



XJ50T & XJ70T

XJ90T

DAVEY XJ Series

Model Numbers:
XJ50T, XJ70T, XJ90T

GUARANTEE
2 YEARS

APPLICATIONS

Ideal for household and domestic water supply, farming and agricultural water systems, irrigation and turf watering systems and automatic general water transfer.

Tested in compliance with
AS/NZS 4020
for use in contact with safe drinking water

SINGLE STAGE JET ASSISTED PUMP WITH CONTROLLER

FEATURES & BENEFITS

The XJ Pressure System consists of an XJ pump fitted with a Torrium2 controller. The Torrium2 is supplied connected electrically to the XJ pump motor for Easy non-tradesmen installation and assembly.

The combination of the high pressures supplied by the jet assisted XJ pump and constant flow control provided by the Torrium2 allows a strong comfortable shower from a pump that does not cycle, plus the reliability of adaptive technology.

The complete Everyday Series Pressure System is compact and quiet providing easy installation (especially where space is at a premium) and non-intrusive operation.

All parts of the entire system that are in contact with the water are manufactured from safe, corrosion resistant materials allowing for use on a variety of water qualities.

Compliance with the strict requirements of ISO 9001.2000 quality standards ensures consistency of quality of the system.

PUMP

- Single stage centrifugal pump with closed vane impeller and jet assist, providing compact design and high pressure performance
- Made from corrosion resistant engineering plastic materials ensures long service life, low maintenance and reliable water quality
- Our high quality, low-drag mechanical shaft seal means a long life and reliable starting

TORRIUM2 CONTROLLER

For more information visit daveywater.com

EASE OF INSTALLATION

For ease of installation, the plumbing can be connected to either the vertical or the right angle discharge outlet, which can rotate a full 360°. A spanner, sized to fit the coupling, is included in the box. Also, for increased draw off, an optional pressure tank, up to 18 litres, can be mounted on the vertical outlet.

ELECTRICAL CONNECTION

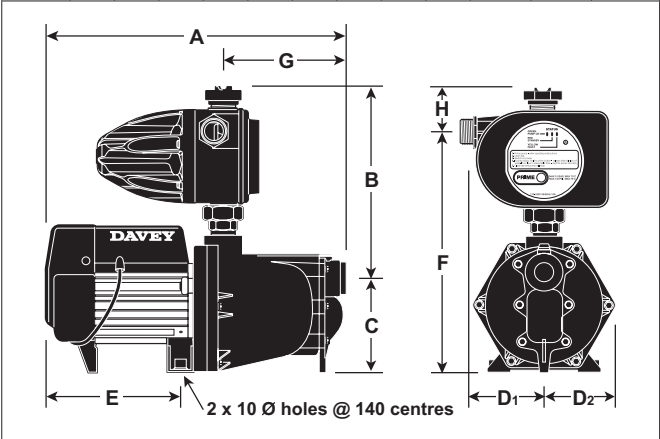
For easy installation, Torrium2 comes with a 2 metre long power lead, fitted with an Australian three pin plug.

| OPERATING LIMITS | |
|-----------------------------|--------|
| Maximum system pressure | 480kPa |
| Capacities to | 90 lpm |
| Maximum total head | 48m |
| Maximum suction head | 7m |
| Maximum ambient temperature | 50°C |
| Maximum water temperature | 50°C |
| Minimum water temperature | 1°C |

Torrium2 cut-in pressure is normally 80% of the pumps last shut-off head.

| MATERIALS OF CONSTRUCTION | |
|---------------------------|--------------------------------|
| PART | MATERIAL |
| Pump | |
| Impellers | Glass filled polycarbonate |
| Pump casing | Glass filled noryl |
| Pump shaft | 303 stainless steel |
| Seal ring (stationary) | Ceramic |
| Seal ring (rotating) | Carbon (synthetic) |
| Seal spring | 304 stainless steel |
| O-rings | Nitrile rubber |
| Jet and venturi | Acetal |
| Priming plug | Glass filled polypropylene |
| Motor shell | Marine grade aluminium |
| Motor shell finish | Baked polyester |
| Torrium2 | |
| Housing | Glass fibre reinforced nylon |
| Pressure tank diaphragm | Santoprene 87 |
| Pressure tank springs | Molybond coated tempered steel |
| Sensor plate | 316 Stainless Steel |
| Inlet union | Glass fibre reinforced nylon |
| O-rings | Nitrile |

| DIMENSIONS (mm) | | | | | | | | | | | | |
|-----------------|-----|-----|-----|----------------|----------------|-----|-----|-----|----|----------|--------|-----------------|
| Model | A | B | C | D ₁ | D ₂ | E | F | G | H | Inlet | Outlet | Net Weight (kg) |
| XJ50T | 430 | 265 | 146 | 115 | 102 | 185 | 335 | 185 | 75 | 1" F | 1" M | 10 |
| XJ70T | 455 | 265 | 146 | 115 | 102 | 210 | 335 | 185 | 75 | 1" F | 1" M | 12 |
| XJ90T | 505 | 265 | 146 | 115 | 102 | 260 | 335 | 185 | 75 | 1 1/4" F | 1" M | 15 |



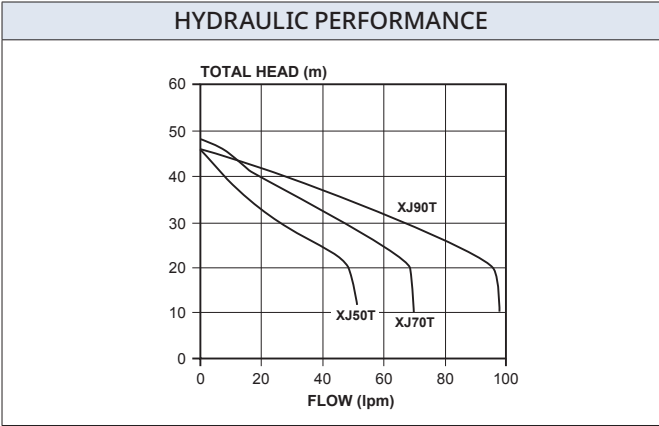
| ELECTRICAL DATA | | | |
|----------------------|--------------|--------|-------|
| Model | XJ50T | XJ70T | XJ90T |
| Supply Voltage | 220-240V ±6% | | |
| Supply frequency | 50Hz | | |
| Phase | Single | | |
| Speed | 2850rpm | | |
| Full load current | 3.6A | 5.1A | 6.6A |
| Locked rotor current | 12A | 18A | 28A |
| Input power (P1) | 0.84kW | 1.15kW | 1.4kW |
| Output power (P2) | 0.56kW | 0.8kW | 1.1kW |
| Enclosure class | IP55 | | |
| Insulation class | Class F | | |
| Starting | P.S.C. | | |

Note: All performance at 240V 50Hz

| TORRIUM2 | |
|----------------------|---------------|
| Voltage | 110V-240V±10% |
| Phase | Single |
| Hz | 50 / 60 |
| IP rating | 56 |
| Maximum load current | 10A |
| Maximum motor size* | 1.8kW |
| Surge protection | Varistor |

*At 240V input

| INSTALLATION AND PRIMING |
|---|
| <ul style="list-style-type: none">Installations with suction lift require a good quality foot valve to avoid loss of prime - remove in-built check valve.To prime, fill pump body and suction line through priming plug hole located above suction inlet and replace plug. |



| HIGH PRESSURE INSTALLATION AND NOTES |
|---|
| <p>XJ pressure systems are intended to source water from wells, tanks, creeks, rivers or other low pressure water supplies. In some cases, XJ pumps may be required to be installed taking water directly from mains or municipal water sources.</p> <p>In such circumstances all applicable local plumbing code requirements must be followed.</p> <p>In addition the following limits apply to the XJ system:-</p> <ul style="list-style-type: none">For TOTAL system pressures of 600 kPa, the standard XJ system with or without Supercell 8C or 18C may be used provided the mains or municipal pressure does not exceed 100 kPa.For mains or municipal pressures exceeding 100 kPa, a break tank system is required or use a Davey HS system. <p>For further details consult the XJ Installation & Operating Instructions.</p> |