

## Model VC52AS

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Engine	617cc Tohatsu 2 strokes, water-cooled gasoline engine
Authorized output	40.8PS (30kW)
Pump performance	1450 liter / min. at 0.4MPa 1000 liter / min. at 0.8MPa 600 liter / min. at 1.0MPa
Dry weight	85kg

### Features of VC52AS

#### 1. Light weight and compact

Engine and pump castings are made of anti-corrosive aluminum-alloy to reduce weight and prolong working life. Compact unit in its class fits existing locker space, also can be carried by 2 firemen.

#### 2. High pump performance

Both engine and pump are designed and developed exclusively for fire pumps by Tohatsu, ensuring higher pump performance for its class.

#### 3. Reliable engine with oil injection/auto mixing oil delivery system

The engine of VC52AS was originally designed by Tohatsu for VC series models. Equipped with oil pump, gasoline and engine oil are mixed automatically at a precise ratio to engine speed without mixing fuel and oil by operator.

#### 4. Priming

Quick priming is provided by operating Rotary Vane Vacuum Pump. Prime 3meters in 6seconds.

#### 5. Centralized control

All gauges, throttle dial, control switches, and other warning lamps are grouped on the control panel for easy operation.

#### 6. Cooling water recirculation system

Engine cooling water is returned to the pump eliminating discharge outside of the pump, and contamination of surrounding area.

#### 7. Unique auto choke carburetor

This device helps engine start easier in all seasonal temperature conditions.

#### 8. Engine overheat protection sensor

Overheat protection is provided on this model to safeguard the engine from cooling water loss, and to protect engine when water is not discharging. This device stops the engine automatically when engine temperature reaches 80degree C. Reset switch is provided to release the sensor after it stops the engine.

### 9. Stainless steel fuel tank

Integrated fuel tank with large capacity of 18liters ensures the fuel supply will last for 1.5 hours at least at maximum throttle opening and load.

### 10. 180degree rotating discharge port

### 11. Electric starter with back up recoil starter

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

#### Accessories

1. Battery charger
2. Floodlight projector
3. Plastic toolbox

#### Adapters

Some different type of adapters for suction port and discharge ports are available.

#### Specifications

<b>Engine</b>	Type	2-stroke, 2-cylinder, water cooled gasoline engine
	Bore & Stroke	76mm x 68mm (2.99in. X 2.68in.)
	Piston displacement	617cc ( 37.64 cu.in.)
	Authorized output	40.8PS/ 30 kW
	Fuel tank	18 liters (4.76 US gals)
	Fuel consumption	12 liters/h (3.17US gals/h.)
<b>Engine</b>	Ignition	Flywheel magneto (C.D.I. system)
	Starting system	Starter motor and automatic recoil system
	Lubrication	Separate fuel/oil supply system (Auto mixing)
	Choke system	Auto choke system
	Spark plug	NGK BP7HS-10
	Light bulb	12V-35W
	Battery	12V-16Ah/5h
<b>Pump</b>	Type	Single suction, single stage, high pressure turbine pump
	Discharge port coupling	JIS fire thread (B-9912), 2-1/2" male
	Suction port coupling	JIS fire thread (B-9912), 3" male
	Priming	Rotary-vane vacuum pump (Oilless type)
<b>Pump performance (Suction height: 3m)</b>		Over 1,450 liters (Over 383 US gals)/min. at 0.4 MPa
		Over 1,250 liters (Over 330 US gals)/min. at 0.6 MPa
		Over 1,000 liters (Over 264 US gals)/min. at 0.8 MPa
		Over 600 liters (Over 159 US gals)/min. at 1.0 MPa
<b>Dimensions</b>	Overall length	Approx. 700mm (27.6 inch)
	Overall width	Approx. 620mm (24.4 inch)
	Overall height	Approx. 730mm (28.7 inch)
<b>Mass</b>		85kg (187 lbs)
<b>Max. suction height</b>		Approx. 9m (29.5 feet)

