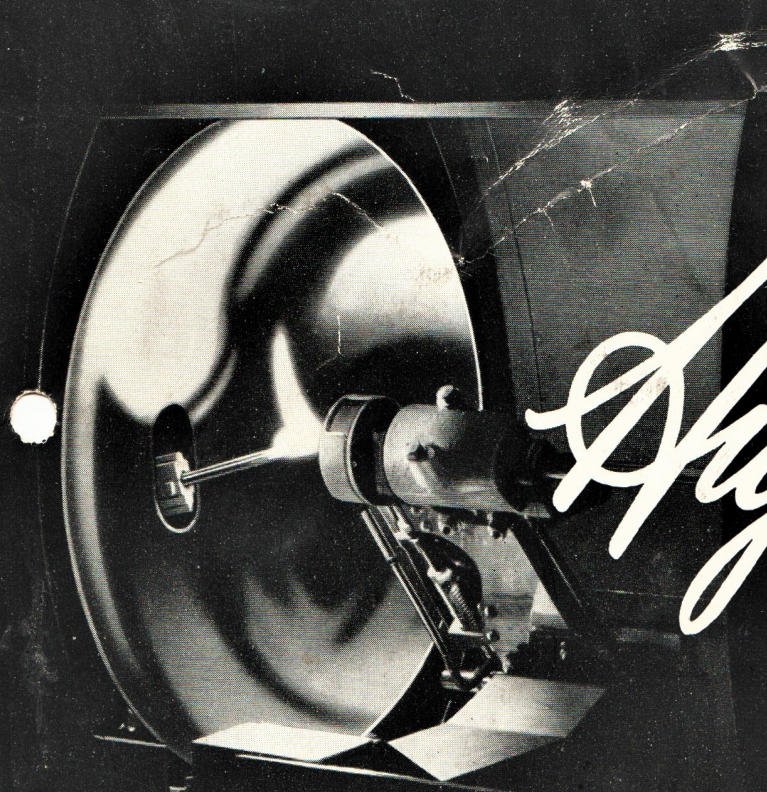
Mole Richardson, Gaumont-Kalee



High Power

Arc Lamp

More Light

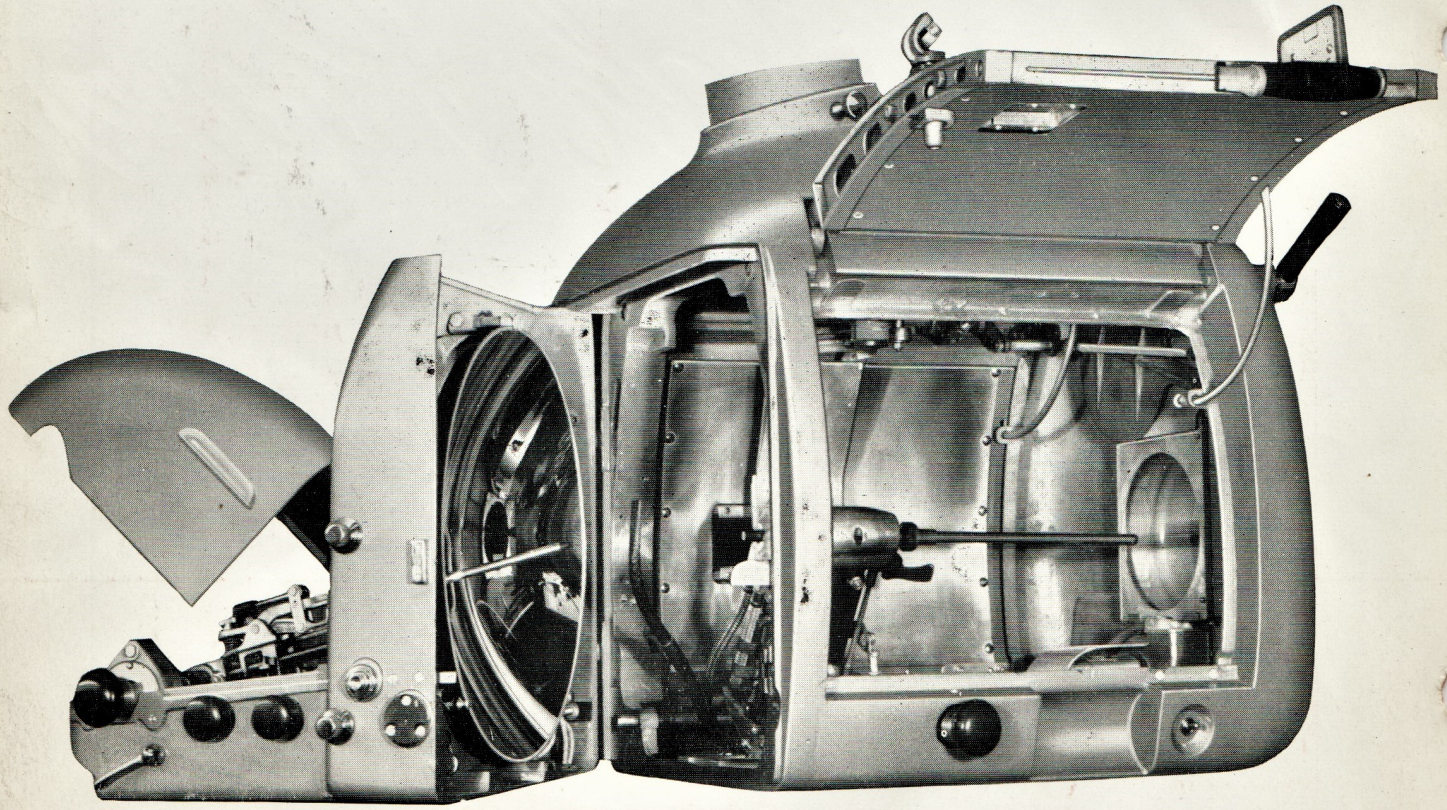
For Leading Theatres and Drive-ins

The MOLE RICHARDSON, GAUMONT-KALEE Arc Lamp

High Power

FOR LEADING THEATRES AND DRIVE-INS

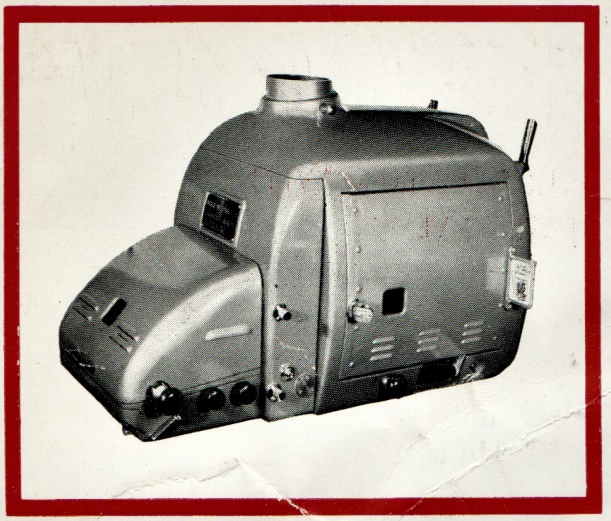
- ★ Water cooled positive carbon contacts
- ★ Rotating uncoppered 11 mm. or 10 mm. positive carbon
- ★ More light—Lower cost
- ★ Heat filter and mirror air cooled by blower motor
- ★ Every part readily accessible for maintenance



50,000 LUMENS with wide film at 130 AMPERES

The outstanding figure of 50,000 lumens was obtained with heat filter and lens in position with wide film aperture 1.34″ × 1.06″.
Other output figures obtained were:
38,000 lumens with double frame Vistavision aperture 1.36″ × .772″.
30,000 lumens with Cinemascope aperture .912″ × .715″.
24,000 lumens with standard aperture .825″ × .600″.
All readings were taken without the projector shutter running.

Self-contained Water Re-circulator with SAFETY WARNING BELL and GAUMONT-KALEE heavy duty 3 phase Selenium Rectifiers available.

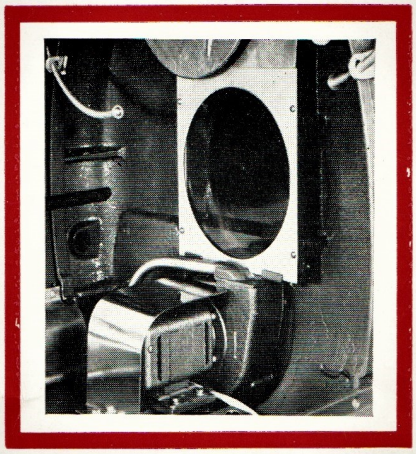


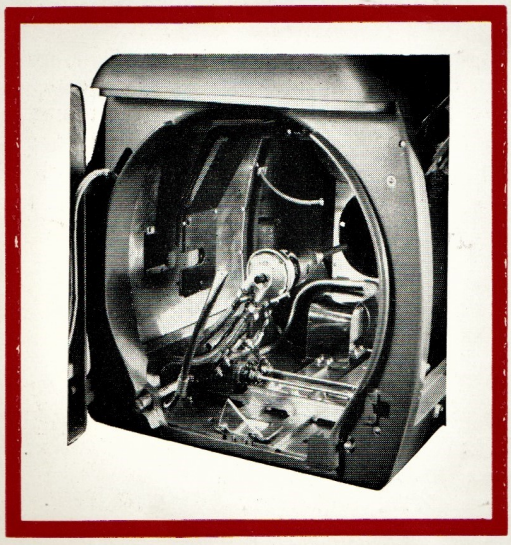
Lamphouse

The attractively finished lamphouse is generously proportioned to house the high-power arc lamp mechanism. It is constructed of cast aluminium and sheet metal, and has large, double skin air spaced doors on both sides, hinged vertically and automatically held in the open position. A continuous current of cool air from the heat filter blower motor is passed through integral trunking, and fed into the 6″ (152 mm) diameter chimney, maintaining continuous convection cooling throughout the lamphouse. The arc driving motor, negative carbon unit, and mirror assembly are located in the rear casting which opens for access to every part for maintenance. A linked dowser and mirror screen is operated by handles on both sides of the lamphouse. All controls are conveniently situated on the operating side. A periscope projects an enlarged image of the arc crater on to a carbon guide; both doors are also fitted with an inspection window. The lamphouse is finished mid-stone enamel.

Heat Filter Unit

Heat filtering of the intense light beam is efficiently controlled by toughened glass filter slats which are mounted in a unit in the front of the lamphouse. It is equipped with its own blower motor which supplies a continuous current of cool air across the filter.





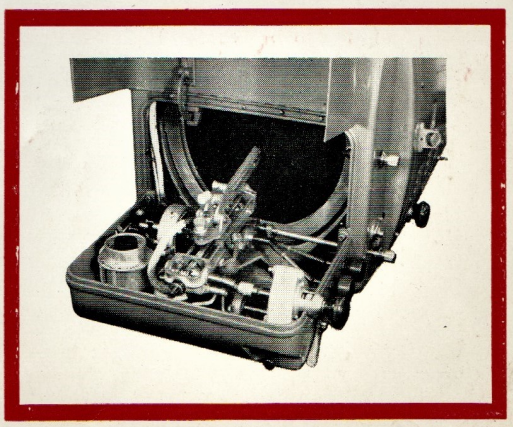
Positive Carbon Unit

The complete positive carbon head assembly is rigidly located on two horizontal rails and can be readily removed for maintenance. Rotation and forward feed of the carbon is by helical scroll plate and differentially driven feed gears. A special feature is the split positive head which facilitates cleaning and lubrication of the carbon drive mechanism. The carbon contacts are fitted with a water-cooled shroud which can be supplied from the Gaumont-Kalee Water Recirculator or direct from a main supply. The positive carbon feed can be adjusted manually by a knob on the operating side. The positive pillar is designed to give minimum mirror obscuration.

Negative Carbon and Mirror Unit

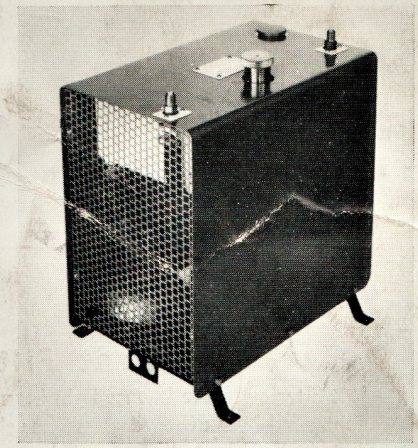
The negative carbon assembly complete with arc driving motor and mirror assembly are located in the rear section of the lamphouse, which is swung open for re-carboning the positive holder, and cleaning requirements. A hinged cover at the end of this assembly allows easy access to the negative carbon holder and adjustments for the positive feed rate. This cover is also fitted with an arc inspection window. Negative carbon controls and arc striking lever are conveniently situated and an external control is provided for adjusting the negative carbon feed rate.

A continuous stream of cool air from the heat filter blower unit is directed across the mirror and prevents fogging and excessive heating. When the rear section of the lamphouse is opened the 16″ (400 mm.) diameter mirror is free of obstructions for cleaning purposes.



GAUMONT-KALEE WATER RE-CIRCULATOR WITH AUTOMATIC ALARM SIGNAL

- ★ Alarm bell warning if arc is struck without water circulator switched on
- ★ Protection of positive carbon head
- ★ Completely self-contained
- ★ Safeguard and security



The installation of the Gaumont-Kalee water re-circulator is strongly recommended. It is completely self-contained, independent of the mains water supply and can be installed below the arc lamp it serves. The water is cooled by circulating through a radiator, through which air is driven from a fan directly coupled to the motor driving the pump unit. The alarm system is operated by a flexible metal bellow coupled into the water system and operated by the pressure of water developed in the circulating system. The bell alarm is coupled across the D.C. supply to the arc, and operates immediately should any attempt be made to run the arc without switching on the water-recirculator.

A visual flow indicator, to show the continuous flow of water through the positive carbon head, is included with each set of reinforced plastic piping and fittings used for coupling the water re-circulator and the arc lamp, and where applicable the water-cooled gate.

One re-circulator unit is required for one arc lamp and will also supply one water cooled gate on a projector mechanism if desired.

Water cooling can be carried out by connection with the main water supply but this is not recommended as water with a heavy chalk or lime content will eventually clog the pipes in the circulating system.

Illustrations must not be taken as binding. Alterations are made as occasion arises.

WEIGHTS AND DIMENSIONS

Mole Richardson, Gaumont-Kalee Arc Lamp

Height (maximum) 25¼″ (64 cms.)
Length (overall) 41″ (104 cms.)
Width (overall) 24¾″ (63 cms.)
Height optical centre from base 9″ (23 cms.)

Weight
Nett 182 lbs. (83 kilos)
Gross 454 lbs. (206 kilos)
Case Dimensions 4′ 5″ x 2′ 10″ x 3′ 0″
(135 x 86 x 91 cms.)

Gaumont-Kalee Water Re-circulator

Height 16½″ (42 cms.). Length 15½″ (39 cms.). Width 12″ (31 cms.)

Weight nett 46 lbs. (21 kilos). Gross packed, two units per case 180 lbs. (82 kilos)

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