

ADMIRALTY
AIR MINISTRY

Chapter 4

ELECTRIC URN, TYPE A

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LEADING PARTICULARS

Electric urn, Type A	Stores Ref. 5V/42
Max. overall diameter (excluding tap) 13 $\frac{1}{4}$ in.
Diameter of urn body 11 in.
Height 18 $\frac{1}{2}$ in.
Total weight 15 $\frac{3}{4}$ lb.
Total loading	1 kW at 24 volts
Capacity 2 gall.

ELECTRICAL MANUAL, STATIC CONSUMER EQUIPMENT (AIRBORNE)

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Section 10. List of Chapters: delete "(to be issued later)" after the title of Chapter 4 and write "(A.L. 38)" in the outer margin against the deletion. Insert this Chapter 4 to follow Chapter 3. Record the incorporation of this A.L. in the Amendment Record Sheet.

RESTRICTED

Introduction

1. The electric urn, Type A, is used for supplying hot water on aircraft. It has a capacity of two gallons, and the maximum loading is 1,000 watts at 24 volts.

DESCRIPTION

2. A general view of the urn is shown in fig. 1. It is made of copper, tinned internally and nickel-plated externally. The body and lid are encased in $\frac{3}{4}$ in. thick lagging and an overall canvas cover. A splash ring is fitted inside the top of the body, and the urn is mounted on three lugs, equally spaced round the base. Heat is supplied by four 250-watt strip elements, each 6 in. long, connected as shown in fig. 2. The elements are not of

the immersion type, but are fitted on asbestos pads beneath the urn. No thermal cut-out is incorporated, boiling time being estimated at approximately 70 minutes.

SERVICING

3. In the absence of a thermal or other safety device, care must be taken to see that the urn does not boil dry. As the elements are not in contact with the water, little servicing is normally required. Water must not be allowed to reach the elements, and the inside of the urn must be kept dry when not in use. Do not allow sediment or fur to collect round the tap outlet.

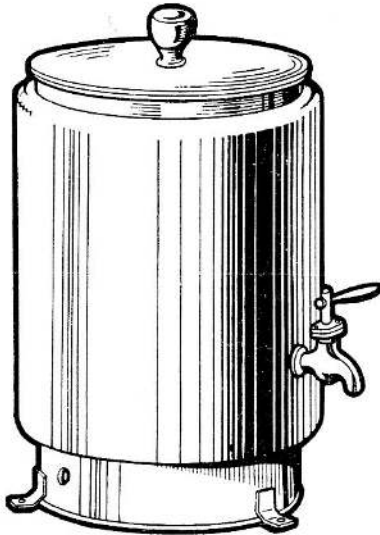


Fig. 1. General view of urn

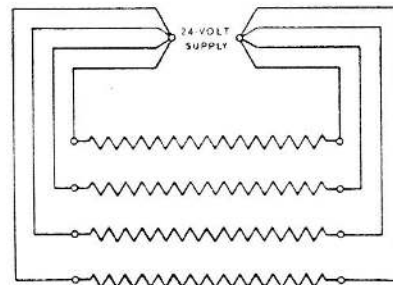


Fig. 2. Circuit diagram

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