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## Model V20D2 / Model V20D2S (with electric starter)



### Engine

198cc Tohatsu 2 strokes, air-cooled gasoline engine

### Authorized output

11.7PS (8.6kW)

### Pump performance

650 liter (172 US gals.)/min. at 0.5MPa  
400 liter (106 US gals.)/min. at 0.7MPa

### Priming

Rotary vane vacuum pump

### Dry Weight

36kg (V20D2), 42kg (V20D2S)

### V20D2



[Outline drawing](#)



[Performance Curve](#)

### V20D2S



[Outline drawing](#)



[Performance Curve](#)

## Features of V20D2/V20D2S

### 1. Light weight and compact

Engine and pump castings are made of anti-corrosive aluminum-alloy to reduce weight and prolong working life. The pump can be carried on a fireman's back for limited distances when properly mounted on a backpack. When mounted on a truck, the compact design allows for more locker space for other fire equipments. It is suitable for forest fire fighting.

### 2. High pump performance

Both engine and pump are designed specifically for fire pumps by TOHATSU ensuring high pump performance for its class.

### 3. Unique auto choke carburetor

Equipped with TOHATSU's unique auto choke carburetor on this model, the engine can start easier in all seasonal temperature conditions. A valve type one touch-draining device is equipped for quick drainage of fuel in carburetor.

### 4. Oilless type vacuum pump

Tohatsu's rotary vane vacuum pump can assure you quick priming of water in case of emergency.

5.0 sec. at suction height 1m  
 6.0 sec. at suction height 3m  
 10.0 sec. at suction height 6m

**5. Centralized control**

Pressure and vacuum gauges, throttle dial and switches are grouped on the control panel.

**6. Stainless steel fuel tank**

Stainless steel fuel tank can keep fuel prevent contamination from corrosion.

**7. 90 degree rotating discharging port**

The discharge port can be rotated freely through 90degree allowing the direction of the delivery hose to be easily changed without moving the pump unit.

**8. Starting system**

In addition to the electric starter, a recoil starter is installed to guarantee starting under any condition (V20D2S). The pulling load of the recoil starter is reduced by engine exhaust by pass.

**Accessories**

1. Battery Charger (V20D2S)
2. Floodlight projector
3. Plastic toolbox

**Adapters**

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

| Specifications |                      |  |
|----------------|----------------------|--|
| Model:         |                      | V20D2S,V20D2   |
| Engine:        | Type:                | Tohatsu 2-stroke, single vertical cylinder, air cooled gasoline engine |
|                | Bore & Stroke:       | 66mm x 58mm  |
|                | Piston displacement: | 198cc  |
|                | Authorized output:   | 11.7PS/ 8.6 kW   |
|                | Fuel tank:           | 3.5 liters   |
|                | Fuel consumption:    | 4.9 liters/h.  |
|                | Ignition:            | Flywheel Magneto (C.D. Ignition)                                       |
|                | Starting system:     | V20D2S: Starter motor, automatic recoil                                |
|                |                      | V20D2: Automatic recoil  |

|   |  |  |
|---|--|--|
|   | Lubrication:                           | Fuel mixture (Gasoline 30 : Engine oil 1)                |
|   | Choke system:                          | Auto choke   |
|   | Spark plug:                            | NGK B7HS   |
|   | Light bulb:                            | 12V-35W  |
|   | Battery:                               | 12V-14Ah   |
| <b>Pump:</b>                                      | Type:                                  | Single suction, single stage, high pressure turbine pump |
|   | Delivery outlet:                       | JIS fire thread (B-9912), 2-1/2" male                    |
|   |  | BSP 65mm (G 2-1/2") male                                 |
|   | Suction inlet:                         | JIS fire thread (B-9912), 2-1/2" male                    |
|   |  | BSP 65mm (G 2-1/2") female                               |
| Priming:  | Rotary-vane vacuum pump (Oilless type) |  |
| <b>Pump performance:<br/>(Suction height: 3m)</b> |  | Over 650 liter/min. at 0.5 MPa                           |
|   |  | Over 400 liter/min. at 0.7 MPa                           |
| <b>Overall dimensions:</b>                        |  | Length: 555mm x Width: 470mm x Height: 532mm             |
| <b>Mass:</b>                                      | Dry:                                   | V20D2S: 42kg, V20D2: 36kg                                |
|   | Wet:                                   | V20D2S: 46kg, V20D2: 39kg                                |
| <b>Max. suction height:</b>                       |  | Approx. 9m (29.5 feet)                                   |

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