

FRESH WATER SYSTEM
(PLATE XV)

- 37-1 The Fresh Water System is supplied by two Allis-Chalmers electric motor driven centrifugal pumps, each having a rated capacity of 25 gallons per minute at a total head of 100 feet. These pumps are located in the fresh water pump room, compartment B-1, port side, and are installed in conjunction with a 200 gallon fresh water compression tank and a wet vacuum type priming pump. The priming pump is a horizontal single stage vacuum, close coupled to driving motor having a capacity of 10 c.f.m. at a vacuum of 10 inches.
- 37-2 The piping is so arranged that the pumps may draw from both tanks and discharge into the fresh water main while the tanks are being filled from the Superstructure Deck filling connection. The piping is also arranged to permit pumping to the boiler and overboard through the Superstructure Deck filling connection.
- 37-3 Hot fresh water for lavatories, showers, galley sink and washing machine is supplied from a steam heated, 66 gallon, storage tank located in the galley stores, A-104EL.
- 37-4 For filling the tanks from shore or from a water boat 2-1/2 inch hose connections are provided on the Superstructure Deck, at frame 27, port and starboard.
- 37-5 Sounding fittings for both fresh water tanks are located in the Landing Force Berthing, compartment C-201EL.
- 37-6 Overflow and air escape for tank C-901W is located in the boiler room, compartment B-1. Overflow and air escape for tank C-902W is located in the General Workshop, compartment C-102-1/2AE.
- 37-7 A selector switch is provided which permits the selection of either pump for operation singly or both pumps to operate together. The priming pump will start automatically when either of the fresh water pumps starts and will run continuously until both fresh water pumps are shut down.

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57-8 An adjustable automatic pressure regulator switch is provided, so arranged that the selected pump will start automatically when the system pressure falls to 20 p.s.i. and to stop when system pressure reaches 40 p.s.i.

The controls are arranged so that the pressure switches can be completely disconnected and the pumps controlled manually by means of a "START" and "STOP" push button. The "STOP" button is operable on either manual or automatic operation.

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<u>Operating Characteristics</u>	<u>Main Pump</u>	<u>Priming Pump</u>
Capacity	35 g.p.m.	10 c.f.m.
Discharge pressure designed	40 p.s.i.	14.7 p.s.i.
Suction lift designed	3" p.s.i.	10" Vacuum
Total net head	45 p.s.i.	1.5 p.s.i.
B.H.P.	1.785	0.42
R.P.M.	3500	3500

For further information concerning Fresh Water System, see PLATE XV.

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