

Alpha

20DI • 30DI • 40DI • 55 Turbo



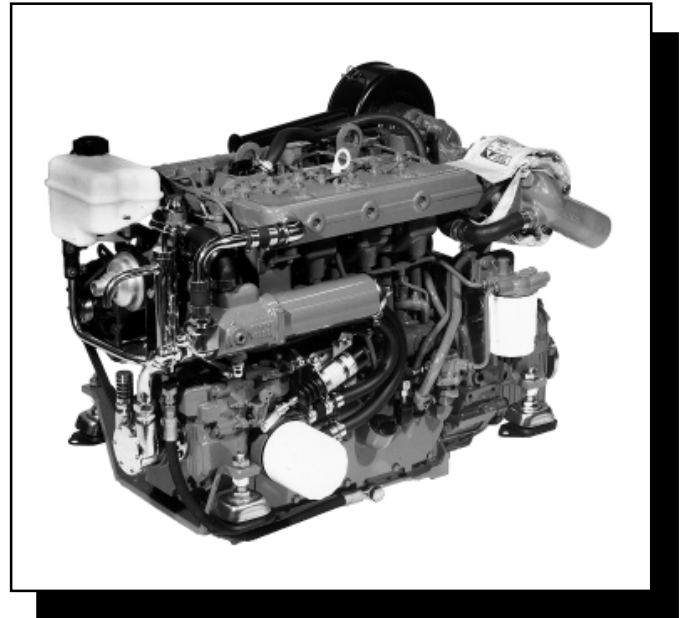
WATER-COOLED MARINE PROPULSION DIESEL ENGINES FOR WORKBOATS AND COMMERCIAL CRAFT

A series of two, three, four and turbocharged four cylinder, direct injection diesel engines of cast iron construction with fresh water heat exchange cooling.

Designed and built by Lister-Petter to their traditional standards for long life, economy and reliability.

Standard Features

- Direct injection combustion for easy starting, low fuel consumption and long oil change periods.
- Compact turbocharger with internal wastegate and ultra high compressor efficiency (55 Turbo).
- Heat exchange cooling with engine driven raw and fresh water pumps for long engine life.
- Hurth 2:1 reduction reversing gearbox sized to match engine power output.
- Fuel filter and water trap with spin-on cartridge.
- 12 volt starter motor (insulated earth return) and 55 amp alternator.
- Water cooled exhaust manifold with water injected exhaust bend.
- Engine mounted sump drain pump and raised dipstick for easy routine maintenance.
- Engine bearers with vibration isolating mounts to ensure smooth running
- Fuel lift pump.
- Self bleed fuel system with steel fuel lines.
- Oil cooler (55 Turbo only).
- Flexible coupling disc.
- Start / alarm panel.
- Engine wiring.
- Morse type fittings.
- Engine mounted air cleaner.
- Calorifier connections.
- Operators Handbook.



Optional Accessories

A range of options to enable your Alpha propulsion engine to be built to your exact needs are available including:

- Alternative gearboxes.
- Instrument panels.
- Controls.
- Fuel and exhaust systems.
- Engine mounts.
- Protection systems.

Please consult Lister-Petter or your local Lister-Petter Marine Engine Centre for full details.

Lister-Petter Marine Engine Centres

With an extensive network of distributors and dealers worldwide, Marine Engine Centres offer a comprehensive sales, installation, parts and service back-up for your Alpha marine engine.

Owner Training Course

Owners of a Lister-Petter Marine engine who really want to get to know their engine are invited to attend a one day familiarisation course at our Dursley factory, free of charge. Courses for owners outside of the UK can be arranged locally through their Distributor.

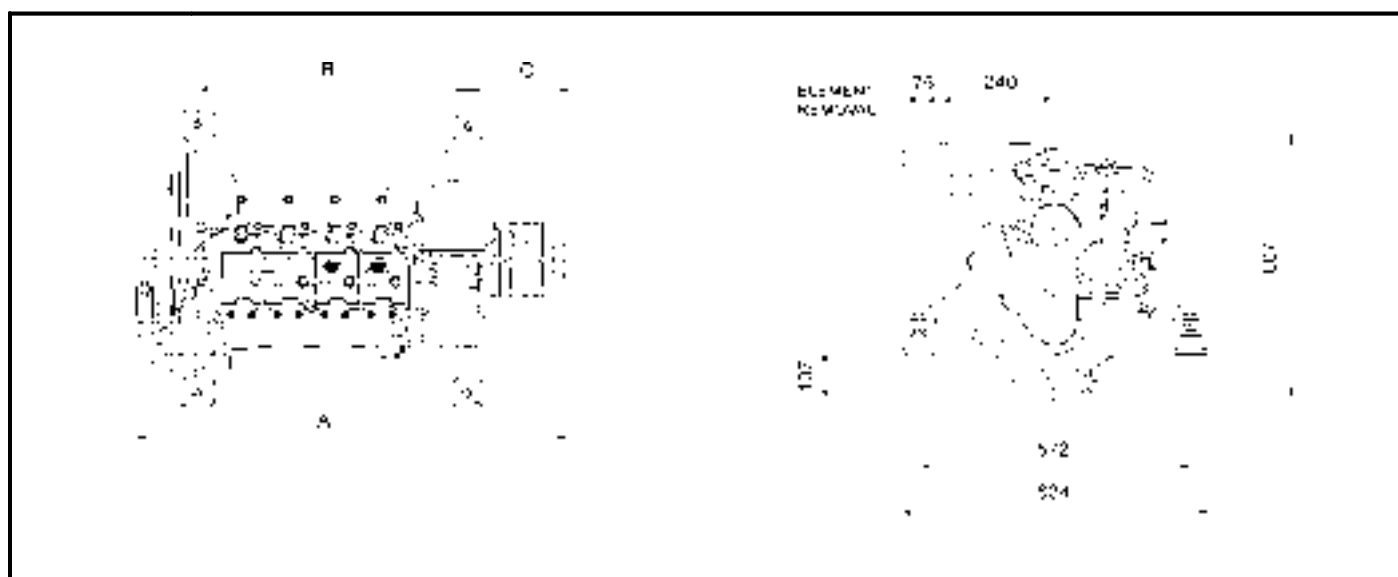
Technical Data

	Alpha			
	20DI	30DI	40DI	55 Turbo
Cylinders	2	3	4	4
Bore x Stroke	mm 86 x 80	86 x 80	86 x 80	86 x 80
Cubic capacity	cm ³ 930	1395	1860	1860
Maximum power at flywheel at 3000 r/min	bhp 20	30	40	55
Maximum torque at flywheel at 2000 r/min	Nm 51	76	101	155
Off load idle speed	r/min 900	900	900	900
Fuel consumption (approx) at 2500 r/min	litre/hr 2.5	3.8	5.1	7.0
Oil sump capacity	litre 3.3	4.5	5.6	6.5*
Net weight (dry)	kg 150	180	210	230
Maximum installation angle (gearbox down)	20°	20°	20°	20°
Propeller rotation	Clockwise viewed from the stern in forward gear			

* Including filter oil cooler

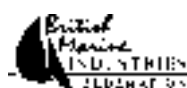
Approximate Dimensions

The dimensions (mm) given are for guidance only and must not be used for installation purposes.



	Alpha 20DI	Alpha 30DI	Alpha 40DI	Alpha 55 Turbo
A	732	833	933	1035
B	377	538	577	644
C	180	179	241	263
D	62	74	74	89

D is the distance of the gearbox output centre line below the underside of the engine bearer.



The information contained in this literature is correct at the time of publication. Lister-Petter reserves the right to change specifications without prior notice.

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