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VE1500

Performance at suction height 3m

2050 Lit/min at 0.6 MPa

1800 Lit/min at 0.8 MPa

1500 Lit /min at 1.0 MPa

Priming performance

3.4 sec. / at suction height 1 m

6.7 sec. / at suction height 3 m

14.2 sec. \angle at suction height 6 m

VC82 ASE VC85 BS

Performance at suction height 3m

1920 Lit/min at 0.6 MPa

1660 Lit/min at 0.8 MPa

1410 Lit/min at 1.0 MPa

Priming performance

2.3 sec. / at suction height 1 m

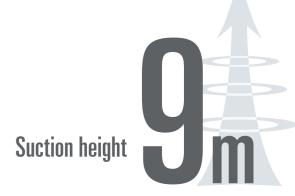
4.5 sec. / at suction height 3 m

9.2 sec. / at suction height 6 m

- ·90 degree swinging twin outlets
- · Engine overheat protection sensor
- •The best suction performance in its class (9m/30ft)
- ·Simple, compact design allows easy maintenance







The lightest model in its class

The best suction performance in the industry (9m/30ft)

Specification		VE1500	VC82ASE	VC85BS	
	Туре	2-Cycle			
	Number of Cylinder	2-Cylinder			
Engine	Cooling System	Suction water cooled			
	Bore x Stroke	81 x 78 mm (3.19 x 3.07 inch) 78 x 78 mm (3.07 x 3.07 inch)			
	Piston displacement	804cc (49.0 cu in) 746cc (45.5cu in)			
	Output	44 kW (60 PS)	44 kW (60 PS) 38.2 kW (52 PS)		
	Fuel Type	Unleaded Gasoline (Min. 87 Octane)			
	Fuel Tank Capacity	24 Lit (6.34 ga l)	18 Lit (4.76 gal)		
	Fuel Consumption	22 Lit / Hr (5.81 gal / Hr)	20 Lit / Hr (5.28 gal / Hr)		
	Fuel System	Electronic Fuel Injection	Single Carburetor with Auto Choke		
	Oil Tank Capacity	1.6 Lit (0.42 gal)			
Suction	Starting	Electric and Manual			
	Suction System	4 Blade Rotary Vane Vaccum Pump (oilless-type)			
	Automatic Suction	No	No	Yes	
	Pump Type	Single Suction, Single Stage centrifugal pump			
	Suction Thread and Dia.	BSP 4" (100mm)	JIS 3-1/2" (90mm)		
	Oddalon Thread and Blas		BSP 4" (100mm)		
Pump	Discharge Thread and Dia.	BSP 2-1/2" (65mm)	JIS 2-1/2" (65mm)		
	Discharge Number		BSP 2-1/2" (65mm) Twin		
	Discharge Valve	Flat	Ball or Flat	Ball	
Weight	Dry Weight				
	Wet Weight	107kg (235.89 lbs) 127kg (279.99 lbs)	94kg (207.23 lbs) 110kg (242.5 lbs)	95kg (209.44 lbs) 111kg (244.71 lbs)	
Dimentions(mm)	Overall Length x Width x Height	748 x 732 x 827	742 x 682 x 760	742 x 682 x 760	

V20 ES V20 D2S

Performance at suction height 3m

525 Lit/min at 0.6 MPa 250 Lit/min at 0.8 MPa

Priming performance

3.7 sec. / at suction height 1 m

7.0 sec. / at suction height 3 m

15.4 sec. / at suction height 6 m

VC72 AS VC52 AS

Performance at suction height 3m

1550 Lit/min at 0.6 MPa

1300 Lit/min at 0.8 MPa

950 Lit/min at 1.0 MPa

Performance at suction height 3m

1250 Lit/min at 0.6 MPa

1000 Lit/min at 0.8 MPa

600 Lit/min at 1.0 MPa

Priming performance
2.3 sec. _at suction height 1 m

4.5 sec. \angle at suction height 3 m

9.2 sec. / at suction height 6 m



V20ES

V20D2S



- ·90 degree swinging single outlet.
- ·Engine overheat protection sensor.
- · Easy maintenance



Light weight Light weight

Suction height

The lightest model in the industry (V20D2S)

The best suction performance in the industry (9m/30ft)

Specification		VC72AS VC52AS	V20ES	V20D2S	
	Туре	2-Cycle			
	Number of Cylinder	2 Cylinder	1 Cyl	inder	
	Cooling System	Suction Water Cooled	Air C	ooled	
	Bore x Stroke	76 x 68 mm (2.99 x 2.68 inch)	66 x 58 mm (2	.6 x 2.28 inch)	
	Piston displacement	617cc (37.6 cu in)	198cc (1.	2.0 cu in)	
Engine	Output	30 kW (40,8 PS)	8.6 kW (8.6 kW (11.7 PS)	
	Fuel Type	Unleaded Gasoline (Min. 87 Octane)			
	Fuel Tank Capacity	18 Lit (4.76 gal)	3.5 Lit ((0.92 gal)	
	Fuel Consumption	16 Lit / Hr (4.23 gal / Hr)	4.9 Lit / Hr (4.9 Lit / Hr (1.29 gal / Hr)	
	Fuel System	Single Carburetor with Auto Choke			
	Oil Tank Capacity	1.6 Lit (0.42 gal)	0.5 Lit (0.13 gal)	for V20ES ONLY	
Suction	Starting	Electric and Manual			
	Suction System	4 Blade Rotary Vane Vaccum Pump (oilless-type)			
	Automatic Suction	No			
	Pump Type	Single Suction, Single Stage centrifugal pump			
Pump	Suction Thread and Dia.	JIS 3" (75mm)	JIS 2-1/2	" (65mm)	
	Suction Inread and Dia.	BSP 4" (100mm)	BSP 2-1/2	?" (65mm)	
	Discharge Thread and Dia.	JIS 2-1/2" (65mm)	JIS 2-1/2	JIS 2-1/2" (65mm)	
	Discharge Thread and Dia.	BSP 2-1/2" (65mm)	BSP 2-1/2	BSP 2-1/2" (65mm)	
	Discharge Number	Single			
	Discharge Valve	Flat	Ba ll	Flat	
Weight	Dry Weight	85kg (187.39 lbs)	43kg (94.7 lbs)	42kg (92.59 lbs)	
	Wet Weight	101kg (222.66 lbs)	47kg (103.6 lbs)	46kg (101.41 l bs)	
Dimentions(mm)	Overall Length x Width x Height	700 x 620 x 730	560 x 475 x 530	555 x 470 x 532	

NOTE JIS : Japanese Industrial Standard Thread BSP : British Standard Pipe Thread Wet Weight : Ready for Operation

VF53 AS

Performance at suction height 3m

1200 Lit/min at 0.6 MPa

950 Lit/min at 0.8 MPa

700 Lit /min at 1.0 MPa

Priming performance

2.0 sec. \angle at suction height 1 m

3.4 sec. / at suction height 3 m

6.2 sec. / at suction height 6 m

VF21 BS



Performance at suction height 3m

500 Lit/min at 0.6 MPa

250 Lit /min at 0.8 MPa

Priming performance

3.7 sec. / at suction height 1 m

7.0 sec. / at suction height 3 m

15.4 sec. / at suction height 6 m

- · 4 stroke Electronic Fuel Enjection
- ·The only battery-less fire pump in the industry
- · Auto-priming system
- ·90 degree swinging twin outlet



Comparison of sound with VC82AS	E 3	
	VC82ASE	VF53AS
Sound Level (dBA) W.O.T	98	95
Lower noise than VC82ASE Idle	77	66
	E	

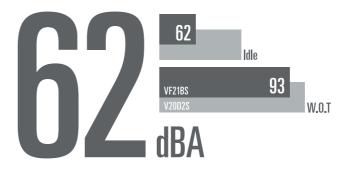
Clean V Silent

150 Airplane Takeoff 120 Thunderstorm 100 Motorcycle 90 Inside of Car 80 Vacuum Cleaner 70 City Traffic 60 Normal Conversation 50 Refrigerator

Stroke

- ·TOHATSU's smallest 4-stroke fire pump
- Easy to handle with its simplicity, portability & straight forward usage
- · Designed for easy & smooth operation

Comparison of sound with \	/201125		
ounparison of Sound With	120020	V20D2S	VF21BS
Sound Level (dBA)	W.0.T	100	93
Lower noise than V20D2S	Idle	67	62



The quietest in TOHATSU fire pumps (VF21BS)

Battery-less fire pump in the industry (VF53AS)

Specification		VF53AS	VF21BS	
	Туре	4 Cycle		
Engine	Number of Cylinder	3 Cylinder	2 Cylinder	
	Cooling System	Suction Water Cooled		
	Bore x Stroke	61 x 60 mm (2.4 x 2.36 inch)	55 x 44 mm (2.17 x 1.73 inch)	
	Piston displacement	526cc (32.1 cu in)	209cc (12.7 cu in)	
	Output	22 kW (30 PS)	7.3 kW (10 PS)	
	Fuel Type	Unleaded Gasoline (Min. 87 Octane)		
	Fuel Tank Capacity	10 Lit (2.64 gal)	4.3 Lit (1.14 gal)	
	Fuel Consumption	9.5 Lit / Hr (2.51 gal / Hr)	3.1 Lit / Hr (0.82 gal / Hr)	
	Fuel System	Electronic Fuel Injection	Single Carburetor	
	Oil Tank Capacity	2 Lit (0.53 gal)	1 Lit (0.26 gal)	
	Starting	Electric and Manual		
Suction	Suction System	4 Blade Rotary Vane Vaccum Pump (oilless-type)		
	Automatic Suction	Yes	No	
	Pump Type	Single Suction, Single Stage centrifugal pump		
	Suction Thread and Dia.	JIS 3" (75mm)	JIS 2-1/2" (65mm)	
Pump		BSP 4" (100mm)	BSP 2-1/2" (65mm)	
	Discharge Thread and Dia.	JIS 2-1/2" (65mm)	JIS 2-1/2" (65mm)	
		BSP 2-1/2" (65mm)	BSP 2-1/2" (65mm)	
	Discharge Number	Twin	Single	
	Discharge Valve	Ball or Flat	Ball	
Weight	Dry Weight	101kg (222.66 lbs)	52kg (114.64 lbs)	
	Wet Weight	111kg (244.71 lbs)	57kg (125.66 lbs)	
Dimentions(mm)	Overall Length x Width x Height	690 x 790 x 740	480 x 590 x 560	