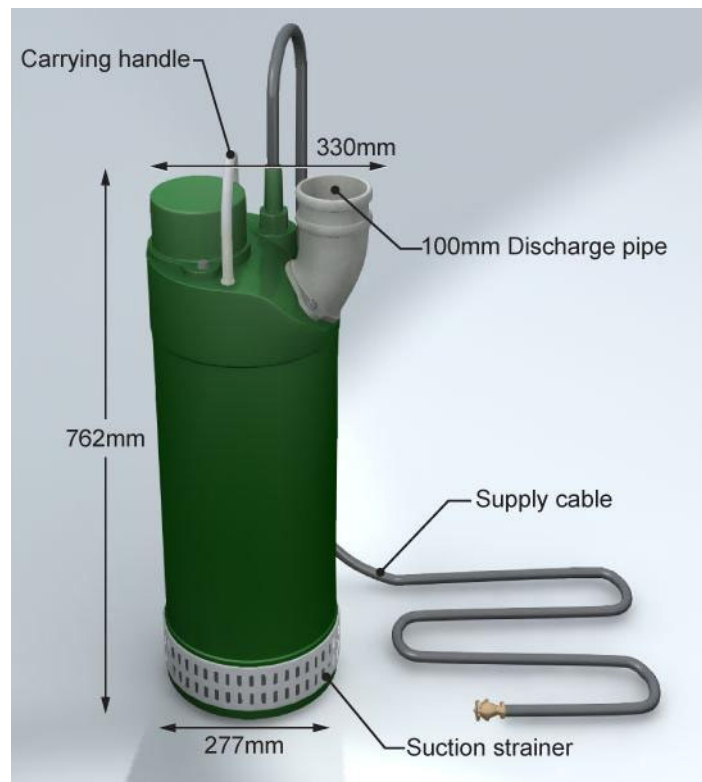


ANNEX 27A**WEDA ELECTRICAL SUBMERSIBLE PUMP****1. Description**

The Weda, electrically driven, portable pump operates submerged in the water to be pumped. This pump is provided primarily for pumping out loose water. When two pumps are used in tandem (or series) they provide a very useful emergency firefighting system. In the latter case suction can be taken from overboard or from a flooded compartment/tank onboard. The pump must be lifted or lowered using the handle (with rope attached), and not by the electrical cable. The cable is to be whipped to the lowering rope at 450 mm intervals. When using a Weda pump during a flooding incident, consideration should be given to leaving the pump unsecured. If secured, the likelihood of being unable to retrieve the pump should the situation in the compartment deteriorate should be weighed up against the safety of personnel, especially if the ship is in State 1 and further action damage could occur. When the ship is conducting training the WEDA pump may be lashed in position for safe operation.

Fig 27A-1. Weda Electric Submersible Pump

Fig 27A-2. Weda Electric Submersible Pump - Dimensions

2. Pumping Out

When used for pumping out loose water, the Weda pump is to be fitted with the twin discharge piece, which has two female instantaneous couplings. One size 3 hose is sufficient for the pump discharge. If only one hose is used, the unused connection on the twin discharge piece must have a blanking plug fitted. Alternatively, two hoses may be used.

3. Emergency Firefighting

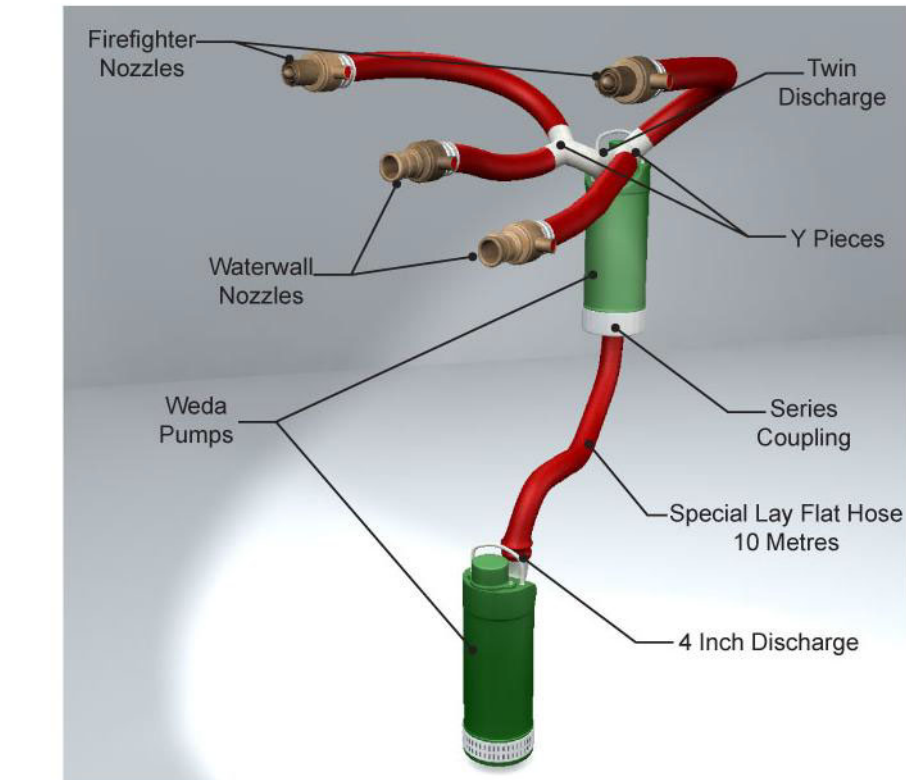
Two Weda pumps, connected in series, can be used in the firefighting mode. The first pump (which is taking suction) is fitted with a 100 mm discharge adaptor (as supplied) and a 100 mm discharge hose to the second pump that has the series coupling conversion kit on its suction side. The second pump is fitted with a twin discharge piece, supplying two hoses for firefighting. A total of four hoses may be supplied, by fitting Y pieces, but only in extreme emergency due to the reliance on a single source.

4. Pump Accessories

- a. A switched emergency 'rat tail' connector.
- b. A 10 m length of 100 mm discharge hose.
- c. A twin 60 mm instantaneous female discharge piece.
- d. 2 x 100 mm hose connectors.
- e. One series coupling conversion kit per two pumps.
- f. One electrical adaptor lead per pump.

- (1) Type A - pre T23.
 - (2) Type B - T23 and later.
- g. A trolley and stowage kit, including an extended handle, a trolley and a stowage bracket.

Fig 27A-3. Weda Pumps in Series



5. Pump Particulars

- a. **Weight (dry):** 59 kg.
- b. **Performance:** 100 m³/hr at 1.8 bar.
- c. **Size:** See [Fig 27A-2](#).
- d. **Power supplies:** 440 V 3-phase 60 Hz (full load 13.5 amps).

6. Handbook

Full details are published in BRF 6570(662).

Fig 27A-4. Weda Pump Trolley

