



Model : V46BS



Engine

454cc Tohatsu 2 strokes, water-cooled gasoline engine

Authorized output

45.01PS (33.1kW)

Pump performance

1450 liter / min. at 0.4MPa

1000 liter / min. at 0.8MPa

600 liter / min. at 1.0MPa

Dry weight

87kg



Outline drawing



Performance Curve

Features of V46BS

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 pumps by Tohatsu, ensuring higher pump performance for its class.

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

The engine of V46BS was originally designed by Tohatsu for V 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 80°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		
Model:		V46BS
Engine:	Type:	Tohatsu 2-stroke, 2-cylinder, water cooled gasoline engine
	Bore & Stroke:	76mm x 68mm
	Piston displacement:	454cc
	Authorized output:	45.01PS/ 33.1 kW
	Fuel tank:	18 liters
	Fuel consumption:	13 liters/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" (75mm) male
		BSP 100mm (G 4") male
	Priming:	Rotary-vane vacuum pump (Oilless type)
Pump performance: (Suction height: 3m)		1,450 liter/min. at 0.4 MPa
		1,250 liter/min. at 0.6 MPa
		1,000 liter/min. at 0.8 MPa
		600 liter/min. at 1.0 MPa
Overall dimensions:		Length: 685mm x Width: 605mm x Height: 754mm
Mass:	Dry:	87kg
	Wet:	103kg
Max. suction height:		Approx. 9m (29.5 feet)

