DAVEY

PROUDLY AUSTRALIAN SINCE 1934

BT 20-30

Economical, Quiet, Easy to Install

AIRALEAVE HOME PRODUCTS

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WHY CHOOSE THE DAVEY BT Home Pressure System?

WATER PRESSURE SYSTEM

The Davey BT booster pressure system consists of a robust centrifugal pump fitted with the intelligent Davey Torrium®2 water pressure controller to deliver boosted water pressure to your home or other application. Consumers can enjoy strong and seemingly constant water pressure due to Torrium®2's constant flow operation.

Due to large water pathways, Torrium®2 operates with a lower head loss than comparable water pressure controllers to provide superior hydraulic performance with less wasted energy.

TORRIUM®2 CONTROLLER

Pressure Boosting

Torrium®2 boosts low or fluctuating mains water pressure to give you strong, even water pressure for your comfort and convenience. Torrium®2 can also pressure boost water from rainwater tanks.

Constant Flow and Even Water Pressure

To prevent annoying fluctuations in water temperature during showers, Torrium®2 uses its intelligence to provide households with constant flow to provide even water pressure. It does this with its innovative pressure and flow sensors to start the pump on a pressure drop and to stop it on low flow (~0.26 gpm). This avoids pump cycling when there is continuing household demand for water.

Quick Cut-in for Even Pressure

To give you strong pressure right from the start, Torrium®2 is designed to cut in quickly when it senses demand for water. It cuts in when the pressure has dropped to 80% of the previous top (shut-off) pressure. Torrium®2 automatically sets this cut-in pressure each time the pump stops. In doing so, Torrium®2 automatically adapts to variations in pump performance or site conditions.

BT with Torrium®2 Home Pressure System

OPERATING LIMITS	
Capacities to	38 gpm
Maximum total head to	50 psi
Cut-in pressure – Adapts to 80% of last shut-off head pressure	
Cut-out flow rate	0.26 GPM
Maximum liquid temperate (Torrium®2)	158° F
Maximum ambient temperature (Torrium®2)	120° F
Maximum suction lift	25'
Inlet size	1¼" F
Outlet size	1" M
Maximum pump casing pressure	116 psi
Maximum system pressure	100 psi

MATERIALS OF CONSTRUCTION	
Part	**Material**
Impellers	304 stainless steel
Lock nut	304 stainless steel
Pump casing	304 stainless steel
Pump backplate	304 stainless steel
Pump shaft	316 stainless steel
Neckrings	Teflon
Seal ring (stationary)	Ceramic
Seal ring (rotating)	Carbon (synthetic)
Seal spring	304 stainless steel
Orings	Nitrile rubber
Stage body	304 stainless steel
Torrium®2 check valve Stem assembly Spring Seal	Nylon 304 stainless steel Nitrile
Torrium®2 body	Glass filled nylon
Priming plug	304 stainless steel
Motor shell	Marine grade aluminum
Lantern / DE endshield	Marine grade aluminum
Shell & lantern bracket finish	Baked polyester

INSTALLATION AND PRIMING

- On installations with suction lifts a good quality foot valve should be installed
- 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
- The PRIME button on the Torrium®2 unit should be held in while the pump is establishing prime

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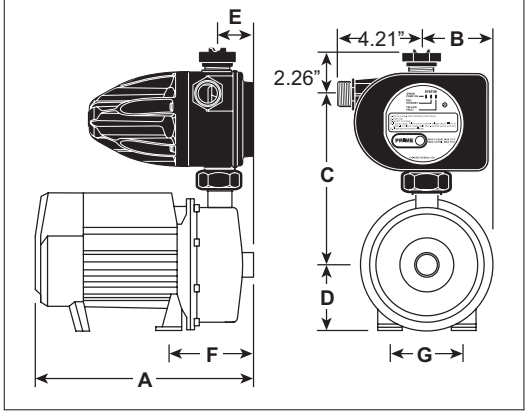
3 YEAR WARRANTY

Approval Code P1-0216-330

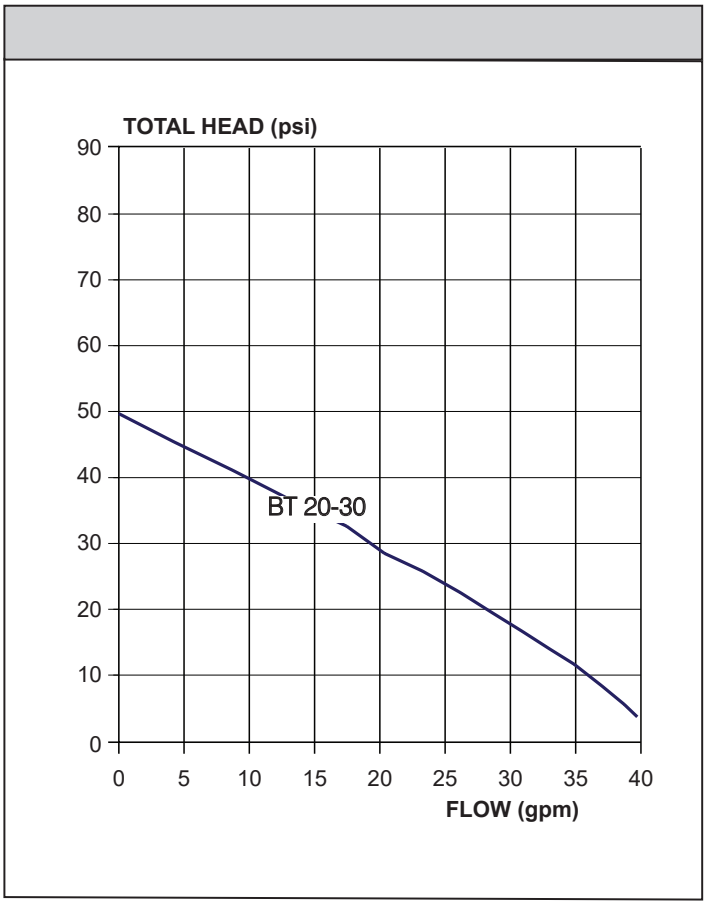
Model	A	B	C	D	E	F	Inlet	Outlet	Net Weight (lbs)	G Hole Diameter @ Centres	
BT20-30	17.40	3.35	8.00	3.54	5.31	8.85	1¼" F	1" M	27.30	0.27	3.93

DIMENSIONS (inches)



ELECTRICAL DATA

Model	BT20-30
Supply voltage/phase	120V/1
Supply frequency	60hz
Input power (P1) (kW)	0.98
Output power (P2) (kW)	0.78
Full load current (A)	8.2
Locked rotor current (A)	38.00
Starting	PSC
Insulation class	Class F
Horsepower	1hp



Add incoming pressure to maximum pump boost for shut off pressure.