

Angus AP800

Light Weight Portable Pump

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



The Angus AP800 pump is a light weight (99Kg when full with fuel, oil and battery) portable fire or industrial pump that combines the benefits of high pressure firefighting performance with an extremely compact design that will fit most fire tender lockers and leave room for a second pump or a Positive Pressure Fan.

The unit is designed to be easily carried by two people and operated by one. Electric start and exhaust ejector priming mean the pump can be put into service quickly and easily in an emergency situation. Typical flows range from 800* l/min at 7 bar delivery to over 1400* l/min at 1 bar.

The Angus AP800 uses the Kohler ECH749 air cooled petrol engine for lightness and reliability. The "V" twin, overhead valve configuration, reduces vibration and provides excellent economy. Kohler engines meet all major emission standards worldwide.

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

800 l/min at 7 bar provides a fire service with two hand lines with pressure to spare.

Rural Fire Fighters

The Kohler engine will pump over ½ km and still provide over 3 bar pressure at the branch pipe.

Flood Relief

In situations where flow rather than pressure is critical the AP800 will provide up to 1400 l/min @ 1 bar.

Standard Features

- Light weight "V" twin, low vibration, air cooled Kohler petrol engine

- 12v electric start
- 10 litre fuel tank with gauge (1.5 hours at maximum capacity) refillable during operation
- Fast and simple exhaust eject priming - 3m in under 20 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 point
- Charge point
- Battery state indicator (Voltmeter)
- 5 stage illuminated fuel gauge
- Halogen 12v flexi light

Engine

Kohler ECH749 "V" twin industrial quality, overhead valve petrol engine, industrial ball race bearing on power side of crankshaft, 747 cc with 9.1:1 compression ratio. 19.8 kw (26.5 hp) at 3,600 rpm 40 ft lbs torque (54.2 Nm)

Overhead valve, sintered iron cylinder liners, pressure lubricated.

Speed Control

Lever operated factory set internal mechanical governor.

Cooling

Air cooled heavy duty, forced ventilation, ducted path crankshaft driven fan with phased fins.

Ignition

Contact free high voltage ignition Splash protected.

Electromagnetic Compatibility

Resistor installed spark plugs fitted as standard – complies with EEC directive 89/336/EEC.

Electrical

12v negative earth system with battery charging point.

Battery

18 amp hour, 12V valve regulated lead acid gel maintenance free battery.

Starting

12v electrical permanently engaged starter.

Angle of Operation

25° from horizontal in any plane.

Exhaust

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

Ambient Temperature Range

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

Please note that in temperatures above +38°C (100°F) performance may be potentially lower than stated.

Security

Protected ignition cut off switch with starter button disable.

Emissions

Complies fully with:

- CARB standard (California Air Resources Board) 2006
- EPA standard (Environmental Protection Agency - USA)
- EC VCA (UK Vehicle Certification Agency) Certificate of Conformity to European Directive 97/68/EC, amended by 2002/88/EC

Sound Levels

89 dB at 7 bar outlet pressure.

Sound Treatment Package

Laminated poly-core blower housing, phase modulated flywheel fin spacing, acoustically contoured crankcase.



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Standards and Approvals

The AP800 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 AP800 portable pump is CE marked for sale and use within the EEC.

Frame

Corrosion resistant 304 grade stainless steel outer frame and fabricated components 4 x Stainless steel fold away carrying handles.

Pump

Corrosion resistant light alloy body and impeller cast from 6061 grade aluminum heat treated to level T6.

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

Drain point.

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 10 mm.

Pump Pressure Rating

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

Priming

Manually actuated exhaust ejector system 3m lift (9" Hg) in under 20 seconds.

Fuel Tank

10 litre (2.2 imperial gallons) Plastic tank with top filling cap and 5 Stage illuminated contents gauge.

Inlet

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

Outlet

Twin outlets with manual ball valves Standard - 2½" BS336 instantaneous female couplings.

Instrumentation

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

Outlet glycerine filled pressure gauge, 50mm Ø, scale 0 to 16 bar

Voltmeter - to indicate battery and charging state

Engine hour run meter

Flexible halogen night light

Options

Marine grade Gunmetal impeller and pump body

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

Screw down gate valves with 2½" instantaneous coupling

Foam proportioner; 0.1% to 6% variable (pressure difference from inlet and outlet of pump drives a fixed inductor)

Wheel set

Inlet/outlet plugs and chains

Suction and discharge hoses, suction strainers and accessories

Dimensions

Length	630 mm (24¾")
Width	489 mm (19¼")
Height	574 mm (22½")
Weight	91 kg (with oil and battery) 99Kg (full weight with fuel)

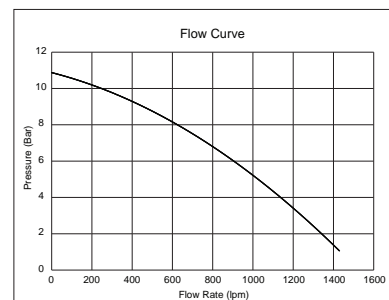
Performance

Outlet Pressure*	Flow**
Salvage flow	1.400 l/min
2.5 bar	1.300 l/min
4 bar	1,100 l/min
6 bar	900 l/min
7 bar	800 l/min
8 bar	600 l/min
10 bar	250 l/min

Maximum anticipated Suction Lift
10 metres

* Based on 3m suction lift.

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



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