

VOLVO PENTA

AQUAMATIC 210/270



The Aquamatic 210/270 is a modern marine unit which more than satisfies the highest demands on safety, economy and durability. The powerful and compact 210 h.p. engine is noted for its smooth and vibration-free running.

Because of a high output combined with high torque and compact dimensions, this engine is particularly suitable for large planing boats.

The engine is fitted with hydraulic valve lifters, a four-port carburetor, closed circuit crankcase ventilation and a fully water-jacketed exhaust manifold. The cooling system includes two cooling pumps, one of which is a circulation pump, and also thermostat-controlled water temperature for rapid engine warm-up constant operating temperature.

Effective cast iron "exhaust risers" makes installation of the engine possible without risk of water entering the exhaust pipes.

Outboard drive model 270

The engine and outboard drive are fitted together through one single hole in the transom by means of a mounting collar in which all the connections are built in.

The 270 unit is the most powerfully dimensioned outboard drive on the market with an outstanding operational reliability and durability second to none. The accumulated

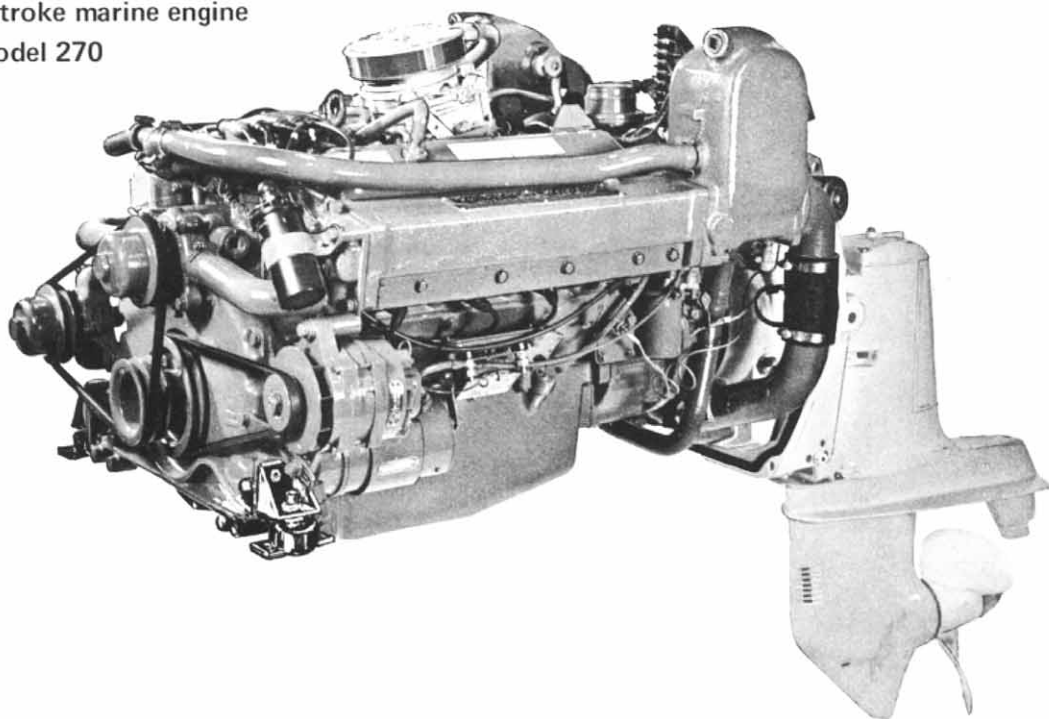
experience and considerable expertise of Volvo Penta as pioneer in this sector are to be found built into the corrosion-resistant, rugged unit with its advanced design.

All gears with drive shafts and journals on the 270 drive unit have been robustly constructed to cope with maximum loads during a long period. Stiff, long-endurance tests have confirmed without a shadow of a doubt that the lifetime of the 270 drive unit is unequalled. The propeller gear is of a new bevel type which ensures that the drive unit runs very quietly and makes continuous running in either direction of rotation possible. Changeover from left to right rotation is done by a simple shift change. The 270 drive unit is particularly easy to manoeuvre thanks to the quiet operating patented cone clutch of type "Silent Shift", as well as the properly balanced control which makes the drive very easy to steer.

The patented construction of the retaining pawl provides full security during operation "Forward" for any unexpected tilting of the drive, occasioned, for example, when running in shallow waters. In emergency situations, rapid reversing operations can also be carried out at speeds of up to approx. 15–20 knots without the drive "floating up". The fully reliable electrically operated mechanical lift is fully enclosed and is operated comfortably from the driver's seat.

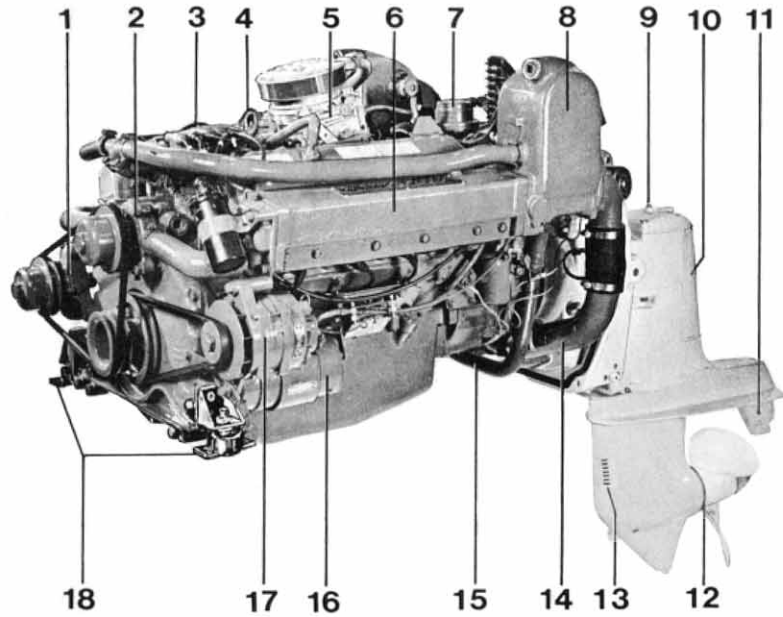
Volvo Penta V-8, four-stroke marine engine
with outboard drive, model 270

210 hk



AQUAMATIC 210A/270B

1. Sea-water pump
2. Circulation pump
3. Distributor
4. Lifting eyelet
5. 4-port down-draft carburetor with flame arrester
6. Water-cooled exhaust manifold
7. Fuel pump
8. Exhaust system with raised exhaust elbows "Risers"
9. Oil dipstick
10. Casing over control units
11. Exhaust outlet and trimming tab
12. Anti-corrosion zinc ring
13. Cooling water intake
14. Exhaust line
15. Cooling water pipe
16. Starter motor
17. Alternator type Motorola 12 V 38 A
18. Front engine mounting with rubber damper



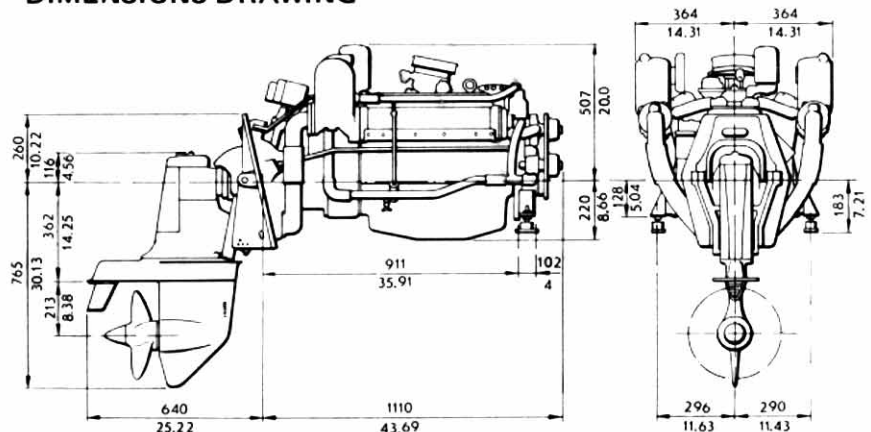
Standard equipment includes: Instrument panel with electric revolution counter, electric temperature gauge, warning lamps for charging and oil pressure.

All the electric cables are collected into one single harness between the engine and the instrument panel with a connector about 1.5 m (5 ft.) from the engine. This facilitates installation considerably.

DATA

Type of operation	Four-stroke carburetor engine with overhead valves
Type designation	AQ210A/270B
Max. output (SAE)	210 h.p.
Max. operating speed, r.p.m.	4000
Number of cylinders	V-8
Capacity, cm ³ (in. ³)	5032 (307)
Bore/stroke, mm (in.)	98.55/82.55 (3.88/3.25)
Compression ratio	8.0:1
Outboard drive, type designation/ratio	270B/1.61:1
Total weight, kg (lb.) approx	470 (1034)

DIMENSIONS DRAWING



We reserve the right to carry out modifications.



AB VOLVO PENTA

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