

VOLVO PENTA Aquamatic

Volvo Penta Aquamatic – the unexcelled marine power plant with an excellent reputation all over the world for perfect function and operational dependability. Today Volvo Penta is presenting the new generation of Aquamatic units: an extensive range with petrol and diesel engines from 64 to 255 horsepower – all fitted with the outstanding 280 drive. An already world-renowned design that has now been improved even more. A completely new system which makes steering even easier.

The engine range includes three V8 units and a unique new 40 diesel with an absolutely exceptional performance. Volvo Penta considers service to be a natural advantage at the disposal of customers. A well-developed service network in more than 100 countries all over the world ensures that you derive maximum enjoyment from your boating.



The Volvo Penta 280 outboard drive

A world-renowned design now with even more improvements

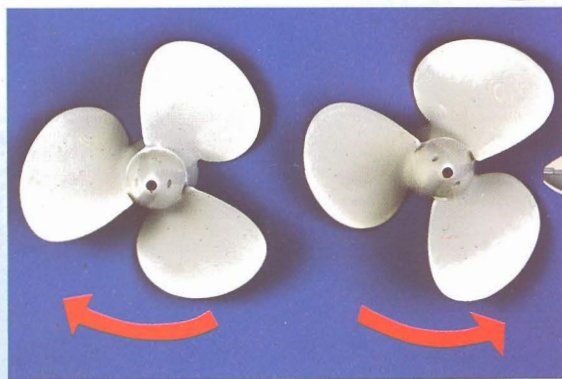
Volvo Penta introduced its first I/O unit in 1959. Many units of this model are still in operation – good evidence of top quality. The 280 drive of today has no competition at all concerning operational dependability and is dimensioned to suit all our I/O engines, including the powerful V8 units. Extremely thorough corrosion-proofing means that this drive can stand up to continuous use in salt water.

New system for easier steering

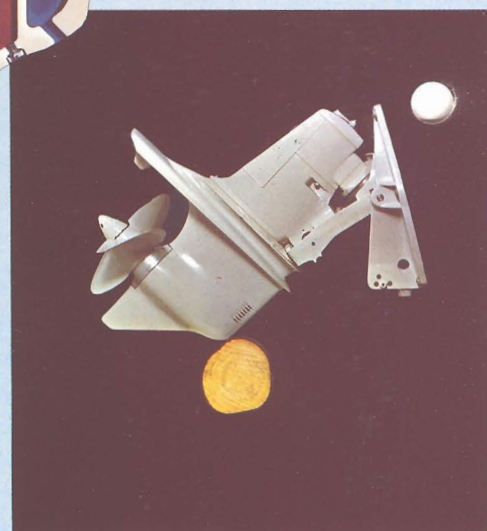
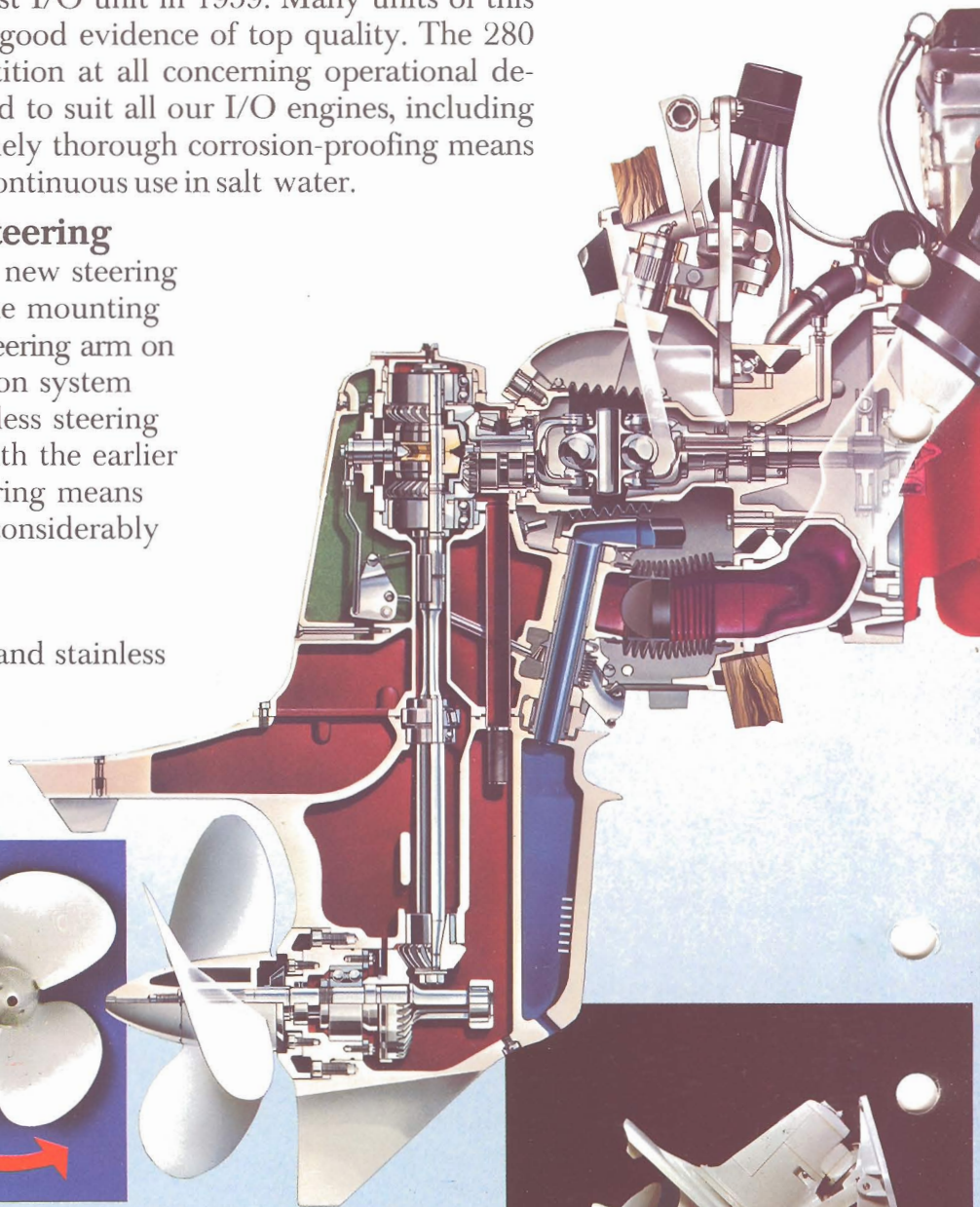
The 280 drive is fitted with a new steering system centrally located on the mounting collar. The connection to the steering arm on the drive is through a reduction system which means that 17 or 34% less steering power is needed compared with the earlier version. The new type of steering means shorter installation time and considerably better steering characteristics.

New propellers

Available in both aluminium and stainless steel for high output on high-speed boats.



It is easy to reverse the direction of rotation of the propeller merely by relocating the link rod in the drive.



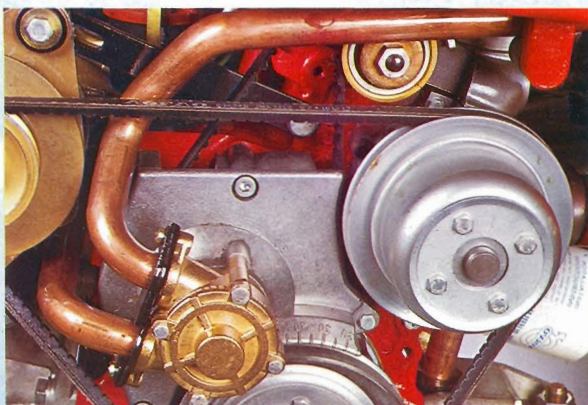
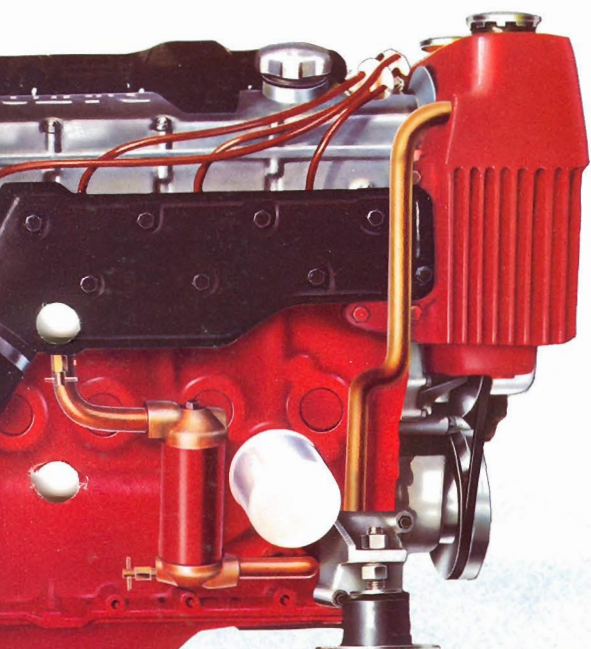
The drive is fitted with a mechanism which ensures that it tilts it up if it should contact some obstacle in the water.



Lightest and most compact

AQ 140A/280D

The 140 engine is a four-cylinder, fresh-water cooled petrol unit developing 125 hp. It weighs only 245 kg. It is extremely compact and easy to install; the engine is inclined at an angle of 20° which decreases installation height to a great extent. It is also fuel-thrifty. The overhead camshaft makes its contribution to economical control of the combustion process. It is environmentally favourable. Therefore it runs quite happily on low-lead, low-octane fuel (90 octane is quite sufficient).



You can change the impeller at sea.

The water pump is conveniently located on the front of the engine, not at the bottom of the drive, where it is difficult to get at. This minor feature can become very important if you are out at sea and need to replace the impeller.



Corrosion-proofing is in a class of its own. The outboard drives are primed, painted, stoved and painted again in many different processes which together provide outstanding protection from corrosion.



The cone clutch is the heart of the drive. It functions perfectly, we have patented the idea. No other drive includes this feature. It operates smoothly and quietly and requires very little effort.



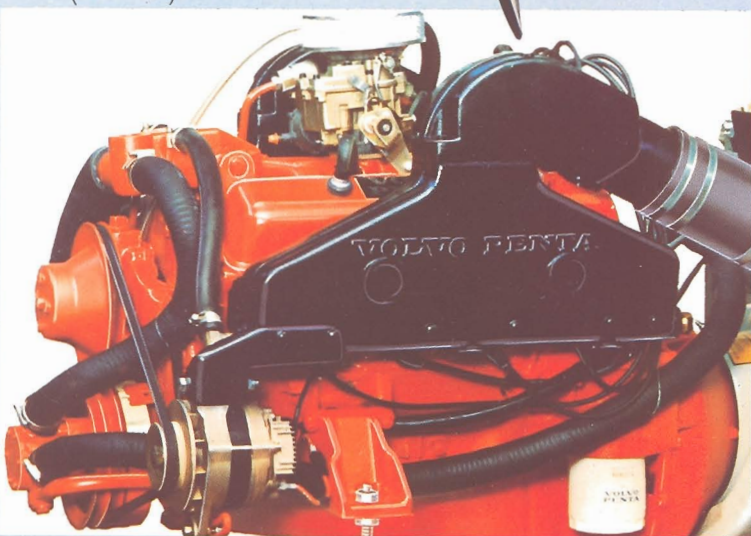
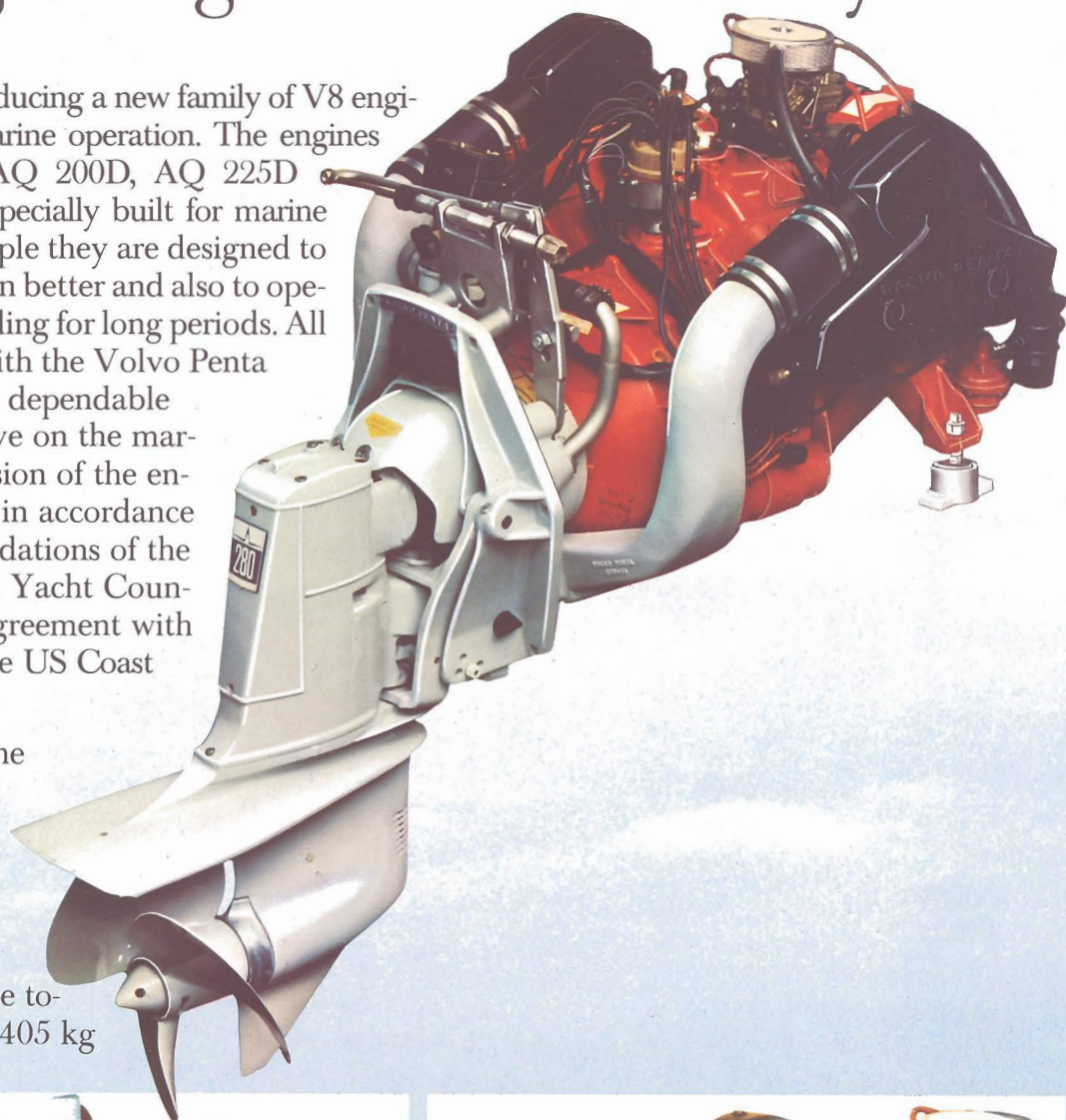
On the 280 drive, Volvo Penta uses stainless steel bolts and HELI-COIL thread inserts. Bolts do not rust in position, this saves time and money. And it also saves your temper.

A new family of V8 engines with quiet running and good fuel economy

Volvo Penta is introducing a new family of V8 engines designed for marine operation. The engines with designations AQ 200D, AQ 225D and AQ 255B are specially built for marine operation, for example they are designed to stand up to corrosion better and also to operate under high loading for long periods. All engines are fitted with the Volvo Penta 280 drive, the most dependable and robust I/O drive on the market. Marine conversion of the engines is carried out in accordance with the recommendations of the American Boat and Yacht Council, completely in agreement with the regulations of the US Coast Guard.

The engines combine power resources and dependability with good fuel economy and low weight per horsepower.

The engine and drive together only weight 405 kg (890 lb).



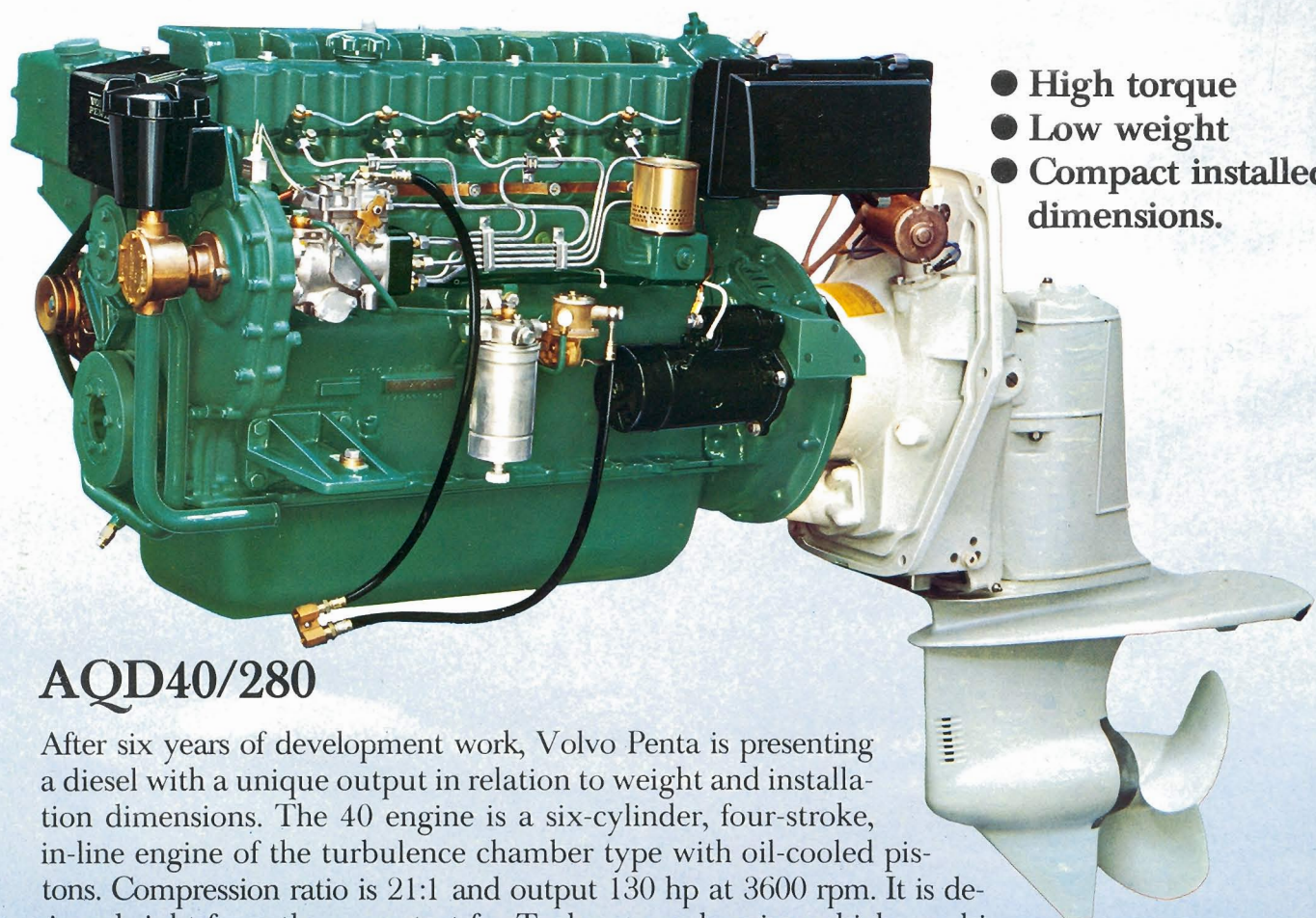
The exhaust manifold, including risers, is completely jacketed which means that there are no hot surfaces.

The circulation water pump has an

impeller with a drive shaft made of stainless steel. The rear end of the pump is also made of stainless steel. There is plenty of room for spark plugs and cables and this feature,

together with the jacketed manifold, maintains the ignition cables free from wear and damage due to overheating.

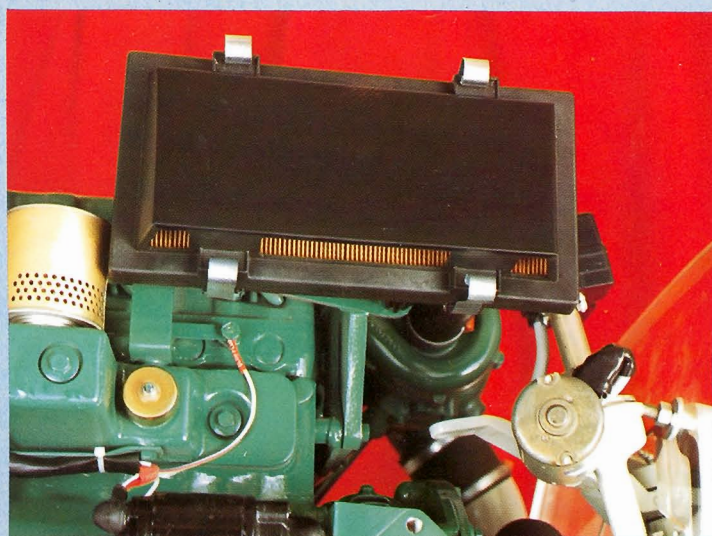
A new diesel with unbeatable performance



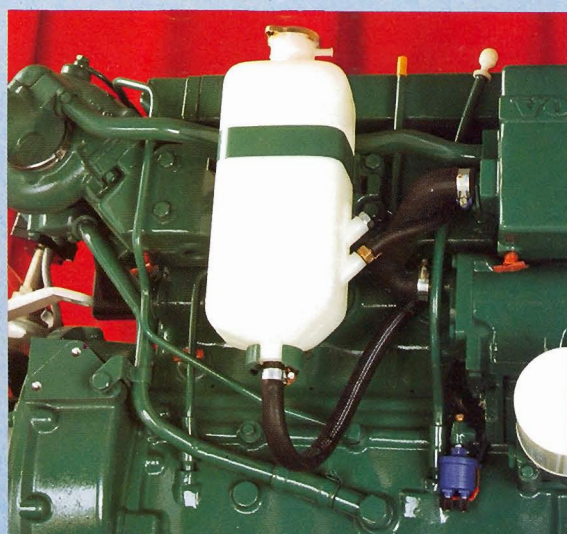
- High torque
- Low weight
- Compact installed dimensions.

AQR40/280

After six years of development work, Volvo Penta is presenting a diesel with a unique output in relation to weight and installation dimensions. The 40 engine is a six-cylinder, four-stroke, in-line engine of the turbulence chamber type with oil-cooled pistons. Compression ratio is 21:1 and output 130 hp at 3600 rpm. It is designed right from the very start for Turbo-supercharging which combines high output with low fuel consumption, cleaner exhaust emissions and a low level of engine noise.

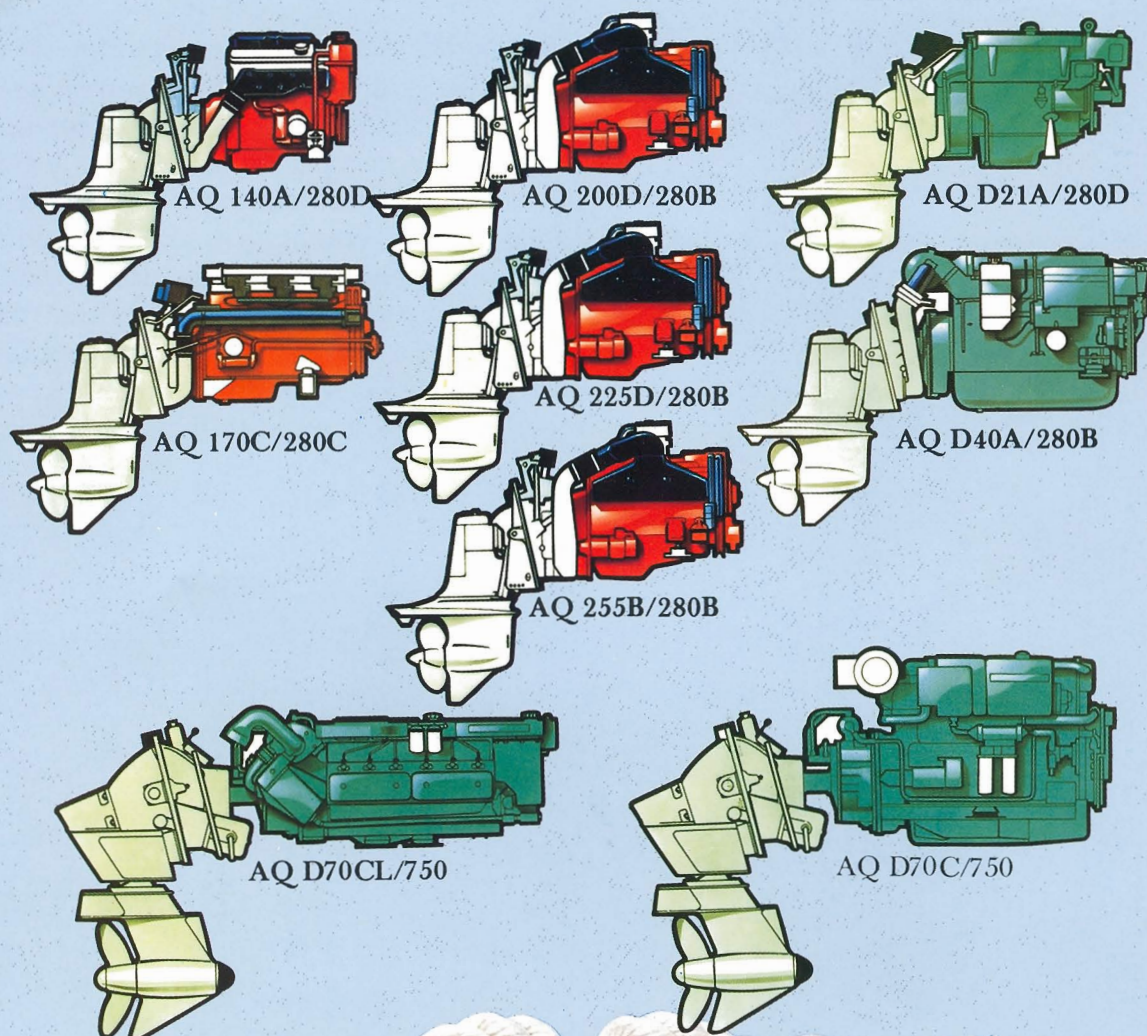


The air cleaner effectively cuts down induction noise.



The cooling system expansion tank is movable and it can be located at the most easily accessible place in the boat.

The Volvo Penta Aquamatic Range



ENGINE/DRIVE	PETROL DIESEL	NO. OF CYL	CYL. CAPAC.		OUTPUT		WEIGHT APPROX.	
			litres	cu.in.	kW/rs	hp/rs	kg	lb.
AQ 140A/280D	●	4	2,13	130	92/92	125/5500	245	540
AQ 170C/280C	●	6	2,97	182	118/83	160/5000	320	705
AQ 200D/280B	●	V8	5,0	305	147/73	200/4400	405	890
AQ 225D/280B	●	V8	5,0	305	166/73	225/4400	405	890
AQ 255B/280B	●	V8	5,73	350	188/73	255/4400	405	890
AQ D21A/280D	●	4	2,11	129	47/75	64/4500	330	725
AQ D40A/280B	●	6	3,59	209	96/69	130/3600	465	1025
AQ D70C/750	●	6	6,73	410	198/42 ¹⁾	270/2500	1250	2750
AQ D70CL/750	●	6	6,73	410	198/42 ¹⁾	270/2500	1305	2880

All output figures concern flywheel output according to DIN 6270 Leistung B ¹⁾ Output on drive shaft

VOLVO PENTA

S-405 08 GÖTEBORG, SWEDEN