

SHIBAURA

**Portable Fire-Fighting pump
and
disaster prevention equipment**

Explore the Engineering Edge

IHI GROUP

IHI Shibaura Machinery Corporation

SHIBAURA Portable Fire-Fighting Pump

WATER COOLED RADIATOR / 2 CYCLE Gasoline ENGINE

SF756MZ

/ SF656MZ

SHIBAURA designed liquid-cooled engine prevent malfunction due to interfusion of waste water and dust into the engine chamber.

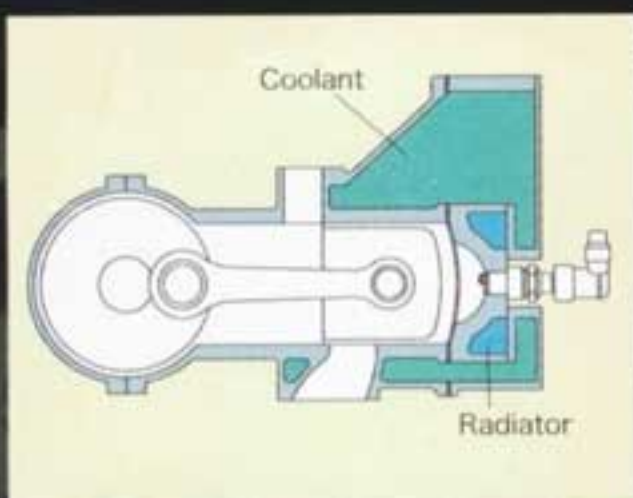
Easily warm up the engine with the idling, as the engine can be operated without discharging the water, and gives you the power of high combustion efficiency at any time.

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



To satisfy all requirements for safe and reliable fire fighting activities

SF Series



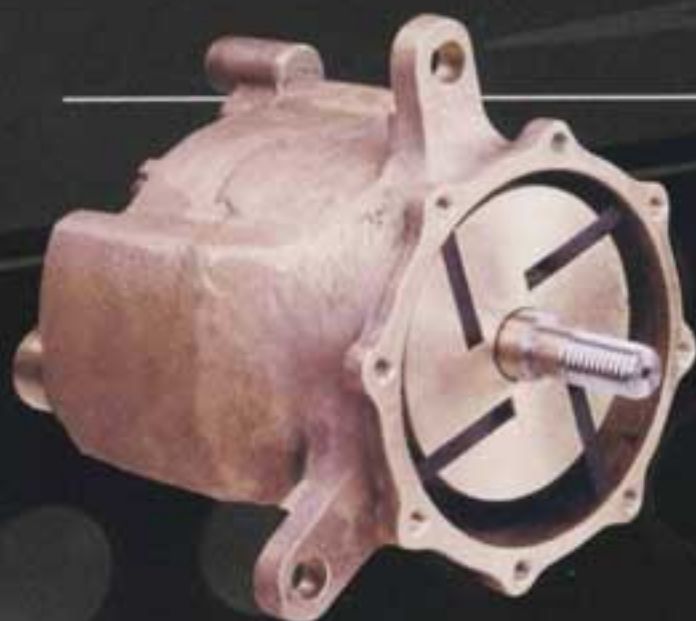
FULLY WATER COOLED RADIATOR

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



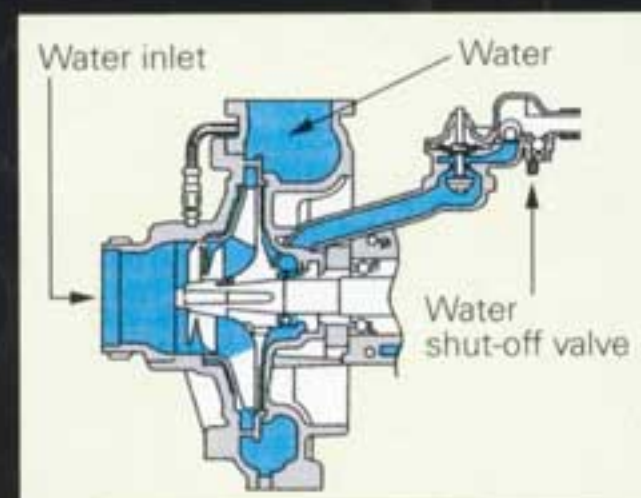
QUICK VALVE LEVER

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



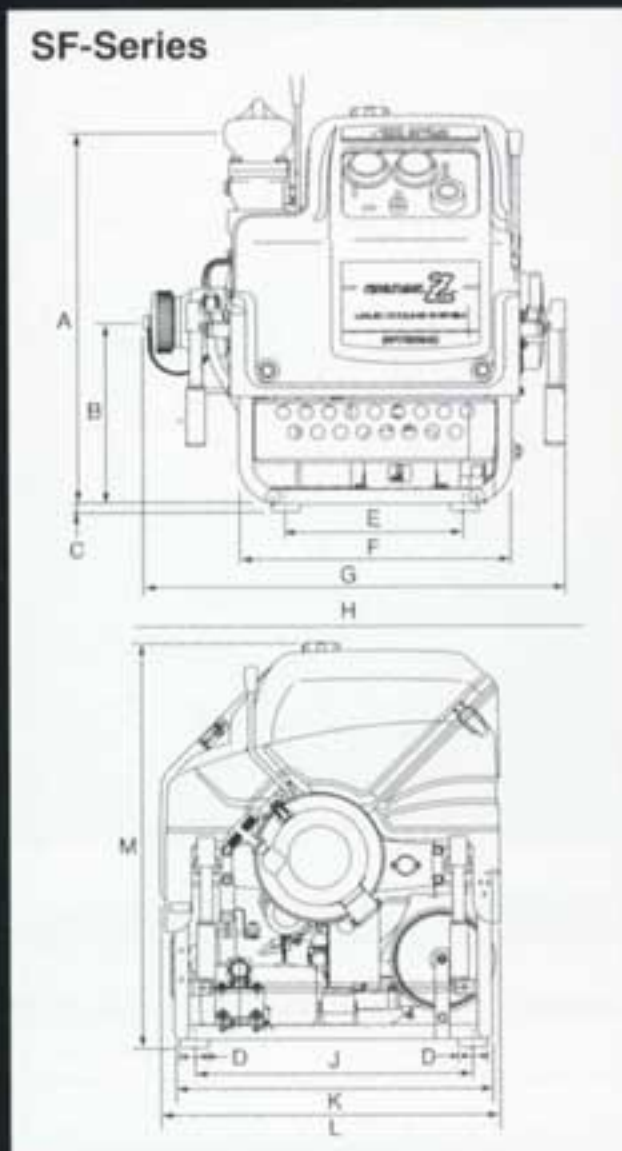
OILLESS VACUUM PUMP

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



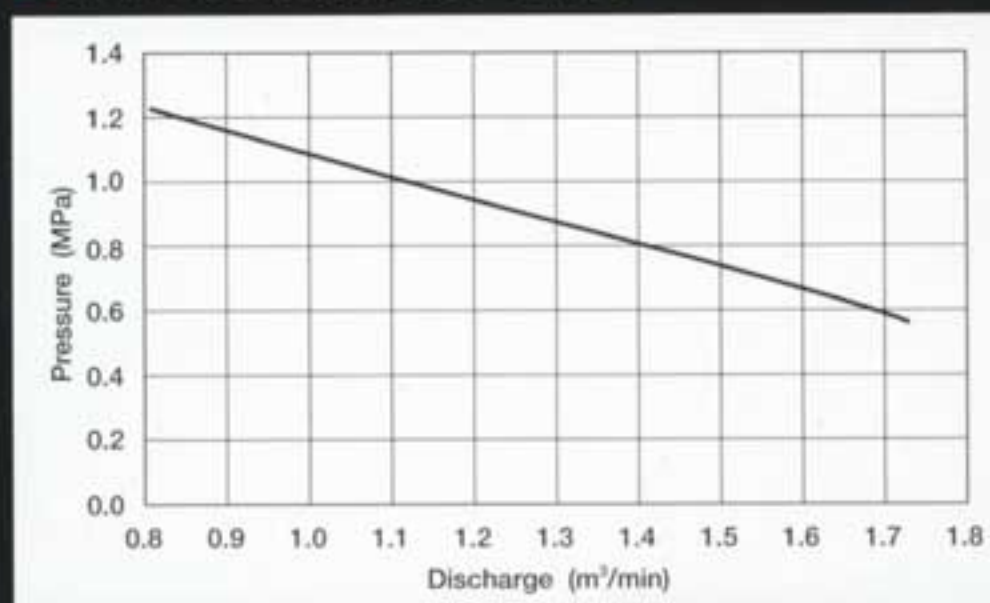
VACUUM PUMP SYSTEM

The maximum efficiency and lowest wear rate. Short suction procedure for your faster fire fighting activities and simple mechanism for your easy maintenance.



	SF 756 MZ	SF 656 MZ
A	644	644
B	318	318
C	14	14
D	50	50
E	310	310
F	486	486
G	701	701
H	1040	1040
J	483	483
K	552	552
L	590	590
M	766	766

SF756 Performance Curve



SHIBAURA Portable Fire-Fighting Pump
AIR COOLED / 2 CYCLE Gasoline ENGINE

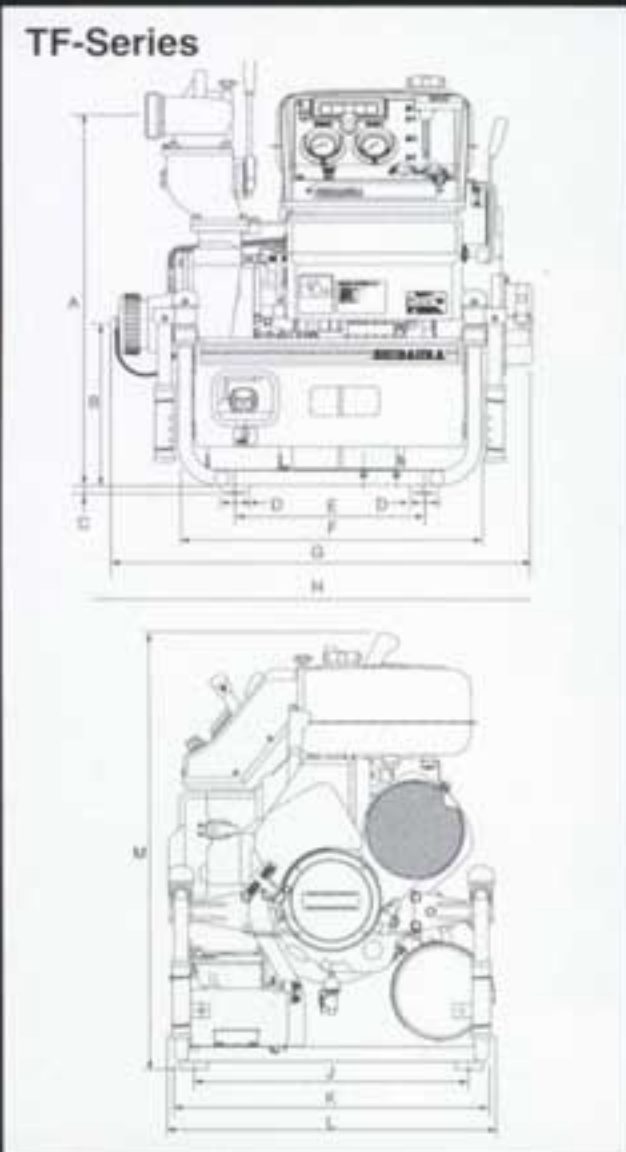


TF745MH
/ TF640MH

Most important factor influencing the performance of portable fire-fighting pumps is a Durability. Easy operation and toughness of TF Air Cooled Series can provide you 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.

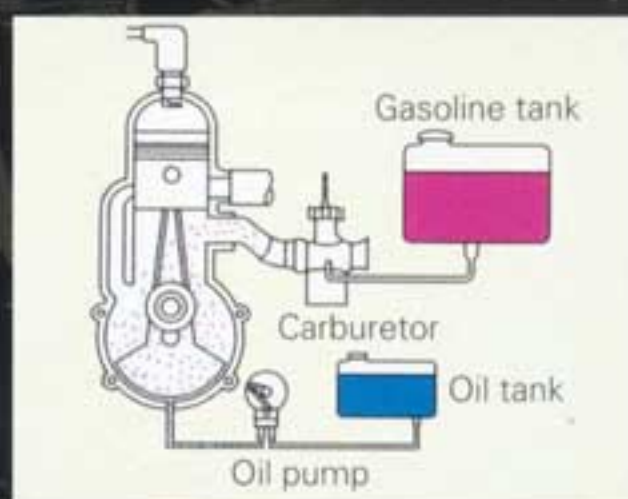
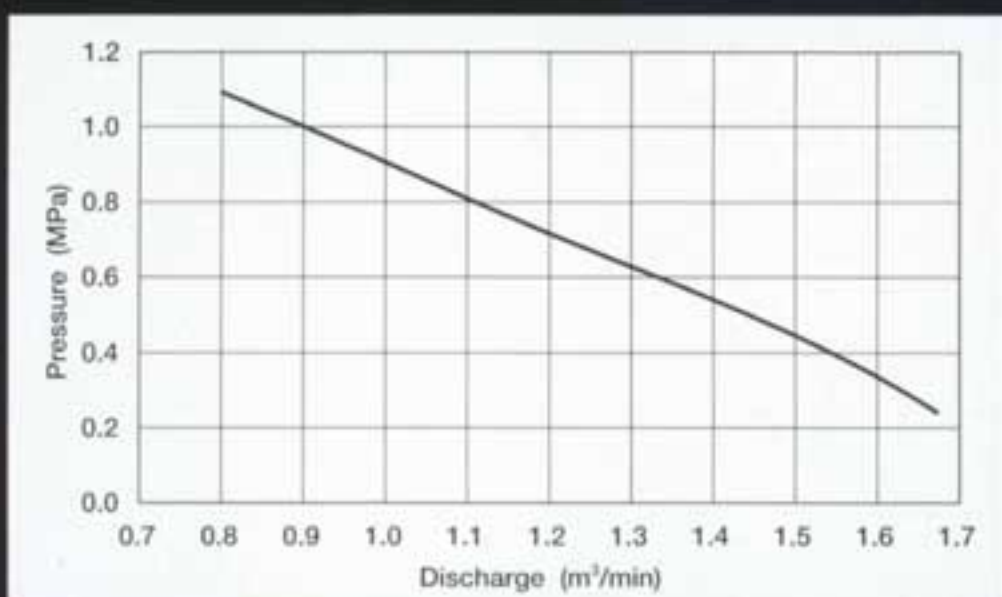
To maintain a safe and secure environment

TF Series



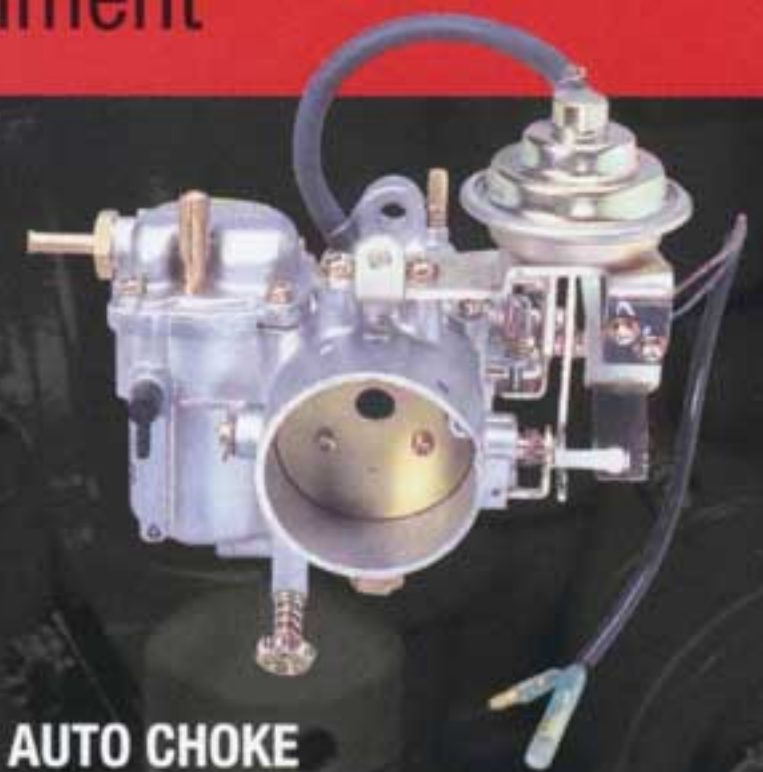
	TF 745	TF 640
A	649	649
B	283	283
C	14	14
D	50	50
E	331	331
F	530	530
G	737	737
H	1080	1080
J	483	483
K	552	552
L	572	572
M	765	765

TF745 Performance Curve



ADVANCED FUEL FEEDING SYSTEM

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



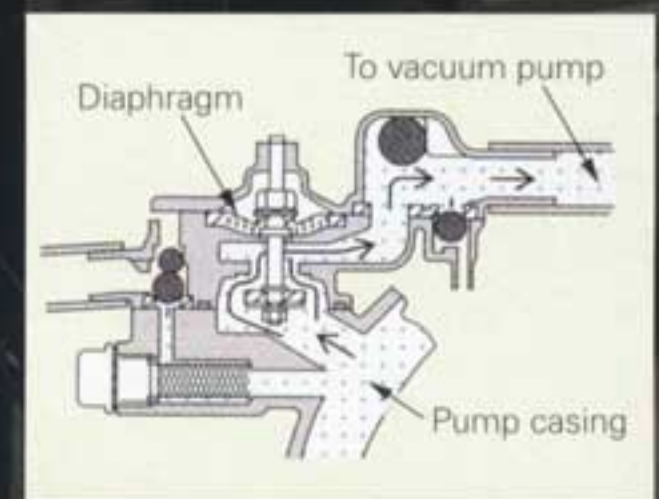
AUTO CHOKE CARBURETOR SYSTEM

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.



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

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



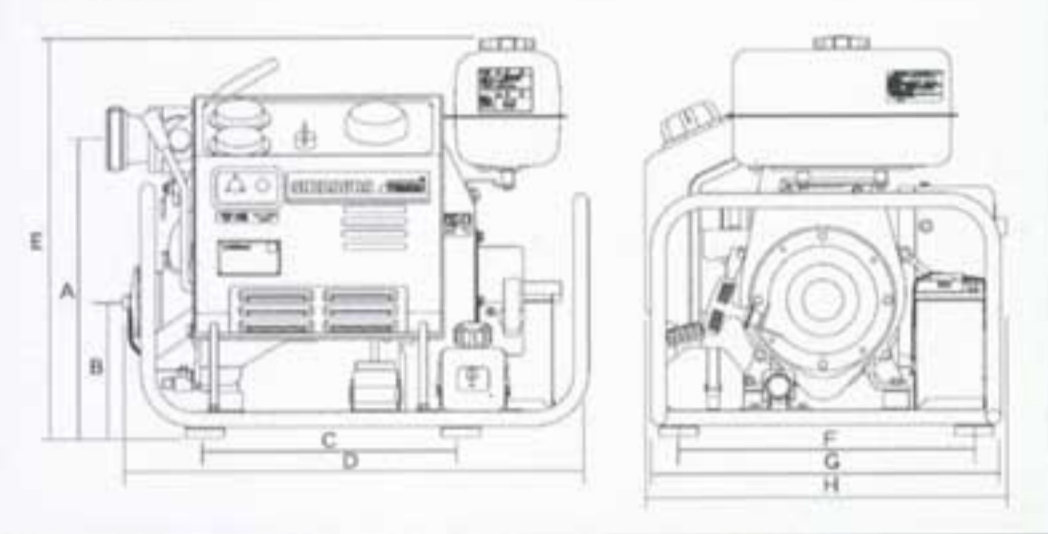
SHIBAURA Portable Fire-Fighting Pump

AIR COOLED / Compact 2 CYCLE Gasoline ENGINE

TF520MH

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.

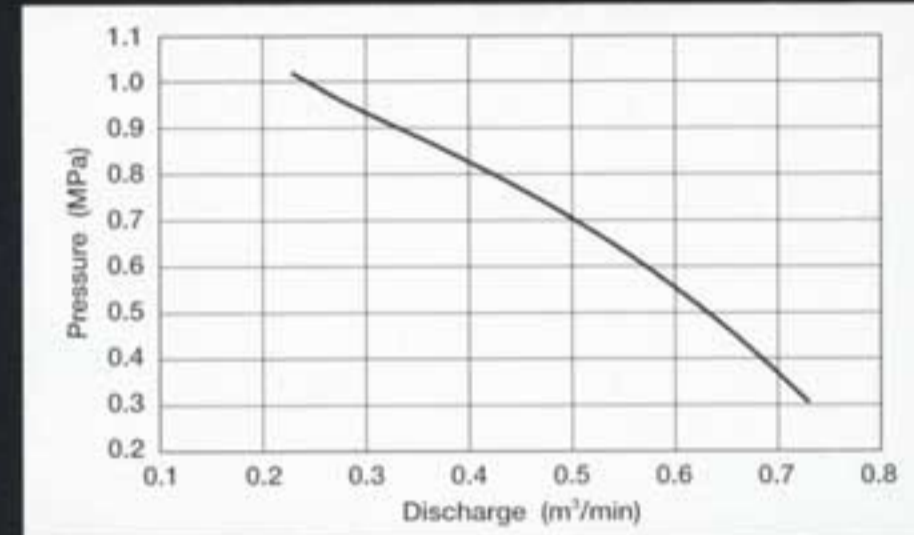
TF-Series



TF520MH

A	385
B	175
C	330
D	601
E	515
F	380
G	449
H	463

TF520MH Performance Curve



Features

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

TF Series

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

SHIBAURA Portable Fire-Fighting Pump

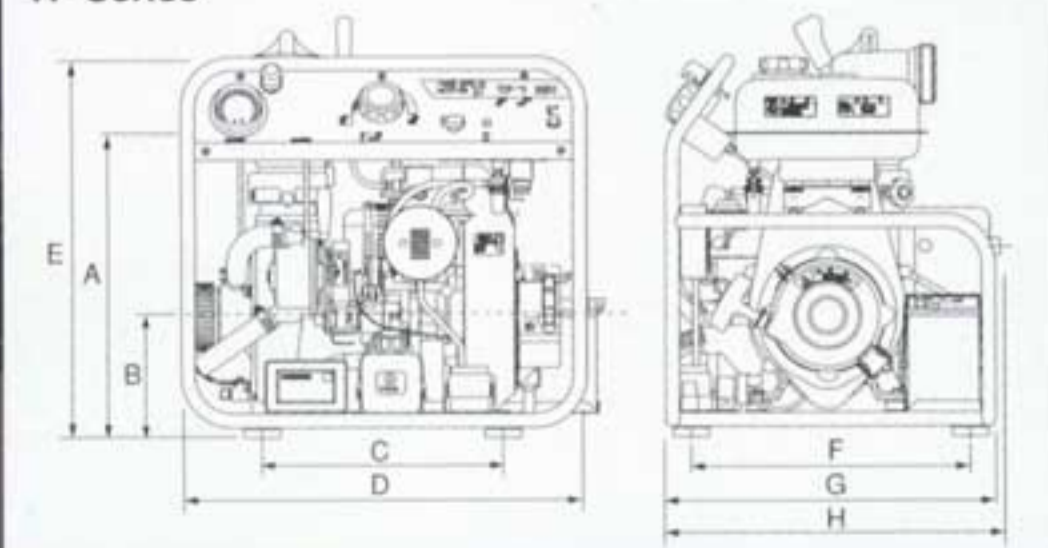
AIR COOLED / Compact 2 CYCLE Gasoline ENGINE

TF516MH

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:
 (MH) Recoil starter system with electronic ignition + pull-rope recoil starter
 (SH) Pull-rope recoil starter



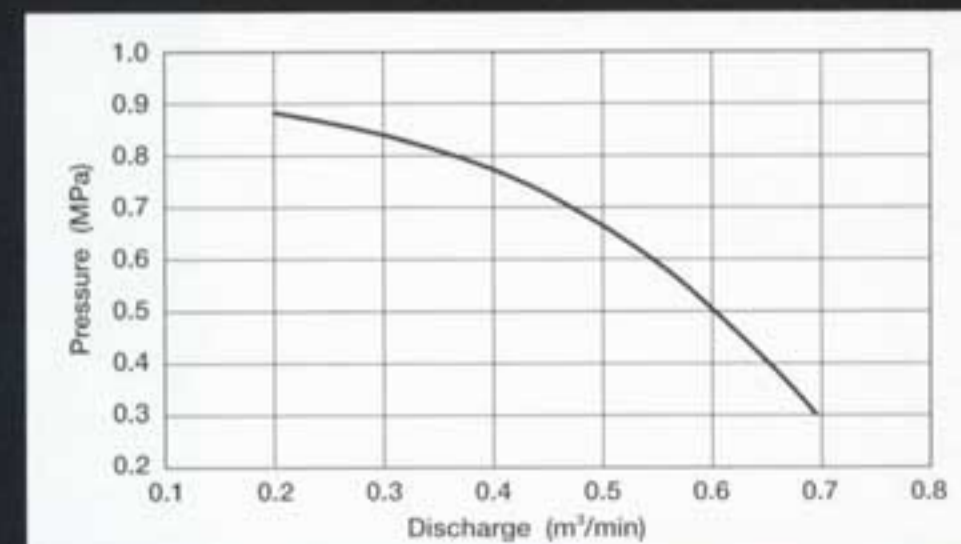
TF-Series



TF516MH

A	427
B	165
C	330
D	555
E	520
F	380
G	449
H	466

TF516MH Performance Curve



Specifications



	WATER COOLED TYPE		AIR COOLED TYPE		AIR COOLED COMPACT TYPE	
MODEL	SF756MZ	SF656MZ	TF745MH	TF640MH	TF520MH	TF516MH
DIMENSION	701mm x 590mm x 766mm	701mm x 590mm x 766mm	737mm x 572mm x 765mm	737mm x 572mm x 765mm	601mm x 463mm x 515mm	555mm x 466mm x 520mm
DRY WEIGHT	85KG	85KG	90KG	90KG	44.0KG	41KG
PUMP						
MODEL	SHIBAURA B716	SHIBAURA B716	SHIBAURA B612B	SHIBAURA B612B	SHIBAURA C505	SHIBAURA C505
TYPE	High Pressure One Stage Turbine Pump	High Pressure One Stage Turbine Pump	High Pressure One Stage Turbine Pump	High Pressure One Stage Turbine Pump	High Pressure One Stage Turbine Pump	High Pressure One Stage Turbine Pump
RATED PRESSURE DISCHARGE	0.50MPa 1760 L/min	0.50MPa 1740 L/min	0.50MPa 1420 L/min	0.50MPa 1370 L/min	0.50MPa 620 L/min	0.50MPa 600 L/min
HIGH PRESSURE DISCHARGE	1.0MPa 1120 L/min	1.0MPa 1030 L/min	1.0MPa 900 L/min	1.0MPa 800 L/min	0.80MPa 420 L/min	0.80MPa 360 L/min
DISCHARGE Dia/Tread	65 mm	65 mm	65 mm	65 mm	65 mm	65 mm
SUCTION Dia/Tread	75 mm	75 mm	75 mm	75 mm	65 mm	65 mm
ENGINE						
MODEL	SHIBAURA L618Z	SHIBAURA L618Z	SHIBAURA E440C	SHIBAURA E440C	SHIBAURA E200	SHIBAURA E180A
TYPE	Water Cooled Two-Cycle Gasoline Engine	Water Cooled Two-Cycle Gasoline Engine	Air Cooled Two-Cycle Gasoline Engine	Air Cooled Two-Cycle Gasoline Engine	Air Cooled Two-Cycle Gasoline Engine	Air Cooled Two-Cycle Gasoline Engine
COOLING SYSTEM	WATER COOLED TYPE	WATER COOLED TYPE	AIR COOLED TYPE	AIR COOLED TYPE	AIR COOLED TYPE	AIR COOLED TYPE
NO OF CYLINDER	Two Cylinder	Two Cylinder	Two Cylinder	Two Cylinder	One Cylinder	One Cylinder
DISPLACEMENT	618 cc	618 cc	436 cc	436 cc	200 cc	182 cc
BORE	75mm X 70mm	75mm X 70mm	68mm X 60mm	68mm X 60mm	68mm X 55mm	65mm X 55mm
MAX OUTPUT	46kw / 62ps	43kw / 58ps	34kw / 46ps	32kw / 43ps	13kw / 18ps	11kw / 15ps
RATED OUTPUT	33.1kw / 45ps	33.1kw / 45ps	22.8kw / 31ps	22.8kw / 31ps	8.8kw / 12ps	8.1kw / 11ps
STARTING	Electric Starter / Manual Starter	Electric Starter / Manual Starter	Electric Starter / Manual Starter	Electric Starter / Manual Starter	Electric Starter / Manual Starter	Electric Starter / Manual Starter
IGNITION	CD ignition	CD ignition	CD ignition	CD ignition	CD ignition	CD ignition
FUEL TANK CAPACITY	14.5 L	14.5 L	14.5 L	14.5 L	4.0 L	4.2 L
FUEL CONSUMPTION	14 L	13.5 L	14 L	14 L	5.4 L	4.6 L
FUEL SYSTEM	Auto Choke Carburetor	Auto Choke Carburetor	Auto Choke Carburetor	Auto Choke Carburetor	Auto Choke Carburetor	Auto Choke Carburetor
FUEL TYPE	Regular Unleaded Gasoline	Regular Unleaded Gasoline	Regular Unleaded Gasoline	Regular Unleaded Gasoline	Regular Unleaded Gasoline	Regular Unleaded Gasoline
LUBRICATION	Separate Oil Feeding System	Separate Oil Feeding System	Separate Oil Feeding System	Separate Oil Feeding System	Separate Oil Feeding System	Separate Oil Feeding System
MIXING RATIO	Governor	Governor	Governor	Governor	Governor	Governor
LUBRICATION OIL	2-Cycle Engine Oil	2-Cycle Engine Oil	2-Cycle Engine Oil	2-Cycle Engine Oil	2-Cycle Engine Oil	2-Cycle Engine Oil
OIL TANK	2 L	2 L	2 L	2 L	500ml	500ml
SPARK PLUG	NGK B7HS	NGK B7HS	NGK B 8 HV	NGK B 8 HV	NGK B9HS	NGK B6HS
OPERATION LIGHT	12V 5W x 2	12V 5W x 2	12V5W	12V5W	12V - 3W x 2	12V10W
LIGHT	12V -35W	12V -35W	12V -35W	12V -35W	12V -35W	12V -35W
OIL-LESS VACUUM PUMP						
MODEL	4-Vane Eccentric Rotary Type	4-Vane Eccentric Rotary Type	4-Vane Eccentric Rotary Type	4-Vane Eccentric Rotary Type	4-Vane Eccentric Rotary Type	4-Vane Eccentric Rotary Type
BLADE TYPE	High Strength Carbon Blade	High Strength Carbon Blade	High Strength Carbon Blade	High Strength Carbon Blade	High Strength Carbon Blade	High Strength Carbon Blade
MAXIMUM SUCTION HEIGHT	9M	9M	9M	9M	9M	9M
STANDARD ACCESSORIES						
	Battery Charger	Battery Charger	Battery Charger	Battery Charger	Battery Charger	Battery Charger
	Tool Kit	Tool Kit	Tool Kit	Tool Kit	Tool Kit	Tool Kit
	Pump Cover	Pump Cover	Pump Cover	Pump Cover	Pump Cover	Pump Cover
	Spark Plug	Spark Plug	Spark Plug	Spark Plug	Spark Plug	Spark Plug
FEATURES						
ADVANCED FUEL FEEDING SYSTEM	○	○	○	○	○	○
AUTO CHOKE CARBURETOR SYSTEM	○	○	○	○	○	○
OK MONITOR	○	○	○	○	×	×
AUTO WATER-STOP VALVE SYSTEM	○	○	○	○	×	×
WATER COOLED RADIATOR	○	○	×	×	×	×
OILLESS VACUUM PUMP	○	○	○	○	○	○
QUICK VALVE LEVER	○	○	○	○	○	○
OPTION ACCESSORIES						
DIRECT VALVE SRV2000 75B	○	○	○	○	×	×
DIRECT VALVE SRV2000 65B	×	×	×	×	○	○
FLOOD LIGHT PROJECTOR	○	○	○	○	○	○

Diesel Powered Security Pump

SDG series



SDG650

SDG1000

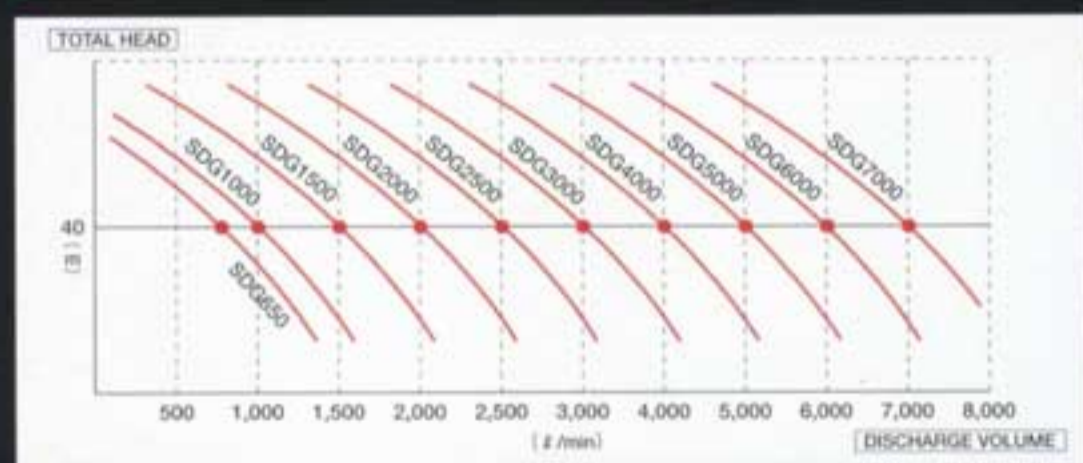
Total solutions for the industrial fire caused due to an abnormal high temperature.

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 Shibaura(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.

SDG Series Performance Curve



Shibaura Diesel Engine
 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 Engine
 SDG4000 / 108KW/PS / 4400cc
 SDG5000 / 108KW/PS / 4400cc
 SDG6000 / 108KW/PS / 4400cc
 SDG7000 / 108KW/PS / 4400cc

- 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.

Shibaura Direct Valve for relay of water

SRV2000-75B
SRV2000-65B



□ Direct Valve Specifications

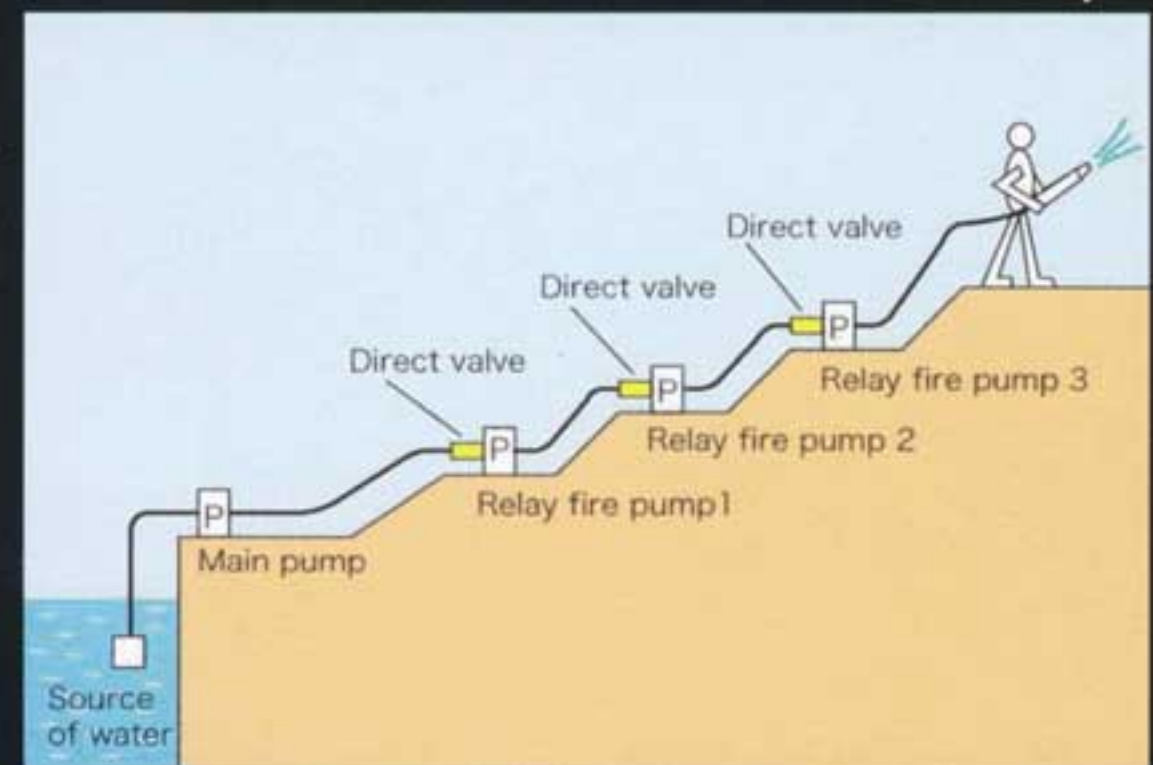
	SRV2000-75B	SRV2000-65B
Suction Port	75mm	65mm
Discharge Port	65mm	
Discharge Pressure	2MPa	
Discharge Volume 75B (MAX/STD)	2000 Liter/min	1700 Liter/min
Discharge Volume 65B (MAX/STD)	2000 Liter/min	1500 Liter/min
Dimension	L235xW194xH180mm	
Weight	4.0kg	

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.

□ Example



OULD-1 Ozone & UV Disinfector for emergency vehicles

OULD-1



The vehicle air disinfector applied with Ozone gas and UV irradiation. OULD-1 help you to find a solution to infection problem in medical / emergency transport vehicles to protect crew members and patients against deadly On Their Way-Acquired infection.

□ OULD-1 Specifications

Ozone Generating Capacity	400mg/hour
Weight	5kg
Dimensions	W520xD85xH220mm
Power Source	AC100V or DC13V
Power Consumption	30-35W

Air intake mode to disinfect the air in the vehicle by using UV lamp and light oxidation catalyst.
(Occupied Vehicle Disinfection)

Fumigation mode to disinfect vehicle's every corner with ozone gas.
(Unoccupied Vehicle Disinfection)



⚠ Important Information

● Improper use of any product may cause serious or fatal injury. Read, understand and follow carefully the operating and safety instructions in your owners manual before using such products.

⚠ We reserve the right to discontinue models or change specifications without notice.



FIRE FIGHTER INDUSTRY SDN BHD
(93041-T)
No. 1A, 10th Mile, Federal Highway,
47301 Petaling Jaya, Selangor Darul Ehsan,
Malaysia.
Tel:603-7962 9999 (30 Lines) Fax:603-7877 9699
E-mail:firefighter@time.net.my
www.firefighter.com.my