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Model VC82ASE



Engine

746cc Tohatsu 2 strokes, water-cooled gasoline engine

Authorized output

55PS (40.5kW)

Pump performance

2050 liter / min. at 0.6MPa

1800 liter / min. at 0.8MPa

1500 liter / min. at 1.0MPa

Dry weight

94kg


[Outline drawing](#)

[Performance Curve](#)

Features of VC82ASE

More attractive features and functions are added to maximize efficiency of fire services.

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 specifically for fire-pump application by Tohatsu, ensuring higher pump performance for its class.

3. Reliable engine with optimal engine start-up

The engine of VC82ASE is originally designed by Tohatsu for this model. 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 1meter in 4seconds (6m suction hose)

Prime 3meter in 5.5seconds (6m suction hose)

Prime 6meter in 8.0seconds (6m suction hose).

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 making surrounding area soaked.

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 80°C. Reset switch is provided to release the sensor after it stops the engine.

9. Large capacity fuel tank

Integrated fuel tank with large capacity of 18liters ensures the fuel supply will last for 1 hour at maximum throttle opening and load.

10. 90 degree rotating delivery outlets

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.

12. Maintenance free battery

Equipped with sealed type and maintenance free battery, once the battery is filled with a specified electrolyte, maintenance of electrolyte is not required.

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

Model:	VC82ASE
Engine:	Type: Tohatsu 2-stroke, 2-cylinder, water cooled gasoline engine
	Bore & Stroke: 78mm x 78mm
	Piston displacement: 746cc
	Authorized output: 55PS/ 40.5 kW
	Fuel tank: 18 liters
	Fuel consumption: 20liters/h
	Ignition: Flywheel magneto (C.D.Ignition)
	Starting system: Starter motor and automatic recoil system
	Lubrication: Auto mixing (Separate oil tank)
	Choke system: Auto choke
	Spark plug: NGK BP7HS-10
	Light bulb: 12V-35W
	Battery: 12V-16Ah/5h
Pump:	Type: Single suction, single stage, high pressure turbine pump
	Delivery outlet: JIS fire thread (B-9912), 2-1/2" (65mm) male BSP 65mm (G 2-1/2") male
	Suction inlet: JIS fire thread (B-9912), 3-1/2" (90mm) male BSP 100mm (G 4") male
	Priming: Rotary-vane vacuum pump (oilless type)
Pump performance: (Suction height: 3m)	2,050 liter/min. at 0.6 MPa 1,800 liter/min. at 0.8 MPa 1,500 liter/min. at 1.0 MPa
Dimensions:	Length: 742mm x Width: 682mm x Height: 760mm
Mass (Dry):	94kg
Max. suction height:	Approx. 9m (29.5 feet)

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