

## Shibaura Fire Pump Co., Ltd.

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## PORTABLE FIRE-FIGHTING PUMP GENERAL CATALOG

**Important Information**

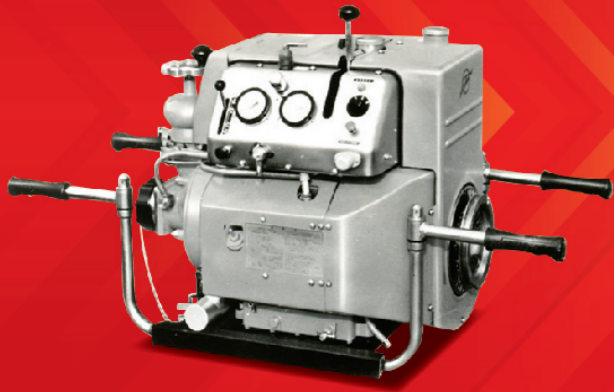
\*Improper use of any product may cause serious or fatal injury. Read carefully the operating and safety instructions in your owner's manual before use.  
\*We reserve the right to discontinue models or change specifications without notice.

Shibaura Fire Pump Co., Ltd.





# Shibaura Quality with Experience and Reliability



Ever since its launch of first Fire Pump in 1950, Shibaura has been providing reliable and high-performance products that meet our customers' needs.

As a pioneer of the portable fire fighting pumps, the company has become one of the most respected names in the rescue, fire prevention and disaster relief sectors.

The complete line of Portable fire fighting pumps and other products are sold through our sales network.

## History

- 1942 Matsumoto Factory of Ishikawajima Shibaura Turbine Co., Ltd., established as a joint venture between Ishikawajima Shipyard (now IHI Corporation) and Shibaura Engineering Works Co., Ltd. (now Toshiba Corporation).
- 1950 Ishikawajima-Shibaura Machinery Co., Ltd. established with change of business into Internal combustion engines, Garden tractors, and the first Fire-fighting pump launched.
- 1971 Air-cooled two-stroke engine fire-fighting pump TF series launched.
- 1987 Stationary pump, SDG series, launched.
- 1992 Water-cooled two-stroke engine fire-fighting pump SF series launched.
- 1996 Water purification system launched.
- 2007 Ishikawajima-Shibaura Machinery Co., Ltd. Changes its name to IHI Shibaura Machinery Corporation.
- 2012 Transfer agreement of fire-fighting pump business of "Rabbit" with Makita Numazu Corporation concluded.  
Water-cooled four-stroke engine fire-fighting pump launched.
- 2016 Corporate brand unified into "SHIBAURA"
- 2017 Shibaura Fire Pump Co., Ltd. established separating from IHI Shibaura Machinery Corporation.



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- 04 Options

05 **Air Cooled FT500-A**

Discharge Performance (1m suction head):  
 0.5MPa : 1,450L/min  
 1.0MPa : 830L/min

Priming Performance (1m suction head): 3.5 sec

06 **Air Cooled FT300-AB / FT400-AB**

Discharge Performance (1m suction head):  
 0.5MPa : 568L/min / 568L/min  
 0.8MPa : 318L/min / 330L/min

Priming Performance (1m suction head): 3.5 sec

07 **Air Cooled TF516MH-AB**

Discharge Performance (1m suction head):  
 0.5MPa : 560L/min  
 0.8MPa : 280L/min

Priming Performance (1m suction head): 3.6 sec

08 **Water Cooled P572S-A**

Discharge Performance (1m suction head):  
 0.5MPa : 1,650L/min  
 1.0MPa : 1,100L/min

Priming Performance (1m suction head): 2.1 sec

09 **Water Cooled FK500-A**

Discharge Performance (1m suction head):  
 0.5MPa : 1,595L/min  
 1.0MPa : 1,020L/min

Priming Performance (1m suction head): 2.2 sec

10 **Water Cooled FF500AR-A**

Discharge Performance (1m suction head):  
 0.5MPa : 1,550L/min  
 1.0MPa : 980L/min

Priming Performance (1m suction head): 2.2 sec

11 **Specifications**

	FT500-A	FT300-AB / FT400-AB	TF516MH-AB
P572S-A			
FK500-A			
FF500AR-A			

13 **SDG Series**

SMALL	SDG650A				
MEDIUM	SDG1000A	SDG1500A	SDG2000A	SDG2500A	SDG3000A
LARGE	SDG4000B	SDG5000B	SDG6000B	SDG7000B	

14 **SMG Series**

	SMG13AB	SMG13EB	SMG13HB

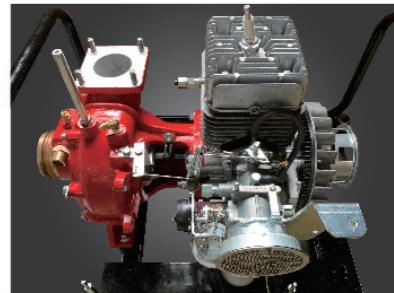




# Shibauro Technology and Engineering

## Shibauro Original 2 Stroke Gasoline Engine

Small, light weight and high-power engine that is specifically developed for fire-fighting pump. This high-speed 2 stroke gasoline engine can take full advantage of pump performance and endure over a long period of operation.



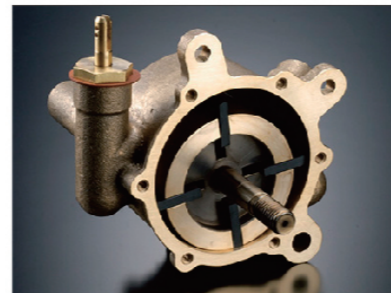
## Shibauro Original Centrifugal Pump

Shibauro portable fire pump design consists of original engine and centrifugal single stage pump in one-piece. It makes the pump compact and enhances the efficiency of its performance. Realizing the large amount and long distant discharge that stands out in industry.



## Shibauro Original Vacuum Pump

Priming water is not necessary to be filled into the suction line. Shibauro's specifically designed, light-weight, and compact vacuum pump removes the air inside the suction line instantly and achieves the short time discharge performance.



## Alert Monitoring System

Alert monitoring system indicates a trouble with warning lamp when malfunction (low oil and so forth) should happen. Engine automatically shuts down to protect itself in emergency situations.



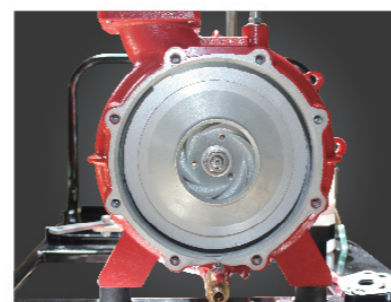
## Quick Discharge Valve

Lever-type discharge valve enables quick and accurate discharge operation. The discharge valve is also swivel 180 degrees to increase the capability of extinguishing fire.



## Impeller

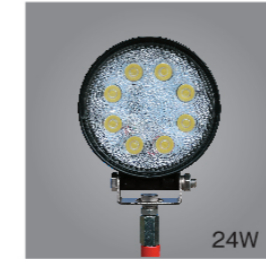
Shibauro's originally designed impeller plays important role to deliver a large amount of water in long distance. Special surface treatment is processed to prevent corrosion.



## Options

### LED Lamp and Lamp Stand

Easy direct plug-in connection to fire fighting pump provides safe and secure operation in the night-time.



LED Lamp 24W  
340 x 114 x 45 (mm)



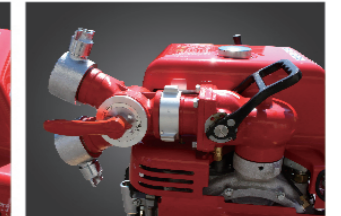
LED Lamp 48W  
341 x 107 x 62 (mm)  
Attachable to FF500AR-A only



Lamp Stand  
826 x 106 x 106 (mm)

### Wye Ball Valve

The 1 into 2 wye ball valve is available for all models.  
255 x 322 x 170 (mm)



### Dual-Inlet Portable Ground Monitor

Flow rate up to 1,900LPM with dual swivel inlet. Elevation adjustable between 20° and 60° unmanned.  
Inlet & outlet diameters: 65mm  
Dry weight: 16kg  
Couplers: Various available, e.g. BSP, GOST, and Machino.



### Direct Valve SRV2000-75 / SRV2000-65

In case fire-fighting vehicle cannot reach a particular place, Shibauro Direct Valve gives you a great advantage in fire fighting relay operation without operators.



#### Features

- Simplify relay water supply operation.
- Protect operators, hoses and pumps from excessive pressure rise.
- It is small and lightweight, convenient to carry, and can be set without tools.

#### Video

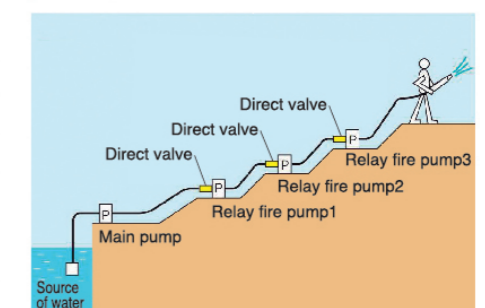


Demonstration Video. See for yourself.

#### Specifications

Suction Port	SRV2000-75 75mm	SRV2000-65 65mm
Parts Number	295270104	295270152
Discharge Port	65mm	
Discharge Pressure	2MPa	
Discharge Volume 75B (MAX/STD)	2000 Liter/min	1700 Liter/min
Discharge Volume 65B (MAX/STD)	2000 Liter/min	1500 Liter/min
Dimension	L235xW194xH180mm	
Weight	4.0kg	

#### Example





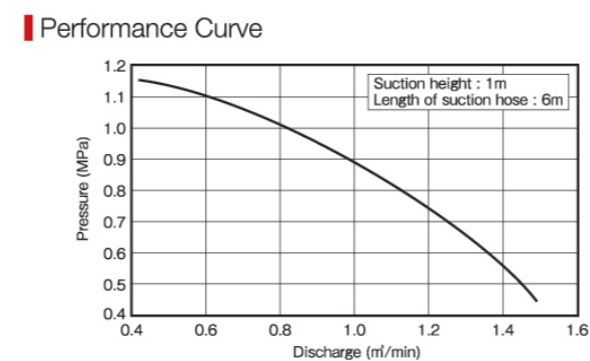
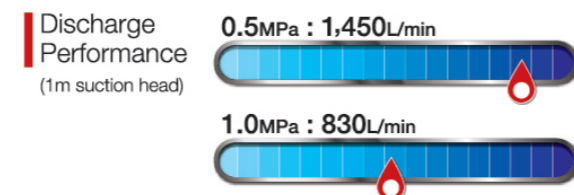
# Strong power with the Shibaura's original air-cooled engine

Biggest Shibaura's air-cooled engine provides strong power without having any influence of water quality.

# FT series

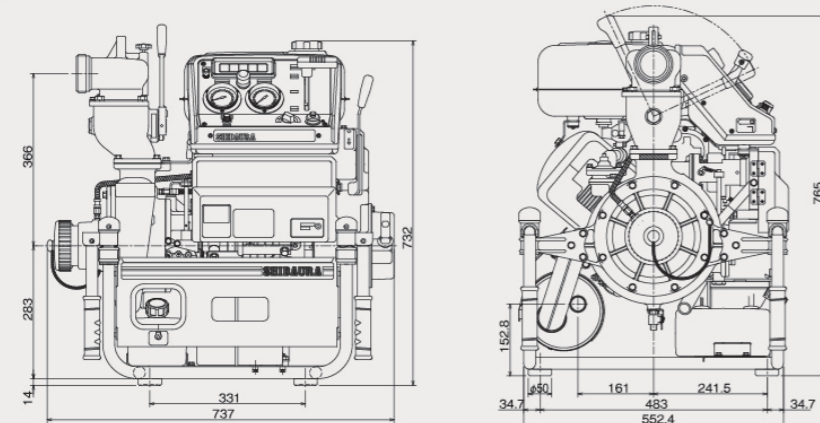


## FT500-A



- 2-stroke gasoline engine
- Air cooled
- Carburetor system

### Dimensions



### Video



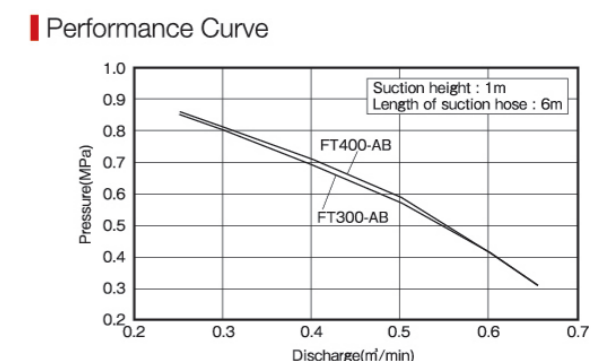
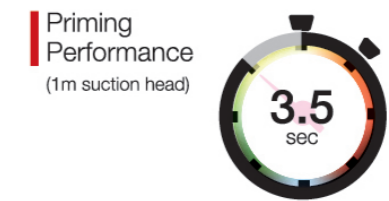
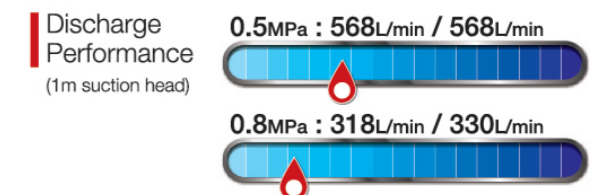
# Compact and light weight pump with the highest performance in the class

Newly installed 5.3L fuel tank provides longer operation.

# FT series

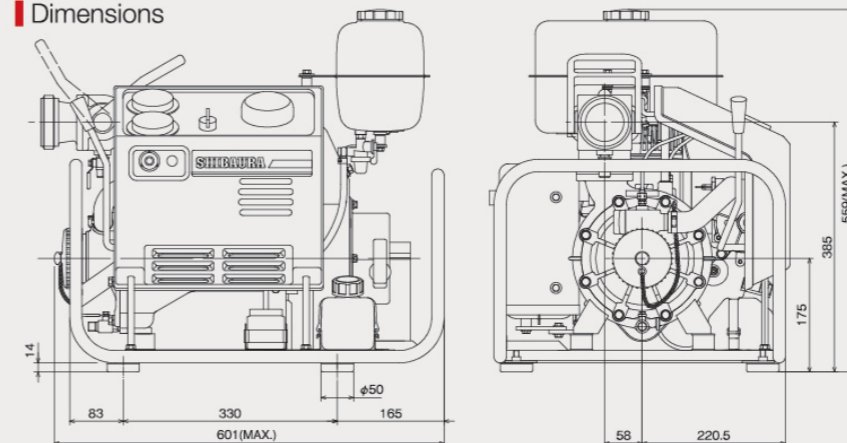


## FT300-AB FT400-AB



- 2-stroke gasoline engine
- Air cooled
- Carburetor system

### Dimensions



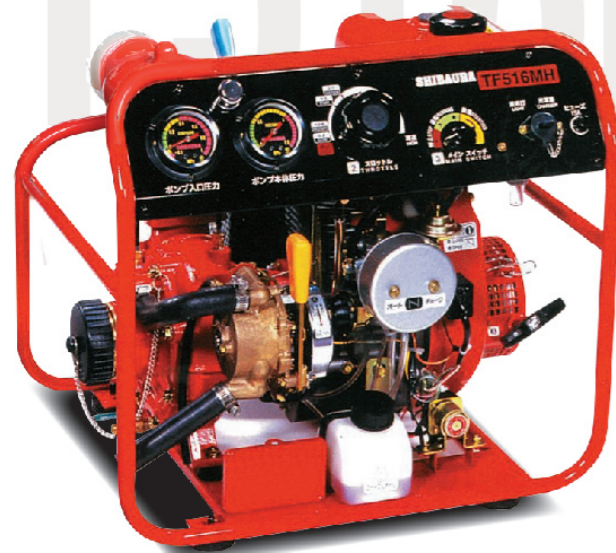
### Video



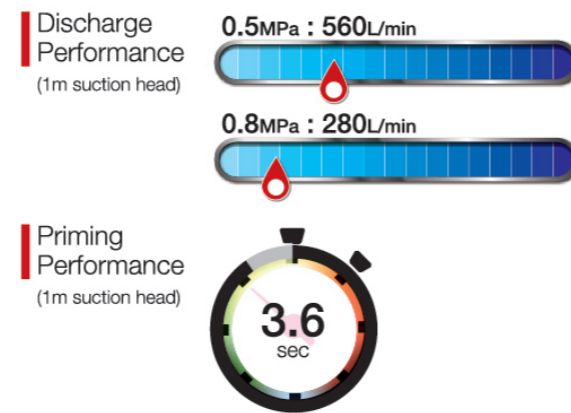


## Smallest pump and superior in mobility

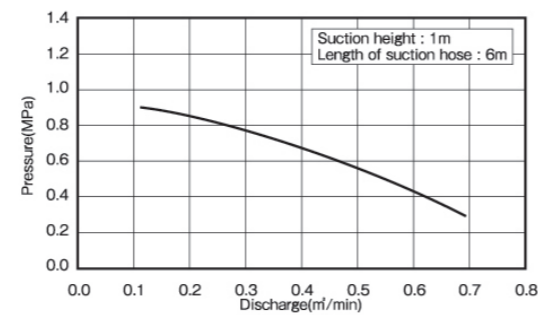
Compact and light weight pump with Shibaura's original air-cooled engine. Simply designed and easily mountable on small vehicles.



### TF516MH-AB



#### Performance Curve



2-stroke gasoline engine

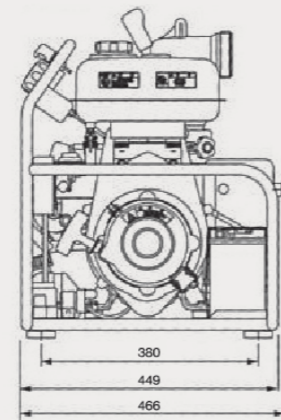
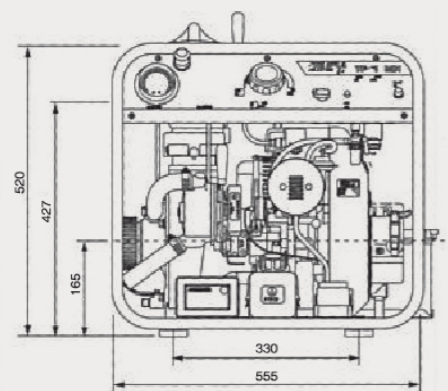


Air cooled



Carburetor system

#### Dimensions

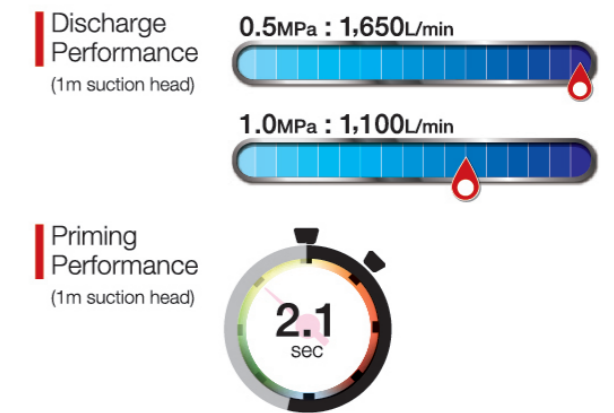


## Highest discharge performance of our the lineup

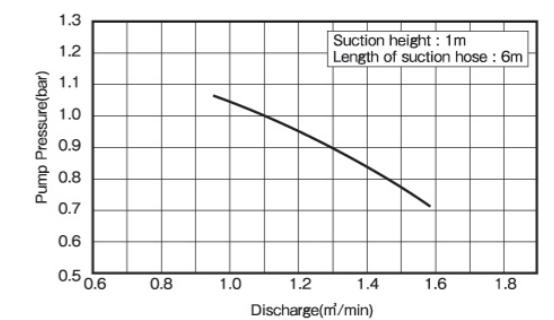
A large oil-less vacuum pump and high power engine enable faster water suction and larger amount of discharge in the same class.



### P572S-A



#### Performance Curve



2-stroke gasoline engine

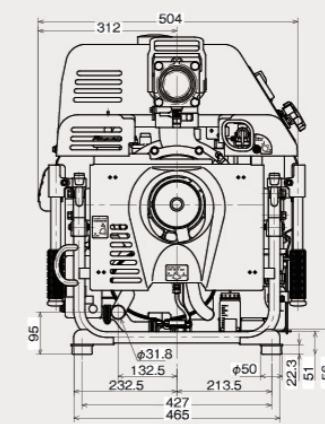
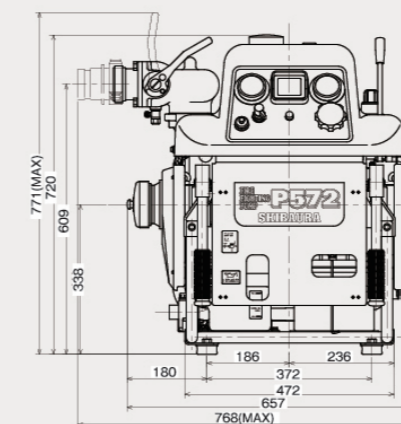


Water cooled



Carburetor system

#### Dimensions



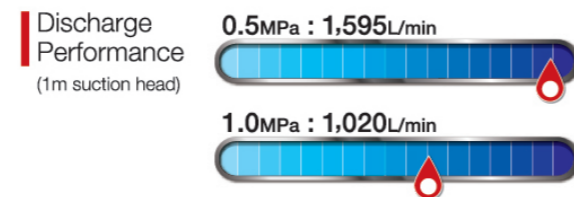


# Well-balanced and durable pump with Shibaura's original engine-cooling system.

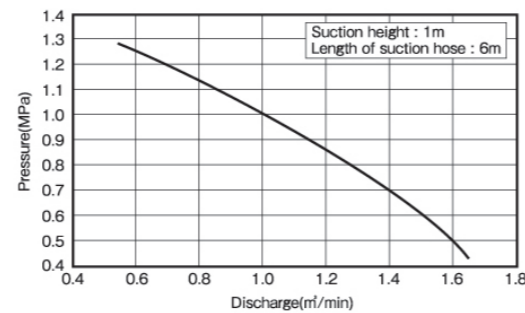
Fully Water Cooled Radiator gives longer life in the activities at dirty water area without overheating.



## FK500-A



### Performance Curve



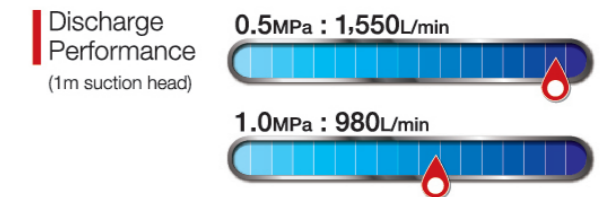
- 2-stroke gasoline engine
- Water cooled
- Carburetor system

# Auto Relay for long-distance water delivery

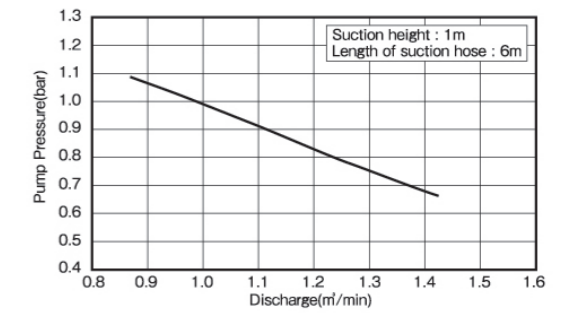
Auto Relay Pump extends delivering water from 1st pump to other pumps without operators. Electric fuel injection enables easy starting and appropriate fuel consumption.



## FF500AR-A

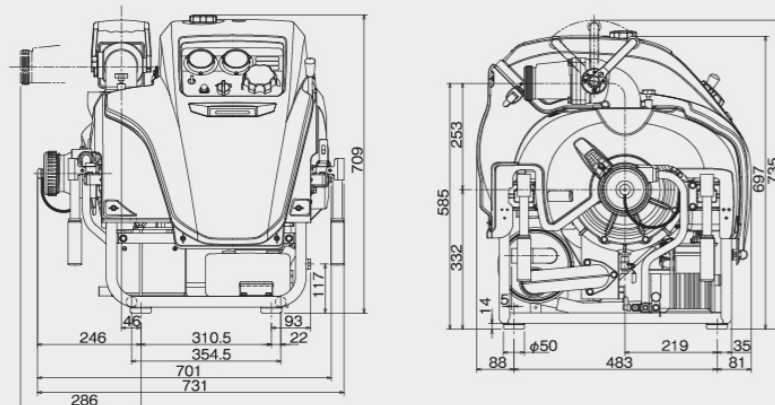


### Performance Curve

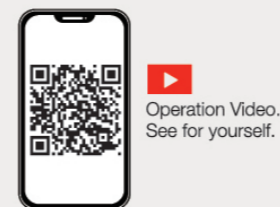


- 2-stroke gasoline engine
- Water cooled
- Fuel injection system

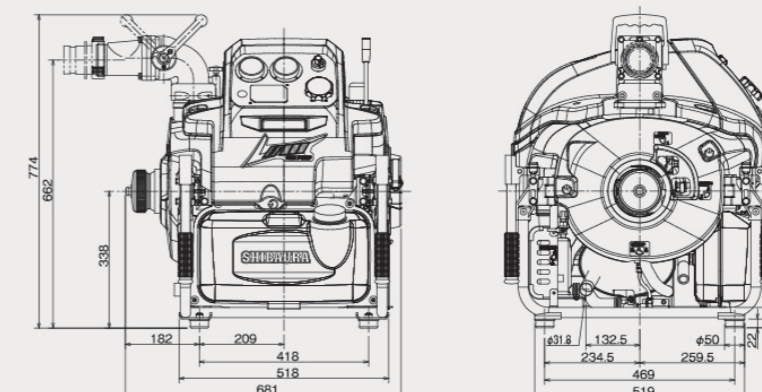
### Dimensions



### Video






### Dimensions





## AIR COOLED TYPE

MODEL			
Dimensions LxWxH (mm)	737x572x765	601x463x559	555x466x520
Dry weight	90kg	45kg	41kg
<b>PUMP</b>			
Model	SHIBAURA B612B		SHIBAURA C505
Type	High pressure, single stage centrifugal pump		
Discharge performance	0.5MPa, 1m suction head	1450L/min	568L/min / 568L/min
	0.5MPa, 3m suction head	1435L/min	550L/min / 556L/min
	1.0MPa, 1m suction head	830L/min	318L/min (0.8MPa) / 330L/min (0.8MPa)
	1.0MPa, 3m suction head	790L/min	300L/min (0.8MPa) / 309L/min (0.8MPa)
Priming performance @ 1m suction head	3.5 Seconds		3.6 Seconds
Discharge Diameter JIS	65mm		
Suction Diameter JIS	75mm	65mm	
<b>ENGINE</b>			
Model	SHIBAURA E440C	SHIBAURA E200	SHIBAURA E180A
Type	Air cooled 2-stroke gasoline engine		
Cooling system	Air cooled type		
No of cylinder	2 Cylinder	1 Cylinder	
Fuel system	Auto choke carburetor		
Displacement	436cc	200cc	182cc
Bore x Stroke	68mmx60mm	68mmx55mm	65mmx55mm
Rated output	22.8kW / 31PS	8.8kW / 12PS	8.1kW / 11PS
Starting	Electric starter & manual starter		
Fuel tank capacity	14.5L	5.3L	4.2L
Fuel consumption	14L/h	5.4L/h	4.6L/h
Fuel type	Regular unleaded gasoline		
<b>VACUUM PUMP</b>			
Type	OIL LESS VACUUM PUMP		
Blade type	4-Vane eccentric rotary type		
Blade type	High strength carbon		
Maximum suction height	9m		
<b>FEATURES</b>			
Shibaura Original 2 stroke Gasoline Engine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shibaura Original Centrifugal Pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shibaura Original Vacuum Pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alert Monitoring System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quick Discharge Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

※The specification above are tentative and subject to change without notice.

## WATER COOLED TYPE

MODEL			
Dimensions LxWxH (mm)	657x584x720	701x652x709	681x639x774
Dry weight	94kg	85kg	98kg
<b>PUMP</b>			
Model	SHIBAURA P572	SHIBAURA B716	SHIBAURA P556
Type	Single stage, high pressure turbine pump		
Discharge performance	0.5MPa, 1m suction head	1650L/min	1595L/min
	0.5MPa, 3m suction head	1530L/min (0.7MPa)	1580L/min
	1.0MPa, 1m suction head	1100L/min	1020L/min
	1.0MPa, 3m suction head	1070L/min	975L/min
Priming performance @ 1m suction head	2.1 Seconds	2.2 Seconds	2.2 Seconds
Discharge Diameter JIS	65mm		
Suction Diameter JIS	75mm		
<b>ENGINE</b>			
Model	SHIBAURA EP572	SHIBAURA L618Z	SHIBAURA EP556
Type	Water cooled 2-stroke gasoline engine		
Cooling system	Water cooled type		
No of cylinder	2 Cylinder		
Fuel system	Auto choke carburetor	Electronic control fuel injection	
Displacement	723cc	618cc	635cc
Bore	80mmx72mm	75mmx70mm	76mmx70mm
Rated output	34.3kW / 46PS	33.1kW / 45PS	32.0kW / 43PS
Starting	Electric starter & manual starter		
Fuel tank capacity	12.0L	14.5L	11.0L
Fuel consumption	17.5L/h	14.0L/h	16L/h
Fuel type	Regular unleaded gasoline		
<b>VACUUM PUMP</b>			
Type	OIL LESS VACUUM PUMP		
Blade type	4-Vane eccentric rotary type		
Blade type	High strength carbon		
Maximum suction height	9m		
<b>FEATURES</b>			
Shibaura Original 2 stroke Gasoline Engine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shibaura Original Centrifugal Pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shibaura Original Vacuum Pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alert Monitoring System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quick Discharge Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

※The specification above are tentative and subject to change without notice.



**SMALL**

SDG650A



**MEDIUM**

SDG1000A SDG2500A  
SDG1500A SDG3000A  
SDG2000A



**LARGE**

SDG4000B SDG6000B  
SDG5000B SDG7000B



Total solutions for the industrial fire caused due to an abnormal high temperature. Shibaura provides fully automatic water discharge system powered by diesel engine to cool down storage tanks to prevent fires and explosions at LPG/LNG storage plants and other industrial facilities.

**Specifications**

Model	SDG 650A	SDG 1000A	SDG 1500A	SDG 2000A	SDG 2500A	SDG 3000A	SDG 4000B	SDG 5000B	SDG 6000B	SDG 7000B
Dimensions (LWH) (mm)	820 x 600 x 1250	1275 x 620 x 1050	1365 x 620 x 1050	1426 x 600 x 1140	1570 x 600 x 1140	1900 x 750 x 1275	2050 x 750 x 1275			
Dry weight (kg)	240	410	425	585	610	1180	1300			
Water discharge (L/min)	650	1000	1500	2000	2500	3000	4000	5000	6000	7000
Total pump head (m)	40									
Displacement (cc)	507	1131		2216		4400				
Maximum output (kW)	10.2	19.1		34.6		79.5				

**Features**

- ALL-IN-ONE PACKAGE  
Engine, fuel tank, pump, vacuum pump and controller are included in SDG system for fast and easy installation.
- INTEGRATED COMPUTER SYSTEM
- SAFETY AUTO SHUTDOWN SYSTEM
- HIGH POWER DIESEL ENGINE

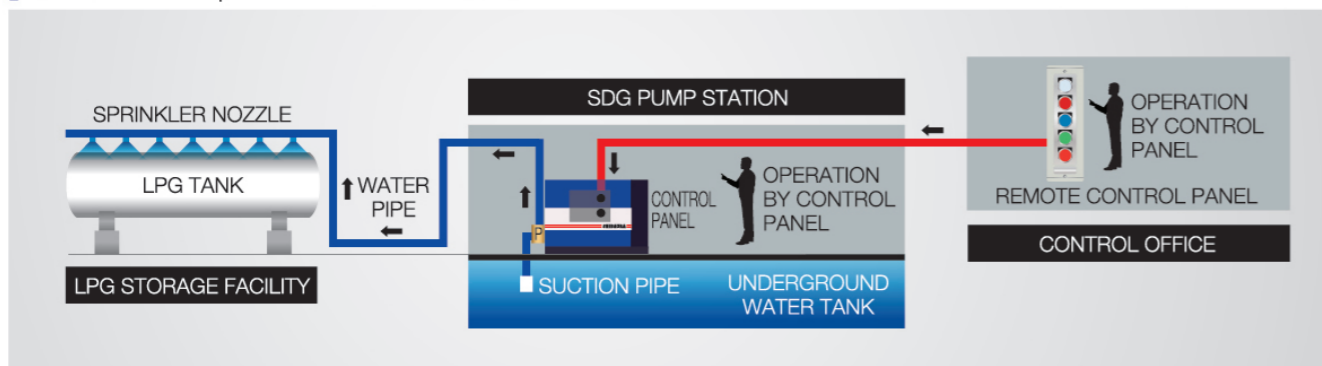


Fire hydrant system in Japanese Inn. Matsumoto-kan



Water cooling system for LPG tanks

**Installation Example - LPG STORAGE FACILITY**



**SMG13AB**  
2,000 L/h

Electric motor and Manual



**SMG13EB**  
2,000 L/h

Engine and Manual



**SMG13HB**  
1,000 L/h

Manual



In times of natural disaster;

- Drinking Water for drinking and cooking water is required 3 liters per a day per a person
- Daily Life Water for washing, cleaning and showering is required 30 liters per a day per a person

Shibaura's water purification system can provide clean and safe water taken from various water sources during the emergency situation.



**Specifications**

Model	SMG13AB	SMG13EB	SMG13HB
Maximum flow rate (L/h)	2000		1000
Dimensions (LWH) (mm)	793 x 537 x 650	793 x 537 x 650	544 x 472 x 1,070
Dry weight (kg)	48	51	25
Power source	AC100V	4 stroke gasoline engine	Manual

**Features**

**DUAL FILTER**

Hollow fiber membrane and charcoal filter can eliminate the color and small particles in the water, such as bacteria without use of chlorine-based sterilizer. Active charcoal filter eliminates color, odor and dissolved chlorine.

**EASY CARE BY BACK WASHING SYSTEM**

Easy filter cleaning by switching lever during the operation.

**CORROSION RESISTANCE**

Stainless steel frame and housing.



image (Source of water)

**More Information**



**Suitable water sources and usage**

Source	Drinking Water *Disinfectant, such as sodium hypochlorite, is required.	Daily Life Water
1. Swimming pool	Yes	Yes
2. Underground water tank	Yes	Yes
3. Lifted water tank	Yes	Yes
4. River, stream and pond (close to drinkable level)	Yes	Yes
5. River, stream and pond (not drinkable)	No	Yes
6. Sea water	No	No

※ It is safer and better to use typical river water just for washing, cleaning and shower. It is because the river water has unstable water quality.  
 ※ In the case 2., TAP WATER must be filled inside the underground water tank when it is utilized as "drinking water". If the water is not taken from the tap, it must be used only for "daily-life", not for "drinking".  
 ※ The water in fireproof water tank (open-top) is the same condition as the case of 4. or 5..  
 ※ If the water taken from underground water tank (case 2.) and its PH is at 8.6 or more, Carbon Dioxide Neutralization Device (optional extra) is required.