SUBMERSIBLE VORTEX PUMPS Model Numbers: D150V, DT15V, DT22V, DT37V, DT55V & DT75V

DAVEY

WATER PRODUCTS



SUMP PUMPS

PRODUCT DESCRIPTION

High flow vortex submersible sump pumps with a choice of single or three phase motors.

APPLICATIONS

- Grey water pumping
- Sump emptying
- Septic effluent disposal
- Water transfer
- Pumping of light slurries and factory waste

FEATURES & BENEFITS

Corrosion resistant 304 stainless steel shaft, motor shell and fasteners

- Long service life
- Attractive, lasting appearance

Open impeller, vortex, centrifugal design

- Able to pump soft solids in suspension
- Less susceptible to blockage
- Capable of higher flows

Double mechanical shaft seal in oil bath with hard faced silicon carbide / ceramic seal on pump side

- Added motor protection
- Long service life

Sand slinger lip seal

- Added protection
- Long service life

Automatic resetting thermal overload

• Protected against overloading

HO7RNF oil resistant leads, 10 metres long with bared wire lead ends

- Easy to connect to power supply terminations
- Longer life in dirty water

Mounting base fitted

 For a firm and stable positioning during installation and operation

Slide rail kits available

 For easy removal and reinstallation

OPERATING LIMITS

Capacities to 2500 lpm
Heads to 13.5 m
Max. submergence 25 m
Max. operating temperature 40°C
Max. soft solids up to 80% of discharge size

Suitable Fluids

Clean or "grey water" of neutral pH containing up to 20% small soft solids or 1% fine solids. Some wear should be expected while pumping hard solids in suspension.

TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PART

MATERIAL

Impeller Cast iron Pump casing Cast iron Outlet Cast iron

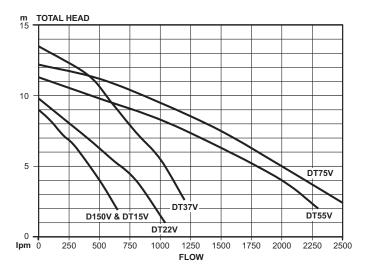
Shaft seal Silicon carbide/ceramic pump side motor side Carbon/ceramic Mechanical seals in captive oil bath with oil

seal

Shaft seal elastomer Nitrile rubber 304 stainless steel Pump shaft Orings Nitrile rubber Motor shell 304 stainless steel Handle 304 stainless steel **Fasteners** 304 stainless steel

Float & power supply HO7RN-F oil resistant leads

HYDRAULIC PERFORMANCE



ELECTRICAL DATA

Insulation class IP rating Electrical lead

Common to all models			
Class F			
X8			
H07RNF x 10m length			

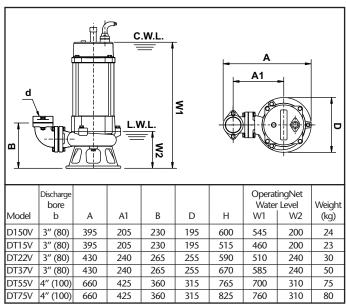
Supply voltage 50Hz - Phase Speed Output power Full load current Locked rotor current Starting

D150V
220-240V
Single
2 pole, 2850rpm
1.5kW
13.0A
65.0A
CSIR

Supply voltage 50Hz - Phase Speed Output power Full load current Locked rotor current Starting

DT15V	DT22V	DT37V	DT55V	DT75V	
380-415V					
Three					
4 pole, 1450rpm					
1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	
3.0A	4.5A	7.5A	12.3A	16.5A	
22A	31.5A	49A	66A	78A	
DOL					

DIMENSIONS



All dimensions in mm unless otherwise stated.

INSTALLATION & PRIMING

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation. Don't use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

Don't pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Keep your pump clean, particularly in situations where lint, hair or fibrous materials may get bound around the pump shaft. Regular inspection and cleaning will extend pump life.

Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don't run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.



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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. ® Davey is a registered trademark of Davey Water Products Pty Ltd. © Davey Water Products Pty Ltd 2011