Chapter 24

THERMOSTATICALLY CONTROLLED BEVERAGE CONTAINER, G.E.C. TYPE H.O.3366

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LEADING PARTICULARS

Beverage container, G.E.C. Type H.O.3366 ...	... *Ref. No.* 5V/
Voltage	28 *volt*
Rating	120 *watt*
Capacity	1½ *gallon*
Weight	10*lb* 10 *oz.*
Controlled temperature	... 85°C.

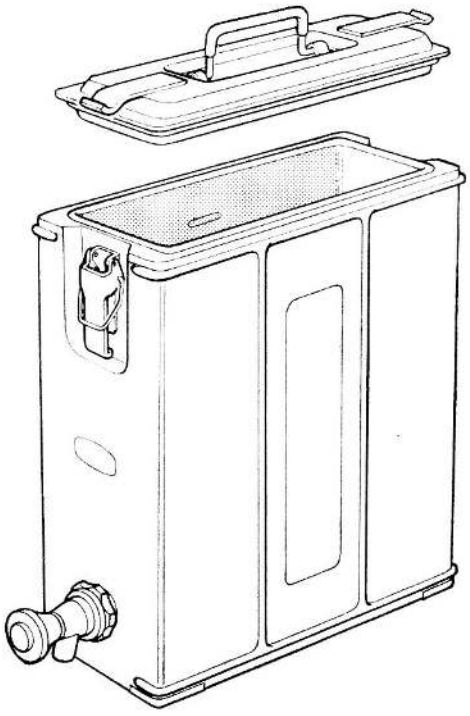

Fig. 1. Beverage container

Introduction

1. The G.E.C. Type H.O.3366 beverage container is used to store heated beverages until required for use. A thermostatically controlled heater element on the bottom of the container maintains the contents at 85°C and the thermostat also protects the heater element should the container be plugged into the supply when dry. This chapter deals with the 28V version of this container, details of the 112V version, G.E.C. Type H.O.3368, which is identical in construction but may be recognised by having vertically aligned pins on the external plug are given in Section 11, Chapter 6.

DESCRIPTION

2. The container consists of an outer casing, an inner container, and a double cased lid and is constructed of stainless steel. Two 14 volt heater elements are brazed to the bottom of the inner container and are connected in series via the thermostat, which is secured to the base of the container, to the pins of the 2-pole plug at the rear of the casing. The pins of the plug on the 28V container are mounted horizontally. A push-button operated tap is provided in the front of the container and is secured to the

tap adaptor by a coupling nut. The lid is held in position, on the top of the container, by two snap-fastener clips and is sealed by a rubber gasket cemented to the rim of the lid.

SERVICING

3. The container should be examined for mechanical damage, and checked for the security of the lid when the clips are fastened and for leaks at the tap. The pins of the electrical plug should be inspected for signs of pitting or burning and for corrosion. Continuity of the elements and the thermostats may be checked with a suitable meter, the reading obtained across the pins of the plug should be approximately 6·50 ohms. Renewing the thermostat may be accomplished by removing the casing base plate, unsoldering the connecting wires, and removing the two nuts securing the thermostat to the base plate. The pins of the plug may be renewed by unscrewing the guard shroud from the plug housing, disconnecting the connecting wires, and then removing the locknuts securing the pins to the plug mounting plate. The tap is a complete unit and should be renewed by unscrewing the coupling nut from the adaptor, if the leak is around the adaptor seat the seating washer should be renewed.

Insulation resistance test

4. The insulation resistance of the container may be measured using a 250 volt insulation resistance tester and the reading obtained should be not less than 5 megohms.

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