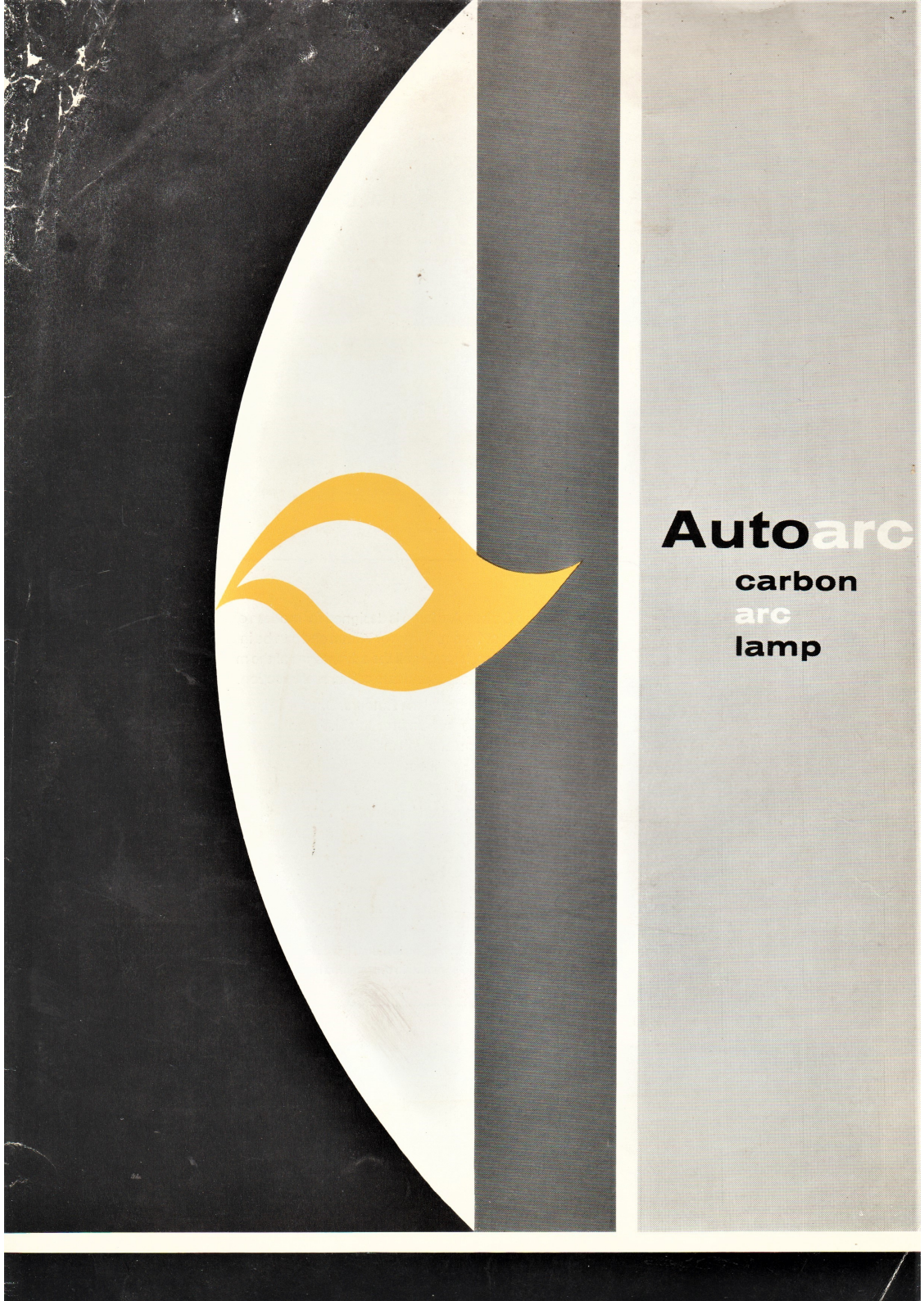


Autoarc

carbon
arc
lamp

Auto arc

electronically controlled constant light output

Fully applicable to any automated system

Long running time without carbon re-trim

All the advantages of the carbon arc over other light sources

Can be powered by existing rectifiers or motor generators

Low initial installation cost

Economic and reliable performance

type
Reflector type DC operated High Intensity Horizontal Arc.

carbons
Morganite 7 – 8 or 9 mm × 18″ (455 mm) or
20″ (500 mm) positive (copper coated)
6 to 8 mm × 12″ (305mm) negative (copper coated)
according to current employed.

operating conditions

Amps	*A/V*	*Lumens* (*Aperture* 0.825 × 0.6)	*Continuous burning minutes*
50	38	12,000	135
55	39	13,000	110
60	41	15,000	90
65	43	16,750	70
70	45	18,500	60
75	46	21,000	70
80	48	23,000	50

optics
Ellipsoidal Mirror – diameter 14.0″ (355 mm)
Minor Focus 5.0″ (127 mm) Major Focus 34.0″ (864 mm)

optical height
9″ (229 mm)

size of lamphouse
Overall length : 38″ (965 mm)
width 22.5″ (572 mm) height 25″ (635 mm)

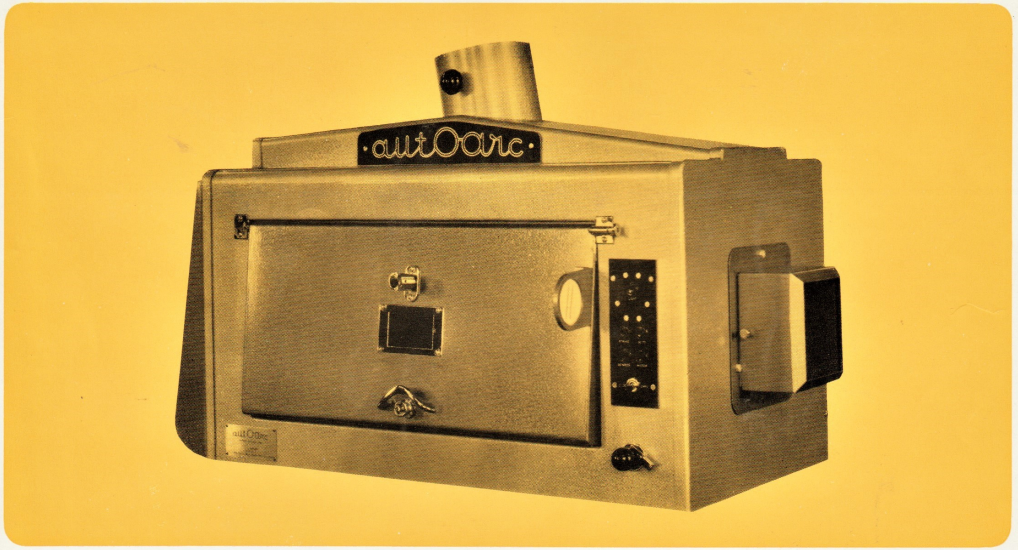
The Autoarc Carbon Arc lamp is designed for modern cinematograph film projection at 16mm, 35mm or 70mm and can be incorporated into any automated system. It retains all the advantages of the modern carbon arc giving a high light output and true colour reproduction.

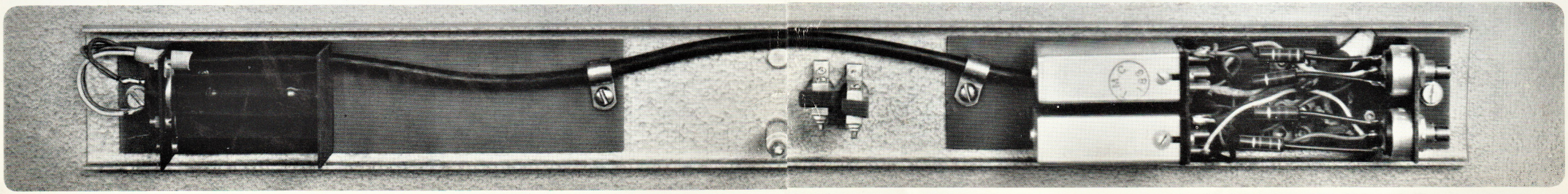
Only two switches control the Autoarc. One for striking the arc, the other controlling the dowser and mirror shield. When the arc is struck the Autoarc electronic master unit maintains both carbons in the correct focal position for maximum light output and will operate unattended for $2\frac{1}{4}$ hours depending on current loading and light output required.

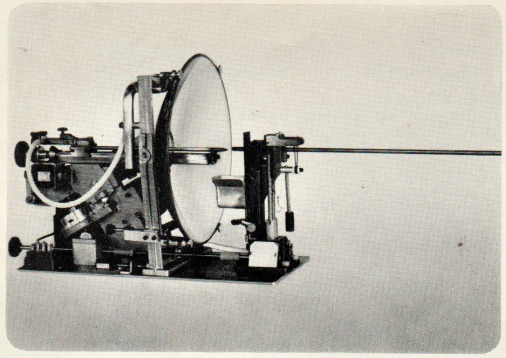
The Autoarc can if required be remotely controlled from any part of the cinema.

No additional supply or rectifier other than the normal DC is required for installation.

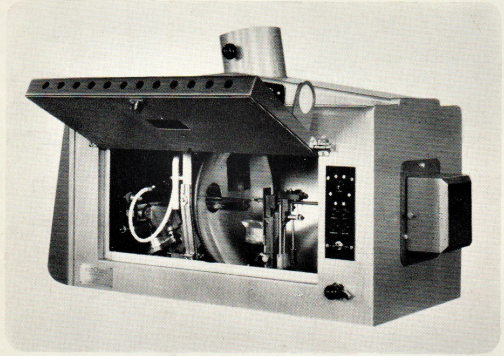
Below is the Autoarc electronic master unit. It is the brain of the lamp and automatically controls the carbon feed to maintain the required light output.







The Autoarc light unit showing the carbon rods in position



The Autoarc with side door elevated and the light unit in situ

method of operation

striking the arc

The arc is automatically struck by the forward movement of the negative carbon holder when the arc supply is switched on.

carbon control

The carbons are initially positioned by means of a simple guide. As the arc is struck an optical electronic device automatically takes over control of both carbons and maintains them in their correct position to within 0.25 mm during the whole time the arc is operating.

the dowser

The dowser is coupled to the mirror shield and is opened and closed by means of a switch operating a DC solenoid.

Enquiries to:

Patents applied for:

British Arc Lamp Carbon Manufacturers Association

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