

When the fire is the enemy, this is your last defence

DES-1 Emergency Diesel Driven Fire Pump



The DES-1 is a compact and robust diesel-driven fire pump engineered for naval emergency applications. The DES-1 is designed for fully independent operation and reliability under extreme conditions and ensures critical firefighting performance — no matter what the circumstances.



Manual operated spring starter for emergency start (optional)



No pump and motor alignment required due to special motor bracket

Key features

Standby Ready

The engine is kept warm and battery fully charged via ships power supply. Constant heat reduces wear during routine testing.

Shock-Approved for Naval Use

Designed for maritime defence environments, the unit is fully tested and approved for shock resistance, ensuring continuous operation during combat scenarios.



Shock-test video

Dual Start System (optional)

Electric starter with MIL-SPEC Battery (with NSN). Loose supplied spring starter as backup — installable in under 5 minutes enabling starting without power.

Self-Priming Fire Pump

The fire pump is self-priming by design and only requires initial water filling during commissioning or after service.

More Features

Efficient Cooling

Internal closed-loop cooling system, cooled via bleed-off from main pump. Operates up to 6 min without cooling before critical overheat during start up.

Cold Start Support

Air intake heater ensures reliable startup in cold environments.

Remote Operation (optional)

Remote control panel ensures operation direct from damage control station.
Pressure switch confirms water pressure — essential for remote monitoring and crew safety during firefighting.

Compact, Service Friendly Design

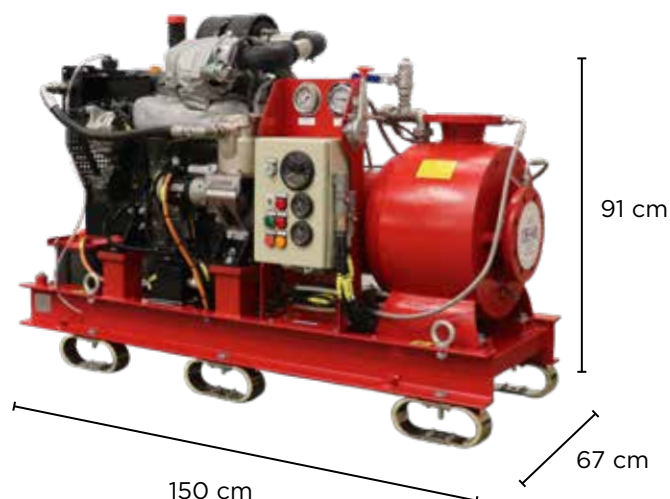
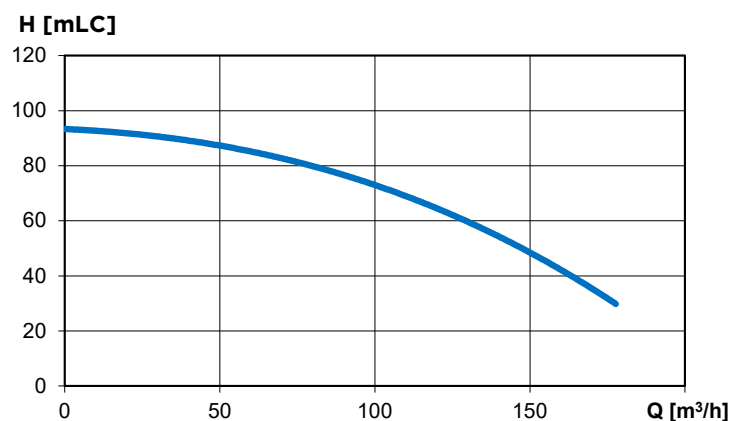
Designed for marine environments, the compact unit fits through standard naval access doors, eliminating the need to cut bulkheads during servicing or replacement.

Emergency Override Capability

For extreme emergency use, standard shutdown protocols can be overridden via a hardwired connection. This ensures continued operation, even to destruction, when firefighting is the last line of defence.

DES-1 Data

Version:	DES-1 MK II
Flow Rate:	Up to 160 m ³ /h (700 usg pm)
Pressure:	Up to 9 bar (130 psi)
Runtime per tank:	3 hours (full load)
Starter:	MIL-SPEC battery (NSN) + optional spring starter
Cooling:	Closed loop via main pump bleed-off
Shock Resistance:	According to: MAP 01-471 shock grade AB and C. Tested and approved for naval applications



If you liked our DES-1 you might also like our portable Fire Pump:



SP-D3-2

Portable Emergency Diesel Driven Fire Pump

First-class pump solution with a capacity of 40 m³/h at 7 bar. Low magnetic signature and designed especially for a life at sea.