

LD600

Light Weight Portable Diesel Pump

The Angus LD600 pump is a light weight portable fire or industrial pump that combines the benefits of high pressure fire fighting performance with an extremely compact design.

The unit is designed to be easily carried by two men and operated by one. Electric plus exhaust ejector priming mean the pump can be put into service quickly and easily in an emergency situation.

Typical flows range from 600* l/min at 7 bar delivery to over 1,400* l/min at 2 bar.

The LD600 uses the internationally renowned Ruggerini 2 cylinder air cooled diesel engine for reliability.

Angus fire pumps use robust, pressure tested pump casings which allow substantial input pressures (10 bar on the LD600) from hydrants or relay pumping. This can be boosted to high output pressures (LD600 is tested to 21 bar) without damaging the pump or exceeding its pressure rating, a feature generally not available with lower specification pumps.

Angus Fire have over 25 years experience of manufacturing portable pumps for use world wide in fire and industrial applications.

Applications

Municipal Fire Brigades

600 l/min* at 7 bar provides a fire service with two hand lines for direct fire fighting.

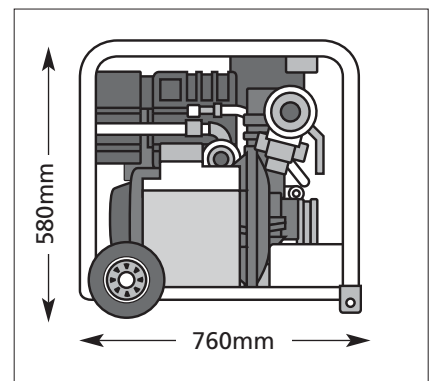
Flood Relief

In situations where flow rather than pressure is critical the LD600 will provide over 1,500 l/min*

Standard Features

- 4 litre fuel tank capacity (1½ hours at maximum speed)
- Fast and simple exhaust eject priming – 3m in under 20 seconds
- Grade 304 stainless steel frame and fabricated components
- Marine grade light alloy corrosion resistant pump body and impeller
- Glycerine filled compound and output pressure gauge
- Wheel set for one man portability

Technical Specification



Dimensions

Length	760 mm (23½")
Width	530 mm (21")
Height	580 mm (24½")
Weight	115 Kg with battery, fuel and oil (dry weight 106 Kg - no battery)

Engine

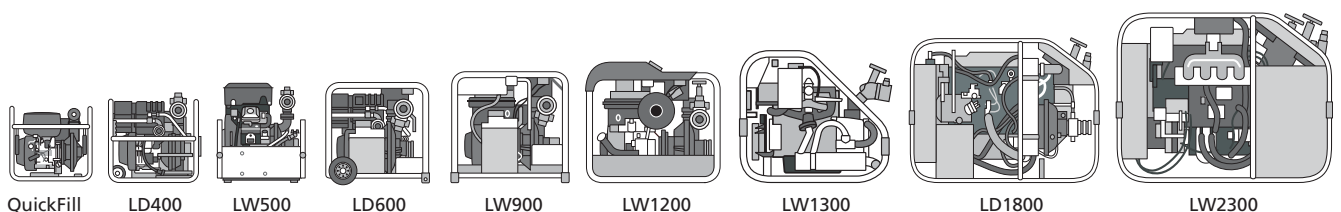
Ruggerini MD191E 851cc direct injection diesel engine.

14.1 kW (19 hp) at 3,600 rpm.

40.5 Nm (29 ft lbs) at 2.400 rpm.

Two cylinder, in line, overhead valve, sintered iron cylinder liners.

Full pressure lubricated via lobe pump.



* Based on 3m suction lift.

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Speed Control

Factory set internal mechanical governor

Cooling

Forced ventilation, ducted path
Crankshaft driven fan

Electrical

12v negative earth system with 16 amp engine driven alternator

Angle of Operation

15° from horizontal in any plane

Exhaust

Steel silencer arranged to direct exhaust gas away from the operators position

DIN exhaust extension connection available on request

Starting

Electric start standard

Ambient Temperature Range

Full power continuous operation
-30°C† (-22°F) to +38°C (100°F)

Security

Keyless starting – Pull stop facility

Emissions

Diesel engines below 19 kW for non-road applications are exempt from EEC emission regulations

CE Marking

The LD600 portable pump is CE marked for sale and use within the EEC

Sound Level

97 dB at 3 bar outlet pressure

Frame

Corrosion resistant 304 grade stainless steel outer frame and fabricated components

4 x Stainless steel fold away carrying handles with rubber grips

Wheel set for one man portability

Pump

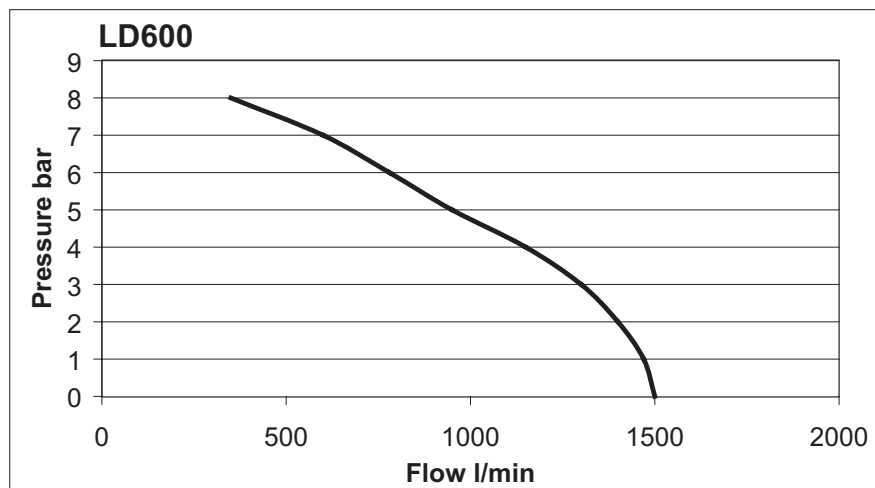
Corrosion resistant light alloy body and impeller, grade CC601, heat treated to T6

Maintenance free spring loaded carbon faced/ceramic shaft seal

Drain point

Long life PFPT wear rings

Performance



Outlet pressure*	Flow
Free flow	1,500 l/min
1 bar	1,470 l/min
2 bar	1,400 l/min
3 bar	1,300 l/min
4 bar	1,150 l/min
5 bar	950 l/min
6 bar	780 l/min
7 bar	600 l/min
8 bar	350 l/min

Pump Pressure Rating

Pump housing tested to 21 bar.

LD600 pump can accept input pressures up to 10 bar.

All pump housings are pressure tested to 3 x the nominal rated maximum output pressure to allow for high input pressures when operating in relay.

Pump Clearances

Centrifugal pumps will allow small solids to pass through the impeller and pump without causing damage. All Angus pumps are fitted with an inlet mesh filter which is smaller than the minimum clearance size of the impeller.

Inlet filter screen size 9 mm
Impeller clearance 12 mm

Priming

Manually actuated exhaust ejector system

3m lift (9" Hg) in under 20 seconds

Fuel tank

4 litre (0.9 imperial gallon)

Industrial plastic tank with top filling cap and inspection point

Inlet

Standard 100mm (4") British Standard Round thread - male connection

Outlet

Twin screw down bronze valves

Standard 2 1/2" instantaneous female couplings (other options available)

Instrumentation

Inlet glycerine filled compound gauge, 50mm Ø, scale -1 to +9 bar

Outlet glycerine filled pressure gauge, 50mm Ø, scale 0 to 25 bar

Engine hour run meter

Oil pressure indicator

Battery charge indicator

Quality Control

Angus Fire is a company assessed to ISO 9001 : 2000

100% quality check on all pumps for build and performance

Options

Marine grade Gunmetal impeller

Alternative inlet/outlet, storz, US fire thread, BSP

DIN exhaust extension connection

Positive displacement priming

Steel fuel tank

Tripod light

† Special oil may be required.

* Based on -3m suction lift.