

QuickFill

Light Weight Portable Pump

The Angus QuickFill pump is a portable fire or industrial pump that is specifically designed to maximise flow at lower pressures while keeping the pump light weight (only 58 kg) and compact, and still achieve enough flow to power a single fire hose at 5 bar when needed. In addition the compact design means that the QuickFill will fit most fire tender lockers and leave room for a second pump or a Positive Pressure Fan. Typical flows range from 1,400* l/min at 1 bar (salvage flow) to 390* l/min at 5 bar.

The QuickFill uses the internationally renowned Briggs & Stratton "VANGUARD" 10.4 kW (14hp) air-cooled petrol engine for lightness and reliability. All Briggs & Stratton engines meet all major emission standards world wide.

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

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

Applications

Flood Relief

In situations where flow rather than pressure is critical the QuickFill will provide over 1,400 l/min*

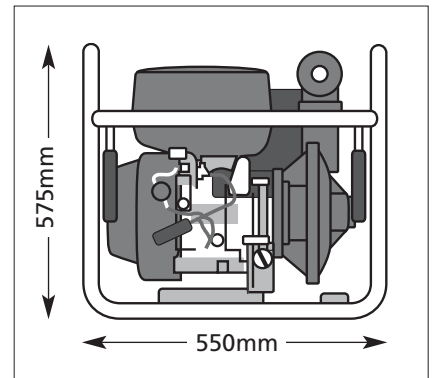
Municipal Fire Brigades

390 l/min* at 5 bar provides a fire service with a single hand line when necessary.

Standard features

- Light weight, single cylinder, low vibration, air-cooled 14 hp Briggs & Stratton petrol engine
- Sound treatment package
- 12V electrical system
- Hand start
- 8.5 litre fuel tank capacity (1½ hours at maximum speed).
- 180° swivel outlet valve
- Reliable and simple diaphragm hand pump priming
- Grade 304 stainless steel frame and fabricated components
- Light alloy, marine grade, corrosion-resistant pump body and impeller

Technical Specification



Dimensions

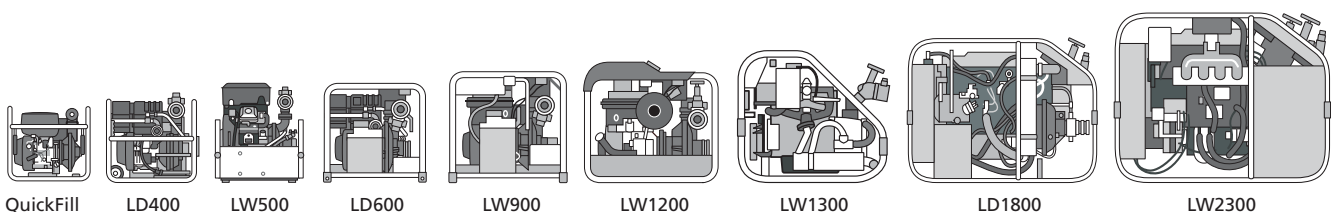
Length	550 mm (21¾")
Width	500 mm (19¾")
Height	575 mm (22¾")
Weight	58 kg (with engine oil)

Engine

Briggs & Stratton "VANGUARD" single cylinder industrial quality petrol engine, industrial ball race bearing on power side of crankshaft, 480 cc with 8.5:1 compression ratio

10.4 kW (14 hp) at 3,600 rpm (max speed), 32.5 Nm torque (23.6 ft lbs) at 2,400 rpm.

Overhead valve, sintered iron cylinder liners, pressure lubricated.



* Based on 3m suction lift.

Speed Control

Factory set internal mechanical governor

Cooling

Forced ventilation, ducted path

Crankshaft driven fan with phased fins

Ignition

Contact free high voltage ignition

Splash protected

Angle of Operation

15° from horizontal in any plane

Electromagnetic Compatibility

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

Electrical

12V negative earth system with 16 amp engine driven alternator

Starting

Hand pull start facility

Keyless starting – ignition On/Off switch

Ambient Temperature Range

Full power continuous operation

-30°C[†] (-22°F[†]) to +38°C (100°F)

CE marking

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

Sound levels

89 dB at 3 bar outlet pressure

Emissions

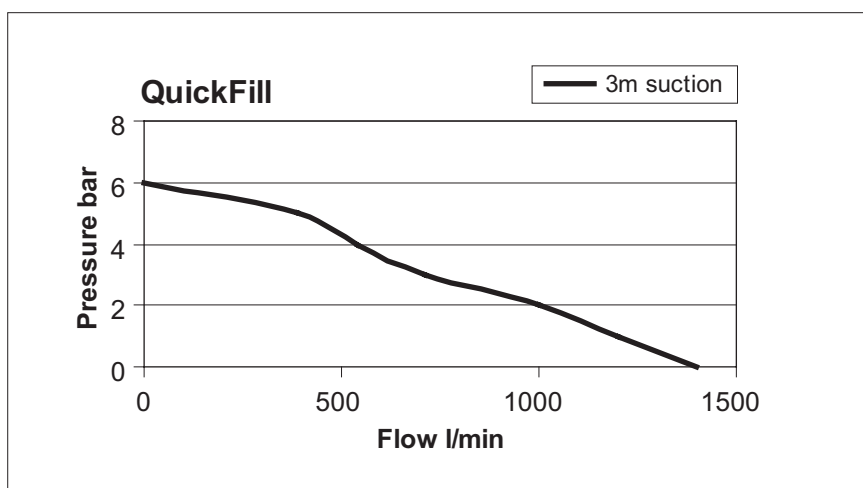
Complies fully with:

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

Sound Treatment package

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

Performance



Outlet pressure*	Flow
1 bar	1,200 l/min
2 bar	1,000 l/min
3 bar	710 l/min
4 bar	540 l/min
5 bar	390 l/min

Frame

Corrosion-resistant 304 grade stainless steel outer frame and fabricated components

Pump

Corrosion-resistant light alloy body and impeller, marine grade TT601, heat treated to 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 12 mm

Pump Pressure Rating

Pump housing tested to 21 bar

QuickFill pump can accept input pressures up to 10 bar

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

Priming

Manual diaphragm pump

Fuel tank

8.5 litre (1.9 imperial gallon)

Industrial plastic tank with top filling cap and inspection point

Inlet

Standard - 64mm (2½") British Instantaneous - male connection

Outlet

Single manual ball valve

Standard - 2½" instantaneous female coupling

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

Quality Control

Manufactured in compliance with BS EN ISO 9001:2000 quality management systems
100% quality check on all pumps for build and performance

Options

Alternative outlet, Storz, US fire thread, BSP

[†] Special oil may be required.

* Based on 3m suction lift.