

## APPLICATIONS

Ideal for pumping slightly aggressive, non-volatile liquids without fibres or solids in such applications as:

- > Sea water
- > Aquaculture
- > Mild acid solutions
- > Washing systems
- > Hydroponics
- > Desalinated water



## XF Series

XF92S, XF171S, XF221S & XF192S

### Motor Pump

Model Numbers:

71401S, 71101S, 71201S & 71301S

Robust and compact, 1 or 2 stage centrifugal pumps with silicon carbide seals, corrosion resistant componentry and driven by a TEFC motor. Designed for total head duties to 33m and flows to 225 lpm.

All models are fitted with "Thermottection" for closed head pump protection.

Also available in 220 Volt 60Hz single phase.

## WHY CHOOSE THE DAVEY XF SERIES PUMP?

### PUMP

- 1 or 2 stage (single or twin impeller)
- Closed vane impellers
- Stainless Steel pump shaft
- Corrosion resistant casing
- Silicon Carbide Mechanical shaft seal
- O-ring casing seal

### MOTOR

- Davey manufactured
- TEFC with IP55 enclosure
- Class F insulation
- Permanently split capacitor design
- Double contact C3-HTG sealed bearings
- Inbuilt thermal overload protection
- Plastic feet on motor shell

### THERMOTTECTION

Thermottection will automatically stop the pump should the water in the casing reach 85°C. This condition may occur when a fully primed pump is operated without being allowed to discharge water (i.e. closed head operation). Thermottection control will automatically restart the pump when the water temperature drops below 65°C±5°C.

- Manufactured from quality corrosion resistant materials
- TEFC motor corrosion resistant and excludes dust and dirt
- Motor and pump designed for frequent starts
- Quick and easy installation
- Low maintenance
- Easy to service if required
- Protected against pump damage from closed head operation

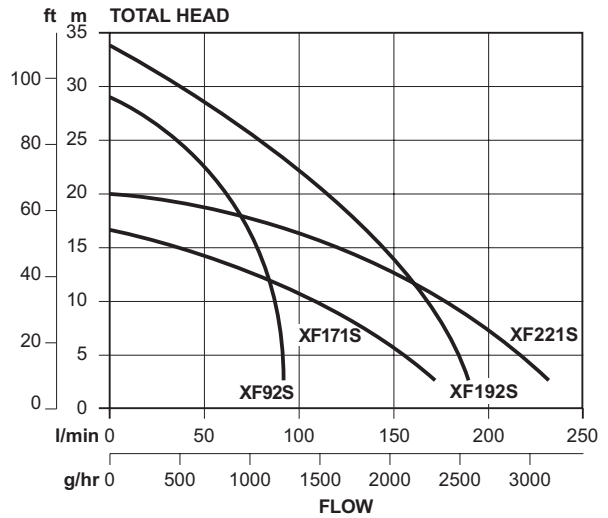
## OPERATING LIMITS

Type	XF92S	XF171S	XF221S	XF192S
Capacities to	98 lpm	175 lpm	225 lpm	190 lpm
Maximum total head	28m	17m	20m	33m
Maximum suction head	7.0m	7.5m	7.5m	7.5m
Maximum water temperature	85°C			
Minimum water temperature	1°C			
Inlet size	1" BSP(F)			
Outlet size	1" BSP(F)	1" BSP(M)	1" BSP(M)	1" BSP(F)
Maximum casing pressure	400kPa	250kPa	250kPa	400kPa

## MATERIALS OF CONSTRUCTION

PART	MATERIAL
Impellers	Glass filled polycarbonate
Lock nut	Glass filled nylon
Pump casing - XF171S & XF221S - XF92S & XF192S	Glass filled Noryl 316 stainless steel
Clamp band	304 stainless steel
Pump shaft	304 stainless steel
Suction cover	Glass filled Noryl
Seal ring (stationary)	Silicon carbide
Seal ring (rotating)	Aluminium oxide
Seal spring	316 stainless steel
O-rings	Nitrile rubber
Diffusers	Glass filled Noryl
Blanking ring - XF92S & XF192S	Glass filled Noryl
Spacer	Glass filled nylon
Priming plug	Glass filled Noryl
Motor shell	Marine grade aluminium
Shell finish	Baked polyester

## HYDRAULIC PERFORMANCE



## ELECTRICAL DATA

Type	XF92S	XF171S	XF221S	XF192S
Supply voltage	220-250V			
Supply frequency	50Hz			
Full load current	3.7A	2.8A	4.5A	5.2A
Locked rotor current	12.0A	12.0A	18.0A	18.0A
Input power (P <sub>1</sub> )	0.84kW	0.78kW	1.05kW	1.15kW
Output power (P <sub>2</sub> )	0.58kW	0.53kW	0.70kW	0.80kW
Enclosure	IP55			
Insulation	Class F			
Starting	P.S.C.			

## INSTALLATION & PRIMING

- Installation with suction lift require a good quality foot valve to avoid loss of prime.
- To prime, fill pump body and suction line through priming plug hole located above suction inlet and replace plug.

## DIMENSIONS

Type	A	B	C	D	E	F	Mounting holes diameter (mm)	Inlet B.S.P.	Outlet B.S.P.	Net Weight (kg)
XF92S	325	220	195	100	125	100	10 @ 140 centres	1" F	1" F	7.2
XF171S	325	215	193	100	126	100		1" F	1" M	6.7
XF221S	350	215	193	100	126	100		1" F	1" M	8.3
XF192S	350	220	195	100	125	100		1" F	1" F	8.8

All dimensions in mm unless otherwise stated.

