

"CHANGE MASTER" Oil Change Pumps

- Powerful pump transfers high viscosity oil. (Up to 800 cSt)
- Highly recommended for motor oil change.
- Safety by-pass valve protects pump

Applications

- Motor oil
- Machine oil
- Heavy oil
- Light oil



*Gasoline must not be used.

Specification

Model		GM-2524H
PUMP	Dia of Hose Inlet	25 mm (1")
	Dia of Hose Outlet	20 mm (¾")
	Connection Thread	Inner Pipe Thread
	Max. Delivery Pressure	0.2 MPa (2 kgf/cm ²)
	Discharge Volume	20 L/min (5 USG/min)
	Applicable Viscosity	800 cst
MOTOR	Voltage	DC 24 V
	Rated Current	16 A
	Output	200 W
	Revolution	6200 rpm
	Rating	25 min
Power Cord		5 m (16 ft)
Net Weight		8.5 kg (19 lbs)
Gross Weight		9.2 kg (21 lbs)
Dimensions L×W×H (mm)		310 × 178 × 253
Packing Unit		1



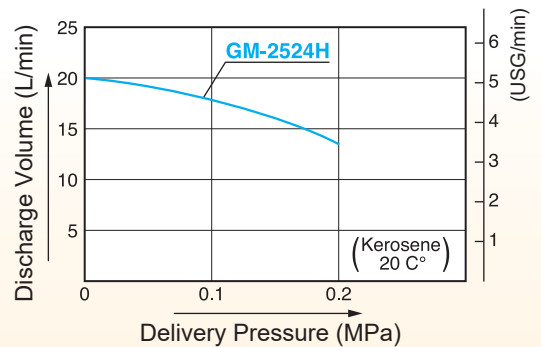
GM-2524H

E-type Hose Set for GM Pumps

- Suction Dia: 25 mm (1") × 2 m (6.5 ft)
- Discharge Dia: 20 mm (¾") × 2 m (6.5 ft)
- 1 Nozzle, 1 Strainer, 2 Joints



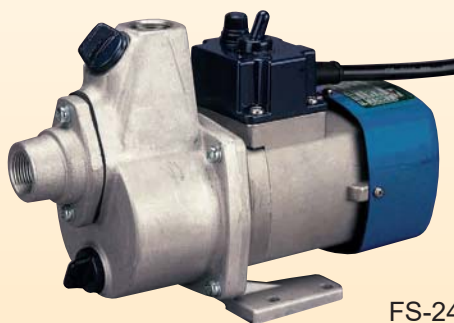
Performance Curve



"FS PUMP" Self-priming Pump for Low Viscosity Oil



*Gasoline must not be used.



FS-24D

Specification

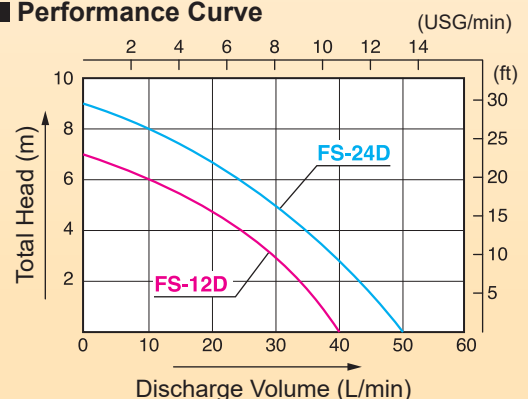
Model	FS-12D	FS-24D
Connection Dia	20 mm (¾")	
Total Head	7 m (23 ft)	9 m (30 ft)
Discharge Volume	40 L/min (10 USG/min)	50 L/min (13 USG/min)
Max. Suction Lift	3 m (9.8 ft)	
Voltage	DC 12 V	DC 24 V
Rated Current	15 A	8 A
Output	80 W	90 W
Revolution	7300 rpm	
Net Weight	4.5 kg (10 lbs) (1 unit)	
Gross Weight	25 kg (55 lbs) (5 units)	
Dimensions L×W×H (mm)	780 × 305 × 227	
Packing Unit	5	

T-type Hose Set for FS Pumps

- Suction Dia: 20 mm (¾") × 2 m (6.5 ft)
- Discharge Dia: 20 mm (¾") × 2 m (6.5 ft)
- 1 Nozzle, 1 Strainer, 2 Joints



Performance Curve



Powerful "FILL PUMP" Only 2 Minutes to Empty 200 L Drum (FR-200)

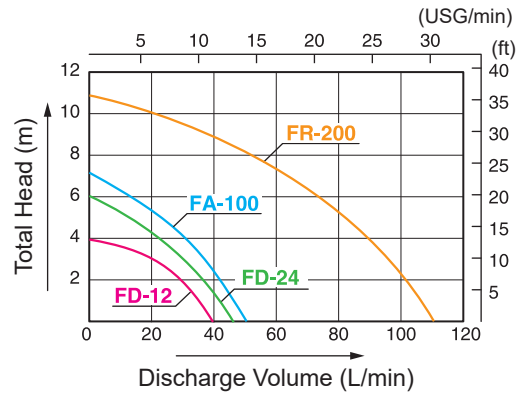
Two stage system of axial flow vane and spiral vane result in an excellent flow rate.

Applications

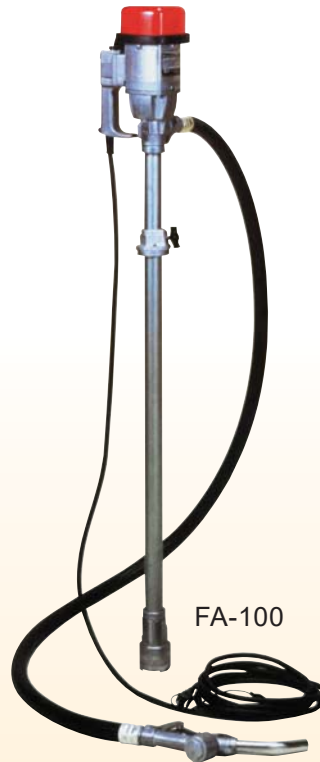
- Low viscosity oil
- Heavy fuel oil A
- Kerosene
- Diesel
- Light oil



Performance Curve



FD-12



FA-100



FR-200

* These pumps are not designed for use with liquids with low flash-point, such as gasoline, etc.

Specification

Model		FD-12	FD-24	FA-100		FR-200	
PUMP	Connection Dia	20 mm (3/4")				32 mm (1 1/4")	
	Connection Thread	Inner Pipe Thread					
	Total Head	4 m (13 ft)	6 m (19 ft)	7 m (23 ft)		11 m (36 ft)	
	Discharge Volume	40 L/min (10 USG/min)	45 L/min (12 USG/min)	50 L/min (13 USG/min)		110 L/min (29 USG/min)	
MOTOR	Type	Enclosed Fan-Cooled Commutator					
	Voltage	DC 12 V	DC 24 V	AC 110 V / 130 V	AC 220 V - 240 V	AC 110 V	AC 220 V - 240 V
	Rated Current	14 A	7 A	2.7 A	1 A	5 A	2.5 A
	Output	80 W	90 W	120 W		200 W	
	Revolution	6000 rpm	6700 rpm	7350 rpm		6200 rpm	
	Rating	Continuous					
	Power Code	Oil-Proof Cord 5 m					
Suction Pipe		920mm				922mm	
Delivery Hose		1 Oil-Proof Rubber Hose (ø20 mm (ø3/4") x 2 m)				1 Oil-Proof Rubber Hose (ø32 mm (ø1 1/4") x 2 m)	
Net Weight		8 kg (17.6 lbs) (1 unit)				12.5 kg (27.6 lbs) (1 unit)	
Gross Weight		20 kg (44.1 lbs) (2 units)				30 kg (66.1 lbs) (2 units)	
Dimensions L×W×H (mm)		1218 × 281 × 157				1218 × 281 × 157	
Packing Unit						2	