



# AUTOPRIME

Specifications for:

Rev09 20-01-05

## Pump Unit

## XF400/436 MP/EP

### Pump Description:

	Metric/European	Imperial/American
Pump Model	XF400/436 MP/EP	XF400/436 MP/EP
Suction Hose Connection	400mm Flange	16" Flange
Delivery Hose Connection	400mm Flange	16" Flange
Maximum Working Pressure	9 Bar	130psi
Standard Shaft Sealing	Double Mechanical Seals	
Lubricant for Mechanical Seals	Oil - Texaco Rando HD 10 or Equivalent	
Alternative Shaft Sealing	Not Available	
Discharge Non Return Valve: Type	Disc Type In Removable Housing	
Design Speed	1500 to 1800 rpm	

### Pump Performance: (with 12m suction hose using water at 20 DegC and ambient temperature at 30 DegC.)

Maximum Flow	2500 m3/h	10,600 US gpm
Maximum Head	68 m	208'
Maximum Solids Dia. (& Length)	100 mm	4"
Operating Speed for Pump Performance Test	1800 rpm	
Performance Curve Number	XF400-436-v5	XF400-436-v5-usa

### Priming System:

Priming System Type	Mechanical with Pressure Differential Control	
Rotary Vane Vacuum Pump Capacity	110 m3/h Max.	65 cfm Max.
Vacuum Pump Lubricant	Oil Texaco SAE30 above 30 deg C or, Texaco Ursatex 10w-30 or equivalent	
Air Emissions Control	Direct to Atmosphere	
Alternative Priming System	Smartprime/Energy Management Control (Suct Press 3.5bar max)	

### Materials of Construction:

Suction Sump	Cast Iron BS 1452 Gr220	Cast Iron
Pump Volute	Cast Iron BS 1452 Gr226	Cast Iron
Impeller	SG Iron BS 2789 700/2	Cast Iron
Front and/or Rear Wear Plate	Cast Iron BS 2789 420/12	Cast Iron
Pump Shaft	Stainless Steel	Chromium Steel
Double Mechanical Seal	Seal: Silicon Carbide, Elastomer: Viton, Metal: Stainless Steel	
Vacuum Pressure Seal Rotating Ring	Chromium Steel with Chrome Oxide coated wear face	
Vacuum Pressure Seal Packing	Graphite Impregnated PTFE	
Discharge Non Return Valve	Nitrile Rubber with Stainless Steel Insert	

### Engine Details:

Make & Model	Selected to customer requirements. Shaft suitable for use with a coupling.	
Cooling System	Water Cooled Recommended	
Power Rating	Max Power Required 330kW @ 2000rpm Refer to SPP Limited	
Operating Speed	Refer to SPP Limited	
Engine Starting Method	Normally 12 or 24 volt electric start	
Fuel Filter Type	Replaceable element type recommended	
Air Filter Type	Replaceable element type recommended	
Fuel Tank Capacity	Size to suit customer requirements	Size to suit customer requirements
Full Load Fuel Consumption	Dependant upon engine selection	Dependant upon engine selection
Full Tank Running Time @ Full Load	Dependant upon tank capacity, engine selection and duty.	

### Chassis Details:

Standard Chassis Type 1	Suitable for skid mounting with or without a noise reduction enclosure	
Optional Chassis Type 2	May also be mounted on road trailer for ease of transport	
Optional Chassis Type 3	Not Applicable	
Lifting Facilities	Delivered on standard pallet for lifting by fork lift or slings for crane lift.	
Shipping Dimensions	Refer to SPP Pumps Ltd.	Refer to SPP Pumps Ltd.
Shipping Weight (Dry)	Refer to SPP Pumps Ltd.	Refer to SPP Pumps Ltd.
Maximum weight with full fuel tank(s)	N/A	N/A
<i>All dimensions and weights are approximate and should be verified by SPP Pumps Limited before use.</i>		



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**AUTOPRIME**  
**XF400-436**

Curve Ref: XF400-436-v5  
Speed: see below  
Suct x Disch: 400 x 400 mm

