

PRESSURE SYSTEMS WITH PRESSCONTROL
Model Numbers: XJ350PC, XJ50PC & XJ70PC
Build Prefix: 72151PC, 72501PC & 72701PC

DEPEND ON
DAVEY



Model XJ70PC

XJ PRESSURE SYSTEMS

PRODUCT DESCRIPTION

Economical, compact 35, 50 and 70 lpm home pressure systems driven by a single stage jet assisted centrifugal pump. This unit features a TEFC motor and comes fitted with a constant flow control device.

APPLICATIONS

- Ideal for small to large homes
- Domestic water supply
- Pressure boosting
- Automatic water transfer
- Applications where "Cycling" must be avoided or where pump may have interrupted water supply
- Sand spears
- Suctions lifts to 7m (XJ350PC 6m)
- Higher pressure requirements

FEATURES & BENEFITS

Single stage centrifugal pump with closed vane impeller and jet assist

- Compact
- High pressure

Made from corrosion resistant engineering plastic materials

- Long service life
- Low maintenance

Vertical discharge

- Easy installation

Davey manufactured TEFC permanently split capacitor motor

- Resistant to vermin, dust and dirt
- Suitable for frequent starts

Automatic resetting motor overload

- Protects the motor in the event of blockage or voltage supply problems

Double contact seal, C3 rated, high temperature grease packed bearings

- Long service life

Fitted with both suction and discharge check valves

- Added pump protection
- Reduces parts required for installation

Presscontrol with LED status lights

- Reduces pump cycling
- Protected against dry running
- Easy to trouble shoot

All models come fitted with a 2m power lead with 10 amp Australian three pin plug for ease of connection to power supply.

OPERATING LIMITS

| | | |
|--------------------------|----------------|----|
| Capacities to | 70lpm @ 220kPa | |
| Max. constant flow rate | 0.6 lpm | |
| Max. total head | 48.0 m | |
| Cut-in pressure | 150kPa | |
| Max. liquid temperature | 50°C | |
| Max. ambient temperature | 50°C | |
| Max. suction lift | XJ350PC | 6m |
| | XJ50PC | 7m |
| | XJ70PC | 7m |



TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

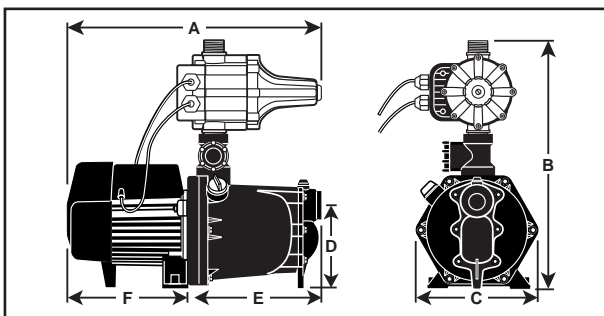
| PART | MATERIAL |
|------------------------------------|---|
| Impellers | Glass filled polycarbonate |
| Pump casing (XJ50/70PC) | Glass filled noryl |
| Pump casing (XJ350PC) | Glass filled nylon |
| Pump shaft sleeve (except XJ350PC) | Brass |
| Pump shaft (XJ350PC only) | 304 Stainless Steel |
| Internal check valve | Delrin |
| Check valve spring | 304 stainless steel |
| Seal ring (stationary) | Carbon |
| Seal ring (rotating) | Ceramic |
| Seal ring elastomer | Nitrile rubber |
| Seal spring | 304 Stainless Steel |
| Orings | Nitrile rubber |
| Jet | Acetal |
| Venturi/coverplate (XJ350PC) | Glass filled noryl |
| Venturi (XJ50PC & XJ70PC) | Acetal |
| Priming plug | Glass filled polypropylene |
| Motor shell | Marine grade aluminium |
| Motor shell finish | Baked Polyester |
| Presscontrol housing | Glass fibre reinforced polyamide |
| Presscontrol control box | Self extinguishing thermoplastic resin VO |

ELECTRICAL DATA

Supply voltage
Supply frequency
Speed
Input power (P₁)
Output power (P₂)
Full Load Current
Locked Rotor Current
Starting
Insulation class
IP Rating
Cut-in pressure

| XJ350PC | XJ50PC | XJ70PC |
|-----------------|--------|--------|
| 220-240V | | |
| 50Hz | | |
| 2 pole, 2850rpm | | |
| 0.62kW | 0.84kW | 1.15kW |
| 0.45kW | 0.58kW | 0.8kW |
| 2.8A | 3.6A | 5.1A |
| 12.0A | 12.0A | 18.0A |
| P.S.C. | | |
| Class F | | |
| 55 | | |
| 150kPa | 150kPa | 150kPa |

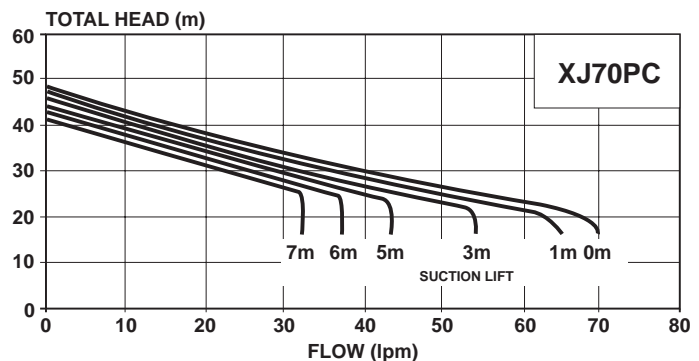
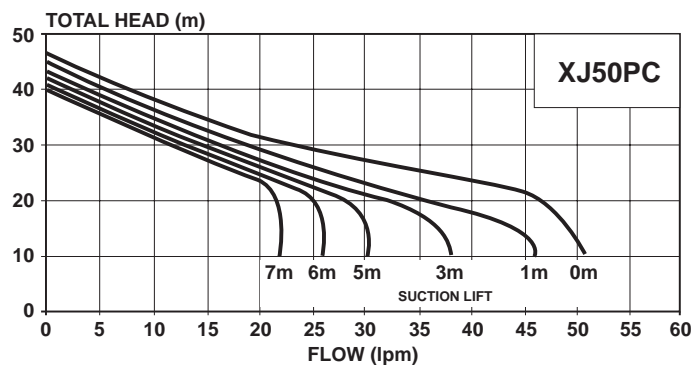
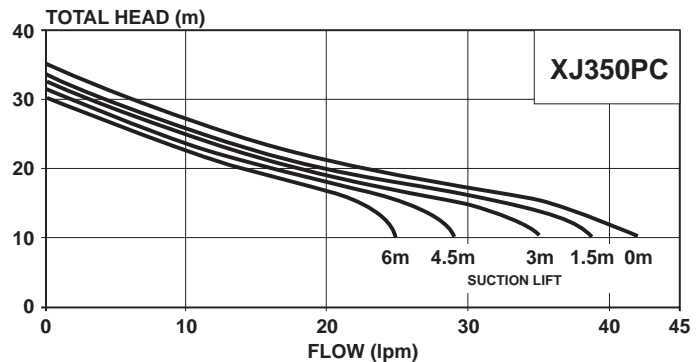
DIMENSIONS



| Model | A | B | C | D | E | F | Inlet B.S.P. | Outlet B.S.P. | Net Weight (kg) |
|---------|-----|-----|-----|-----|-----|-----|--------------|---------------|-----------------|
| XJ350PC | 435 | 260 | 200 | 100 | 515 | 285 | 1" F | 1" F | 19.5 |
| XJ50PC | 460 | 260 | 200 | 100 | 515 | 285 | 1" F | 1" F | 21.0 |
| XJ70PC | 505 | 260 | 200 | 100 | 515 | 285 | 1" F | 1" F | 26.0 |

All dimensions in mm unless otherwise stated.

HYDRAULIC PERFORMANCE



Note: Performance curves do not include head loss through Presscontrol.

INSTALLATION & PRIMING

- On installations with suction lifts over 1m, a good quality foot valve should be fitted to avoid loss of prime. In this situation the internal check valve must be removed.
- The system is primed by removing the priming plug, filling with water and replacing the priming plug prior to switch on.

This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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