

GAUMONT-KALEE

HEAVY DUTY

3-PHASE SELENIUM RECTIFIERS

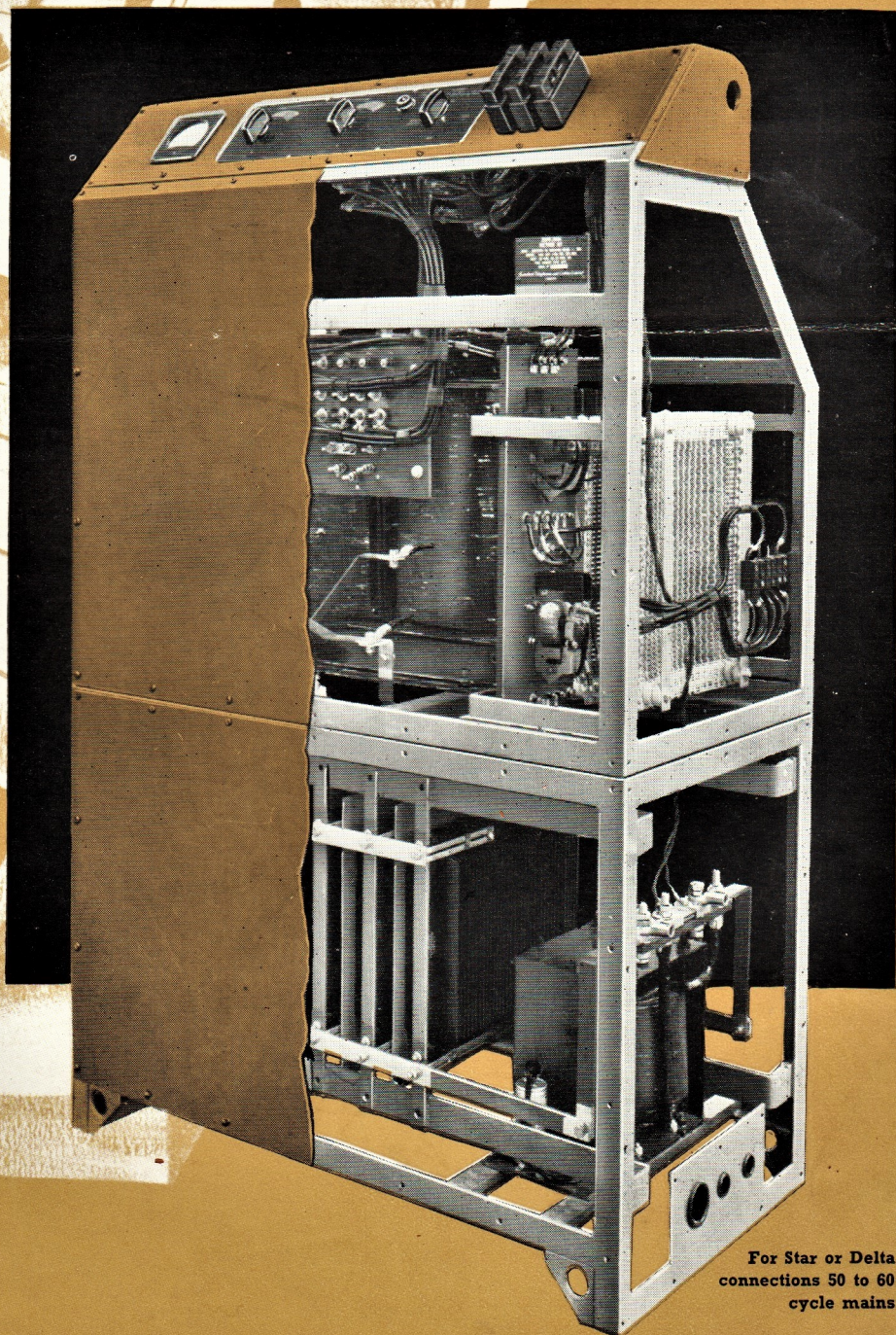


TYPE '140'

Designed especially for the Mole Richardson, Gaumont-Kalee 'High Power' Arc Lamp and all High Intensity Arcs using 80 to 140 amperes, for CinemaScope, VistaVision, SuperScope, all Wide Screen presentation and Drive-in Cinemas.

TYPE '80'

For High Intensity Arcs using 50 to 80 amperes.



For Star or Delta connections 50 to 60 cycle mains

GAUMONT-KALEE '140'

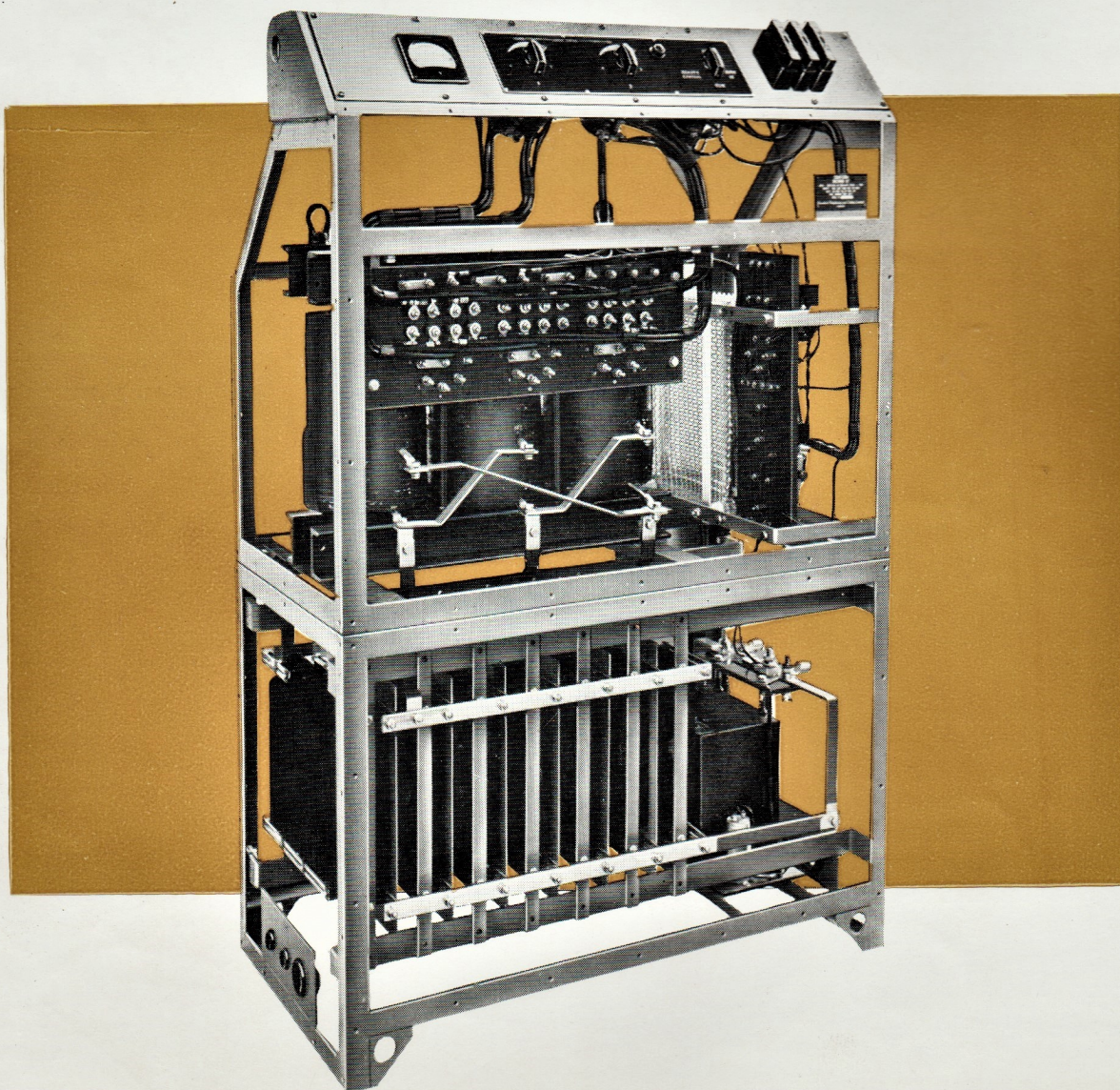
3-phase selenium rectifier

80 - 140 amperes

THE GAUMONT-KALEE '140' RECTIFIER assures smooth output current, low operating temperature, noiseless operation of arc, and stability of arc control. Cooling is by convection, no fans or rotating components to cause breakdown or failure. Conservative ratings and high quality construction throughout ensures long life and freedom from trouble. Damage to arc and mirrors when striking, through surge of current, eliminated.

DEPENDABLE OPERATION. REQUIRES NO ATTENTION OR MAINTENANCE. Gaumont-Kalee Rectifiers are giving dependable, trouble-free service throughout the world - in polar regions and in the tropics.

The Gaumont-Kalee '140' Rectifier employs a three-phase bridge connected selenium rectifier, fed from a three-phase high reactance double-wound transformer.



THREE MODELS are available to suit the requirements of different supply voltages and installation conditions :—

- | | |
|--------------|---|
| 22 LFE 1250A | 210/250, 360/440 volt 3 phase 50-60 cycle supply installation in projection room—NO REMOTE CONTROL. |
| 22 LFE 1250B | 360/440 volt 3 phase 50-60 cycle supply—WITH REMOTE CONTROL. |
| 22 LFE 1250C | 200/250 volt 3 phase 50-60 cycle supply—WITH REMOTE CONTROL. |

OUTPUT It is rated to deliver a maximum output of 140 amperes mean D.C., in an ambient temperature not exceeding 45° Centigrade (113° Fahrenheit) on a duty cycle 20 minutes ON/20 minutes OFF. 140 amperes can be drawn continuously if the maximum ambient temperature does not exceed 30° Centigrade (86° Fahrenheit). Tapping switches permit the current to be varied from 80 amperes upwards.

3-PHASE SUPPLY Transformer tapplings, in 10 volt steps, provide for connection in Delta to 210/250 or in Star to 360/440 v 3 phase 50-60 cycle supply. It can also be used for 200 volt 3 phase supply, without any loss of efficiency, using the 210 volt transformer tapping, the output current at any control switch position would then be reduced approximately in the ratio of 200/210 volts.

NOISELESS OPERATION

Noiseless operation of the Arc Lamp is ensured by the incorporation of a smoothing filter consisting of a D.C. choke and condenser.

One rectifier is required for the supply to each arc lamp.





THE CONTROL PANEL In the centre of the panel is grouped the mains input switch with 'Off', 'Burn In', 'Run' and a position for 'Remote Control' when fitted in the rectifier.

Two four-position, coarse and fine, switches provide sixteen automatically stabilised arc current settings. There is also a pilot lamp, to indicate directly the main switch is moved from the 'Off' position.

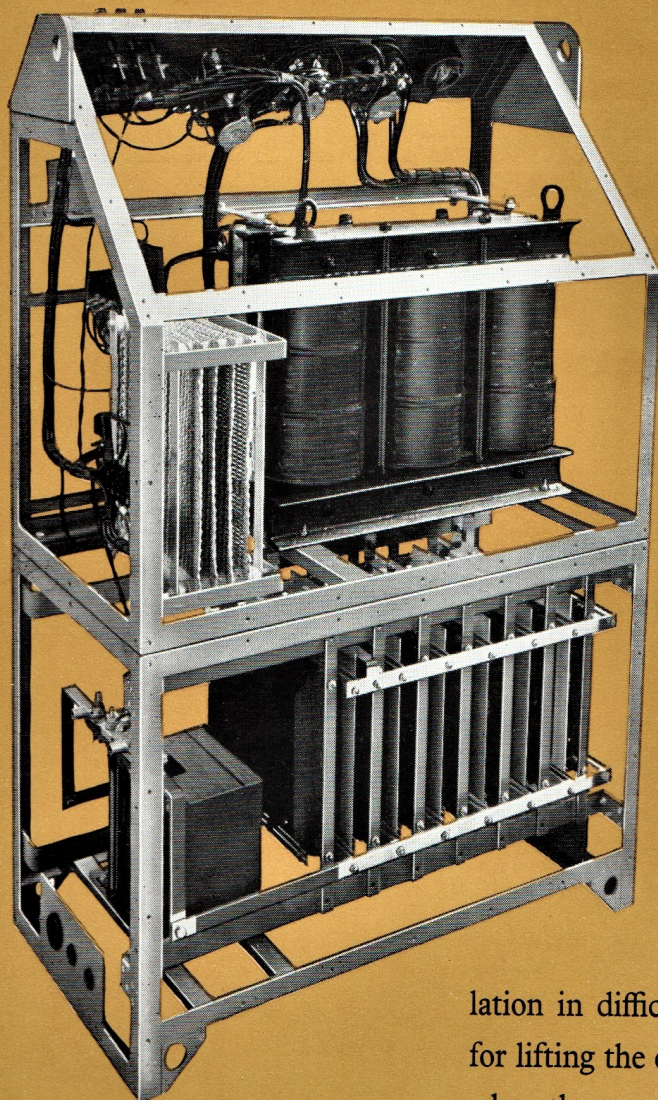
The 0 to 200 Ammeter, showing the output current is mounted on the left.

Three separate Cartridge Fuses, in the A.C. mains circuit are readily accessible on the right of the panel.

REMOTE CONTROL Where there is insufficient space, or local regulations will not permit the installation of rectifiers in the operating enclosure, the Gaumont-Kalee '140' can be supplied with remote control. The rectifier is then equipped with one single pole and one triple pole contactors which are operated from a single phase supply. A control switch with the switching sequence 'Off', 'Burn In' and 'Run' is supplied for installation in the projection suite.

IMPORTANT: When ordering rectifiers with remote control it is essential to state the voltage of the single phase supply so that contactors of the correct rating are fitted.





UNIT CONSTRUCTION

The rectifier is constructed in two separate units which are supplied bolted together, one above the other. The upper section Part 'A' comprises the transformer and the instrument panel, mounted above Part 'B' containing the selenium plate rectifier. Suitable copper links between the transformer and rectifier permit complete and easy separation of the two units to facilitate handling and installation in difficult situations. Lugs are fitted at the top for lifting the complete cubicle, and at the bottom for use when the two units are handled separately. The exterior of the rectifier is finished mid-stone hammer enamel.

DIMENSIONS AND WEIGHTS

Illustrations and specifications are subject to alteration as occasion arises.

Complete Rectifier parts 'A' and 'B' bolted together.

Height	60 ins.	152 cms.
Width	42 ins.	107 cms.
Depth	22½ ins.	57 cms.

NETT WEIGHT

Local Control Model	1110 lb.	505 Kilos
Remote Control Model	1120 lb.	510 Kilos

Packed in wood case

Height	65 ins.	165 cms.
Width	48 ins.	122 cms.
Depth	29 ins.	74 cms.

GROSS WEIGHT

Local Control Model	1340 lb.	610 Kilos
Remote Control Model	1350 lb.	615 Kilos

Part 'A' Top Section Packed in wood case

Height	39 ins.	99 cms.
Width	49 ins.	125 cms.
Depth	29 ins.	74 cms.

Local Control Model

Nett Weight	620 lb.	281 Kilos
Gross Weight	770 lb.	345 Kilos

Remote Control Model

Nett Weight	630 lb.	286 Kilos
Gross Weight	780 lb.	350 Kilos

Part 'B' Bottom Section. Packed in wood case

Height	31 ins.	79 cms.
Width	49 ins.	125 cms.
Depth	29 ins.	74 cms.

Nett Weight

	490 lb.	223 Kilos
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Gross Weight

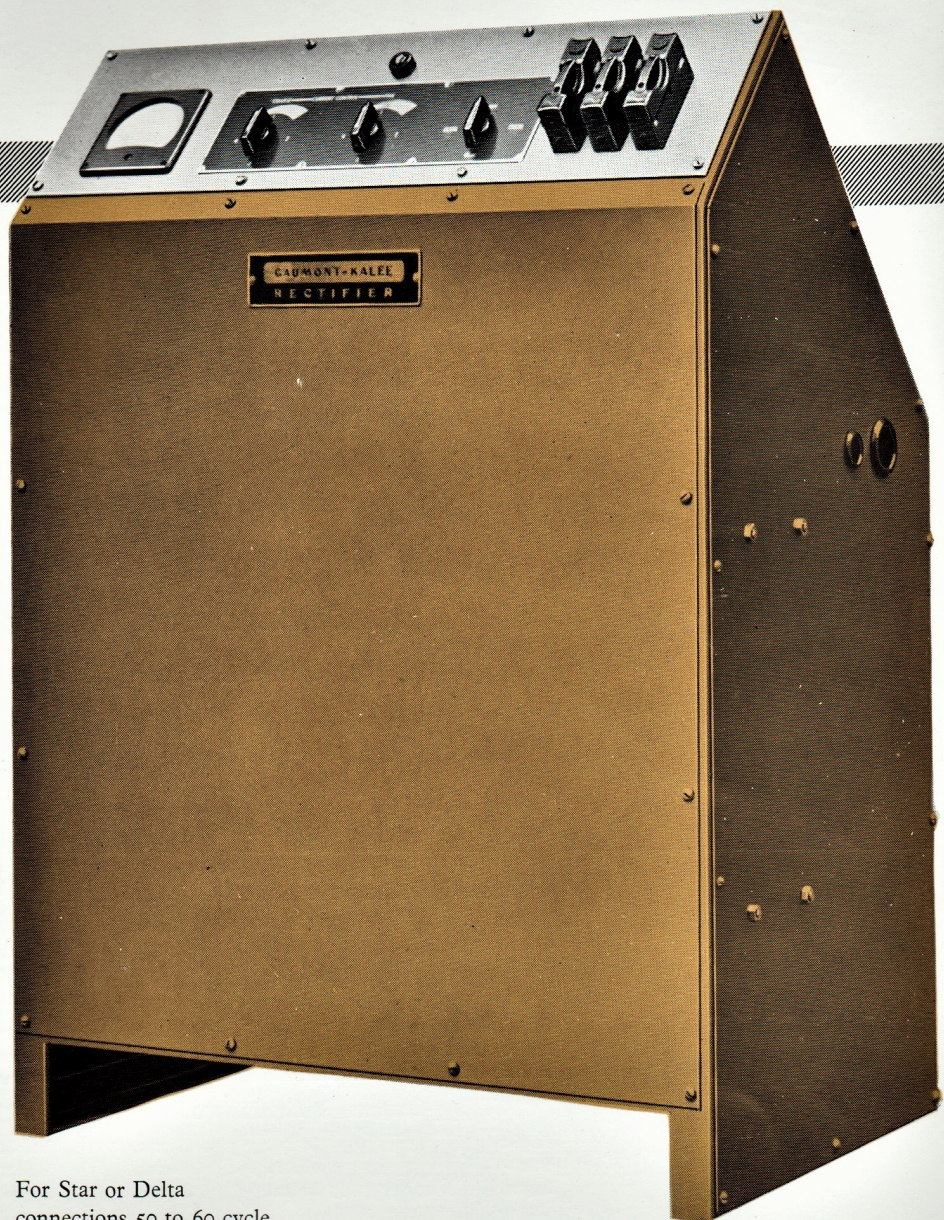
	620 lb.	281 Kilos
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GAUMONT-KALEE '80'



3-phase selenium rectifier

FOR HIGH INTENSITY ARC LAMPS
50 - 80 amperes

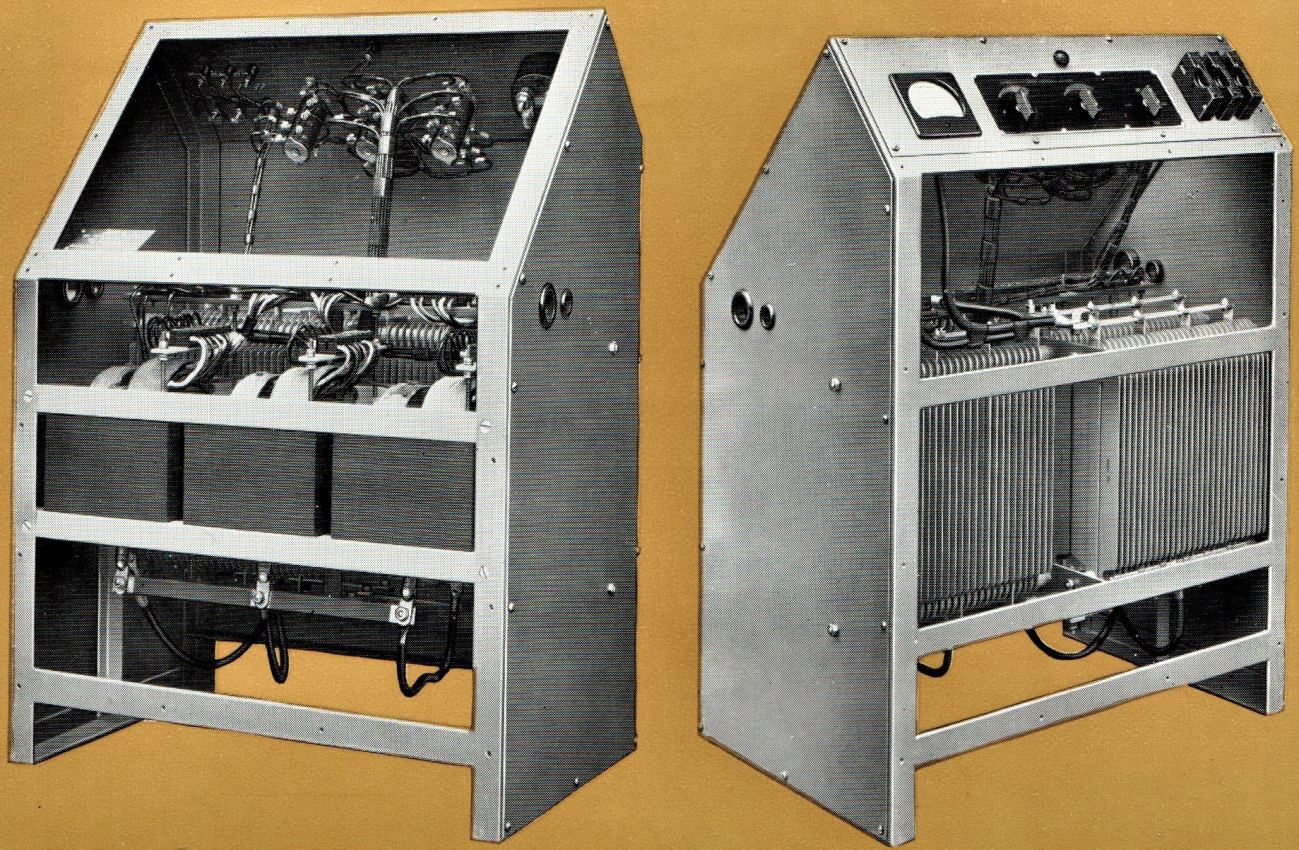


Providing sixteen automatically stabilised arc current settings from 50 to 80 amperes under temperate operating conditions and 65 amperes under tropical conditions. Convection cooling only, no rotating components to cause failure.

Will give years of service without replacements being necessary.

The high current rectifier at a low price

For Star or Delta connections 50 to 60 cycle mains.



This leakage inductance stabilised equipment employs a conventional bridge rectifier circuit fed from separate transformers in each phase. These are controlled by two 4-position current adjusting switches which are mounted on the control panel to provide a readily accessible means of selecting the arc current setting required. The output ripple component is limited to 3%.

The rectifier is designed to give 65 amperes, in an ambient temperature not exceeding 45° Centigrade (113° Fahrenheit) on a duty cycle 20 minutes ON/20 minutes OFF. At 30° Centigrade (86° Fahrenheit) it is rated to supply 80 amperes continuously.

The four-positioned output switch with 'Burn In', 'Run' and 'Off' positions, is mounted on the right of the control panel.

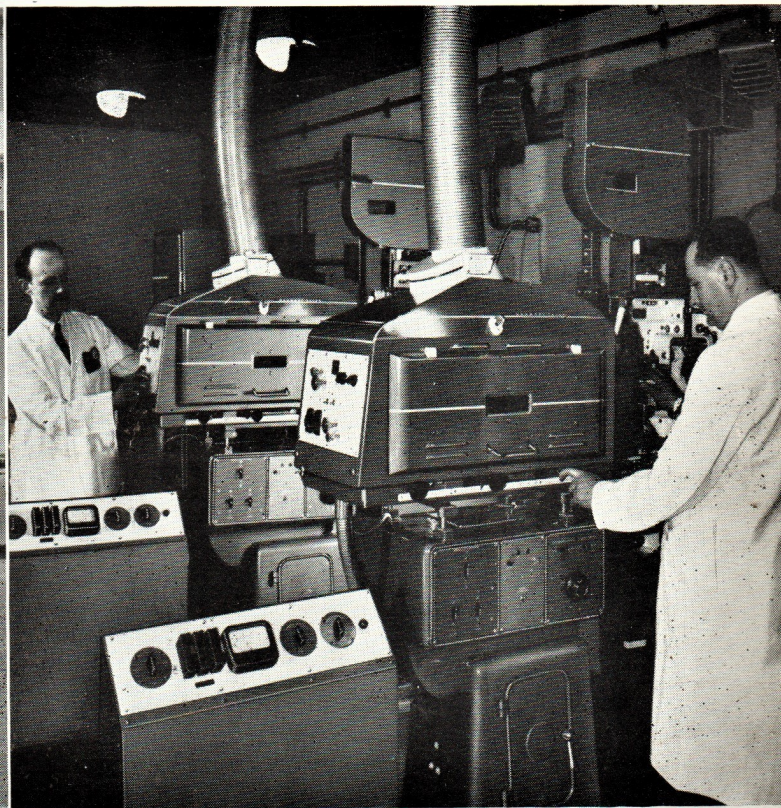
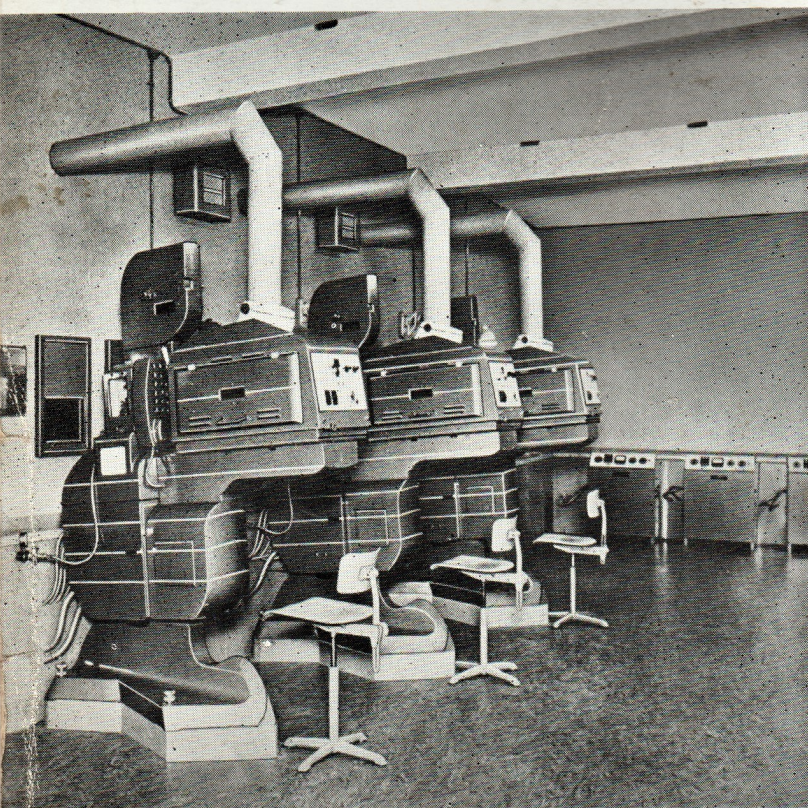
Input connections to each transformer provide facilities for connecting the primary windings in Star or Delta, i.e. Star connections for 360, 380, 400, 415 and 440 volts mains and Delta connections for 210, 220, 230, 240 and 250 volts on 50 to 60 cycle mains supplies.

The rectifier can be operated with entire satisfaction on 60 cycle mains.

A pilot lamp is provided on the main switch panel and is connected to indicate directly the main switch is moved from the 'Off' position. Three separate fuses in the A.C. mains circuit in the primary circuit are mounted on the right of the panel to provide easy accessibility. The 0 to 100 ammeter mounted on the left has a large open scale. These equipments are designed to stand beside their corresponding projector or, if required, may be installed outside the operating room and remote controlled by the use of a special contactor and switch panel.

DIMENSIONS

	Rectifier		Packed in case	
Height	35 ins	89 cms	41 ins	104 cms
Width	27 ins	68 cms	34 ins	87 cms
Depth	19 ins	49 cms	26 ins	66 cms
Nett Weight	394 lbs.	179 Kilos	Gross Weight	548 lbs 249 Kilos



Two Gaumont Kalee '80' Rectifier installations

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



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