



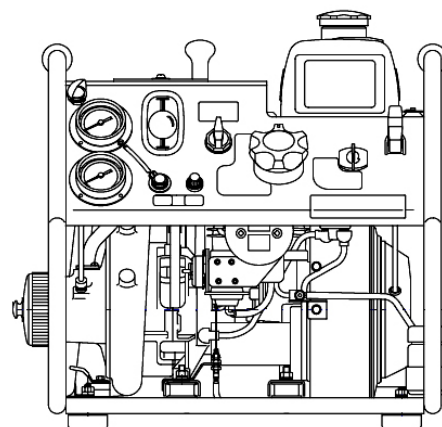
TOHATSU CORPORATION

PORTABLE FIRE PUMP

MODEL V20D2S
MODEL V20D2



ISO9001:2000, ISO14001
Certified, Tokyo plant



SPECIFICATIONS

ENGINE	MODEL	V20D2	V20D2S	PUMP	TYPE	Single-suction, single-stage Centrifugal high pressure turbine pump		
	TYPE	2-stroke, single vertical cylinder, air cooled gasoline engine			SUCTION & DELIVERY PORT COUPLINGS	2-1/2" JIS fire thread male		
	MODEL	V20D2/V20D2S			PRIMING	Rotary – vane vacuum pump (Oilless type)		
	BORE & STROKE & NO. OF CYLINDER	66 mm x 58 mm x 1 (2.60 in. x 2.28 in. x 1)			PUMP PERFORMANCE (Suction Height : 3 m) at 0.5 MPa at 0.7 MPa	650 lit./min. (172 GPM) 400 lit./min. (106 GPM)		
	TOTAL PISTON DISPLACEMENT	198 ml (12.08 cu.in.)						
	MAXIMUM OUTPUT	15PS/11.0kW						
	FUEL TANK CAPACITY	3.5 liters (0.92 US gals.)						
	FUEL CONSUMPTION	4.9 liters (1.29 US gals.) / hr.			GENERAL	OVERALL LENGTH	Approx. 555 mm (21.85 inch)	
	STARTING SYSTEM	Recoil system and pull rope	Starter motor, Recoil system and pull rope	OVERALL WIDTH		Approx. 470 mm (18.50 inch)		
	CHOKE SYSTEM	Auto choke system				OVERALL HEIGHT	Approx. 532 mm (20.94 inch)	
	LUBRICATION	Fuel mixture (Gasoline 30 : Engine oil 1)				MASS	36 kg (79.37 lbs)	42 kg (92.59 lbs)
	IGNITION	Flywheel magneto (C.D.I. System)						
	LIGHTING	12V – 35W				MAX.SUCTION HEIGHT	9 m	
	BATTERY	12V						

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 exclusively 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

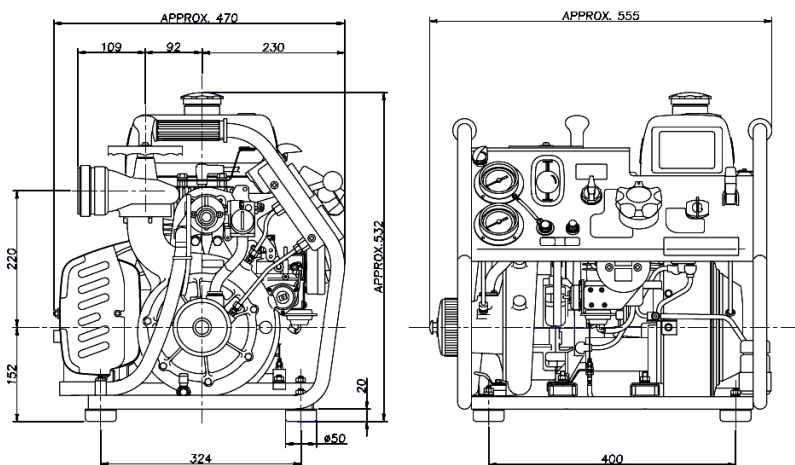
The discharge port can be rotated freely through 90degree allowing the direction of the delivery hose to be easily changed without moving the pump unit.

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

EXTERNAL VIEW



PERFORMANCE CURVES

