

# LWA1300

## Light Weight Portable Pump

- Light weight
- Compact design
- Portable
- Robust cast pump casing



The Angus LWA1300 pump is a light weight (129kg) 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 people and operated by one. Electric start and rotary vane priming mean the pump can be put into service quickly and easily in an emergency situation.

Flows range from 1,300\* l/min at 7 bar delivery pressure to over 1,800\* l/min at 2 bar.

The LWA1300 uses the internationally renowned Briggs and Stratton Vanguard 37 hp (28 kW) air-cooled petrol engine for lightness and reliability. The "V" twin, overhead valve configuration, reduces vibration and provides excellent economy. All Briggs and Stratton engines meet all major emission standards world wide.

Angus fire pumps use robust cast pump casings which allow the use of substantial input pressures from hydrants or relay pumps without damaging the pump; a feature generally not available with lower specification pumps.

### Applications

#### Municipal Fire Brigades

1,300 l/min provides a fire service with three 400 l/min\* hand lines with pressure to spare

#### Rural Fire Fighters

The 37 hp (28 kW) engine will pump over ½ km and still provide over 4 bar pressure at the branch pipe.

#### Flood Relief

In situations where flow rather than pressure is critical the LWA1300 will provide over 1,800 l/min\* of salvage flow.

#### Standard Features

- Light weight "V" twin, low vibration, air-cooled 37 hp "Briggs and Stratton" petrol engine
- Sound treatment package
- 12v electric start
- Emergency hand start
- 12 litre fuel tank capacity, (1½ hours at maximum power)
- Fast and simple priming – 3m under 10 seconds
- Grade 304 stainless steel frame and fabricated components
- Grade 6061 light alloy corrosion resistant pump body and impeller heat treated to T6
- Glycerine filled compound and output pressure gauge
- Electrical power output/input charging point
- Dual 2½" outlet valve

### Engine

Briggs and Stratton commercial power, Vanguard "V" twin air-cooled, electronic fuel injection, overhead valve.

Maximum output 37 hp @ 3600 rpm. 57 cu. In. (993cc) displacement, 4 cycle. Full pressure lubrication.

### Cooling

Forced ventilation, ducted path crankshaft driven fan with phased fins.

### Ignition

Contact free high voltage ignition. Splash protected.

### Electrical

12v negative earth system with internal 20 amp engine driven alternator. 2 pin power outlet socket for auxiliaries (max current ~ 16 amps continuous, less engine ignition requirement).

### Battery

30 amp/hour light weight lead acid sealed unit – vibration and tilt resistant.

### Starting

12v electrical permanently engaged starter. Hand pull emergency start facility.

### Angle of operation

15° maximum from horizontal in any plane.

### Exhaust

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

### Ambient Temperature range

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

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### Emissions

Complies fully with:

- CARB standard (California Air Resources Board)
- EPA standard (Environmental Protection Agency - USA)
- ECVCA (UK Vehicle Certification Agency) Certificate of Conformity to European Directive 97/68/EC, amended by 2002/88/EC

### Sound levels

90 dB at 7 bar outlet pressure (provisional).

### Standards and approvals

The LWA1300 portable pump is manufactured to comply with EN 14466 and the performance criteria of EN1028.

Angus Fire is assessed by BSI and operates ISO 9001 Quality Management Systems and ISO 14001 Environmental Management Systems.

### CE marking

The LWA1200 portable pump is CE marked for sale and use within the EEC.

### Frame

Corrosion resistant 304 grade stainless steel outer frame and fabricated components, graphite resin bonded frame base and fibre-glass cowl with integral instrument panel. 4 x stainless steel fold away carrying handles with rubber grips lockable into position.

### Pump

Corrosion resistant light alloy body and impeller cast from 6061 grade aluminium heat treated to level T6. Maintenance free, spring loaded, carbon-faced/ceramic shaft seal. Drain point.

### Pump pressure rating

Pump housing designed to withstand 1½ maximum working pressure and to accept input pressures from hydrants or relay pumps.

### Priming

Fast and effective priming is provided by the simple to operate push button, dry sliding vane type primer. The pump will prime 3m under 10 seconds and to a maximum of 7.2 metres.

### Fuel tank

12 litre (2.64 imperial gallon).

### Inlet

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

### Outlet

Twin outlets with manual globe valves. Standard - 2½" BS336 instantaneous female couplings – optional Storz couplings. Other coupling options are available.

### Instrumentation

Inlet glycerine filled compound gauge, 64mm Ø, scale -1 to +9 bar.

Outlet glycerine filled pressure gauge, 64mm Ø, scale 0 to 25 bar.

Engine hour run meter.

Fuel gauge.

Oil pressure gauge.

Volt meter.

Flexible halogen night light.

In/out 12v electrical point for charging/operating accessories (e.g. lighting mast).

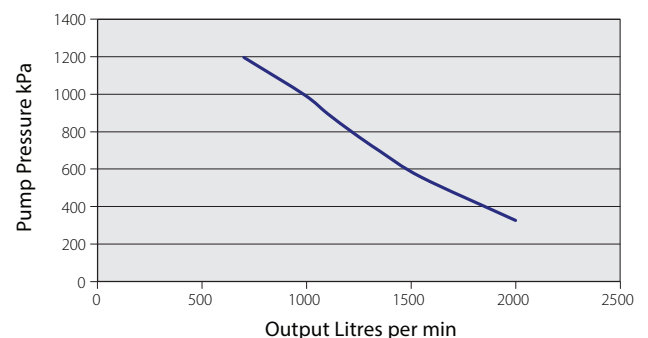
Dimensions	
Length	790 mm
Width	530 mm
Height	640 mm
Weight	129 kg (with fuel, oil and battery)
	119 kg dry (with battery)

Performance	
Outlet Pressure*	Flow**
2 bar	1,800 l/min
7 bar	1,300 l/min
10 bar	980 l/min

\* Based on 3m suction lift.

\*\* All flow data is subject to a +/- 5% manufacturing and testing tolerance.



### SALES & MARKETING

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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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