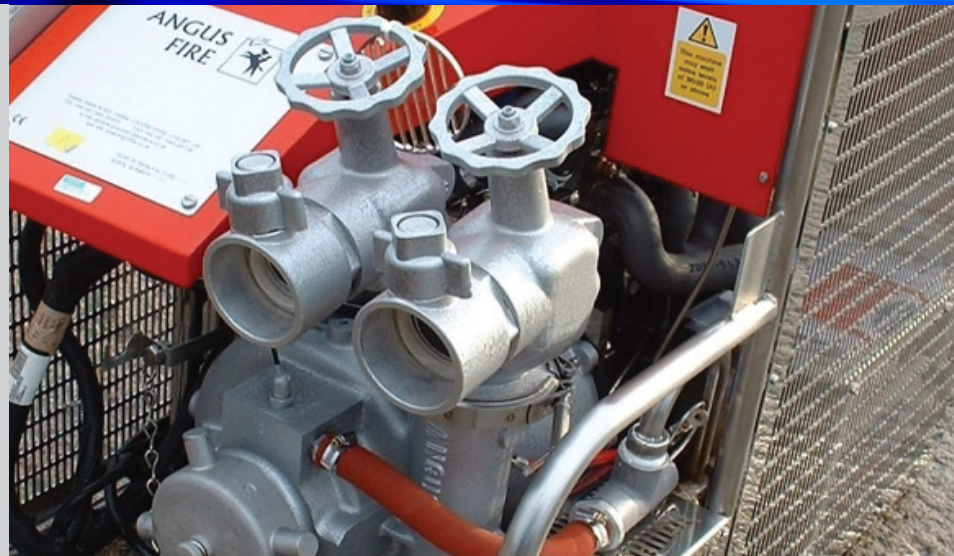


LW2275

Heavy Duty Portable Fire and Rescue Pump Nominal Flow at 7 Bar 2275 l/min (500 gal/min)

The Angus LW2275 pump is a heavy duty portable fire or industrial pump that combines the benefits of high pressure fire fighting performance with the ability to move large volumes of water continuously.



Dual Performance

The LW2275 pump is tailored to applications where both high pressure fire fighting flow and low pressure flood prevention flow need to be accommodated in one pump. By working with Ford, and tailoring the engine power and torque curves, the pump delivers the optimum performance for applications in countries where flood prevention, fire fighting and rapid deployment are essential.

State of the Art Engine

Powered by the Ford TSG416 1.6L RoCAM 4 cylinder engine. Full electronic control with diagnostics utilising the new EDI EPM module uniquely programmed by Ford for Angus to match the pump power and torque parameters.

Corrosion Resistant Construction

Stainless steel used extensively on fabricated parts. Castings, including pump casing and impeller in corrosion resistant light alloy.

Electrical System

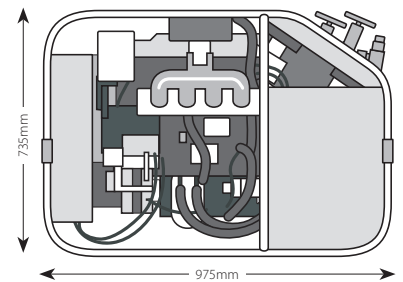
Electric starting is standard with a 12V negative earth system and 55 amp alternator. An ancillary socket is provided for external charging and to supply the optional lighting mast.

Cooling System

A closed circuit heat exchanger gives reliable cooling and is specifically sized for continuous operation in semi-tropical climates.

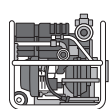
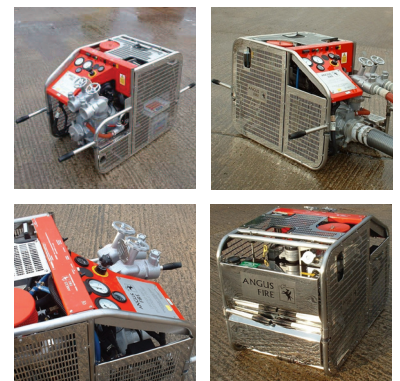
Standard Features

- Ford RoCam 4 cyl petrol engine with full electronic engine management system
- 12v electric start
- 30 litre (7 imperial gallon) fuel tank - 1¼ hour running at maximum load
- Fast and simple (one moving part) exhaust eject priming up to 7m lift
- Grade 304 stainless steel wrap around frame with folding carrying handles
- Light alloy, marine grade, corrosion resistant pump body and impeller
- Auxiliary electrical output and battery charging input
- Glycerine filled compound and output pressure gauges

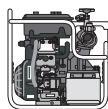


Dimensions

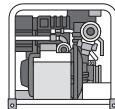
| | |
|--------|---------------|
| Length | 975 mm (38½") |
| Width | 610 mm (24") |
| Height | 735 mm (29") |
| Weight | 220 kg dry |



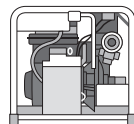
LDA 400



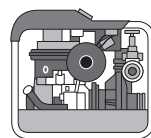
LWA 500



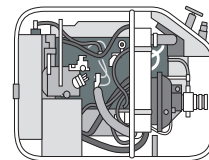
LDA 600



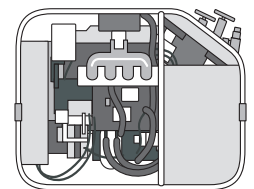
LWA 800



LWA 1200



LD 1800



LW 2250



ANGUS FIRE

Engine

Ford TSG 416 RoCam engine specially developed for Angus and approved by Ford for application in the LW2275 portable pump. 4 cylinder in line, 1,600 cc, overhead camshaft, petrol engine with sequential port fuel injection.

Electronic self diagnostic facility.

Five bearing steel forged crankshaft with vibration damper.

Overhead valve, pressure lubricated via crankshaft driven pump.

Die cast light alloy cylinder head and inlet manifold.

43 kW (57 hp gross) at 4,000 rpm.

Speed Control

Electronic governor and over speed protection with push button control

Cooling

Indirect water cooling via heat exchanger utilising pumped water supply (up to 40°C).

Visual coolant (engine side) level indicator

Electromagnetic Compatibility

Magnetic compatibility HV spark system - complies with EEC directive 89/336/EEC

Electrical

12V negative earth system with 55 amp engine driven alternator

2 pin power outlet socket for auxiliaries and in vehicle battery charging

Battery

"Freedom" no maintenance battery
60 A/hr lead acid sealed unit

Starting

12V permanently engaged starter

Angle of Operation

45° from horizontal in any plane

Exhaust

Stainless steel silencer arranged to direct exhaust gas away from the operator's position

CE Marking

The LW2275 portable pump carries the European standard CE mark

Ambient Temperature Range

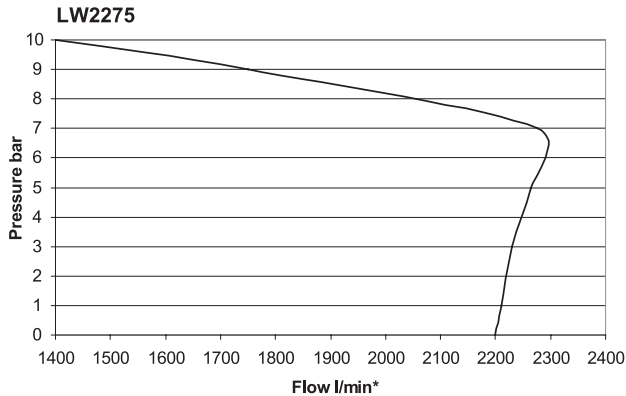
Full power operation -30°C† (-22°F) to +38°C (100°F)

Sound Level

102 dB at 7 bar outlet pressure

Frame

Corrosion-resistant 304 grade stainless steel outer frame and fabricated components
4 x Stainless steel fold away carrying handles lockable into position



Performance

| Outlet Pressure* | Flow** |
|------------------|--------|
| 1 bar | 2200 |
| 3 bar | 2230 |
| 5 bar | 2250 |
| 7 bar | 2275 |
| 9 bar | 1750 |
| 10 bar | 1400 |

Pump

Twin delivery single stage centrifugal pump mounted directly to the engine.

Two bearing stainless steel shaft design.

Corrosion-resistant light alloy body and impeller cast from LM25

Maintenance-free, spring-loaded, carbon-faced/ceramic shaft seal

Drain point.

Stainless inlet strainer

Pump Clearances

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 7 mm

Impeller clearance 11 mm

Pump Pressure Rating

LW2275 pump can accept input pressures up to 10 bar

All pump housings are designed to 1½ x the nominal rated maximum output pressure to allow for high input pressures when operating in relay

Priming

Vacuum exhaust ejector system 7m lift

Fuel Tank

30 litre (7 imperial gallon) – approx 1½ hours running at maximum load

Stainless steel tank with top filling cap and inspection point.

Inlet

Standard – 101.6mm (4") British Standard (to BS366) Round Thread male connection (with blank cap)

Outlet

Standard - twin rotatable manual globe valves, 2½" BS366 instantaneous female couplings

Instrumentation

Inlet - glycerine filled compound gauge, 100mm Ø, scale -1 to +9 bar

Outlet - glycerine filled pressure gauge, 100mm Ø, scale 0 to 25 bar

Engine hours run meter

Battery state meter

Safety

Engine overheat de-rating and shut down programme

Engine detonation protection

Low oil pressure and over speed shut down

Stainless panels guard all hot areas

All controls and gauges in one easy to use location

Panel light for night-time operation

Options

Wheeled pump transporter

Lighting mast

Emergency tool kit

Gunmetal pump body and impeller for marine applications

Inlet/outlet plugs and chains

Suction and discharge hoses, suction strainers and accessories

Trailer mounted pumps

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

2 year spare parts kit

BSP

2 year spare parts kit

2 year spare parts kit

Angus Fire is assessed by BSI and operates

ISO 9001 Quality Management Systems

and ISO 14001 Environmental Management

Systems.

† Special oil may be required.

†† Readings taken at position 1m horizontally from the controls and 1.7m vertically to represent the typical position of the operators head.

* Based on 3m suction lift.

** All flow data is subject to a +/- 5% manufacturing

and testing tolerance.

Angus Fire has over 30 years experience of manufacturing portable pumps for use world wide in fire and industrial applications.

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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.

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