

THE *Peerless*

**MAGNARC**

REGD TRADE MARK

*The*  
**SUPER REFLECTOR  
HIGH INTENSITY  
ARC LAMP**

*Brilliant Screen Illumination  
Combined with Economy*

Sole Control:

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# More light... with less current

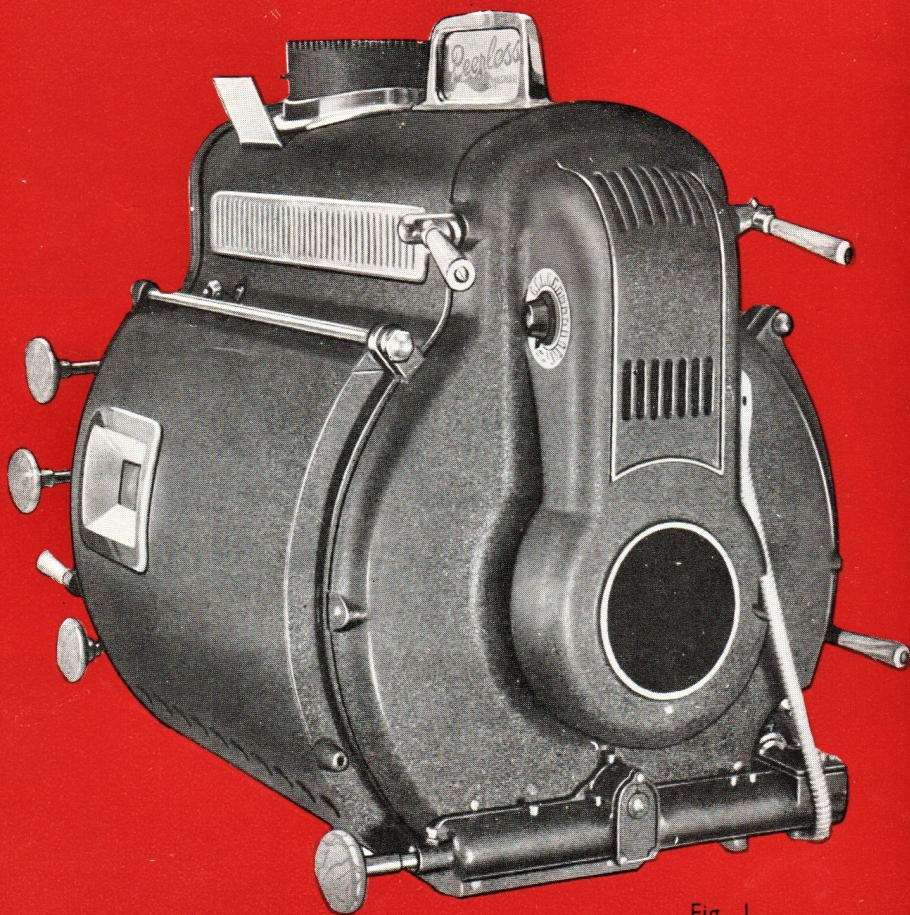


Fig. 1

## THE *Peerless* MAGNARC

Fitted with fully ventilated lamphouse, all controls on right hand side, perfect carbon-arc adjustment, glass reflector with automatic protective shield, floating carbon holders, powerful stabilising magnetic field, etc.

**BRILLIANCE ALMOST STARTLING IN ITS  
INTENSITY**

The house of Brockliss announce once more the Peerless Magnarc Arc Lamp, of revolutionary design, providing brilliance of light at an extremely low amperage. Economical in action and robust in construction.

**A high intensity Arc Lamp with greater efficiency than the finest Arcs giving remarkable results at a low cost.**

Equipped with a 14 in. glass reflector, the lamp is designed for use with copper-coated carbons and gives at 40 amps. a light equal to an ordinary High Intensity Arc of 75 amps., thus effecting a large saving in current. Accurate and easy control of carbon adjustments and coolness of running are important features of this machine.

**The Arc Lamp which the trade has found to be supreme.**



# Leading features of the **Peerless MAGNARC**

**E**XTREMELY large lamp housing, more massive than any at present in use. It is of the most modern design, finished in frostine and chromium with onyx controls.

The optical system is very efficient and utilises a 14 in. elliptical reflector.

An entirely new system of carbon feed is employed which is very rapid in action and requires no reset releases.

A full 12 in. trim of carbon is accommodated in the carbon holder. Both carbons are guided at their tips in order to maintain an even crater and screen illumination at all times.

A double dowser operating with one control is employed, one to shut the light off the aperture, the other dropping in front of the positive crater to protect the mirror.

The mirror is mounted on a special door at the rear of the housing and swings outward for cleaning and inspection. The mirror door also carries outwardly the arc control and regulating mechanism.

A special door is provided at the rear of the mirror door for trimming the negative carbon.

An arc stabilising magnet is an integral part of the arc to ensure perfect crater formation and to direct the arc flame in a uniform and constantly upward direction ; also to prevent the flame from enveloping the entire crater end of the positive carbon. Another important function is to keep the tail flame always parallel to the surface of the mirror so that, no matter what the tilt of the lamp, there is no fear of the flame licking back on to the mirror.

Finally, the Peerless Magnarc is truly economical in that a high intensity light, comparable with the best high intensity arcs, is obtained at low carbon and current costs.

E.G., at 45 amps. with 35 arc volts = 1,575 watts, the light is comparable with that of a high intensity arc consuming 8,000 watts.

## **Brockliss ...THE PROJECTION SPECIALISTS**



# THE *Peerless*

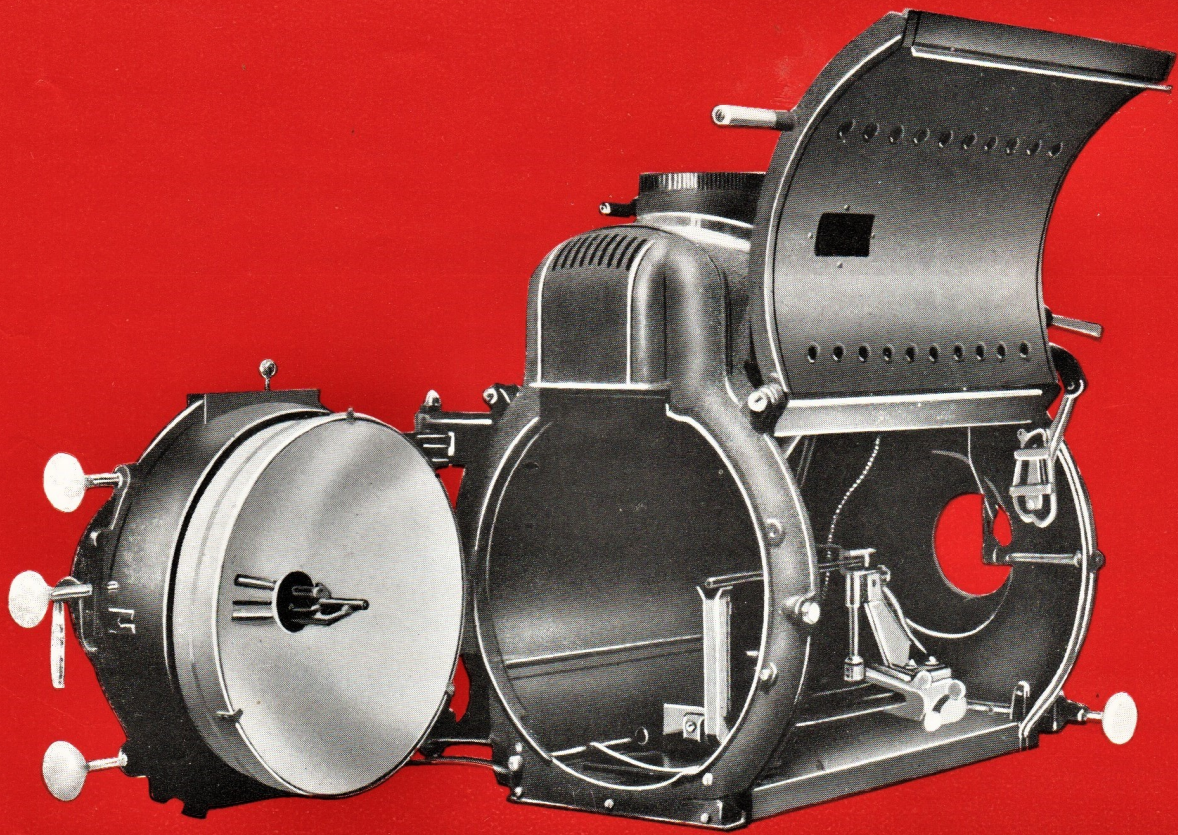


Fig. 2

Fig. 2 shows the interior of the lamphouse with the rear door swung open, demonstrating the ease with which the mirror can be cleaned. It will also be noted that all the control knobs are on the right of the lamphouse, thus facilitating the work of the projectionist. A leading feature of the Magnarc is the ventilation. Great attention has been paid to this factor to prevent the mirror being subjected to heat. The working parts naturally will then have a longer life.

The arc jaws have been streamlined so as to allow the maximum of light to be reflected from the mirror ; yet they are of robust construction and capable of long wear.

The lamphouse doors are double walled and are fitted with a novel device for opening and closing.

**BETTER PROJECTION PAYS . . .**



# MAGNARC

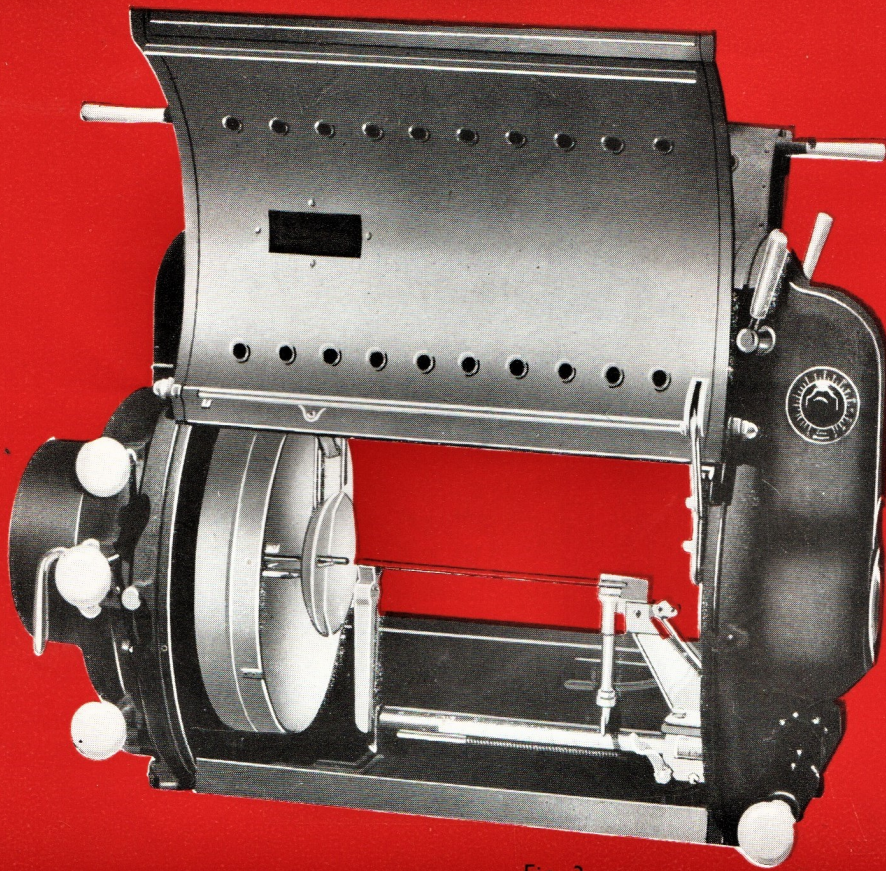


Fig. 3

Fig. 3 shows another view of the arc interior with the reflector dowser shield in position. This dowser is coupled with the front cut-off dowser so that, when the projectionist opens up his arc, both dowsers operate together. By this means the mirror is duly protected when striking the arc, yet at the same time the projectionist cannot inadvertently open up his arc with either dowser not clear of the arc source and the reflector. The automatic feed of the positive carbon is controlled by the rheostat shown on the right; this regulates the feed of the positive carbon.

The two carbon holders are 'floating' to make sure of perfect alignment of the carbons.

Both negative and positive feeds are independent.

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# THE *Peerless* MAGNARC

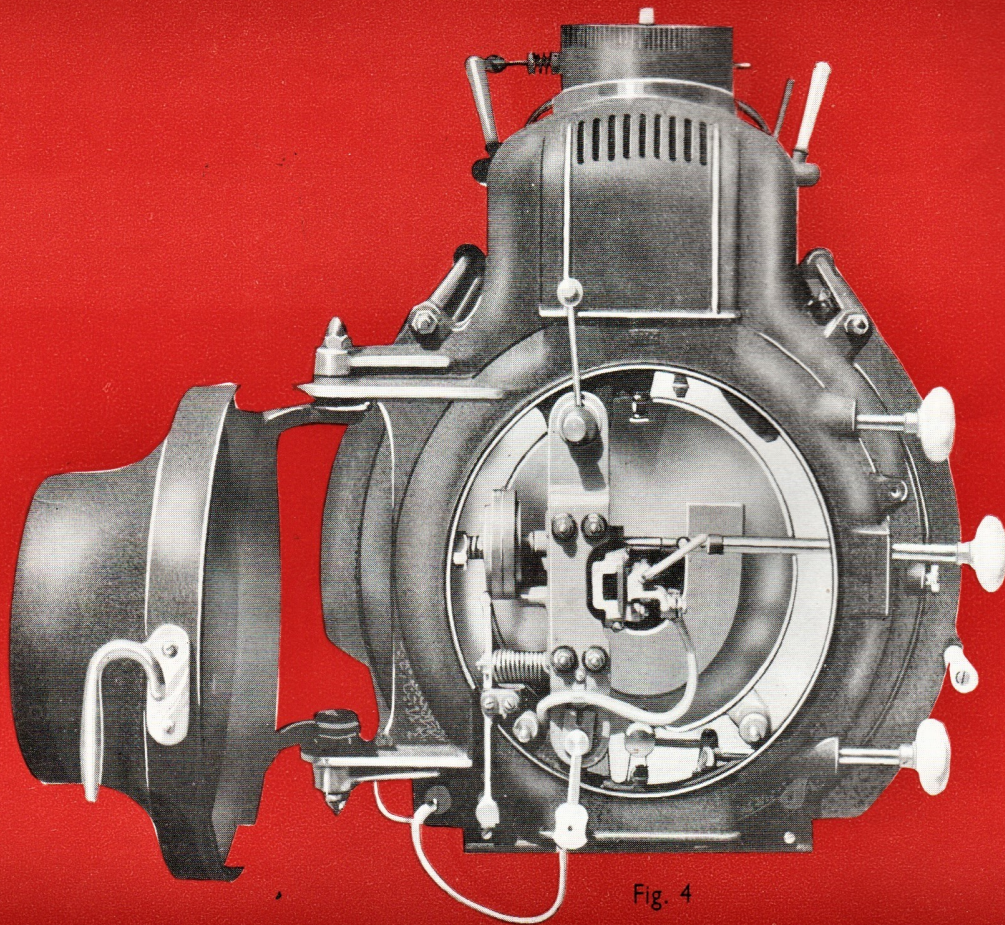


Fig. 4

Fig. 4 shows the lamp as seen from the rear. It shows the automatic feed of the negative carbon, comprising a cam and lever with a regulating knob controlling its advance in an intermittent manner.

The upright casting, seen in the illustration, has at the top an eccentric movement controlling the raising or lowering of the negative carbon, whilst at the bottom is a slot with screw allowing for the lateral movement of the negative carbon. Adjustment, both vertical and lateral, can be made from the outside without opening the lamphouse.

The top knob, seen on the right, controls the lateral adjustment of the mirror. The middle knob is for the negative feed and the lower knob controls the up or down movement of the mirror.

The top grill is part of the general ventilation system, by which means the mirror and internal mechanism are prevented from being overheated.

**BETTER PROJECTION PAYS . . .**



# TABLE OF RECOMMENDED CARBON COMBINATIONS

## ARC VOLTAGES AND AMPERAGES

Copper Coated. <i>H.I. Carbons.</i>	Amperages <i>Range</i>	Arc. Voltage <i>Range</i>	Carbon Consumption <i>Inches per hour</i>
6 mm. X 12 ins. Positive	32—40	31—35	6·5
5 mm. X 9 ins. Negative			3·0
7 mm. X 12 ins. Positive	42—50	35	6·5—13·5
6 mm. X 9 ins. Negative			3·0—4·5
8 mm. X 12 ins. Positive	55—65	35—41	6·5—13·5
7 mm. X 9 ins. Negative			3·75—13·5

The operating distance from the rear surface of the reflector, when measured through the hole in its centre to the projector aperture, should be approximately 34 ins. To accomplish this, slide the entire lamphouse forward or backward, until the reflector aperture distance is approximately 34 ins., as mentioned above.

To ensure correct length of arc gap a carbon image card is mounted on the lamphouse itself; the positions of the positive and negative crater images are indicated by vertical lines on this card.

**Cleaning reflector.**—The accessibility of the Peerless Magnarc reflector should be taken advantage of to keep the reflector clean. It is advisable that the reflector face be wiped frequently as carbon ash accumulates on it, and it is a good policy (once every week) thoroughly to clean the surface with a good cleaning agent that will not scratch the glass.

**Carbon Holder Sizes.**—The Peerless Magnarc is normally fitted with carbon holders for 7 mm. and 6 mm. carbons, but jaws to take carbons of sizes as set out in above table will be supplied in place of these if ordered with the lamps in the first instance.

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THE *Peerless*  
**MAGNARC**  
REGD TRADE MARK

**THE WORLD'S FINEST PROJECTION ARC LAMP**

MANUFACTURED IN GREAT BRITAIN BY

MESSRS. KELVIN BOTTOMLEY & BAIRD, LTD. OF GLASGOW  
FOR

**J. FRANK BROCKLISS, LTD.**

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