separating fuel filter with glass or metal housing

COOLING SYSTEM

Fresh-water filter
Cooling-water intake complete

EXHAUST SYSTEM

Water-cooled exhaust elbow
Exhaust rubber hose for wet exhaust line
Hull through-fitting, complete
Exhaust boot
Dry exhaust elbow
Compensator for straight installation
Joint piece (6" to 5") for wet exhaust line

POWER TRANSMISSION

Drive outputs at front of timing gear casing.
Vee-belt pulley for crankshaft.

ELECTRICAL SYSTEM

Charging distributor for charging 2-battery system
Master switch
Instrument panel with, among others, hourmeter, warning lamps, warning siren and pressure gauge for reverse gear oil pressure and turbo charging pressure
Instrument panel with rudder indicator and tank gauge
Cable harness extension

ENGINE MOUNTING

Flexible engine mounting

BOAT ACCESSORIES

Bilge pump direct-driven mounted on timing gear casing
Bilge pump for separate mounting
Ejector for bilge pump
Oil scavenging pump, electrical
Oils
Paints
Anti-freeze
Tool kit

CONTROLS AND CONTROL SYSTEM

VP single-control lever for both speed and forward-reverse operation, top-mounted or side mounted. Single or twin installation
Neutral position switch – automatic safety interlock for VP-controls
S-type control. Top-mounted, only speed regulation
Control cables
Dual station control unit

PROPELLER EQUIPMENT

Flexible propeller shaft coupling
Propeller shafts
Propeller shaft sleeves
Propellers

DATA

Type of operation	4-stroke, turbo-charged aftercooled diesel engine with direct injection and overhead valves
Type designation	TAMD 70D
Propeller shaft power, pleasure craft duty (B) ¹⁾	199 kW (270 hp) at 2500 r/min
Propeller shaft power, light commercial duty (C) ²⁾	177 kW (240 hp) at 2500 r/min
Number of cylinders	6
Capacity, total	6.73 dm ³ (410 in. ³)
Bore	104.77 mm (4.13 in.)
Stroke	130 mm (5.12 in.)
Total weight, engine with rev. gear TD MG 506 approx	920 kg (2030 lb.)

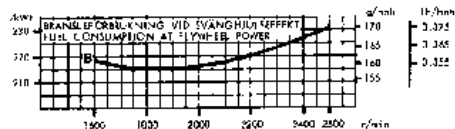
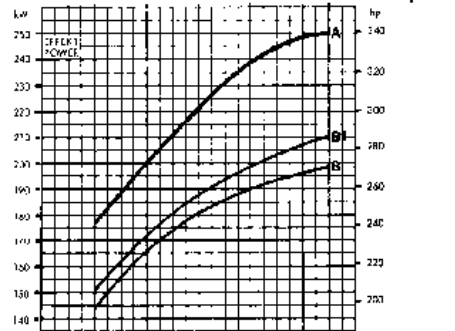
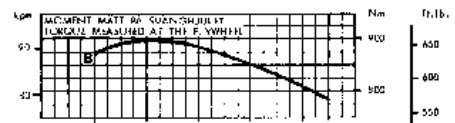
¹⁾ **Curve A:** Highest flywheel power obtainable in the test room without thermal overload. This power corresponds to DIN 6270 "Höchstleistung".

Curve B1: Flywheel power for pleasure craft duty (sea level conditions). Air pressure = 1,01 bar (29.2 in. merc), temperature = 15.0°C (60°F).

Curve B: Propeller shaft power for pleasure craft duty according to DIN 6270 Leistung B (corresponds for practical use also to 1-hour's power according to BS 649, 1958). On y occasional use at full engine throttle. Normal cruising is expected to be at a comfortable part-throttle operation.

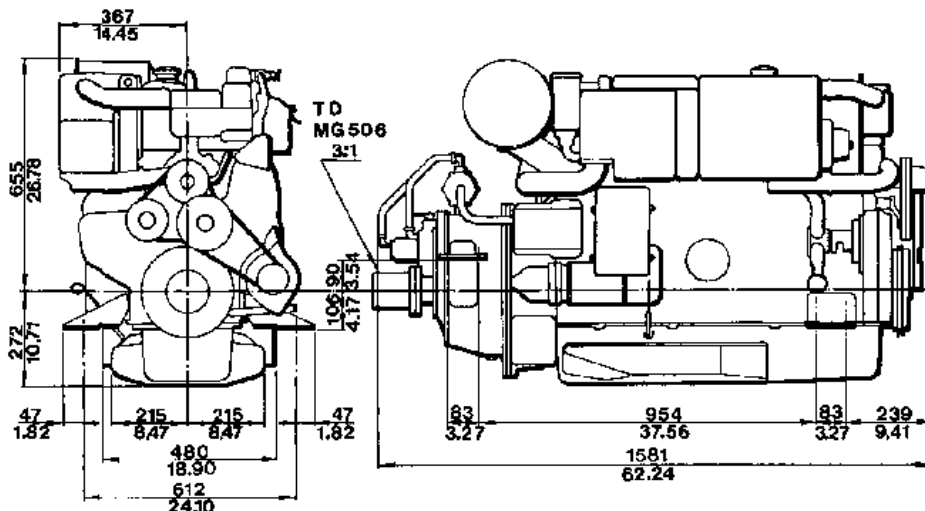
The flywheel power for the engine is approx 3% higher than the indicated values for B-curves. All measurements apply to a run-in engine.

²⁾ Engine Diagram see separate sheet Group 21 no 120-1.



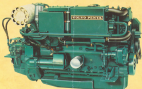
1 hk = 1 hp (metric system) = 0.986 HP (Imp./US meas. system)

DIMENSION DRAWING



VOLVO PENTA

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Telephone: 031/23 54 60
Cables: Penta Göteborg
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Length mm (inches)			Maximum height mm (inches)			Total dry weight kg (lb)			Displacement dm ³ (in ³)		Compression ratio		Stroke and rpm (range)	
mm	in	range	mm	in	range	kg	lb	range	dm ³	in ³			mm	rpm
521	20.5	2050	330	13.0	1800	110	242	2000	4.73	287	14.5:1		100	1500-2200

¹ For information on the latest Volvo Penta engines, visit us on-line at www.volvopenta.com.



Powerful. Fuel-thrifty. Dependable in use.

The TAMD 70E is a four stroke direct injection, in-line, six-cylinder diesel that has been built for marine operation. Designed right from the very start for better charging and eliminating some of the advantages:

- High output.** Compact outer dimensions and low weight in relation to output facilitate installation and provide the conditions for excellent performance. At maximum output operation, the weight/output ratio is 0.7 kg/kW.
- Low fuel consumption.** The extensive experience of Volvo-Penta and extensive work on turbocharging and aftercooling have resulted in extremely efficient combustion of the fuel throughout the entire engine speed range.
- High level of operational dependability.** The TAMD 70E is based on proven and well-tested six-cylinder Volvo engines. A robust and well-balanced design that gives the user the ability to operate dependably under long periods.
- An extensive range of accessories.** For example fueling and MCO pumps, power take-offs, generators, automatic cooling systems, etc. This permits individual customization for both pleasure craft and workboats.
- Easy to install.** Compact. Low profile. In order to facilitate installation, all cables terminate in an electrical connection box where the cables terminate to the instrument panel is attached by means of separate connections.



Sound Levels
The noise level is low and meets the requirements of ISO 8593. The sound power level is 105 dB(A) at 1500 rpm.

Dimensions
The dimensions are given in the technical drawing.

Weight
The weight is given in the technical drawing. The weight is 100 kg.

Oil
The oil is given in the technical drawing. The oil is SAE 100.

Oil
The oil is given in the technical drawing. The oil is SAE 100.

Oil
The oil is given in the technical drawing. The oil is SAE 100.

Oil
The oil is given in the technical drawing. The oil is SAE 100.

Technical drawing

Item	Value	Unit
Power	100	kW
Speed	1500	rpm
Weight	100	kg
Oil	SAE 100	

Technical drawing
The technical drawing is given in the technical drawing.

Technical drawing
The technical drawing is given in the technical drawing.

Technical drawing
The technical drawing is given in the technical drawing.

Your Volvo Penta representative



TAMD 71 A

6-cylinder, 4-stroke, direct-injected, turbocharged marine diesel with aftercooler - crankshaft power* 287 kW (395 hp)

The TAMD 71 A is a powerful, reliable and environmentally sound choice to drive Volvo Penta's most comprehensive range of equipment. The engine can be perfectly matched to your customer and market demands.

The 6-cylinder arrangement provides excellent torque. The cylinder arrangement offers better weight control, the cylinder head design, the intake valve arrangement and the 4-strokes. The pistons are oil-coated, which reduces maintenance demands. The two valves per cylinder improve scavenging, reduce air resistance and increase the engine efficiency.

The exhaust system is 27" in diameter if fitted, it complies with government regulations. Alternatively a 20" diameter system may be specified. Automatic timing of the injection is precise, leading to a low specific fuel consumption.

The injection pump is equipped with a pressure-reducing device which reduces the pressure of fuel during soft acceleration and under heavy loads. A bypass valve between the turbocharger and the diesel pump allows pressure relief in the event of a waterlock when the engine is started without a starter under conditions of low fuel. Additionally, a bypass controls the degree of boost although the charge of water-injected fuel is at low specific density throughout acceleration.

The turbocharging system is protected from water vapour through the built-in anti-siphon back-check valve. The oiler and oiler are not mounted on the turbocharger engine.

High performance and environmental soundness is met through excellent cooling. A cooling water pump provides pump-out and cooled by water pressure provides for constant water flow and precise control.

*Crankshaft power according to ISO 3081 and ISO 1585 standard.

Technical description of the engine

• 6-cylinder, 4-stroke, direct-injected, turbocharged marine diesel with aftercooler

- 27" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe
- 20" exhaust pipe

• 20" exhaust pipe

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• 20" exhaust pipe

• 20" exhaust pipe

• 20" exhaust pipe

• 20" exhaust pipe



TAMD 71 A - 287 kW (395 hp)



VOLVO PENTA

TAMD71A

Technical data, TAMD71A & marine engine

Model	TAMD71A
Year of introduction	1987
Stroke	70 mm
Bore	52 mm
Displacement	1.82 l
Compression ratio	18.5:1
Weight (dry)	10.5 kg
Weight (with oil)	11.5 kg
Weight (with oil and water)	13.5 kg
Weight (with oil and water, including propeller)	15.5 kg
Weight (with oil and water, including propeller, including mounting bracket)	17.5 kg

Maximum power (kW)
 15.0 (20.1 hp) @ 3000 rpm
 12.0 (16.4 hp) @ 2500 rpm
 10.0 (13.6 hp) @ 2000 rpm
 8.0 (10.9 hp) @ 1500 rpm
 6.0 (8.2 hp) @ 1000 rpm

Maximum torque (Nm)
 12.0 @ 2500 rpm
 10.0 @ 2000 rpm
 8.0 @ 1500 rpm
 6.0 @ 1000 rpm

Maximum speed (km/h)
 40 @ 3000 rpm
 35 @ 2500 rpm
 30 @ 2000 rpm
 25 @ 1500 rpm
 20 @ 1000 rpm

Maximum fuel consumption (l/h)
 1.5 @ 3000 rpm
 1.2 @ 2500 rpm
 1.0 @ 2000 rpm
 0.8 @ 1500 rpm
 0.6 @ 1000 rpm

rpm	SPECIFICATIONS		
	Power (kW)	Torque (Nm)	Speed (km/h)
3000	15.0	12.0	40
2500	12.0	12.0	35
2000	10.0	10.0	30
1500	8.0	8.0	25
1000	6.0	6.0	20

*Values are for 100% throttle at 1000-3000 rpm. Values are for 100% throttle at 1000-3000 rpm.

**Values are for 100% throttle at 1000-3000 rpm. Values are for 100% throttle at 1000-3000 rpm.

***Values are for 100% throttle at 1000-3000 rpm. Values are for 100% throttle at 1000-3000 rpm.

Approximate maximum torque (Nm)



Approximate maximum speed (km/h)



Approximate maximum fuel consumption (l/h)

Dimensions



TAMD71A/TAMD71A

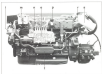
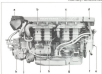
TAMD 718

Special Light Duty (SLD), Light Duty (LD), Medium Duty (MD), Heavy Duty (HD)
Injection, 4-stroke, direct injected turbo-charged marine
Diesel engine with after-cooler - crankshaft power¹ 260 kW (350 hp)

¹ISO 15930 - 1999

Compact, powerful marine diesel

- Superior space utilization: engine compartment design dependent on the design
- Dimensions
 - low deck height at 1900 mm
 - deck height with propellers at 2000 mm
 - deck height with propellers at 2050 mm
 - deck height with propellers at 2100 mm
- Superior cooling: ductless air cooled after-cooler, turbocharger
- Designed to meet, fulfil and exceed ISO 15930 - 1999
- ISO 15930 - 1999 performance and emission test results are also valid for ISO 15931
- Comprehensive compliance offering:
 - MEPC 107/01 (IMO MARPOL 73/78 Annex I)
 - MEPC 107/02 (IMO MARPOL 73/78 Annex II)
 - MEPC 107/03 (IMO MARPOL 73/78 Annex III)
 - MEPC 107/04 (IMO MARPOL 73/78 Annex IV)
 - MEPC 107/05 (IMO MARPOL 73/78 Annex V)
 - MEPC 107/06 (IMO MARPOL 73/78 Annex VI)
 - MEPC 107/07 (IMO MARPOL 73/78 Annex VII)
 - MEPC 107/08 (IMO MARPOL 73/78 Annex VIII)
 - MEPC 107/09 (IMO MARPOL 73/78 Annex IX)
 - MEPC 107/10 (IMO MARPOL 73/78 Annex X)
 - MEPC 107/11 (IMO MARPOL 73/78 Annex XI)
 - MEPC 107/12 (IMO MARPOL 73/78 Annex XII)
 - MEPC 107/13 (IMO MARPOL 73/78 Annex XIII)
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 - MEPC 107/43 (IMO MARPOL 73/78 Annex XXXXIII)
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 - MEPC 107/45 (IMO MARPOL 73/78 Annex XXXXV)
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 - MEPC 107/47 (IMO MARPOL 73/78 Annex XXXXVII)
 - MEPC 107/48 (IMO MARPOL 73/78 Annex XXXXVIII)
 - MEPC 107/49 (IMO MARPOL 73/78 Annex XXXXIX)
 - MEPC 107/50 (IMO MARPOL 73/78 Annex XXXXX)
- High, low and medium speed, 1000 rpm, 1500 rpm, 1800 rpm, 2100 rpm, 2400 rpm, 2700 rpm, 3000 rpm, 3300 rpm, 3600 rpm, 3900 rpm, 4200 rpm, 4500 rpm, 4800 rpm, 5100 rpm, 5400 rpm, 5700 rpm, 6000 rpm, 6300 rpm, 6600 rpm, 6900 rpm, 7200 rpm, 7500 rpm, 7800 rpm, 8100 rpm, 8400 rpm, 8700 rpm, 9000 rpm, 9300 rpm, 9600 rpm, 9900 rpm, 10200 rpm, 10500 rpm, 10800 rpm, 11100 rpm, 11400 rpm, 11700 rpm, 12000 rpm, 12300 rpm, 12600 rpm, 12900 rpm, 13200 rpm, 13500 rpm, 13800 rpm, 14100 rpm, 14400 rpm, 14700 rpm, 15000 rpm, 15300 rpm, 15600 rpm, 15900 rpm, 16200 rpm, 16500 rpm, 16800 rpm, 17100 rpm, 17400 rpm, 17700 rpm, 18000 rpm, 18300 rpm, 18600 rpm, 18900 rpm, 19200 rpm, 19500 rpm, 19800 rpm, 20100 rpm, 20400 rpm, 20700 rpm, 21000 rpm, 21300 rpm, 21600 rpm, 21900 rpm, 22200 rpm, 22500 rpm, 22800 rpm, 23100 rpm, 23400 rpm, 23700 rpm, 24000 rpm, 24300 rpm, 24600 rpm, 24900 rpm, 25200 rpm, 25500 rpm, 25800 rpm, 26100 rpm, 26400 rpm, 26700 rpm, 27000 rpm, 27300 rpm, 27600 rpm, 27900 rpm, 28200 rpm, 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Strongly showing the front view and

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|----------------|--------------------------|-------------------------|
| 1. Flywheel | 13. Turbocharger | 21. Cooling fan |
| 2. Piston | 14. Turbocharger housing | 22. Cooling fan housing |
| 3. Crankshaft | 15. Turbocharger housing | 23. Cooling fan housing |
| 4. Crankshaft | 16. Turbocharger housing | |
| 5. Crankshaft | 17. Turbocharger housing | |
| 6. Crankshaft | 18. Turbocharger housing | |
| 7. Crankshaft | 19. Turbocharger housing | |
| 8. Crankshaft | 20. Turbocharger housing | |
| 9. Crankshaft | 21. Turbocharger housing | |
| 10. Crankshaft | 22. Turbocharger housing | |
| 11. Crankshaft | 23. Turbocharger housing | |
| 12. Crankshaft | | |

6-cylinder, 4-stroke, direct injected turbocharged marine diesel with aftercooler - crankshaft power* 216 kW (430 hp)

Compact, powerful marine diesel

The TAMD 72 is a compact, powerful and efficient marine diesel engine for 1000-1500 kW. Its compact, lightweight design, featuring an aftercooler, makes it ideal for use in a variety of applications.

High torque

Thanks to the turbo and the common rail, the engine produces high torque at low engine speeds. This makes it a top choice for marine applications requiring high torque and low engine speeds.

Low emissions and low noise level

The TAMD 72 is designed to produce low emissions and low noise. This is achieved through a combination of advanced engine design and the use of low-noise components.

The engine is also designed to be highly efficient, with a high torque output and low fuel consumption. This makes it an ideal choice for marine applications where efficiency is a key requirement.

Low emissions level

The TAMD 72 is designed to produce low emissions, both in terms of CO₂ and NOx. This is achieved through a combination of advanced engine design and the use of low-emission components.

The engine is also designed to be highly efficient, with a high torque output and low fuel consumption. This makes it an ideal choice for marine applications where efficiency is a key requirement.

Simple maintenance

The TAMD 72 is designed to be easy to maintain, with a simple and intuitive layout. This makes it an ideal choice for marine applications where ease of maintenance is a key requirement.

The engine is also designed to be highly efficient, with a high torque output and low fuel consumption. This makes it an ideal choice for marine applications where efficiency is a key requirement.

Large service access

The TAMD 72 is designed to be easy to service, with a large service access panel. This makes it an ideal choice for marine applications where ease of service is a key requirement.

*Crankshaft power (gross power) at 1800 rpm

Technical specifications of the engine

Model: TAMD 72
Cylinder: 6
Stroke: 140 mm
Bore: 140 mm
Displacement: 10.5 l

- Power: 216 kW (430 hp) at 1800 rpm
- Torque: 1800 Nm at 1200 rpm
- Fuel consumption: 180 g/kWh
- Emissions: 180 g/kWh
- Noise level: 180 dB(A)
- Service access: 1800 mm
- Maintenance: 1800 mm
- Weight: 1800 kg
- Dimensions: 1800 mm x 1800 mm x 1800 mm
- Applications: 1800 kW
- Fuel system: 1800 l/h
- Lubrication: 1800 l/h
- Cooling system: 1800 l/h
- Aftercooler: 1800 l/h
- Turbocharger: 1800 l/h
- Emissions: 180 g/kWh
- Noise level: 180 dB(A)
- Service access: 1800 mm
- Maintenance: 1800 mm

Engine equipment

- Turbocharger
- Aftercooler
- Fuel system
- Lubrication
- Cooling system
- Emissions
- Noise level
- Service access
- Maintenance

Weight options

- 1800 kg
- 1800 kg
- 1800 kg
- 1800 kg

Fuel system

- 1800 l/h
- 1800 l/h

Emissions level

- 180 g/kWh
- 180 g/kWh
- 180 g/kWh
- 180 g/kWh
- 180 g/kWh
- 180 g/kWh
- 180 g/kWh
- 180 g/kWh

Service access

- 1800 mm
- 1800 mm
- 1800 mm
- 1800 mm
- 1800 mm
- 1800 mm
- 1800 mm
- 1800 mm

Cooling system

- 1800 l/h
- 1800 l/h

Maintenance

- 1800 mm
- 1800 mm

Volvo Penta is a leader in marine diesel engines. For more information, visit our website at www.volvopenta.com.



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TRIMOTOR 800

Technical Data

Power (kW)	TRIMOTOR 800
Power (hp)	108 (147)
Number of cylinders and configuration	4 stroke, 4-cyl. in-line
Stroke (mm)	70
Cylinder bore (mm)	
Stroke (mm)	70
Stroke (in)	2.75
Bore (mm)	70
Bore (in)	2.75
Displacement (cc)	1980
Displacement (cu in)	120.8
Displacement (cu ft)	6.8
Displacement (gal)	0.88
Displacement (cu yd)	0.034
Weight (kg)	100 (220)
Weight (lb)	220 (485)
Weight (cu ft)	0.034
Weight (cu yd)	0.0013
Weight (cu ft)	0.034
Weight (cu yd)	0.0013
Weight (kg)	100 (220)
Weight (lb)	220 (485)
Weight (cu ft)	0.034
Weight (cu yd)	0.0013
Weight (kg)	100 (220)
Weight (lb)	220 (485)
Weight (cu ft)	0.034
Weight (cu yd)	0.0013

TRIMOTOR 800
 TRIMOTOR 800
 TRIMOTOR 800
 TRIMOTOR 800

Performance Curves and Fuel Consumption

TRIMOTOR 800
 TRIMOTOR 800
 TRIMOTOR 800

TRIMOTOR 800 Power

TRIMOTOR 800
 TRIMOTOR 800



TRIMOTOR 800 Torque

TRIMOTOR 800
 TRIMOTOR 800

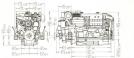


TRIMOTOR 800 Fuel Consumption

TRIMOTOR 800
 TRIMOTOR 800



Dimensions (TRIMOTOR 800) with 5000R-2 (Fuel Injection Analytic System)



**VOVO
 PINTA**

All Vovo Pinta
 Lubrication Systems

VOLVO PENTA INBOARD DIESEL

TAMD74A

6-cylinder, 4-stroke, direct-injected, turbocharged marine diesel engine with aftercooler – crankshaft power* 154–257 kW (209–350 hp)

* Power rating – see Technical Data

Reliable and powerful

The TAMD74A is a powerful, reliable and economical marine diesel built on the dependable in-line six design.

Developed for Medium and Heavy duty operation for displacement, semi-planing and planing craft.

Durability and low noise levels

Designed for easiest, fastest and most economical installation.

Well-balanced to produce smooth and vibration-free operation with low noise level.

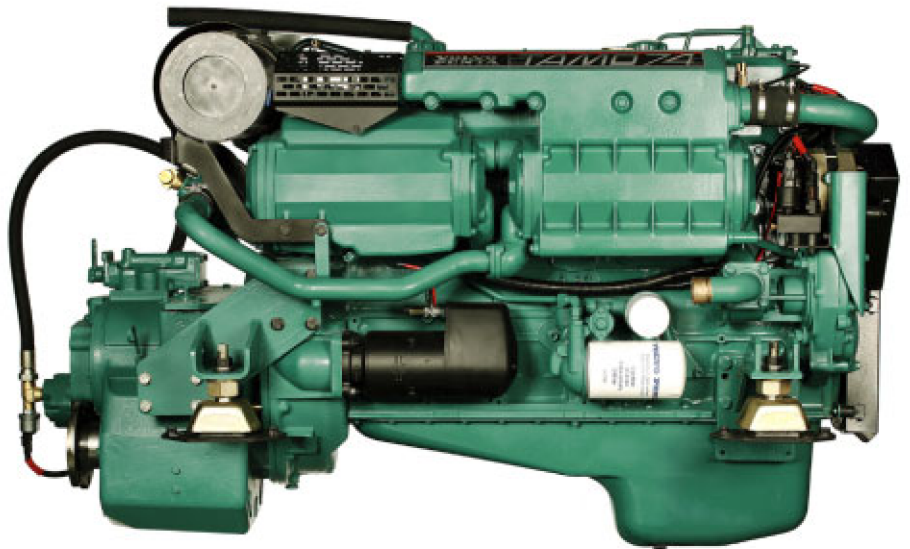
Comprehensive program of factory-fitted equipment for perfect matching to specific customer requirements, e.g. reverse gears, PTO's, cooling systems, electrical systems.

To maintain a controlled working temperature in cylinders and combustion chambers, the engine is equipped with piston cooling and freshwater-cooled oil cooler. The engine is also fitted with replaceable cylinder liners and valve seats/guides to ensure maximum durability and service life of the engine.

Low exhaust emission levels

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption. The TAMD74A is certified according to IMO – the R2 (257 kW) according to IMO US/EPA.

TAMD74A
with MG5091DC



Ease of service and maintenance

Easily accessible service and maintenance points contribute to the ease of service of the engine.

Comprehensive service network

Volvo Penta has a well-established network of authorized service dealers in more than 100 countries throughout the world. These service centers offer genuine Volvo Penta parts as well as skilled personnel to ensure the best possible service.

Technical description:

Engine and block

- Cylinder block and cylinder heads made of cast iron alloy
- Two cylinder heads
- Replaceable wet cylinder liners and valve seats/guides
- Nitrocarburized crankshaft with seven main bearings

- Oil-cooled forged aluminum pistons
- Three piston rings, upper of keystone type

Lubrication system

- Freshwater-cooled oil cooler
- Side-mounted full-flow and by-pass filter of spin-on type

Fuel system

- Fuel injection pump with centrifugal governor, and fuel feed pump
- High pressure fuel lines
- Twin fine fuel filters of spin-on type
- Fuel shut-off valve, electrically operated
- 7-hole injectors

Turbocharger

- Freshwater-cooled turbocharger

Cooling system

- Tubular heat exchanger with integrated expansion tank or adapted for 1- and 2-circuit keel cooling
- Seawater-cooled tubular aftercooler
- Belt-driven seawater pump

Electrical system

- 12 V or 24 V electrical system incl. alternator (60A) with charging sensor
- Rubber suspended electrical terminal box with semi-automatic fuses

**VOLVO
PENTA**

TAMD74A

Technical Data

Engine designation **TAMD74A**
 No. of cylinders and configuration in-line 6
 Method of operation 4-stroke,
 direct-injected, turbocharged
 diesel engine with aftercooler

Bore, mm (in.) 107 (4.21)
 Stroke, mm (in.) 135 (5.31)
 Displacement, l (in³) 7.28 (444)
 Compression ratio 17.2:1
 Dry weight, kg (lb) 860 (1896)
 Weight with reverse gear MG5075A,
 excl. water and oil, kg (lb) 1045 (2304)
 Crankshaft power,
 Rating 2, kW (hp) 2200 rpm* 257 (350)
 Rating 2, kW (hp) 2200 rpm 210 (287)
 Rating 1, kW (hp) 2100 rpm 184 (250)
 Rating 1, kW (hp) 2000 rpm 160 (218)
 Rating 1, kW (hp) 1800 rpm 154 (209)
 Torque,
 Rating 2, Nm (lbf.ft) 2200 rpm 1117 (824)
 Rating 2, Nm (lbf.ft) 2200 rpm 912 (673)
 Rating 1, Nm (lbf.ft) 2100 rpm 836 (617)
 Rating 1, Nm (lbf.ft) 2000 rpm 765 (564)
 Rating 1, Nm (lbf.ft) 1800 rpm 819 (604)

Recommended fuel to
 conform to ASTM-D975 1-D & 2-D,
 EN 590 or JIS KK 2204

Specific fuel consumption,
 R 2, g/kWh (lb/hph) 2200 rpm 229 (0.371)
 R 2, g/kWh (lb/hph) 2200 rpm 222 (0.360)
 R 1, g/kWh (lb/hph) 2100 rpm 222 (0.360)
 R 1, g/kWh (lb/hph) 2000 rpm 222 (0.360)
 R 1, g/kWh (lb/hph) 1800 rpm 209 (0.339)

Fuel temperature 40°C (104°F)
 Technical data according to ISO 3046 Fuel Stop Power and ISO 8665. With fuel having an LHV of 42,700 kJ/kg and density of 840 g/liter at 15°C (60°F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.
 N.B. The product can also be used in an application with a higher rating than stated, e.g. R2 can be used for R3, R4 or R5.

The engine is certified according to IMO.
 * R2 (257 kW) is certified according to IMO US/EPA.

Optional equipment:

Engine

- Flexible suspension for engine and reverse gear

Lubrication system

- Electrically and manually operated oil drain pump
- Rear-mounted full-flow oil filters of spin-on type
- Shallow oil sump
- Classifiable oil system

Fuel system

- Single or twin fuel filters/water separators
- Classifiable fuel system

Exhaust system

- Exhaust elbow, wet or dry
- Exhaust riser, wet
- Exhaust boot, wet
- Silencer, dry
- Flexible compensator, dry

Cooling system

- Seawater strainer
- Hot water outlet
- Separate expansion tank

Electrical system

- 12V 130A or 24V 100A extra alternators
- Various instrument panels
- Cable harness in different lengths
- Classifiable electric equipment acc. to IP44

Power transmission

- PTO crankshaft front end, type stub shaft incl. universal bracket
- Hydraulic pump for steering and other duties

Reverse gear

- MG5075SC and MG5091SC/DC

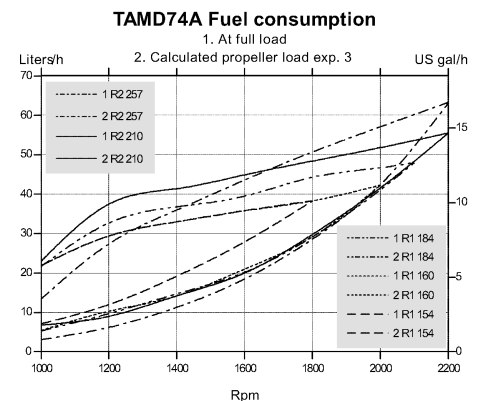
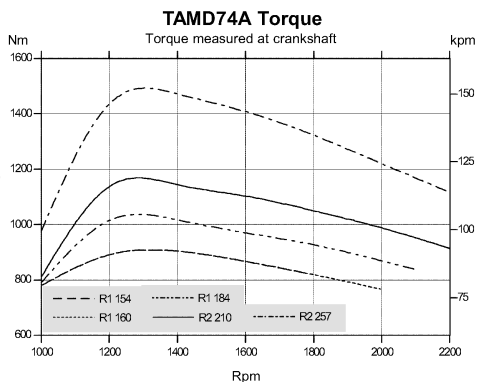
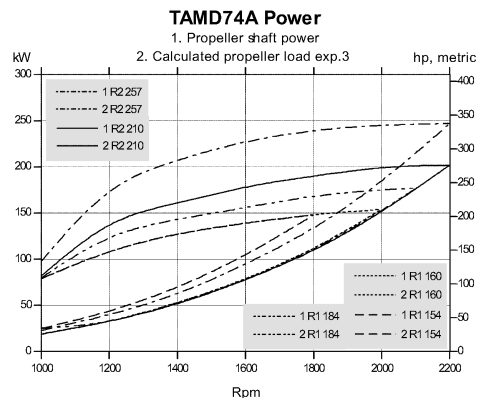
Other equipment

- Flush and bilge pump
- Belt guard
- White-painted engine and reverse gear
- Engine heater 2000 W, separately fitted

Contact your local Volvo Penta dealer for further information.

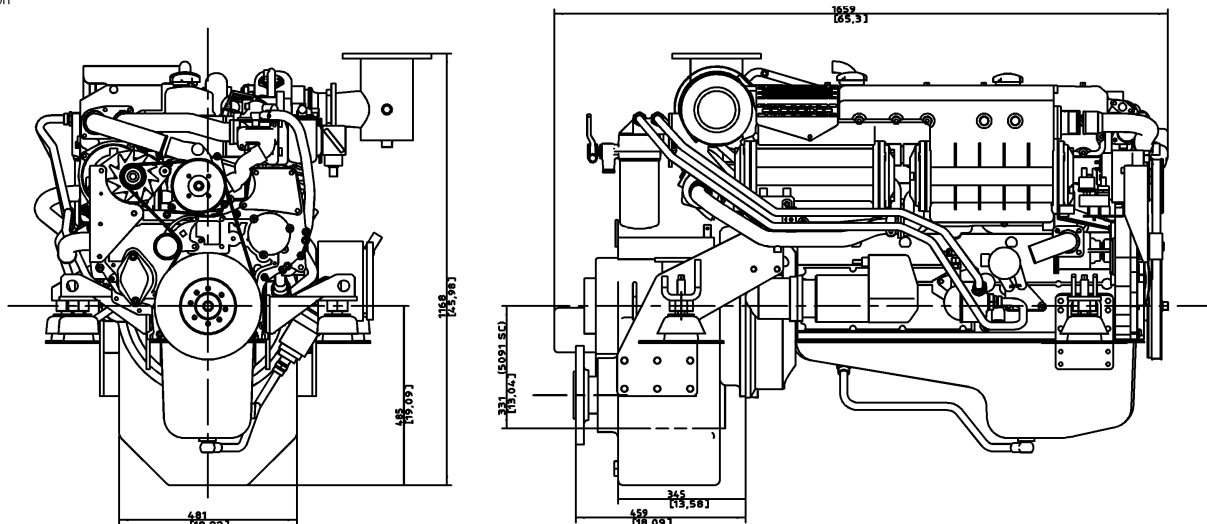
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The engine illustrated may not be entirely identical to production standard engines.



Dimensions TAMD74A with 5091SC/DC

Not for installation



<http://www.marinepartsexpress.com/>

VOLVO PENTA

AB Volvo Penta
 SE-405 08 Göteborg, Sweden
www.volvopenta.com

VOLVO PENTA INBOARD DIESEL TAMD74LEDC

6-cylinder, 4-stroke, direct-injected, turbocharged marine diesel engine with aftercooler – crankshaft power* 316 kW (430 hp)

* Power rating – see Technical Data

Powerful performance

The TAMD74LEDC marine diesel is specially developed for fast planing and semi-planing craft. The engine's high output combined with a rich torque curve ensures excellent performance, acceleration and response. Its compact dimensions optimizes boat layout, minimizes impact on living space onboard and improves service accessibility.

EDC – optimizing engine performance

EDC (Electronic Diesel Control) – an electronically controlled processing system that determines the precise quantity of fuel required at any given moment. The EDC system takes full account of variation in operating temperature, air pressure and other contributing factors, which optimizes engine performance and efficiency, reducing fuel consumption and emissions.

Enhanced onboard comfort

The Volvo Penta in-line six cylinder engine is an uncomplicated design with a minimum of moving parts, specially developed for highly demanding marine applications. The engine is a well-balanced unit with powerfully dimensioned crankshaft bearings. This ensures smooth, vibration-free operation and low noise levels.

The EDC system improves engine response with lower and more stable idling.

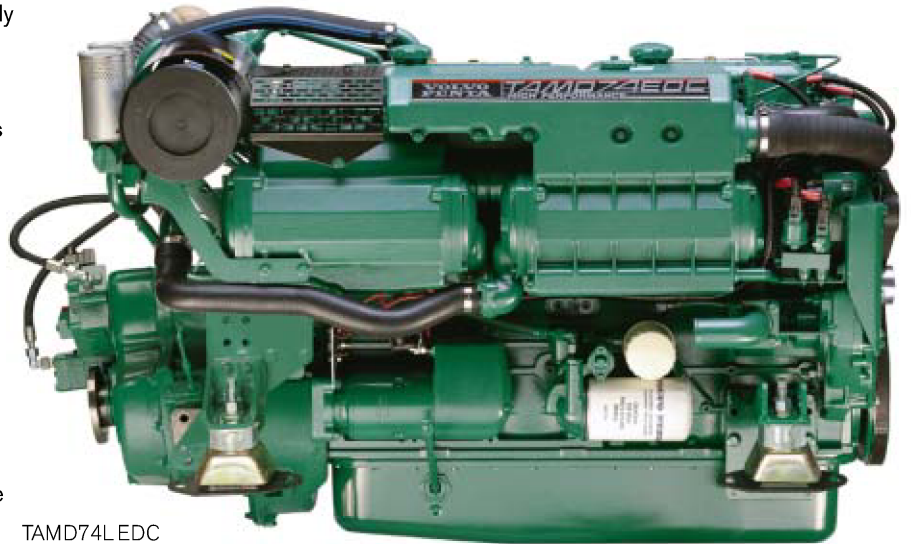
The electrical control levers are operated more smoothly and precisely, requiring much less force.

Automatic twin engine synchronization reduces noise and vibration levels, increasing service life of engine.

High-pressure injection in combination with six-hole nozzles and the EDC system optimizes fuel-air mixture. This greatly contributes to more efficient combustion with higher power and reduced noxious exhaust emissions. The engine is certified according to IMO and IMO US/EPA.

Easy installation and maintenance

Plug-in electrical connectors, compact dimensions and the EDC system ensures an



TAMD74LEDC
with MG5075A-E

easy, simple and time-saving installation. The EDC system's self-diagnostic facility and easily accessible service and maintenance points contributes to the ease of service of the engine.

Worldwide service support in more than 100 countries

The Volvo Penta Parts and service dealer network is a truly international operation with authorized service dealers around the world. These service centers offer Genuine Volvo Penta Parts as well as skilled personnel to ensure the best possible service. Continuous product and service training ensures that our products are well supported.

Technical description:

Engine and block

- Cylinder block and cylinder heads made of cast iron alloy
- Two cylinder heads
- Replaceable wet cylinder liners and valve seats/guides
- Nitrocarburized crankshaft with seven main bearings
- Oil-cooled forged aluminum pistons
- Three piston rings, upper of keystone type

Lubrication system

- Freshwater-cooled oil cooler
- Side-mounted full-flow and by-pass filter of spin-on type
- Oil dipsticks on both sides of oil sump

Fuel system

- Fuel injection pump incl. fuel feed pump and electronically controlled actuator
- Electronically controlled central processing system (EDC – Electronic Diesel Control) with integrated stop function
- Compensation to allow max output at fuel temperatures of 5–55°C (41–131°F)
- Six-hole injectors
- Twin fine fuel filters of spin-on type

Turbocharger

- Freshwater-cooled turbocharger with wastegate

Cooling system

- Tubular heat exchanger with integrated expansion tank or 2-circuit keel cooling
- Seawater-cooled tubular aftercooler
- Gear-driven seawater pump

Electrical system

- 12 V or 24 V electrical system incl. alternator (60A) with charging sensor
- Rubber suspended electrical terminal box with semi-automatic fuses

**VOLVO
PENTA**

TAMD74LEDC

Technical Data

Engine designation TAMD74LEDC
 No. of cylinders and configuration in-line 6
 Method of operation 4-stroke,
 direct-injected, turbocharged
 diesel engine with aftercooler
 Bore, mm (in.) 107 (4.21)
 Stroke, mm (in.) 135 (5.31)
 Displacement, l (in³) 7.28 (444)
 Compression ratio 17.2:1
 Dry weight, kg (lb) 860 (1896)
 Weight with reverse gear MG5075A-E,
 excl. water and oil, kg (lb) 1045 (2304)
 Crankshaft power,
 kW (hp) 2500 rpm 316 (430)
 Propshaft power with MG5075A-E,
 kW (hp) 2500 rpm 303 (412)
 Torque,
 Nm (lbf.ft) 2500 rpm 1202 (887)
 Recommended fuel to
 conform to ASTM-D975 1-D & 2-D,
 EN 590 or JIS KK 2204
 Specific fuel consumption,
 g/kWh (lb/hph) 2500 rpm 229 (0.372)
 Fuel temperature 5–55°C (41–131°F).
 Rating: 5
 Technical data according to ISO 3046 Fuel Stop Power and
 ISO 8665. Fuel with lower calorific value of 42,700 kJ/kg and
 density of 840 g/liter at 15°C (60°F). Merchant fuel may differ
 from this specification which will influence engine power output
 and fuel consumption.
 The engine is certified according to IMO and IMO US/EPA.

Optional equipment:

Engine

- Flexible suspension for engine and reverse gear

Lubrication system

- Electrically operated oil drain pump
- Rear-mounted full-flow and by-pass oil filters of spin-on types

Fuel system

- Single or twin fuel filters/water separators

Exhaust system

- Exhaust elbow, wet
- Exhaust riser, wet
- Exhaust boot, wet
- Exhaust elbow, dry
- Silencer, dry
- Flexible compensator, dry

Cooling system

- Seawater strainer
- Hot water outlet
- Separate expansion tank

Electrical system

- 12V 130A or 24V 100A extra alternators
- Various instrument panels
- Cable harness in different lengths
- EDC Monitoring panels
- Multistation unit
- Electrical control lever

Power transmission

- PTO crankshaft front end, type stub shaft incl. universal bracket
- Hydraulic pump for steering and other duties

Reverse gear

- MG5075A-E, MG5085A-E,
 MG5085SC-E, ZF 280A-EB,
 ZF 301A-EB, ZF 280IV-EB and
 ZF 302IV-EB, electrically shifted

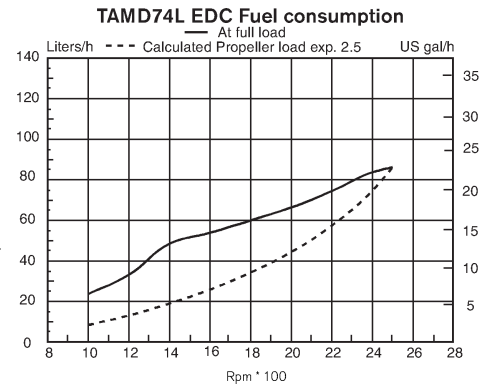
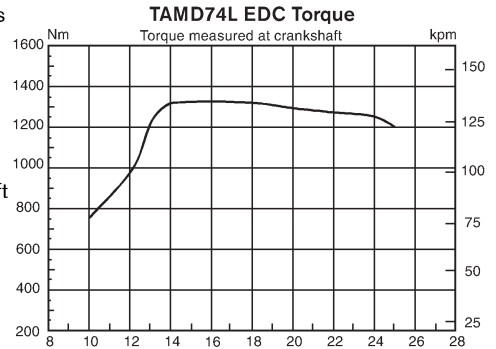
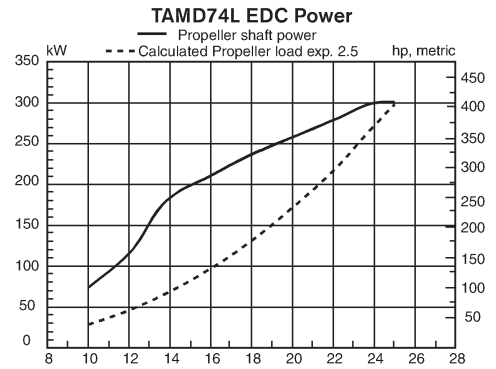
Other equipment

- Belt guard
- White-painted engine and reverse gear

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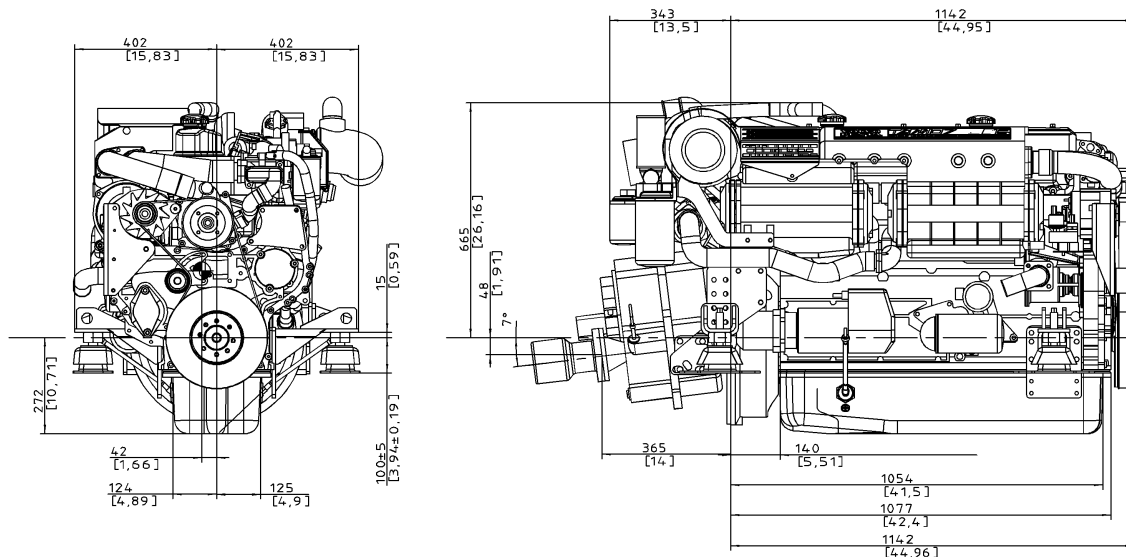
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Dimensions TAMD74L EDC with MG5075A-E

Not for installation



<http://www.marinepartsexpress.com/>

VOLVO PENTA

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