





Unlocking firefighting and disaster protection.

FOR EVERYDAY HEROES

We aim to empower heroes around the world to build local resilience with simple, secure and environmentally-responsible disaster response solutions. To this end, Tohatsu commits to provide reliable and straightforward products that people feel comfortable using, backed with strong support service.







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VE1500/VE1000

Best balance of performance and weight







VE1000

Video Playback

"The performance of VE1500-W"

Please check

Performance at Suction Height 3m

1900 Lit/min at 0.6мРа (6 Ваг)

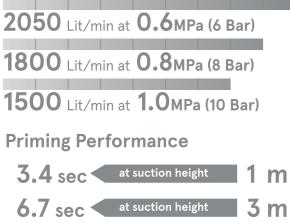
1650 Lit/min at 0.8мРа (8 Ваг)

1300 Lit/min at 1.0MPa (10 Bar)

NOTE Not for sale in US

VE1500

Performance at Suction Height 3m





- Complies with EN14466 for PFPN10-1500 & PFPN10-1000
- Outstanding quickness of priming speed with rotary vane vacuum pump.
- The lightest model in its class
- Smooth engine start with Electronic Fuel Injection system

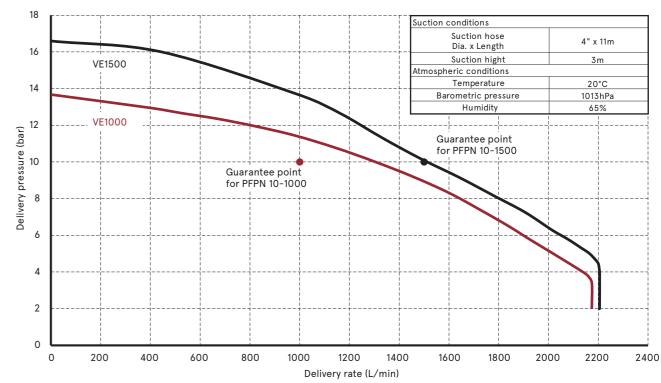


Specification

		VE1500	VE1000
Engine	Туре	2-stroke	2-stroke
	Number of Cylinder	2 Cylinder	2 Cylinder
	Cooling System	Suction Water Cooled	Suction Water Cooled
	Bore x Stroke	81 x 78 mm (3.19 x 3.07 inch)	81 x 78 mm (3.19 x 3.07 inch)
	Piston displacement	804 ml (49.0 cu.in.)	804 ml (49.0 cu.in.)
	Output	44 kW	44 kW
	Fuel Type	Unleaded Gasoline (RON 91 or Higher)	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	24 Lit (6.34 US gal)	24 Lit (6.34 US gal)
	Fuel Consumption	Approx. 22 L/hr (5.81 US gal/hr) (at 1.0 MPa 1500 L/min)	Approx. 16 L/hr (4.23 US gal/hr) (at 1.0 MPa 1000 L/min)
	Fuel System	Electronic Fuel Injection	Electronic Fuel Injection
	Oil Tank Capacity	1.6 Lit (1.7 US qt.)	1.6 Lit (1.7 US qt.)
	Starting	Electric and Manual	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
	Priming System	Manual	Manual
	Pump Type	Single Suction, Single Stage, High Pressure Turbine Pump	Single Suction, Single Stage, High Pressure Turbine Pump
	Suction Thread and Dia.	BSP 4" (100 mm)	BSP 4" (100 mm)
Pump	Discharge Thread and Dia.	BSP 2-1/2" (65 mm)	BSP 2-1/2" (65 mm)
	Discharge Number	Twin	Twin
	Discharge Valve	Flat Valve	Flat Valve
Weight	Dry Weight (without Battery)	102 kg (225 lbs)	102 kg (225 lbs)
	Ready for Operation*	127 kg (280 lbs)	127 kg (280 lbs)
Dimension	Overall Length x Width x Height	723 x 748 x 827 mm (28.46 x 29.45 x 32.56 inch)	723 x 748 x 827 mm (28.46 x 29.45 x 32.56 inch)

NOTE BSP: British Standard Pipe Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.







VE1500A-Ti

Go easy, Go smooth with remote control system



NOTE Not for sale in US

Performance at Suction Height 3m

2050 Lit/min at 0.6мРа (6 Bar)
1800 Lit/min at 0.8мРа (8 Bar)
1500 Lit/min at 1.0мРа (10 Bar)

Priming Performance



• Complies with EN14466 for PFPN10-1500 & PFPN10-1000

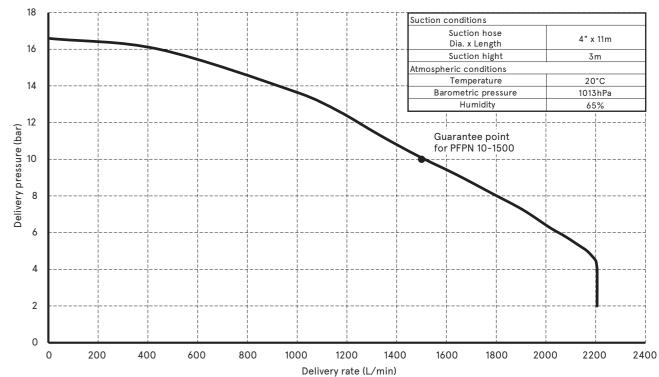
- Exclusive design for fire engine & fire boat.
- Drive- by- Wire system for operating with remote control panels.
- Easy installation, just connected by wire harness from the pump to panels.
- Light weight and compact design to make a space in fire engine and fire boat.



Specification

	Туре	
	Number of Cylinder	
	Cooling System	
	Bore x Stroke	
	Piston displacement	
Fa sin s	Output	
Engine	Fuel Type	
	Fuel Tank Capacity	
	Fuel Consumption	A
	Fuel System	
	Oil Tank Capacity	
	Starting	
Suction	Suction System	
Suction	Priming System	
	Pump Type	Sir
	Suction Thread and Dia.	
Pump	Discharge Thread and Dia.	
	Discharge Number	
	Discharge Valve	
Weight	Dry Weight (without Battery)	
weight	Ready for Operation*	
Dimension	Dimension Overall Length x Width x Height	
Remote Control Panel	Number of Panel (Maximum)	
Kemole Control Fallel	Length of Cable for Pane.	3m
NOTE BSP: British Standard F	Pipe Thread	

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.





VE1500A-Ti
2-stroke
2 Cylinder
Suction Water Cooled
81 x 78 mm (3.19 x 3.07 inch)
804 ml (49.0 cu.in.)
44 kW
Unleaded Gasoline (RON 91 or Higher)
24 Lit (6.34 US gal)
Approx. 22 L/hr (5.81 US gal/hr) (at 1.0 MPa 1500 L/min)
Electronic Fuel Injection
1.6 Lit (1.7 US qt.)
Electric and Manual
4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Auto Priming
Single Suction, Single Stage, High Pressure Turbine Pump
BSP 4" (100 mm)
BSP 2-1/2" (65 mm)
Twin
Flat Valve
105 kg (231 lbs)
127 kg (287 lbs)
723 x 748 x 827 mm (28.46 x 29.45 x 32.56 inch)
Triplet Panel Installation
3m for Main Wire Harness, 5m/15m for Assist Wire harness

VE1500W

Best balance of performance and weight





3.4 sec at suction height 1 m 6.7 sec at suction height 3 m 14.2 sec at suction height 6 m

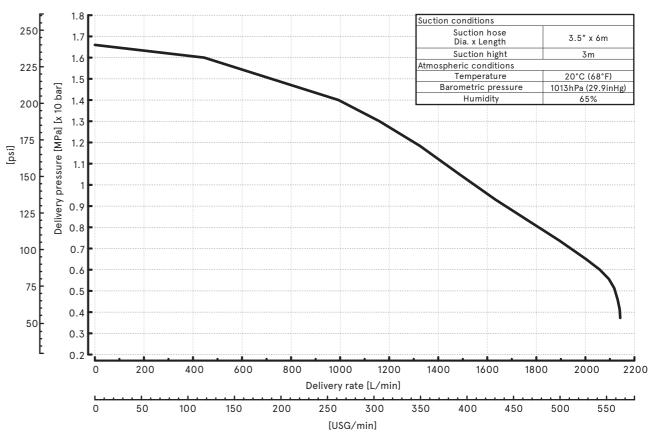


Specification

	Туре	
	Number of Cylinder	
	Cooling System	
	Bore x Stroke	
	Piston displacement	
Engine	Output	
Engine	Fuel Type	
	Fuel Tank Capacity	
	Fuel Consumption	
	Fuel System	
	Oil Tank Capacity	
	Starting	
Suction	Suction System	
Suction	Priming System	
	Pump Type	
	Suction Thread and Dia.	
Pump	Discharge Thread and Dia.	
	Discharge Number	
	Discharge Valve	
Weight	Dry Weight (without Battery)	
weight	Ready for Operation*	
Dimension	Overall Length x Width x Height	

NOTE JIS: Japanese Industrial Standard Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.



- High volume of pumping pressure (17Bar/1.7MPa)
- Outstanding quickness of priming speed with rotary vane vacuum pump.
- The lightest model in its class
- Smooth engine start with Electronic Fuel Injection system





VE1500W
2-stroke
2 Cylinder
Suction Water Cooled
81 x 78 mm (3.19 x 3.07 inch)
804 ml (49.0 cu.in.)
44 kW
Unleaded Gasoline (RON 91 or Higher)
24 Lit (6.34 US gal)
Approx. 22 L/hr (5.81 US gal/hr) (at 1.0 MPa 1500 L/min)
Electronic Fuel Injection
1.6 Lit (1.7 US qt.)
Electric and Manual
4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Manual
Single Suction, Single Stage, High Pressure Turbine Pump
JIS 3-1/2" (90 mm)
JIS 2-1/2" (65 mm)
Twin
Flat Valve
99 kg (218 lbs)
124 kg (273 lbs)
763 x 748 x 827 mm (30.04 x 29.45 x 32.56 inch)

VF53BS Light weight with Up-to-date technology



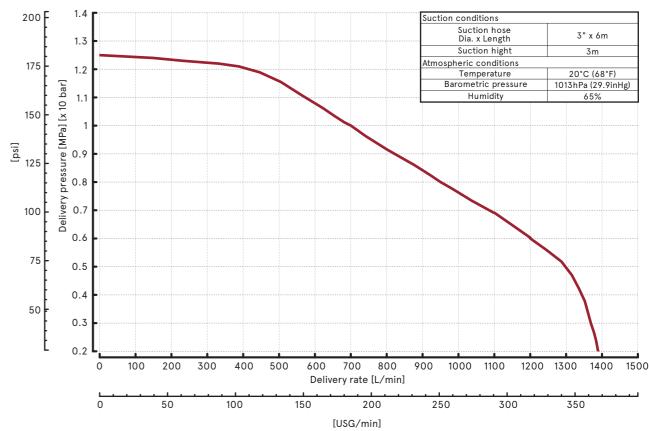
Specification

		VF53BS
	Туре	4-stroke
	Number of Cylinder	3 Cylinder
	Cooling System	Suction Water Cooled
	Bore x Stroke	61 x 57 mm (2.40 x 2.24 inch)
	Piston displacement	500 ml (30.5 cu.in.)
Engine	Output	22 kW
Linginie	Fuel Type	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	10 Lit (2.7 US gal)
	Fuel Consumption	Approx. 8.5 L/hr (2.25 US gal/hr) (at 0.55 MPa 1130 L/min)
	Fuel System	Electronic Fuel Injection
	Oil Tank Capacity	1.6 L (1.7 US qt.) when replacing oil filter : 1.7 L (1.8 US qt.)
	Starting	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Suction	Priming System	Auto Priming
	Pump Type	Single Suction, Single Stage, High Pressure Turbine Pump
	Suction Thread and Dia.	JIS 3" (75 mm)
Pump	Discharge Thread and Dia.	JIS 2-1/2" (65 mm)
	Discharge Number	Twin
	Discharge Valve	Ball Valve
Weight	Dry Weight (without Battery)	84 kg (185 lbs)
weight	Ready for Operation*	99 kg (218 lbs)
Dimension	Overall Length x Width x Height	670 x 780 x 740 mm (26.38 x 30.71 x 29.13 inch)

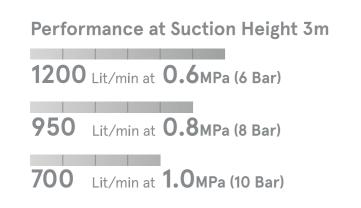
NOTE JIS: Japanese Industrial Standard Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.





C TOHATSU VF53BS



Priming Performance

2.0 sec at suction height	1 m
3.4 sec at suction height	3 m
6.2 sec at suction height	6 m

The VF53BS not only achieves a weight reduction of 12 kg (13.5%) from the former model without sacrificing engine performance by optimizing the crankshaft and intake manifold, but also adopts up-to-date technologies, including a fully electrically controlled engine speed governor function.





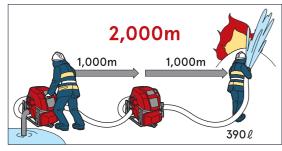
VF63BS-R

Unique, like no other. The advanced automatic relay pump.





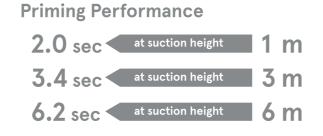
Video Playback Please check "The performance of automatic relay pump"



Example of use in automatic relay operation (No operator is required at the relay pump). The relay pumping line with VF63BS-R can be extended endlessly.

Performance at Suction Height 3m





When the water hits the VF63BS-R, engine and pump function are automatically started which means that no one need to be on and operate the pump pressure. When the water from master pump stops, the VF63BS-R is also stopped automatically. It is fully-automatically controlled and providing new solution for forest / wild land fire and long distance water transfer action.



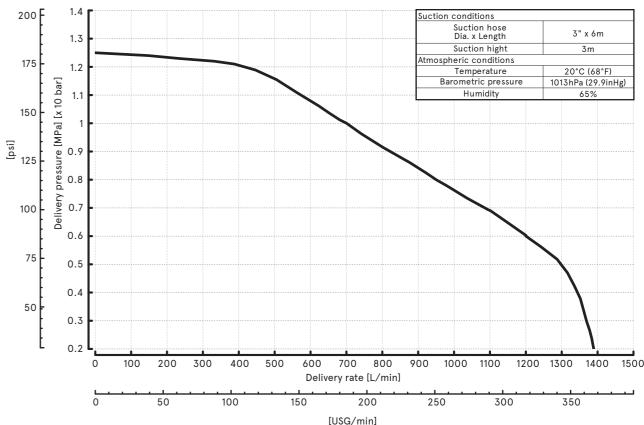


Specification

		VF63BS-R
	Туре	4-stroke
	Number of Cylinder	3 Cylinder
	Cooling System	Suction Water Cooled
	Bore x Stroke	61 x 57 mm (2.40 x 2.24 inch)
	Piston displacement	500 ml (30.5 cu.in.)
Engina	Output	22 kW
Engine	Fuel Type	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	10 Lit (2.7 US gal)
	Fuel Consumption	Approx. 8.5 L/hr (2.25 US gal/hr) (at 0.55 MPa 1130 L/min)
	Fuel System	Electronic Fuel Injection
	Oil Tank Capacity	1.6 L (1.7 US qt.) when replacing oil filter : 1.7 L (1.8 US qt.)
	Starting	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Suction	Priming System	Auto Priming
	Pump Type	Single Suction, Single Stage, High Pressure Turbine Pump
	Suction Thread and Dia.	JIS 3" (75 mm)
Pump	Discharge Thread and Dia.	JIS 2-1/2" (65 mm)
	Discharge Number	Twin
	Discharge Valve	Ball Valve
Waight	Dry Weight (without Battery)	84.5 kg (186 lbs)
Weight	Ready for Operation*	99.5 kg (219 lbs)
Dimension	Overall Length x Width x Height	670 x 780 x 740 mm (26.38 x 30.71 x 29.13 inch)

NOTE JIS: Japanese Industrial Standard Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details





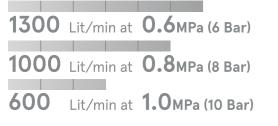
VC52AS VC72AS

Simplify and maximize the ability for quick response





VC52AS Performance at suction height 3m



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

- Unmatched pumping performance
- 180 degree swinging single outlet
- Engine overheat protection sensor
- Robust and easy maintenance

VC72AS

Performance at suction height 3m

1500	Lit/min at	О.6 мРа (6 Ваг)
1200	Lit/min at	0.8 MPa (8 Bar)
950	Lit/min at	1.0 MPa (10 Bar)

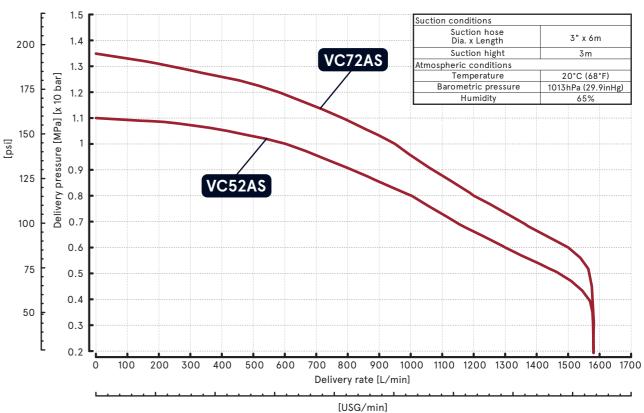


Specification

		VC52AS	VC72AS
Engine	Туре	2-stroke	2-stroke
	Number of Cylinder	2 Cylinder	2 Cylinder
	Cooling System	Suction Water Cooled	Suction Water Cooled
	Bore x Stroke	76 x 68 mm (2.99 x 2.68 inch)	76 x 68 mm (2.99 x 2.68 inch)
	Piston displacement	617 ml(37.6 cu.in.)	617 ml(37.6 cu.in.)
	Output	30 kW	30 kW
	Fuel Type	Unleaded Gasoline (RON 91 or Higher)	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	18 Lit (4.76 US gal)	18 Lit (4.76 US gal)
	Fuel Consumption	Approx. 9 L/hr (2.38 US gal/hr) (at 0.55 MPa 1220 L/min)	Approx. 12 L/hr (3.17 US gal/hr) (at 0.7 MPa 1290 L/min)
	Fuel System	Single Carburetor with Auto Choke	Single Carburetor with Auto Choke
	Oil Tank Capacity	1.6 Lit (1.7 US qt.)	1.6 Lit (1.7 US qt.)
	Starting	Electric and Manual	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Suction	Priming System	Manual	Manual
	Ритр Туре	Single Suction, Single Stage, High Pressure Turbine Pump	Single Suction, Single Stage, High Pressure Turbine Pum
	Suction Thread and Dia.	JIS 3" (75 mm)	JIS 3" (75 mm)
Pump	Discharge Thread and Dia.	JIS 2-1/2" (65 mm)	JIS 2-1/2" (65 mm)
	Discharge Number	Single	Single
	Discharge Valve	Ball Valve / Flat Valve	Flat Valve
Weight	Dry Weight (without Battery)	80 kg (176 lbs)	80 kg (176 lbs)
	Ready for Operation*	101 kg (223 lbs)	101 kg (223 lbs)
Dimension	Overall Length x Width x Height	700 x 620 x 730 mm (27.56 x 24.41 x 28.74 inch) 700 x 620 x 730 mm (27.56 x 24.41 x 28.74 inch)	

NOTE JIS: Japanese Industrial Standard Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.







VE500AS

Small and compact, with outstanding features



Performance at Suction Height 3m



250 Lit/min at 0.8MPa (8 Bar)

Priming Performance



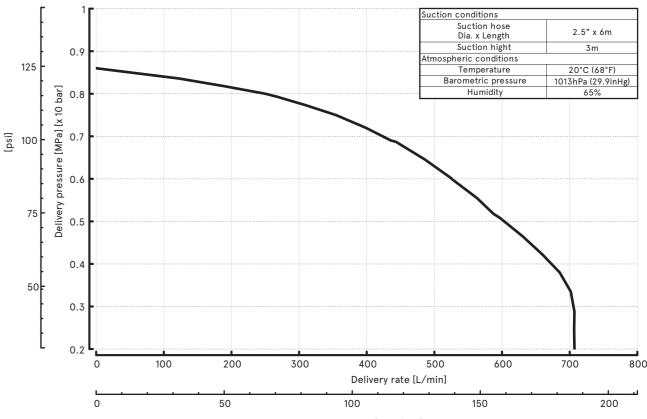
- Complies with EN14466 for PFPN6-500 (BSP Thread Type only)
- Advanced engine technology for any tough environment
- Special surface treatment to deliver a robust and durable equipment
- Small and compact design philosophy

96k Competit **Operative** weight The lightest model in this class

Specification

		VE500AS (JIS Thread Type)	VE500AS (BSP Thread Type)
Engine	Туре	2-stroke	2-stroke
	Number of Cylinder	1 Cylinder	1 Cylinder
	Cooling System	Air Cooled	Air Cooled
	Bore x Stroke	66 x 58 mm (2.60 x 2.28 inch)	66 x 58 mm (2.60 x 2.28 inch)
	Piston displacement	198 ml (12.1 cu.in.)	198 ml (12.1 cu.in.)
	Output	8.6 kW	8.6 kW
	Fuel Type	Unleaded Gasoline (RON 91 or Higher)	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	5.95 Lit (1.57 US gal)	5.95 Lit (1.57 US gal)
	Fuel Consumption	Approx. 5.4 L/hr (1.43 US gal/hr) (at 0.6 MPa 500 L/min)	Approx. 5.4 L/hr (1.43 US gal/hr) (at 0.6 MPa 500 L/min)
	Fuel System	Electronic Fuel Injection	Electronic Fuel Injection
	Oil Tank Capacity	0.5 L (0.5 US qt.)	0.5 L (0.5 US qt.)
	Starting	Electric and Manual	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
	Priming System	Manual	Manual
	Pump Type	Single Suction, Single Stage, High Pressure Turbine Pump	Single Suction, Single Stage, High Pressure Turbine Pump
	Suction Thread and Dia.	JIS 2-1/2" (65 mm)	BSP 2-1/2" (65 mm)
Pump	Discharge Thread and Dia.	JIS 2-1/2" (65 mm)	BSP 2-1/2" (65 mm)
	Discharge Number	Single	Single
	Discharge Valve	Ball Valve	Ball Valve
	Dry Weight (without Battery)	46 kg (101 lbs)	47 kg (104 lbs)
Weight	Ready for Operation*	55 kg (121 lbs)	56 kg (123 lbs)
Dimension	Overall Length x Width x Height	575 x 475 x 537 mm (22.64 x 18.70 x 21.14 inch) 540 x 505 x 537 mm (21.26 x 19.88 x 21.14 inch	

NOTE JIS: Japanese Industrial Standard Thread BSP: British Standard Pipe Thread *Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.







VF21BS

Providing simplicity & quickness with consolidated operation panel.



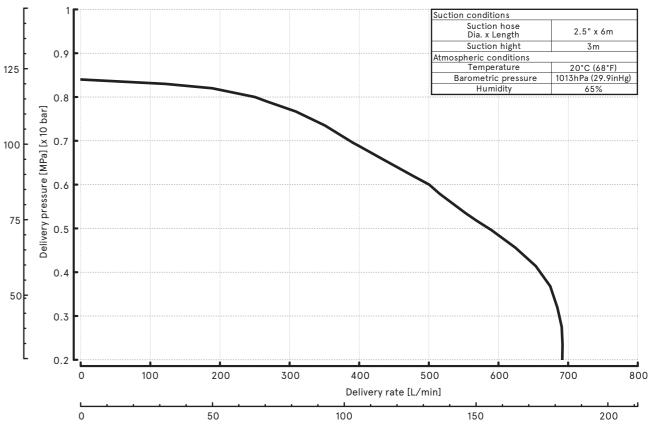
Specification

		VF21BS
	Туре	4-stroke
	Number of Cylinder	2 Cylinder
	Cooling System	Suction Water Cooled
	Bore x Stroke	55 x 44 mm (2.17 x 1.73 inch)
	Piston displacement	209 ml (12.7 cu.in.)
Engine	Output	7.3 kW
Lingine	Fuel Type	Unleaded Gasoline (RON 91 or Higher)
	Fuel Tank Capacity	4 Lit (1.1 US gal)
	Fuel Consumption	Approx. 3.1 L/hr (0.82 US gal/hr) (at 0.5 MPa 500 L/min)
	Fuel System	Single Carburetor with Manual Choke and Fast Idle
	Oil Tank Capacity	1.0 L (1.1 US qt.) when replacing oil filter : 1.1 L (1.2 US qt.)
	Starting	Electric and Manual
Suction	Suction System	4 Blade Rotary-vane Vacuum Pump (Oilless-type)
Suction	Priming System	Manual Priming
	Pump Type	Single Suction, Single Stage, High Pressure Turbine Pump
	Suction Thread and Dia.	JIS 2-1/2" (65 mm)
Pump	Discharge Thread and Dia.	JIS 2-1/2" (65 mm)
	Discharge Number	Single
	Discharge Valve	Ball Valve
Woight	Dry Weight (without Battery)	49 kg (108 lbs)
Weight	Ready for Operation*	57 kg (126 lbs)
Dimension	Overall Length x Width x Height	480 x 596 x 560 mm (18.90 x 23.47 x 22.05 inch)

NOTE JIS: Japanese Industrial Standard Thread

*Depends on the weight of the battery installed and the volume of fueling at local. Please contact our distributors for more details.

Performance Curve







Performance at Suction Height 3m



250 Lit/min at **0.8MPa (8 Bar)**



- The world's lightest 4 stroke portable "fire-fighting" pump in its class.
- Equipped with LED lighting to illuminate the operation panel to enable accurate pump operation during night time activity.
- VF21BS is possible to save the space because of the most compact and you can put more equipment in the free space.





Accessories

Tohatsu Floating strainer

All-purpose and versatile suction device for emergency and tough condition.

It is able to prime water even if the depth is only a few centimeters. Can be used in shallow water, such as rivers. Combined with a pump, it can be used for drainage.



Tohatsu Water Relief Valve

Hassle free pressure control work in relay pumping operation.

Release the excessive pressure applied to the suction port during relay water supply to protect the pump and hoses.





Maintenance bucket

Easy and Convenient flushing device to protect from corrosion.

No suction hose or water source are required for checking. Washing after using seawater or muddy water is possible. Operation can be confirmed with a small amount of water.





Tohatsu Floating strainer (S)

Specification	
Suction volume	Outlet dia. 65mm (2.5 Inch): 700 l/min Outlet dia. 75mm (3 Inch): 1,000 l/min
Adapter	JIS
Outlet diameter	65mm (2.5 Inch) 75mm (3 Inch)
Measurement	333x473x170mm
Weight	Outlet dia. 65mm (2.5 Inch): 4.8kg Outlet dia. 75mm (3 Inch): 4.7kg
Suction minimum depth	Depth 5cm



Specification		
Suction volume	1,500ℓ/min	
Adapter	JIS	
Outlet diameter	75mm(3 inch)	
Measurement	670×460×170mm	
Weight	8.3kg	
Suction minimum depth	Depth 2cm	



SpecificationAdapterJIS threadOutlet diameter75(3 inch)×65mm(2-1/2 inch)
65(2-1/2 inch)×65mm(2-1/2 inch)Measurement190×225(75×65mm)
160×200(65×65mm)Weight1.65kg(75×65mm)
1.6kg(65×65mm)Relief water flor700ℓ per minute at 0.6MPaMin. operational pressure0.2MPa



Specification		
Adapter	JIS thread	
Outlet diameter	75mm(3inch) 65mm(2-1/2inch)	
Measurement	191×296mm	
Weight	1.3kg	
Bucket volume	7ℓ	

Accessories

Flow Indicator

The operator is able to check easily to see if you can have proper water flow in the hose or not.

No power supply is required as it operates with water resistance. You can easily see the appropriate flow rate.





Specification		
Adapter	Machino Hose Coupling	
Outlet diameter	Female 65mm(2-1/2 inch)×Male 65mm(2-1/2 inch)	
Measurement	198×116mm	
Weight	1.7kg	
Display of water flow	Analogue display	
Indicator of water flow	400-600ℓ	



Simpliq™ Technology





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