



Experts in water.

DAVEY

APPLICATIONS

Ideal for:-

- Average homes with modern appliances to large double storey homes
- Domestic water supply
- Pressure boosting
- Automatic water transfer



Davey® XJ Home Pressure System

Model Numbers: XJ50P, XJ70P & XJ90P

Economical, compact 50, 70 and 90lpm home pressure systems driven by a single stage jet assisted centrifugal pump, with preset pressure switch included.

Available as pump only model or with an 8 litre tank or an 18 litre tank.

Pump Only	TANK OPTIONS	
	8P	18P
XJ50P	XJ50P8	XJ50P18
XJ70P	XJ70P8	XJ70P18
XJ90P	XJ90P8	XJ90P18

WHY CHOOSE THE Davey XJ Home Pressure System?

PUMP

Single stage jet assisted centrifugal with closed vane impeller.

Brass pump shaft sleeve.

Internal suction side check valve fitted.

Mechanical shaft seal.

Pressure switch control with adjustable cut-in and cut-out pressure.

MOTOR

Davey manufactured.

2 pole, 2850rpm, 50Hz.

TEFC with IP55 enclosure.

Class F insulation.

Permanently split capacitor design.

Double contact sealed C3-HTG rated ball bearings.

Protected against both high operating temperatures and high current by a built-in automatically resetting thermal overload.

TANK

Captive heavy duty butyl diaphragm meets FDA (USA), Watermark (Aust), WRAS (UK) and CE requirements for potable water.

Fully lined water cavity.

Benefits

- Manufactured from highest quality corrosion resistant materials
- Compact base mounting for quick and easy installation
- Fully adjustable pressure switch allows for installation adjustments
- TEFC motor-corrosion resistant and excludes dust and dirt
- Motor and pump designed for frequent starts
- Every tank and pump unit individually tested to guarantee reliable operation
- Low maintenance
- Easy to service if required



OPERATING LIMITS

Type	XJ50P	XJ70P	XJ90P
Capacities to	50 lpm	70 lpm	90 lpm
Maximum total head	46m	48m	46m
Cut-in pressure (factory setting)	180kPa	210kPa	210kPa
Cut-out pressure (factory setting)	390kPa	420kPa	350kPa
Maximum liquid temperature	50°C		
Maximum ambient temperature	55°C		
Maximum suction lift	7m		
Inlet size (BSP)	1" F	1¼" F	1¼" F
Outlet size (BSP)	1" F	1" F	1" F

MATERIALS OF CONSTRUCTION

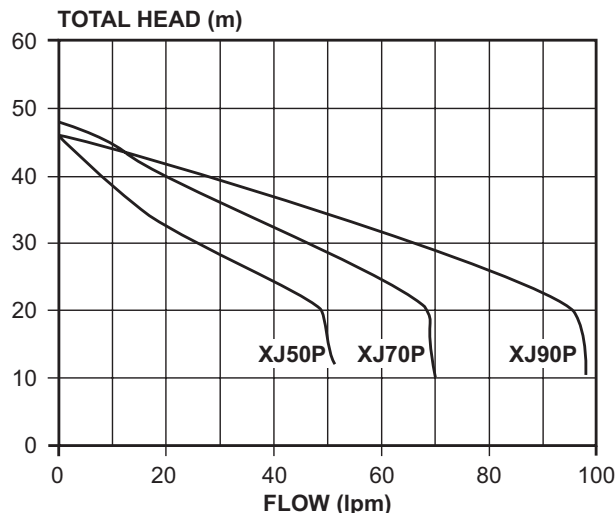
PART	MATERIAL
Impellers	Glass filled polycarbonate
Pump casing	Glass filled noryl
Pump shaft sleeve	Brass
Internal check valve	Delrin
Internal check valve spring	Stainless spring steel
Jet and Venturi	Acetal
Inlet & outlet ports	Glass filled noryl
Seal ring (stationary)	Carbon
Seal ring (rotating)	Ceramic
Seal spring	304 stainless steel
Orings	Nitrile rubber

ELECTRICAL DATA

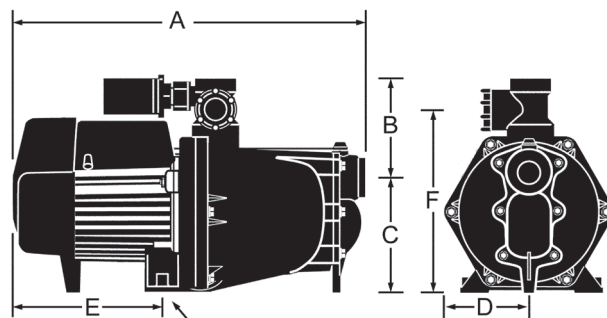
Type	XJ50P	XJ70P	XJ90P
Supply Voltage	220-240V		
Supply frequency	50Hz		
Input power (P ₁)	0.84kW	1.15kW	1.4kW
Output power (P ₂)	0.56kW	0.8kW	1.1kW
Full load current	3.6A	5.1A	6.6A
Locked rotor current	12.0A	18.0A	28.0A
Starting	P.S.C.		
Insulation class	Class F		
IP rating	IP55		

INSTALLATION & PRIMING

- On installations with suction lifts over 1m, a good quality foot valve should be fitted. In this case the in-built check valve must be removed from the suction inlet before installing suction piping.
- The system is primed by filling the pump and suction line with water through the priming port, and replacing priming plug prior to switching on.

HYDRAULIC PERFORMANCE

DIMENSIONS (mm)

Type	A	B	C	D	E	F	Inlet BSP	Outlet BSP	Net Weight (kg)
XJ50P	430	124	146	102	185	226	1" F	1" F	9.0
XJ70P	455	124	146	102	210	226	1¼" F	1" F	11.0
XJ90P	505	124	146	102	260	226	1¼" F	1" F	14.0



2 x 10 Ø holes @ 140 centres