

SHIBAURA

PORTABLE FIRE-FIGHTING PUMP



FK500

Shibaura Fire Pump Corporation



001

FT500-A/FT450-A

To maintain a safe and secure environment

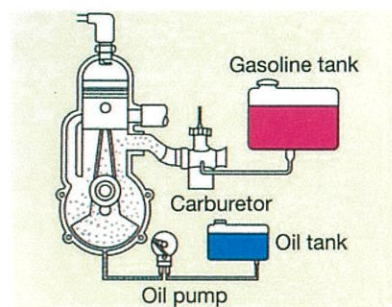
Most important factor influencing the performance of portable fire-fighting pumps is a Durability. Easy operation and toughness of FT Air Cooled Engine Series can provide you with the strong power and reliability you need to get the tough jobs done in a short time.

“Auto Choke Carburetor System” and “Advanced Fuel Feeding System” for a reliable starting and stable discharge performance which allow you continuous operation without having any influence of dirty water.



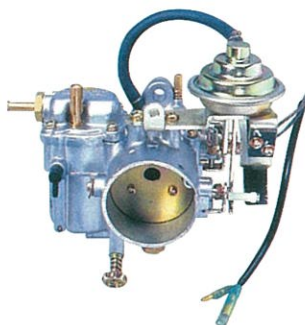
ADVANCED FUEL FEEDING SYSTEM

Advanced Fuel Feeding System provides you with optimum gasoline / oil mixing rate under any circumstances at any time.

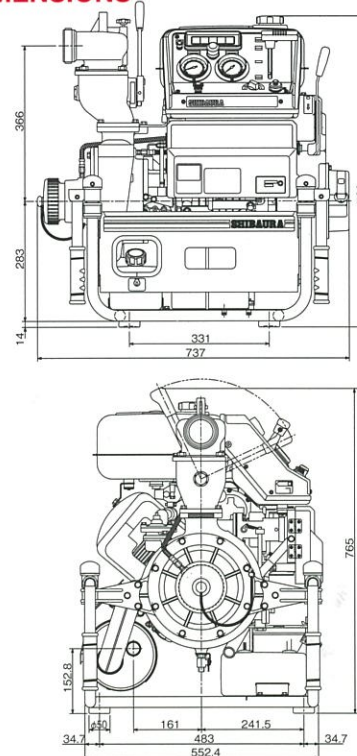


AUTO CHOKE CARBURETOR SYSTEM

Both of air and engine thermometer can work a good adjustment for choke valve automatically and gives you easy starting by just turning the main switch on.



DIMENSIONS



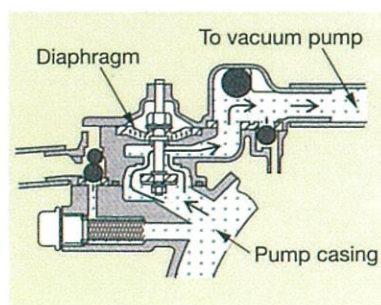
OK MONITOR

Alarm monitoring system indicates a trouble during the operation. The OK Monitor will let you know with a signal if a malfunction happened.

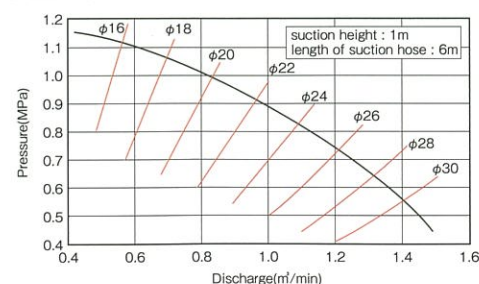


WATER-STOP VALVE SYSTEM

Valves are integrated into one body for your simple maintenance and easy operation.



PERFORMANCE CURVE



FT300-A

To protect your life, property, and natural resources from a Fire

Compact Fire-Fighting pump with the highest performance in the class.

New compact design and low gravity for your safety operation and new engine that delivers high performance at low cost.

SHIBAURA proudly announces new multi-purpose economic, high-performance Portable Fire-Fighting Pump to protect your life, property, and natural resources against a fire.



NEW QUICK VALVE

Shibauro designed new quick valve will help you smoothly delivery water at necessary time by one touch.

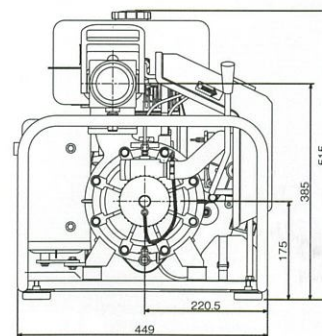
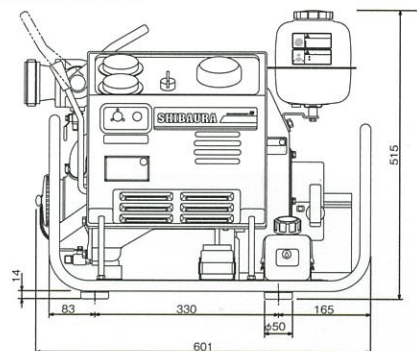


OILLESS VACUUM PUMP

Mounted large size carbon type blades, oilless vacuum pump not only to pick up water short time, but for environment friendly.



DIMENSIONS



FEATURES

1. Fuel Feeding system
2. Direct-Acting Engine Governors
3. Automatic Choke System For Carburetor
4. Auto-Decompression
5. Full-Covered Model
6. Integrated Control Panel
7. Oilless Vacuum Pump
8. Quick Valve
9. One-Touch Drain Cock

PERFORMANCE CURVE



TF516MH-A

To protect your life, property, and natural resources from a Fire

Light Weight and Compact Air-cooled Fire Pump.

Auto Choke Carburetor System.

Short Stroke Lever with 45-degree angle.

Advanced Fuel Feeding System with separate supply
of gasoline and oil to engine.

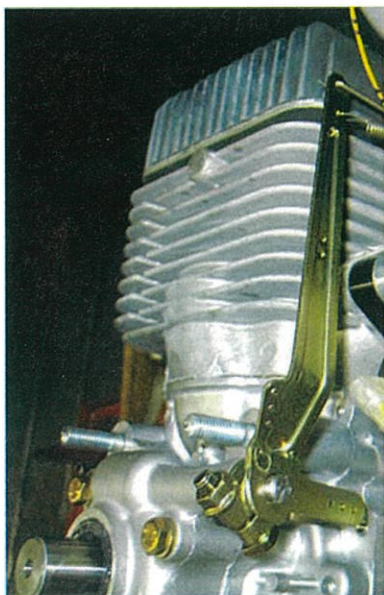
Oilless Vacuum Pump.

Starting System : Electric Starter motor, and Recoil
starter system with electronic ignition + pull-rope recoil
starter.



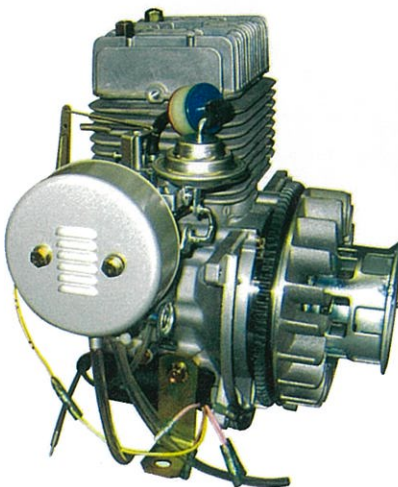
SIMPLE AND POWERFUL

Reflect all-in-one of Shibaura pump
technology, impress our customers by
simple design, light weight and best
quality.

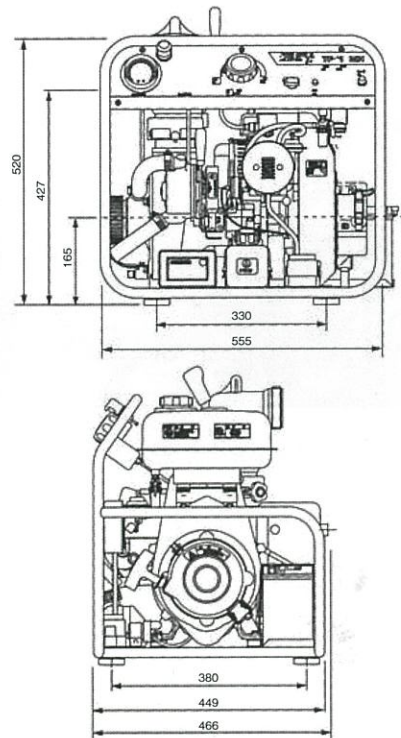


ORIGINAL ENGINE

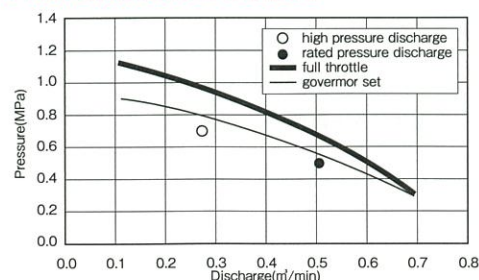
Mounted Shibaura own made 2 cycle
gasoline engine, is designed for portable
fire fighting pumps only.



DIMENSIONS



PERFORMANCE CURVE



FK500-A

To satisfy all requirements for safe and reliable fire fighting activities

SHIBAURA designed liquid-cooled engine prevents malfunction due to interfusion of waste water and dust into the engine cooling system.

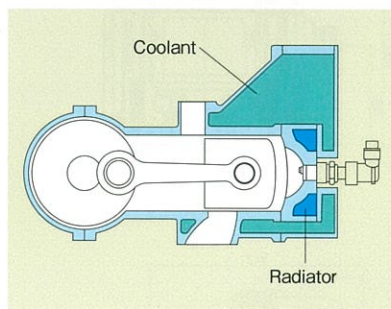
Easily warm up the engine with the idling, as the engine can be operated without discharging the water, and gives you the power of high combustion efficiency at any time.

The durability and long-lasting power offered by SHIBAURA's advanced engineering technology.



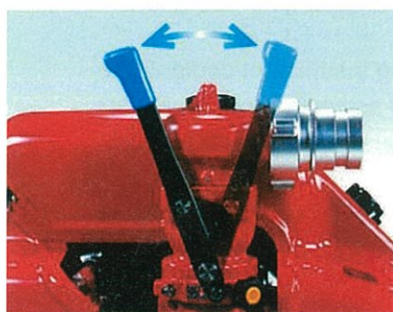
FULLY WATER COOLED RADIATOR

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

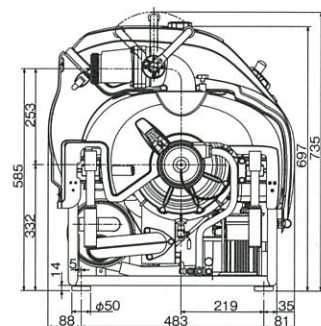
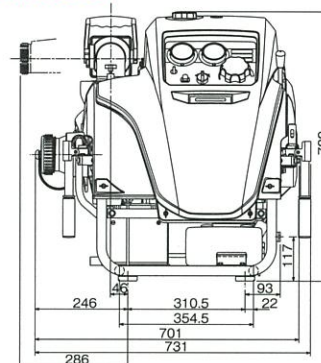


QUICK VALVE LEVER

Quick Valve Lever which allows you to operate valve faster and easier. Short stroke 45 degree lever device that is capable of shifting lever at once.



DIMENSIONS



OILLESS VACUUM PUMP

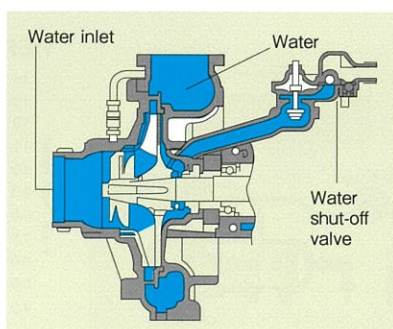
Oilless Vacuum Pump uses high-strength carbon blades which do not need lubricating oil inside the pump. Harmless method to human and environment, as its doesn't discharge oily water on the ground.



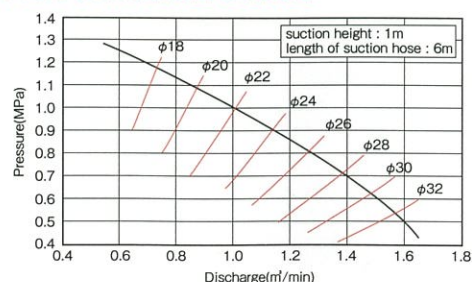
VACUUM PUMP SYSTEM

The maximum efficiency and lowest wear rate.

Short suction procedure for your faster fire fighting activities and simple mechanism for your easy maintenance.



PERFORMANCE CURVE



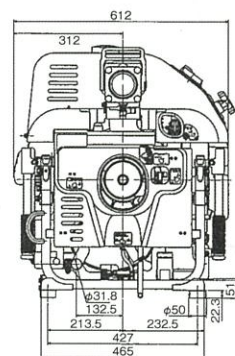
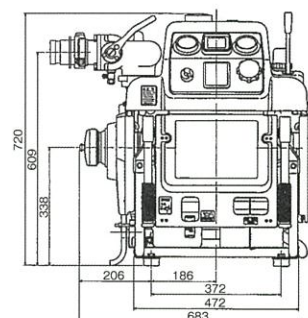
P572S-A

Strong power, overwhelming credibility, to protect your property and life

- Use of a large oil-less vacuum pump ensures no wasted oil and Coolant Circulation System eliminates emission of water, achieving a consistently clean cooling solution.
- Revolutionary automatic decompression system equipped to the engine, which reduces recoil force and has an automatic choke to ensure a simple and trouble free start every time.
- The new design incorporates a large oil-less vacuum pump and high power engine, allowing faster water suction and discharge, making it superior to any other competitions in the same class.
- Separate oil filling system eliminates the need for fuel mix in the lubrication oil. when empty warning indicator will alert the operator and the engine will automatically shut down.
- The new design allows low noise operation and this has been achieved by using a high performance silencer system operating on both the air intake and outlet. This convenient feature minimizes noise disturbances during practice drills and night time operation.
- In the unexpected event of the pump having insufficient coolant, the automatic shut down system (RRS) will be activated and the engine will automatically shut down.
- An improved design super ball cock valve offers excellent operating characteristics, while a step-less throttle dial delivers smoother, fine discharge setting.



DIMENSIONS



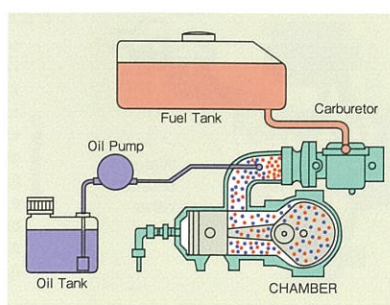
FLAT ENGINE, VARIOUS TYPE OUTLET COUPLING

Flat engine keeps pump's equilibrium at any condition.

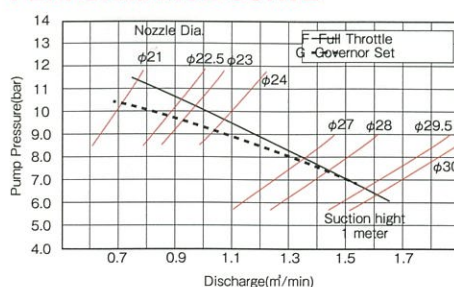


SEPARATE OIL FILLING SYSTEM

Release from dirty dangerous oil, gasoline mixing work and provide adequate mixing fuel to engine at any time.



PERFORMANCE CURVE



FF500-A

To satisfy all requirements for safe and reliable fire fighting activities

SAFETY

- Automatic stopping function by sensing no oil through the 2-cycle oil sensor.
- Automatic stopping function by prevention from abnormal overheating.
- The high brightness LED monitor with the self-checking function blinking on and off for an abnormal status.
- An HID searchlight(optional) can be used on the fire pump equipped with the alternator generating high electrical power.

IMPROVING SPEED AND OPERABILITY

- Improved water-spraying performance by adopting the super ball cock.
- The shortened time needs for starting water spraying by adopting the fuel injection.
- Highly improved durability and performance by adopting the large Oil-less vacuum pump (PEEK material).
- Engine cooling water is returned to the pump eliminating discharge outside of the pump, and contamination of surrounding area.
- Unique double suction system achieved extra-high discharge performance.



EASY CARE

- Easy care with no troublesome care because of no fuel colgging caused without a caburetor.
- No care due to no fuel clogging caused without a fuel cock.

VARIOUS MERITS BY FI (ELECTRONIC CONTROL FUEL INJECTION)

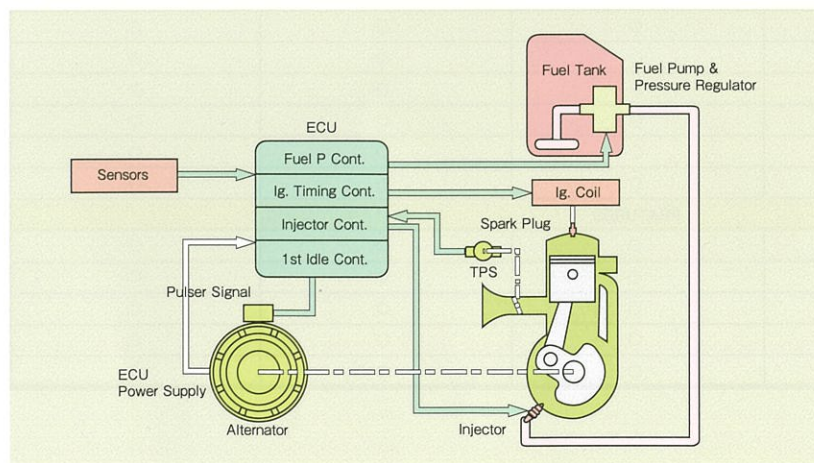
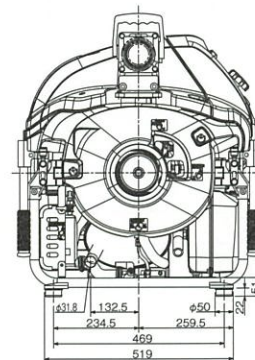
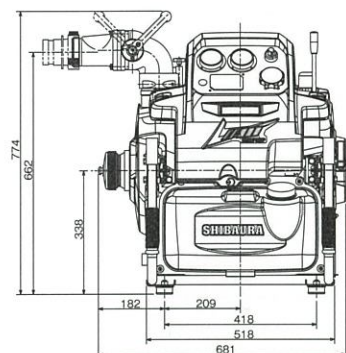
Easy starting by correcting the conditions with the ECU under various conditions, such as ambient and engine operating temperatures, and altitude differences. Easy starting operation at any slope due to no carburetor. Stable operations from low to high speed achieved with appropriate fuel consumption. Achieved high-power and pressure, and better engine acceleration essential for fire fighting pumps. Ultimate 2-stroke engine achieving lower emissions giving importance to environment.



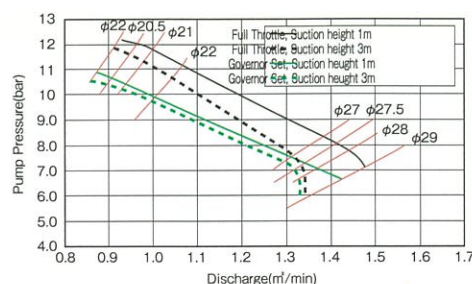
LARGE OILLESS VACUUM PUMP (PEEK MATERIAL)

Voidable air from internal side of pump, become vacuum condition in a split second.

DIMENSIONS



PERFORMANCE CURVE



AIR COOLED TYPE PORTABLE FIRE FIGHTING PUMP SPECIFICATIONS

AIR COOLED FT FT FOR TABLE FIRE FIGHTING PUMP				
MODEL				
	FT500-A / TF745M-A	FT450-A	FT300-A	TF516MH-A
DIMENSIONS	737mm×572mm×765mm	737mm×572mm×765mm	601mm×463mm×515mm	555mm×466mm×520mm
DRY WEIGHT	90kg	90kg	44kg	41kg
PUMP				
MODEL	SHIBAURA B612B	SHIBAURA B612B	SHIBAURA C505	SHIBAURA C505
TYPE	HIGH PRESSURE ONE STAGE TURBINE PUMP			
DISCHARGE VOLUME @SUCTION HEIGHT(1m)	0.50MPa 1450L/min	0.50MPa 1410L/min	0.40MPa 625L/min	0.50MPa 550L/min
	0.60MPa 1360L/min	0.60MPa 1310L/min	0.60MPa 490L/min	0.60MPa 475L/min
	0.80MPa 1130L/min	0.80MPa 1070L/min	0.80MPa 315L/min	0.80MPa 280L/min
DISCHARGE Dia / Tread	65mm			
SUCTION Dia / Tread	75mm		65mm	
ENGINE				
MODEL	SHIBAURA E440C		SHIBAURA E200	SHIBAURA E180A
TYPE	AIR COOLED TWO-CYCLE GASOLINE ENGINE			
COOLING SYSYTEM	AIR COOLED TYPE			
NO OF CYLINDER	TWO CYLINDER		ONE CYLINDER	
DISPLACEMENT	436cc		200cc	182cc
BORE	68mm×60mm		68mm×55mm	
MAX OUTPUT	34kw / 46ps	32kw / 43ps	13kw / 18ps	11kw / 15ps
RATED OUTPUT	22.8kw / 31ps		8.8kw / 12ps	8.1kw / 11ps
STARTING	ELECTRIC STARTER & MANUAL STARTER			
IGNITION	CD IGNITION			
FUEL TANK CAPACITY	14.5L		4.0L	4.2L
FUEL CONSUMPTION	14L		5.4L	4.6L
FUEL SYSTEM	AUTO CHOKE CARBRETOR			
FUEL TYPE	REGULAR UNLEADED GASOLINE			
LUBRICATION	SEPARATE OIL FEEDING SUSTEM			
MIXING RATIO	GOVERNOR			
LUBRICATION OIL	2-CYCLE ENGINE OIL			
OIL TANK	2L		0.5L	
SPARK PLUG	NGK B8HV		NGK B9HS	NGK B6HS
OPERATION LIGHT	12V35W	12V5W	12V3W × 2	12V10W
LIGHT	12V35W			
BATTERY	NBC GEL20L-BS		NBC GEL14-BS	
VACUUM PUMP	OIL-LESS / OIL VACUUM PUMP		OIL-LESS VACUUM PUMP	
MODEL	4-VANE ECCENTRIC ROTARY TYPE			
BLADE TYPE	HIGH STRENGTH CARBON / BRONZE BLADE		HIGH STRENGTH CARBON BLADE	
MAXIMUM SUCTION HEIGHT	APPROX 9M			
STANDARD ACCESSORIES				
BATTERY CHARGER	☐	☐	☐	☐
TOOL KIT	☐	☐	☐	☐
PUMP COVER	☐	☐	☐	☐
SPARK PLUG	☐	☐	☐	☐
SAFETY NOZZLE	☐	☐	☐	☐
OPERATOR'S MANUAL	☐	☐	☐	☐
FEATURES				
■ ADVANCED FUEL FEEDING SYSTEM	☐	☐	☐	☐
■ AUTO CHOKE CARBURETOR SYSTEM	☐	☐	☐	☐
■ OILLESS VACUUM PUMP	☐ / ☐	☐	☐	☐
■ QUICK VALVE LEVER	☐	☐	☐	☐
■ VACUUM PUMP SYSTEM	☐	☐	☐	☐

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

WATER COOLED TYPE PORTABLE FIRE FIGHTING PUMP SPECIFICATIONS

MODEL				
	FK500-A	P572S-A	FF500-A	FF500AS-A
DIMENSIONS	701mm×590mm×766mm	657mm×584mm×720mm	681mm×635mm×708mm	681mm×635mm×708mm
DRY WEIGHT	85kg	88kg	92kg	92kg
PUMP				
MODEL	B716	SHIBAURA B612B	P556	P556
TYPE	SINGLE STAGE, HIGH PRESSURE TURBINE PUMP			
DISCHARGE VOLUME @SUCTION HEIGHT(1m)	0.50MPa 159L/min	0.50MPa 141L/min	0.60MPa 133L/min	0.60MPa 133L/min
	0.60MPa 151L/min	0.60MPa 131L/min	0.70MPa 132L/min	0.70MPa 132L/min
	0.80MPa 128L/min	0.80MPa 107L/min	1.00MPa 92L/min	1.00MPa 92L/min
DISCHARGE Dia / Tread	65mm			
SUCTION Dia / Tread	75mm			
ENGINE				
MODEL	L618Z	EP572	EP556	
TYPE	WATER COOLED TWO-CYCLE GASOLINE ENGINE			
COOLING SYSYTEM	WATER COOLED TYPE			
NO OF CYLINDER	TWO CYLINDER			
DISPLACEMENT	618cc	723cc	635cc	
BORE	75mm×70mm	80mm×72mm	76mm×70mm	
MAX OUTPUT	46kw / 62ps	52kw / 70ps	50kw / 58ps	
RATED OUTPUT	33.1kw / 45ps	34.3kw / 46ps	32kw / 43ps	
STARTING	ELECTRIC STARTER & MANUAL STARTER			
IGNITION	CD IGNITION		DIGITAL CD IGNITION	
FUEL TANK CAPACITY	14.5L	12L	11L	
FUEL CONSUMPTION	14L	17.5L	17L	
FUEL SYSTEM	AUTO CHOKE CARBURETOR		ELECTRONIC CONTROL FUEL INJECTION	
FUEL TYPE	REGULAR UNLEADED GASOLINE			
LUBRICATION	SEPARATE OIL FEEDING SUSTEM			
MIXING RATIO	GOVERNOR			
LUBRICATION OIL	2-CYCLE ENGINE OIL			
OIL TANK	2L		1.2L	
SPARK PLUG	NGK B7HV		NGK B7HS	
OPERATION LIGHT	12V5W × 2		12V3W × 2	
SEARCH LIGHT	12V35W	12V25W	12V180W	
BATTERY	NBC GEL20L-BS			
OIL-LESS VACUUM PUMP				
MODEL	4-VANE ECCENTRIC ROTARY TYPE			
BLADE TYPE	HIGH STRENGTH CARBON BLADE			
MAXIMUM SUCTION HEIGHT	APPROX 9M			
STANDARD ACCESSORIES				
BATTERY CHARGER	○	○	○	○
TOOL KIT	○	○	○	○
PUMP COVER	○	○	○	○
SPARK PLUG	○	○	○	○
SAFETY NOZZLE	○	○	○	○
OPERATOR'S MANUAL	○	○	○	○
FEATURES				
■ ADVANCED FUEL FEEDING SYSTEM	○	○	○	○
■ AUTO CHOKE CARBURETOR SYSTEM	○	○	○	○
■ OK MONITOR	○ / x	○	○	○
■ WATER-STOP VALVE SYSTEM	○	○	○	○
■ OILLESS VACUUM PUMP	○	○	○	○
■ QUICK VALVE LEVER	○	○	○	○
■ OILLESS VACUUM PUMP SYSTEM	○	○	○	○

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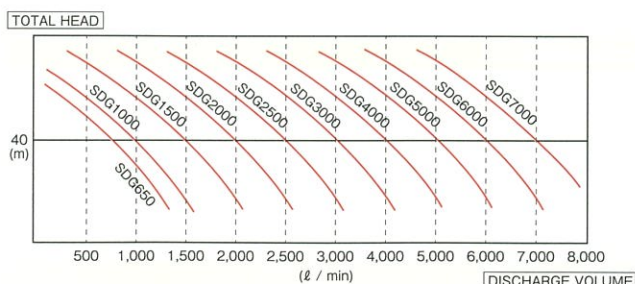
SDG series



Total solutions for the industrial fire caused due to an abnormal high temperature. Water discharge from water spray systems with fully automatic water pump powered by Diesel Engine to cool down storage tanks to prevent fires and explosions in LPG Storage Plants, LNG Storage Plants and other industrial facilities. All models are equipped with Shibauro(451cc-1995cc) or Perkins (3990cc) Diesel Engines which last much longer than gasoline engines. Integrated security and fire control solutions for fire control activity in Tank Storage Plants.

- Full coverage model for your safety and easy maintenance.
- Fully computer integrated system makes it easy to operate by just pushing the start / stop switch.
- Highly reliable high power diesel engine with easy start even after long periods of storage.
- No need to install complicated plumbing nor water plumbing service works, as all models are equipped with vacuum pumps.
- Full Automatic battery charger keeps appropriate electric charge, and also catalyst in the battery case prevent electrolyte from shrinking.
- Selectable auto or manual control for your easy maintenance.
- All in one package (engine, tank, pump, vacuum pump and controller) for your fast and easy installation.
- Alarming system activates the safety shutdown system and stops the engine immediately if malfunction happened during the operation.

PERFORMANCE CURVE



Shibauro Diesel

SDG650 / 11KW/PS / 451cc
SDG1000 / 26KW/PS / 954cc
SDG1500 / 26KW/PS / 954cc
SDG2000 / 47KW/PS / 1995cc
SDG2500 / 47KW/PS / 1995cc
SDG3000 / 47KW/PS / 1995cc

Perkins Diesel

SDG4000 / 108KW/PS / 4400cc
SDG5000 / 108KW/PS / 4400cc
SDG6000 / 108KW/PS / 4400cc
SDG7000 / 108KW/PS / 4400cc

SRV2000-75B/SRV2000-65B

In case fire-fighting vehicle cannot reach a particular place due to steep and narrow roads, Shibaura direct valve gives you a great advantage in fire fighting operation.

Relay of water from one fire pump to another in forest fire usage without any complicated adjustment with several people.

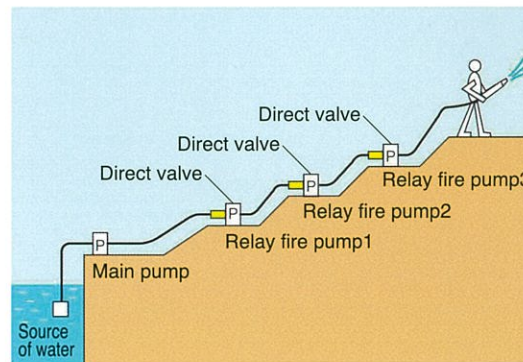
Long distance relay operations for a fire in urban area.



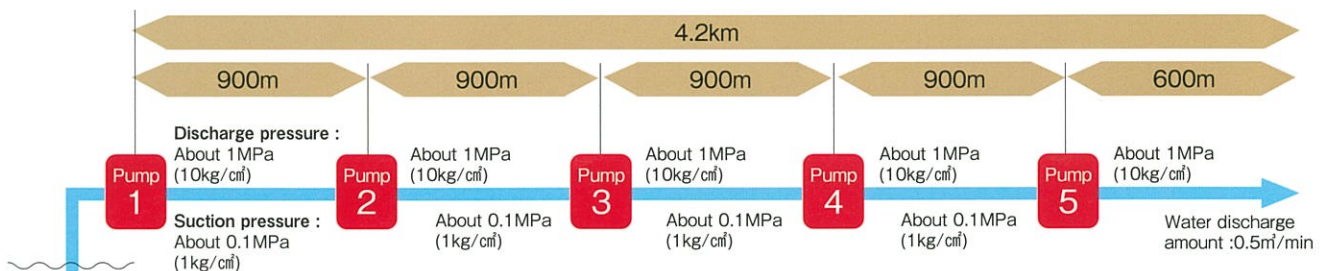
DIRECT VALVE SPECIFICATIONS

Suction Port	SRV2000-75B 75mm	SRV2000-65B 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	L235×W194×H180mm	
Weight	4.0kg	

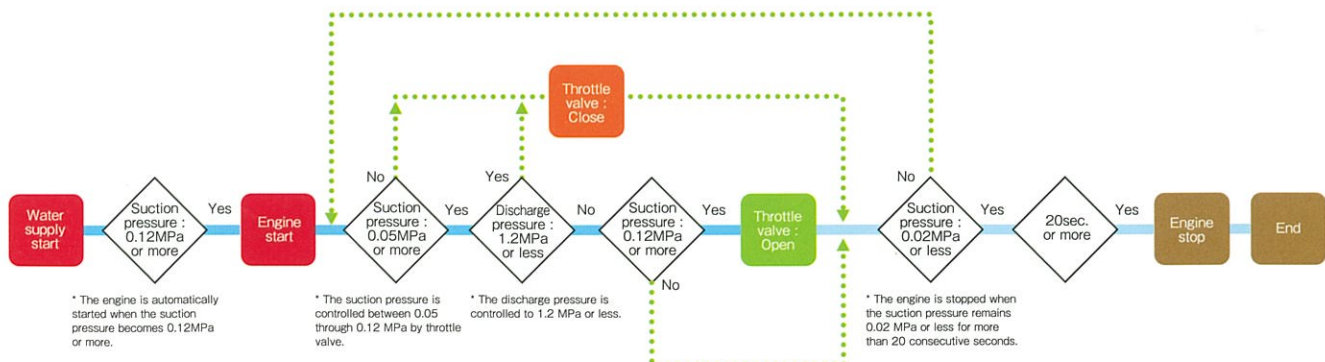
EXAMPLE



EXAMPLE OF LONG DISTANCE WATER SUPPLY



PUMP CONTROL UNIT AND CONTROL FLOW



Auto Relay Pumps for Quicker, Stronger and Larger Capabilities!

Save, Safe, Security.



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

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Sole Distributor for Malaysia



ESTD 1974

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E-mail: enquiry@firefighter.com.my

