

# PRESSURE SYSTEMS WITH BASE MOUNTING

**Model Numbers:**  
**Build Prefix:**

**Dynajet® X50, X70 & X90**  
**72531, 72731 & 72931**

DEPEND ON  
**DAVEY**

**WATER PRODUCTS**



## DYNAJET® PRESSURE SYSTEMS

### PRODUCT DESCRIPTION

Economical, compact 50, 70 and 90 lpm home pressure systems driven by a single stage jet assisted centrifugal pump. Base mounted systems include Supercell 40P pressure vessel and pressure switch all mounted on one convenient base.

### APPLICATIONS

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

### DESIGN FEATURES

#### PUMP

Single stage jet assisted centrifugal with closed vane impeller.  
303 stainless steel pump shaft.  
Internal suction side check valve fitted.  
Mechanical shaft seal.  
Oring casing seals.  
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

|                                    | X50    | X70      | X90      |
|------------------------------------|--------|----------|----------|
| Capacities to                      | 50lpm  | 70lpm    | 90lpm    |
| 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   | 1 1/4" F | 1 1/4" F |
| Outlet size (BSP)                  | 1" F   | 1" F     | 1" F     |



# TECHNICAL SPECIFICATIONS

## MATERIALS OF CONSTRUCTION

| PART                        | MATERIAL                   |
|-----------------------------|----------------------------|
| Impellers                   | Glass filled polycarbonate |
| Pump casing                 | Glass filled noryl         |
| Pump shaft                  | 303 stainless steel        |
| 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             |
| Tank shell                  | Steel                      |
| Tank finish                 | Polyurethane enamel        |
| Diaphragm                   | Butyl rubber               |
| Tank liner                  | Virgin polypropylene       |
| Tank inlet                  | Stainless steel            |
| System base                 | Noryl                      |

## ELECTRICAL DATA

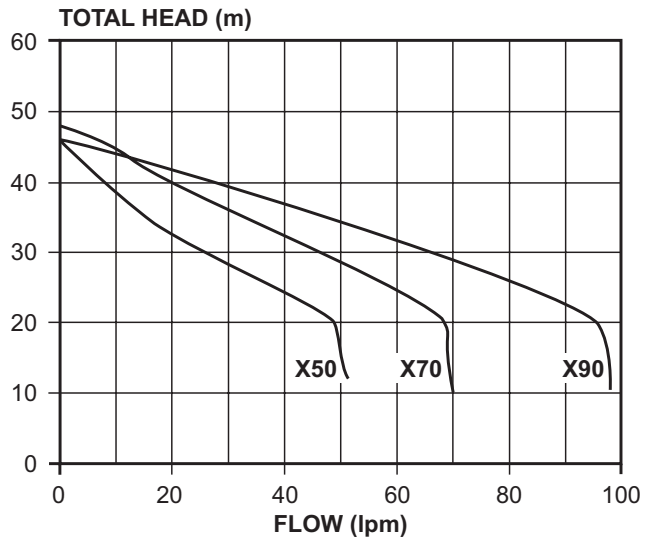
|                                | X50      | X70    | X90   |
|--------------------------------|----------|--------|-------|
| Supply Voltage                 | 220-240V |        |       |
| Supply frequency               | 50Hz     |        |       |
| Input power (P <sub>1</sub> )  | 0.84kW   | 1.15kW | 1.4kW |
| Output power (P <sub>2</sub> ) | 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     |        |       |



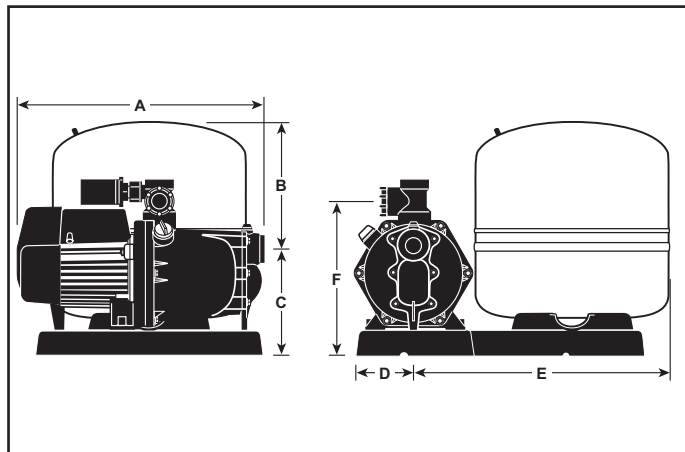
## INSTALLATION & PRIMING

- On installations with suction lifts over 1m a good quality foot valve or non-return valve should be fitted to the suction pipe.
- 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



| Model      | A   | B   | C   | D   | E   | F   | Inlet BSP | Outlet BSP | Net Weight (kg) |
|------------|-----|-----|-----|-----|-----|-----|-----------|------------|-----------------|
| <b>X50</b> | 435 | 275 | 200 | 100 | 530 | 285 | 1" F      | 1" F       | 21.5            |
| <b>X70</b> | 460 | 275 | 200 | 100 | 530 | 285 | 1 1/4" F  | 1" F       | 23.0            |
| <b>X90</b> | 505 | 275 | 200 | 100 | 530 | 285 | 1 1/4" F  | 1" F       | 28.0            |

All dimensions in mm unless otherwise stated.

DEPEND ON  
**DAVEY**

**WATER PRODUCTS**

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