



DDW Drainage Pumps



DDW 750V



DDW 750S

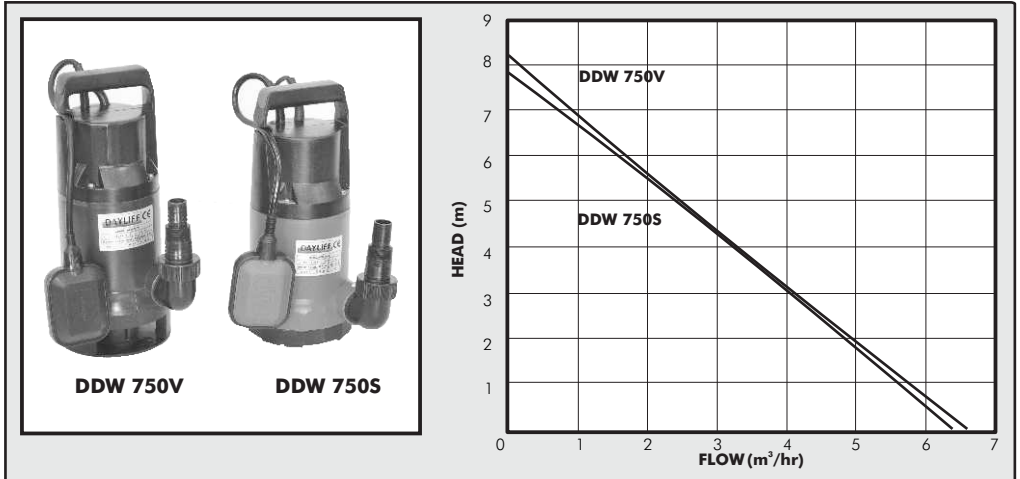
Installation & Operating Manual

INDEX

1. PUMP SPECIFICATIONS	1
2. INSTALLATION	2
3. ELECTRICAL CONNECTIONS	3
4. MAINTENANCE	3
5. SAFETY WARNINGS	4
6. TROUBLE SHOOTING	5
7. TERMS OF WARRANTY	5

Thank you for choosing Dayliff DDW drainage pump. The pump has been manufactured to the highest standards and if operated correctly should give many years of efficient and trouble free service. Careful reading of this instruction manual is therefore extremely important and if you have any queries please refer them to your retailer.

1. PUMP SPECIFICATION



Pump

The DAYLIFF DDW submersible pump range are centrifugal submersible pumps designed for small scale drainage, irrigation, fountain and water transfer applications. Two versions are available, the standard S version with open impeller for lightly turbid water and the vortex V version for water with higher silt loads.

Pump construction is of high strength engineering plastic for the pump casing, suction base and impeller and an external float switch is provided for automatic pump control. All pumps are supplied with 5m of waterproof power cable and a union connected outlet suitable for threaded or hose connection.

Motor

Pumps are provided with intergral non-overloading induction motors designed for continuous operation.

A thermal cut-out is provided in the motor winding to protect against pump overload and the pump can be connected directly to the mains power supply through a 10A fuse or MCB.

Enclosure Class: IP68 **Insulation Class:** F **Voltage:** 1x240V

OPERATING CONDITIONS

Pumped liquid: Thin, clean, chemically non-aggressive liquid containing some particles and fibres.

Max fluid temperature: +35°C

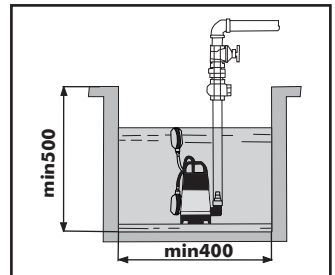
Max Operating Depth: 8m

Pump Data

Pump	Motor		Dimensions (mm)			Weight (kg)
	kW	Amps	Outlet	W	H	
DDW 750S	0.75	5.2	1¼"	220	320	5.0
DDW 750V	0.75	5.2	1¼"	250	350	6.0

2. INSTALLATION

- The pump can be used for various drainage and water transfer installations for tanks, ponds and basements. It is best installed in a sump of minimum 40cm square and 50cm deep to allow for float switch operation.
- The pump should not be suspended by its cable or delivery pipe. It should either rest on a solid, level base or be suspended by steel cable or chain.
- The pump may be connected by either a rigid pipe or hose; diameter should be no less than the outlet connector.
- Ensure the pump is not resting in silt or sand during normal operation or impeller damage will occur.
- Adjust the low level control switch on its clip to ensure free float movement and sufficient time between start and stop cycles.



3. ELECTRICAL CONNECTIONS



The installer is responsible for making electrical connections to the mains supply in compliance with relevant local regulations. Ensure that a professional electrician carries out the electrical connections and that the following guidelines are followed:-

- All installations must be provided with an isolator to cut off mains power supply and coarse current protection in the form of a fuse or MCB rated at 2-3 times the full load current as given on the pump plate.
- Ensure that the power supply rating complies with the specification in these instructions.
- Effective earthing must be provided according to local regulations.
- Motors are protected against overloads by a thermal overload fitted in the motor windings.

4. MAINTENANCE

The pump requires no routine maintenance and if correctly installed, should give long term trouble free service. However, the following should be noted:-

- If pump performance drops check for debris in the impeller. If observed, flush with water to clean. If this action is insufficient remove the suction cover and clean around the impeller.
- Particularly check the pump seating location and clear any debris and silt that may have accumulated.



Before carrying out any maintenance ensure the electrical supply is isolated.

5. SAFETY WARNINGS

- Do not install the pump in swimming pools or ponds where they may be people using the water.
- When lifting or transporting do not lift by the cable, float switch or delivery pipe. Always use the handle.
- Ensure that the cable termination is well away from the pumped water source and protected from weather and splashing.
- Pump should only pump lightly silted water and not flammable and viscous liquids.

6. TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump does not run	No mains supply	Check mains supply
	Level switch not switching on	Check switch adjustment
		Low water level
Pump runs with no flow	Pump suction sieve clogged	Clean suction (See Maintenance section)
	Delivery hose obstructed	Check delivery hose & rectify
Low flow	Pump suction obstructed	Check suction
		Reduce delivery head
	Delivery head too high	Specify different pump
Pump stops after short operating period		Check pump suction
	Thermal cutout tripped due to overload	Check mains power voltage
		Check water temperature is below 35°C

7. TERMS OF WARRANTY

i) General Liability

- In lieu of any warranty, condition or liability implied by law, the liability of Davis & Shirliff (hereafter called the Company) in respect of any defect or failure of equipment supplied **is limited to making good by replacement or repair** (at the Company's discretion) defects which under proper use appear therein and arise solely from faulty design, materials or workmanship within a specified period. This period commences **immediately after the equipment has been delivered to the customer** and at its termination all liability ceases. Also the warranty period will be assessed **on the basis of the date that the Company is informed of the failure**.
- This warranty applies solely to equipment supplied and **no claim for consequential damages**, however arising, will be entertained. Also the warranty specifically excludes defects caused by fair wear and tear, the effects of careless handling, lack of maintenance, faulty installation, incompetence on the part of the equipment user, Acts of God or any other cause beyond the Company's reasonable control. Also, any repair or attempt at repair carried out by any other party **invalidates all warranties**.

ii) Standard Warranty

If equipment failure occurs in the normal course of service having been competently installed and when operating within its specified duty limits warranty will be provided as follows:-

- Up to one year - The item will be replaced or repaired at no charge.
- Over one year, less than two years - The item will be replaced or repaired at a cost to the customer of 50% of the Davis & Shirliff market price.

The warranty on equipment supplied or installed by others is conditional upon the defective unit being promptly returned free to a Davis & Shirliff office and collected thereafter when repaired. No element of site repair is included in the warranty and any site attendance costs will be payable in full at standard chargeout rates. Also proof of purchase including the purchase invoice must be provided for a warranty claim to be considered.

DAYLIFF is a brand of **Davis & Shirtliff**

for enquiries contact

Davis & Shirtliff, Ltd.

P.O. Box 41762 - 00100, Nairobi, Kenya

Tel: 6968000/ 0711 079 000

or visit

www.dayliff.com

for details of the nearest branch or stockist