

# SUBMERSIBLE DRAINAGE PUMPS

Model Numbers: **D42A, D42M, D42A/B**

DEPEND ON  
**DAVEY**

**WATER PRODUCTS**



## SUMP PUMPS

### PRODUCT DESCRIPTION

Submersible sump pump with twin impeller design for higher pressure, up to 32m head

### APPLICATIONS

- Lawn & garden irrigation
- Sump emptying to higher heads
- Treated effluent disposal
- Water transfer from wells
- Model D42A/B specially designed for non potable rainwater applications

"A" suffix models equipped with present length automatic float switch fitted for automatic operation.

### FEATURES & BENEFITS

Double mechanical seal, one in oil bath on motor and extra mechanical seal on pump

- Superior reliability
- Long service life

Corrosion resistant 304 stainless steel shaft, motor shell and fasteners

- Long service life

D42A/B has cast 316 stainless steel motor caps and super tough engineered thermo plastic pump casing

- Outstanding corrosion resistance
- Long life

Centrifugal multistage twin impeller design

- Higher pressures & increased efficiency

Closed vane impellers with long engagement "D" drives

- Positive operation
- Long service life

D42A & D42M have labyrinth impeller neck rings

- Maintain pump performance
- Less susceptible to wear

D42A/B has patented independently floating neck rings

- Outstanding pump performance
- Long pump life

Corrosion resistant hard wearing polycarbonate impellers

- Long service life

Corrosion resistant stainless steel fine mesh suction strainer with large surface area

- Prevents blockages of the pump by solids

In-built automatic thermal overload

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

HO7RNF oil resistant leads, 10 metres long with 3 pin power plug

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

### OPERATING LIMITS

	D42A,M	D42A/B
Capacities to	110lpm	130lpm
Max. total head	26m	32m
Max. submergence		12m
Max. pumped water temperature		40°C
Max. soft solids		1.9mm O.D.
Outlet size (BSP)		1" F

#### Suitable Fluids

Clean water of neutral pH containing up to 1% small solids. Some wear should be expected while pumping hard solids in suspension.

# TECHNICAL SPECIFICATIONS

## MATERIALS OF CONSTRUCTION

PART	MATERIAL
Impeller	Glass filled polycarbonate
Lock nut	304 stainless steel
Pump casing	Cast iron - FC200 (D42A&M)
Diffuser and blanking ring	Glass filled polycarbonate (D42A/B)
Mechanical seal - pump	Glass filled noryl
Mechanical seal - motor	Carbon/ceramic
Shaft seal elastomer	Silicon carbide/ceramic in oil bath
Pump shaft	Nitrile rubber
Orings	304 stainless steel
Motor shell	Nitrile rubber
Bottom bearing housing	304 stainless steel
Upper motor cover	Cast iron - FC200 (D42A&M)
Handle	Cast 316 stainless steel (D42A/B)
Fasteners	Cast iron - FC200 (D42A&M)
Float & power supply leads	Cast 316 stainless steel (D42A/B)
	304 stainless steel
	304 stainless steel
	HO7RN-F oil resistant

## ELECTRICAL DATA

Supply voltage	220-240V
Supply frequency	50Hz single phase
Speed	2 pole, 2850rpm
Full load current	4.0A
Locked rotor current	14A
Input power (P <sub>1</sub> )	0.94kW
Output power (P <sub>2</sub> )	0.60kW
IP rating	X8
Insulation class	Class F
Starting	P.S.C.
Lead	10m long

## 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.

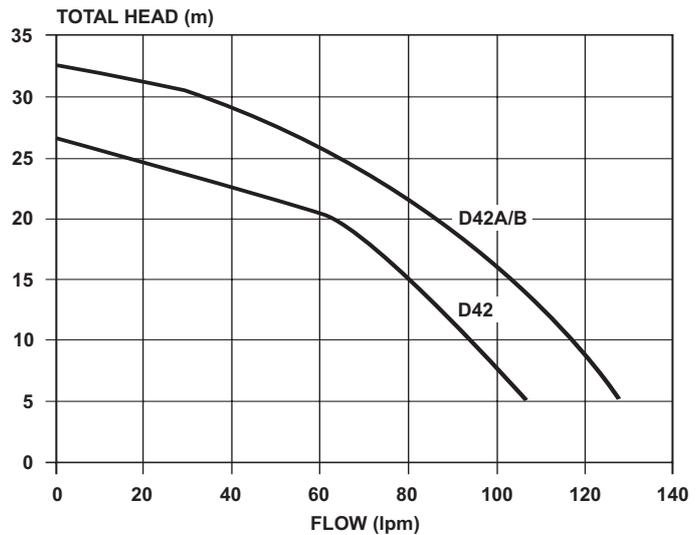
This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and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

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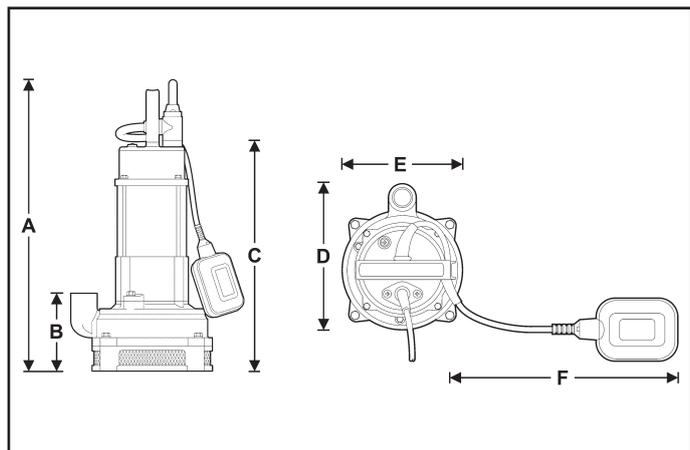
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## HYDRAULIC PERFORMANCE



## DIMENSIONS



Model	A	B	C	D	E	F	Outlet B.S.P.	Net Weight (kg)
D42A	475	130	370	235	195	330	1" F	20
D42M	475	130	370	235	195	330	1" F	19.5
D42A/B	475	130	370	235	195	330	1" F	18.5

All dimensions in mm unless otherwise stated.



Visit Davey on-line for further information  
[davey.com.au](http://davey.com.au)

### Davey Products Pty Ltd

Member of the GUD Holdings Ltd Group  
**ABN 18 066 327 517**  
**Head Office and Manufacturing**  
6 Lakeview Drive,  
Scoresby, Australia 3179  
Ph: +61 3 9730 9222  
Fax: +61 3 9753 4100  
Website: [www.davey.com.au](http://www.davey.com.au)  
**Customer Service Centre**  
Ph: 1300 367 866  
Fax: 1300 369 119  
E-mail: [sales@davey.com.au](mailto:sales@davey.com.au)  
**Interstate Offices**  
Sydney - Brisbane - Adelaide  
Perth - Townsville

### International

6 Lakeview Drive,  
Scoresby, Australia 3179  
Ph: +61 3 9730 9121  
Fax: +61 3 9753 4248  
E-mail: [export@davey.com.au](mailto:export@davey.com.au)

### Germany

Kantstrasse 47,  
04275 Leipzig  
Ph: +49 341 301 0412  
Fax: +49 341 301 0413  
E-mail: [akrenz@daveyeurope.com](mailto:akrenz@daveyeurope.com)

### New Zealand

2 Rothwell Avenue,  
North Harbour, Auckland 1330  
Ph: +64 9 914 3680  
Fax: +64 9 914 3685  
E-mail: [sales@daveynz.co.nz](mailto:sales@daveynz.co.nz)

### USA - Davey Pumps Inc.

1005 N. Commons Drive  
Aurora, Illinois 60504  
Ph: +1 630 898 6976  
Fax: +1 630 851 7744  
Website: [www.daveyusa.com](http://www.daveyusa.com)  
E-mail: [sales@daveyusa.com](mailto:sales@daveyusa.com)