



MODEL VC72AS



MODEL VC52AS

FEATURES

1. Lightweight and compact

Each model has a dry weight of only 85 kg (187) and they are of compact design. With this weight and size the fire pumps can be easily carried by two firemen and positioned close to the fire even in narrow and rugged places. These are essential features of a portable fire pump to facilitate rapid fire fighting.

The engine is designed and produced exclusively for the fire pump, its high performance, light weight compact size enhances the engine's reliability and durability. Most of the engine and pump component parts are made of anti-corrosive aluminum-alloy to reduce weight and prolong working life.

2. High power, highly reliable engine with oil injection/ auto-mixing oil delivery system

A special engine was designed exclusively for use on VC72AS and VC52AS. These models are possible to match engine performance precisely to the needs of pump, while simplifying its overall construction. Gasoline and oil are mixed automatically at a precise ratio to engine speed. This system eliminates the need to premix fuel. The monitor lamp lights up and buzzer sounds when 3/4th of the oil in the tank has been used.

3. Low engine noise

Large silencers are fitted to the intake and exhaust ports to reduce engine noise.

A specially designed water cooled muffler is fitted to reduce engine noise.

4. Highpump performance

In the portable fire pump class, this series of pump has a recognized high performance rating.

Pressure	VC72AS	VC52AS
At 4kg/cm ²	1,700L/min	1,450L/min
At 6kg/cm ²	1,550L/min	1,250L/min.
At 8kg/cm ²	1,300L/min	1,000L/min
At 10kg/cm ²	950L/min	600L/min

(Suction height: at 3m)

The installation of an inducer on the pump shaft facilitates higher suction lift performance.

5. Fully covered protection

This cover protects the engine from water falling on the pump unit and it is easily detachable when required for servicing. Stream line of the cover is attractive design and safe.

6. Cooling water recirculating system

Cooling water is returned to the pump eliminating discharge outside of the pump. This pump can be operated in dry, or clean area without contamination and saves water.

7. Centralized control

All gauges, throttle dial control knobs and switches are located on the control panel for easy operation. The control panel also includes an OK Monitor to provide an easy visual check of the pump operation.

8. Unique auto choke carburetor

Because of Tohatsu's unique auto choke carburetor on this model, the engine will start easier in all seasonal temperature condition. There is no choke knob because no choke adjustment required.

9. Fuel draining feature

After the fuel remaining in the carburetor float chamber will deteriorate very quickly leading to hard starting, and possible engine damage. Models VC72AS and VC52AS are equipped with a float chamber drain valve to provide easy removal of unused fuel in the carburetor. Fuel should be drained from the float chamber after each use to ensure consistent fast starting in future emergencies.

10. Engine overheat protection sensor

Overheat protection is provided on this model to safeguard the engine from cooling water loss, and to protect the pump without supplying water. This device will stop the engine automatically when the operating temperature reaches 80°C. A reset switch is provided to override the sensor after it stops the

engine. This gives control to the operator in emergency situations.

11. Reliable electric starter and back-up recoil starter

An electric starter and back-up automatic recoil starter are installed to guarantee starting the engine under any condition.

12. Stainless steel fuel tank

A stainless steel fuel tank and muffler prevents fuel contamination resulting from tank corrosion, which in turn ensures longer engine life.

13. 180° rotating discharge port

The discharge port can be rotated freely through 180° allowing the direction of the delivery hose to be changed without replacing the pump unit.

Note:

Hose Connection: Throughout the world there are different types of hose connection. We can supply some kinds of the adaptors. Please consult your local dealer with regard to changing the thread at both the suction and discharge ports to fit the local adaptors.

OK Monitor:

The OK Monitor check the following three points

*** Engine Oil Level Indication Lamp**

This warning lamp lights up when the oil level in the engine oil chamber reaches a dangerous low level. The lamp lights up when 2/3rd of the oil has been used and the oil must be filled immediately.

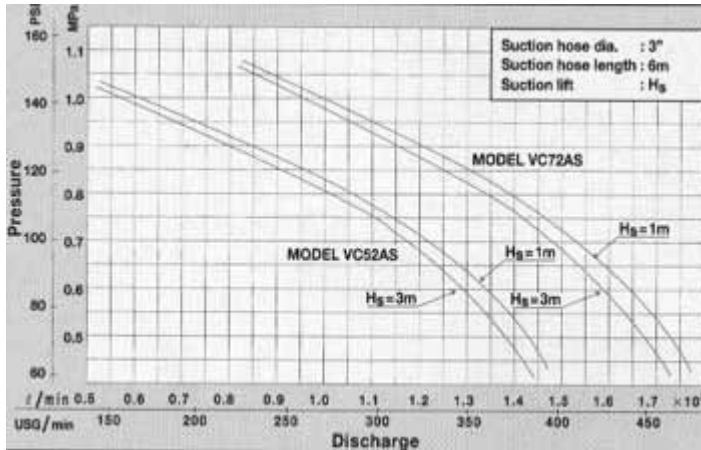
*** Fuel Level Alarm Lamp**

The warning lamp lights up when the level of fuel in the tank is low (2/3rds EMPTY). Fuel should be added as necessary. The tank should be kept fully topped up with fresh fuel.

*** Engine Overheat Protection Sensor Device**

This device stops the engine automatically when the engine has excessively heated caused by lack of cooling water. The engine will stop and the lamp will light when the overheat sensor works.

Performance Specs



SPECIFICATIONS

Engine:	VC72AS	VC52AS
Type:	2-stroke, 2-cylinder, water cooled gasoline engine	
Model:	2WT76AM	
Bore & Stroke & No. of Cylinder:	76mm x 68mm	
Total Piston Displacement:	617ml	
Maximum Output:	30kw	
Fuel Tank Capacity:	Approx. 18 litres(4.76 US gals.)	
Starting System:	Starter Motor and automatic recoil system	
Choke System:	Auto choke system	
Lubrication:	Auto-mixing	
Ignition:	Flywheel Magneto (CDI system)	
Lighting Floodlight Projector:	12V - 35W	

Battery:	12V - 21 Ah/5h	
Pump:		
Type:	Single-suction single-stage, high pressure turbine pump	
Discharge Port Coupling:	JIS-B-9912 dimensions of screwed type coupling for fire hose 2-1/2"(82.5deg, 5 threads per inch, angle of threads 55deg)	
Suction Port Coupling:	JIS-B-9912 dimensions of screwed type coupling for fire hose 3"(95, 4 threads per inch, angle of threads 55deg)	
Priming:	Rotary-vane vacuum pump	
Pump Performance: (Suction height : 3 m) at 4kg/cm ² at 6kg/cm ² at 8kg/cm ² at 10kg/cm ²	Over 1,700 lit(449 US gals.)/min Over 1,550 lit(409 US gals.)/min Over 1,300 lit(343 US gals.)/min Over 950 lit(251 US gals.)/min	Over 1,450 lit(383 US gals.)/min Over 1,250 lit(330 US gals.)/min Over 1,000 lit(264 US gals.)/min Over 600 lit(159 US gals.)/min
Dimensions and Weight Overall Length Overall Width Overall Height	Approx. 700mm(27.6 inch) Approx. 620mm(24.4 inch) Approx. 730mm(28.7 inch)	
Weight	Approx. 85kg(187 lbs)	
Max Suction Height	Approx. 9m(29.5 feet)(Over 64 cmHg)	