



STW RANGE MARINE AUXILIARY WATER COOLED DIESELS 12-30 bhp



APPLICATION

Boating: Inboard use with transom-hung outboard, stern or bow drive, or in the outboard motor.

Yacht System: For a complete engine system a marine auxiliary diesel engine, alternator, generator, fuel pump, water pump, cooling water pump, expansion tank, and other accessories are available in standard or custom layouts.

Installation: The engine has been tested at 100% load and is guaranteed for the full service life when used under the specified conditions.

Operating: The engine is tested with water in the cooling system. The use of other coolants is not recommended unless approved by Lister.

Warranty: See your authorized Lister distributor for warranty details.

Power Take Off: See your authorized Lister distributor for details on power take off and other accessories.

Additional: Contact your authorized Lister distributor.

TECHNICAL DATA: Power Output

Engine Model	Maximum Power Output at 2000 RPM (1500 RPM for 12 bhp)		Maximum Power Output - 1500 RPM (1500 RPM)				
	HP	kW	12	15	20	25	30
12 bhp	12.0/10.0	8.8/7.4	10.0	12.0	14.0	16.0	18.0
15 bhp	15.0/12.0	11.0/8.8	10.0	12.0	14.0	16.0	18.0

	12 bhp	15 bhp
Stroke	6.0	6.0
Stroke	6.0	6.0
Speed (RPM)	1500	1500
Compression Ratio	17.1	17.1
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- Lister engines are designed for long life and low maintenance.
- Lister engines are designed for low noise and low vibration.
- Lister engines are designed for low fuel consumption.
- Lister engines are designed for low emissions.
- Lister engines are designed for low operating costs.
- Lister engines are designed for low maintenance costs.
- Lister engines are designed for low repair costs.
- Lister engines are designed for low downtime.

For more information on Lister engines, contact your authorized Lister distributor. Lister engines are available in a wide range of configurations and power outputs. Lister engines are designed for long life and low maintenance. Lister engines are designed for low noise and low vibration. Lister engines are designed for low fuel consumption. Lister engines are designed for low emissions. Lister engines are designed for low operating costs. Lister engines are designed for low maintenance costs. Lister engines are designed for low repair costs. Lister engines are designed for low downtime.



STW MARINE PROPULSION DIESEL ENGINES



23.0-34.5bhp WATER COOLED

RANGE

STW32MGR 2.8 l/min at 2000 rev/min



STW36MGR 3.6 l/min at 2000 rev/min



STANDARD EQUIPMENT

Supplied with all engines:

- Reverse induction pump (compatible with 2.0 or 2.2 turbochargers and turbo fans)
- Flexible mixing shaft coupling
- Exhaust
- Exhaust pump
- 40 litres oil tank
- Stop/rev/park function
- 50W high/low beam lights
- Flexible exhaust pipe
- Water cooled exhaust manifold

- 200 l capacity tank with 1000W heater
- Steel handrail
- Swivel handle
- Quartz oil separator
- Start panel
- Scum water pump (optional)
- Flexible handle
- Set of spacers
- 50 litre oil tank (optional)
- Operation handbook and parts list

TECHNICAL DATA

			STW32MGR	STW36MGR		
Performance rating	2000 rev/min	2000 rev/min	2.8 l/min	3.6 l/min		
	2500 rev/min	2500 rev/min	3.0 l/min	3.7 l/min		
	3000 rev/min	3000 rev/min	3.2 l/min	3.8 l/min		
	3500 rev/min	3500 rev/min	3.4 l/min	3.9 l/min		
Maximum rating	2000 rev/min	2500 rev/min	2000 W	2000 W		
	2000 rev/min	2500 rev/min	1.2	1.2		
Number of cylinders					2	2
Size	100 (H)	100 (H)	100 (H) (1)	100 (H) (1)		
Stroke	100 (H)	100 (H)	100 (H)	100 (H)		
Displacement	1.00 (H)	1.00 (H)	1.00 (H)	1.00 (H)		
Water cooling capacity at 2000 rev/min	100 (H)	100 (H)	100 (H)	100 (H)		
Water cooling capacity at 2500 rev/min	100 (H)	100 (H)	100 (H)	100 (H)		
Oil cooling capacity at 2000 rev/min	100 (H)	100 (H)	100 (H)	100 (H)		
Weight of engine with gearbox (approx.) (kg)	100 (H)	100 (H)	100 (H)	100 (H)		

SPECIFICATION

Cooling: Direct raw water cooling with engine mounted pump. Heat cooling system available.

Lubrication: A plunger pump supplies oil under pressure to all important working surfaces. Each engine can be fitted with a full flow filter with replaceable cartridge if required.

Governing: A centrifugal governor on the crankshaft maintains engine speed within limits of 85-640/1950.

Construction: Cast iron of robust design.

Starting: Raised hand starting and 12V electric starting with 1/3ACRM1 alternator.

Power Take-off: Full power may be taken from the crankshaft extension at half engine speed for approved applications.

Rotation: Clockwise looking on the flywheel. Anti-clockwise looking on gearbox output flange – left hand propeller.

Rating: 85-640/1950, DIN6270A
This is the BHP which the engine is capable of delivering continuously at a stated crankshaft speed in accordance with the conditions specified in 85-640/1950.

When appropriate, the engine shall be capable of satisfactorily providing an output 10% in excess of the BS continuous rating at the same speed (DIN6270B).

Derating: 85-640/1950.

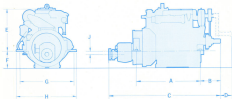
Altitude: 1.6% for every 300m (1000ft) above 150m (500ft) above sea level.

Air inlet temperature: 2% for every 5°C (10°F) above 30°C (85°F).

Humidity: up to a maximum of 65.

PRINCIPAL DIMENSIONS

ALL DIMENSIONS ARE WEIGHTS ARE APPROXIMATE AND NOT SHOWN.



	A	B	C	D	E	F	G	H	J	
STROKE	mm	562	208	1052	122	440	178	572	630	34
	in	22 1/8	8 1/8	41 3/8	4 7/8	17 3/8	7	22 5/8	24 7/8	1 3/8
STROKE	mm	679	295	1294	122	440	178	572	630	47
	in	26 3/4	11 5/8	50 9/16	4 7/8	17 3/8	7	22 5/8	24 7/8	1 7/8

Approximate Shipping Specification

	Net weight kg	lb	Gross weight kg	lb	Volume m ³	ft ³
STROKE	310	685	398	880	0.79	28
STROKE	350	770	438	965	1.04	37

SUMMARY OF ACCESSORIES

For full details see Price List

CODE GROUP

- MB – Drives (gearbox and drives and forward and drives)
- MD – Cooling
- ME – Starting equipment
- MF – Fuel supply equipment
- MG – Gauges
- MK – Controls
- ML – Lubrication equipment
- MN – Exhaust equipment
- MP – Gruges
- MQ – Mountings
- MR – Spares
- MS – Batteries
- MT – Stoppers



The above is given for guidance only. It is not intended to constitute an offer of any financial product. It is not intended to constitute an offer of any financial product. It is not intended to constitute an offer of any financial product. It is not intended to constitute an offer of any financial product.



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