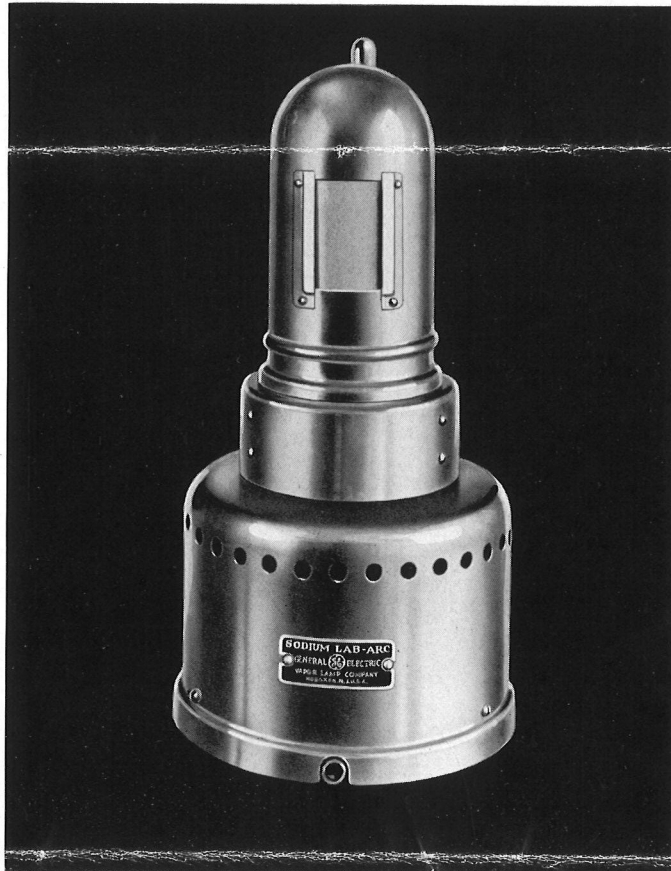


SODIUM LAB-ARC



GENERAL  ELECTRIC
VAPOR LAMP COMPANY
HOBOKEN, NEW JERSEY

Sodium Lab-Arc

THE General Electric Sodium Lab-Arc has recently been developed by the General Electric Vapor Lamp Company for use in physical and chemical laboratories requiring a high intensity sodium spectrum for routine, experimental, demonstration or testing work.

The Sodium Lab-Arc provides a broad light source of constant intensity and a much higher intrinsic brilliancy than is ordinarily obtained from sodium flames or flares. The Sodium Lab-Arc can be used for an indefinite length of time without adjustment, or variation in its output.

Fig. 1 shows the general characteristics of this small, compact, self-contained unit. It will be noted that there is provision in the lamp housing for the attachment of shields to reduce the effective area of the source as much as may be desirable. Into this same shield holder, one or more pieces of ordinary fine mesh screen may be inserted where the equivalent of a neutral filter is desired to reduce the intensity of the source.

As will be noted by reference to Fig. 1 and Fig. 2, the Sodium Lab-Arc is equipped with stand adaptors. The unit is shipped assembled so that these adaptors form a handle for the unit. A variety of positions of the arc, suitable for practically all applications, are made possible by the flexibility of adjustment and rearrangement of these stand adaptors. It is also possible to remove

the stand adaptors and use the lamp housing directly on a table or bench.

The only limit to the possible positions of the lamp housing is the 18 inch connecting cord between the lamp housing and the auxiliary. This connecting cord should, in no case, be changed or made longer. It will, however, permit sufficient flexibility in arrangement to suit any laboratory set-up.

The Sodium Lab-Arc operates from a 60 cycle, 110 volt Alternating Current supply. Connection is through the 6 foot flexible cord which is equipped with a through cord switch and attachment plug. Where only Direct Current is available, the Sodium Lab-Arc may be operated from an "inverter,"

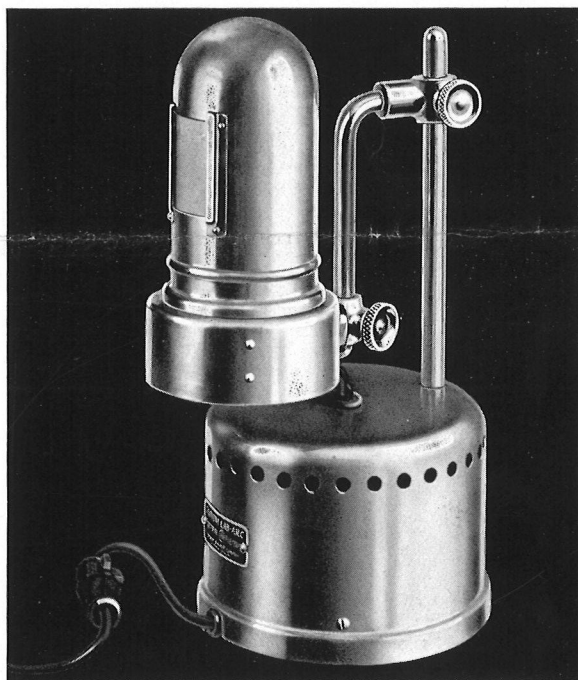


Fig. 1

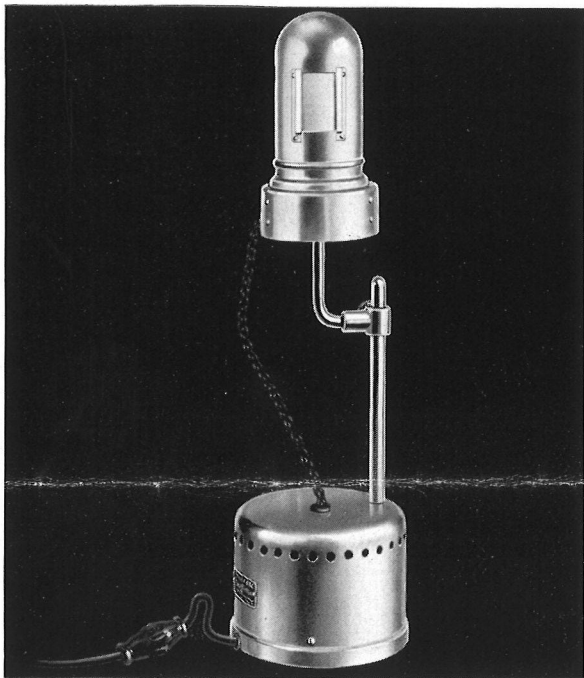


Fig. 2

such as is available for radio set operation, as the total energy consumption does not exceed 75 watts.

Laboratory Use—The Sodium Lab-Arc is to be used in the same manner as the ordinary sodium lamp or flare, except that the greater intrinsic brilliancy and the presence of a few low intensity lines in addition to the pair at 5890\AA and 5896\AA requires the use of the usual dichromate filter adjusted for as high an absorption as the experimental conditions will permit. An alternative to the dichromate filter, more satisfactory

for many purposes, is the Corning monochromatic filter No. 4 obtained from the Corning Glass Works, Corning, New York. A similar filter in gelatin is available from the Eastman Kodak Company, Rochester, New York. This same filter may also be made up by using standard Wratten filters No. 67 and No. 23 in series.

Fig. 3 shows the wiring diagram of the Sodium Lab-Arc. The Lab-Arc auxiliary equipment is completely housed in the base of the unit. The light source is a bulb mounted on a four prong base, which is simply inserted in the lamp housing. For purposes of efficient operation, this sodium bulb is then enclosed in a Dewar flask, over which is placed the metal housing in which the window equipped with shield holders is placed.

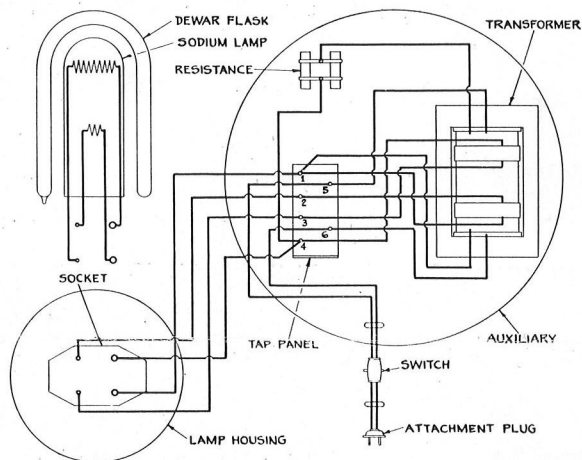


Fig. 3

PRICES

Sodium Lab-Arc, for operation on 115 volts, 60 cycle

Alternating Current

Complete \$62.50

Sodium bulb only

\$15.00

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GENERAL  ELECTRIC
VAPOR LAMP COMPANY

GENERAL OFFICE, HOBOKEN, N. J.

TELEPHONE
HANCOCK-6367

250 STUART STREET
BOSTON, MASS.

October 23 1933

A. A. Campbell,
744 Belmont Street,
Watertown, Mass.

Dear Sir:

We are advised by our representative at the Century of Progress, of your interest in the Sodium Vapor lamp, and we are pleased to enclose copy of Bulletin 900 describing the Sodium Lab-Arc.

So far, the model shown in the enclosed bulletin, is the only one we manufacture. The price of the complete outfit, as well as the renewal bulb, is shown on page three of Bulletin 900.

These outfits are carried in stock and fairly prompt shipment can be made.

Yours very truly,
GENERAL ELECTRIC VAPOR LAMP CO.


M. E. Sherman.

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