Ashcraft

presents

SUPER CORE-LITE®
35/70

CORE-LITE® 135
35/70

CORE-LITE® 110

PROJECTION ARC LAMPS

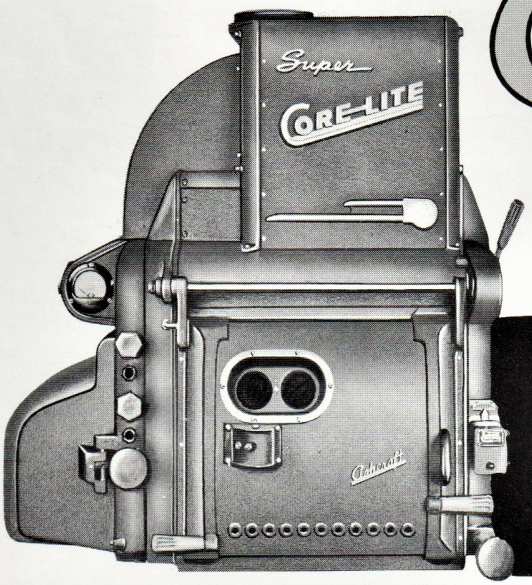
with the Exclusive Ashcraft Core-Lite Optical System!

Patented
U.S. Pat No. 3,308,715
Foreign Patents Pending

...THE MOST MODERN, EFFICIENT PROJECTION ARC LAMPS EVER DEVELOPED FOR LIGHTING ALL THEATRE SCREENS!

The Ashcraft SUPER CORE-LITE®

35/70 projection lamp



An 18 inch reflector-type, High Intensity Projection Arc Lamp designed for perfect 35/70mm motion picture projection, using inexpensive 13.6mm x 18 inch positive carbons and equipped with pure silver water-cooled contacts—operating range 135-165 amperes.

UNEQUALLED PROJECTED LIGHT FOR THE LARGEST INDOOR AND DRIVE-IN THEATRE SCREENS!

LIGHT

135-165 Amperes

The Super Core-lite is the most powerful projection lamp manufactured—able to produce and project a perfect light balance—combining maximum center light output—with maximum side-center screen light distribution—while producing the finest projected light color for presentation of color or black and white motion pictures.

PROJECTION

COMPATIBLE WITH EVERY PROJECTION PROCESS IN USE TODAY AND IN THE FORESEEABLE FUTURE. Ashcraft's exclusive 18 inch Front Surface Cold Type Reflector is the only reflector required regardless of the type of projection process. Works equally as well projecting Cinerama, D-150, 70mm, 35mm, Cinemascope or regular flat picture images.

OPTICS

The Ashcraft Core-lite optical system (patent pending) combined with the 18 inch Ashcraft Cold Reflector and standard 13.6mm x 18 inch High Intensity positive carbon projects an extremely large diameter low angle cone of light on to the film aperture and through the projection lenses. Light vignetting losses are reduced or eliminated especially with short focal length projection lenses. Light and heat are distributed evenly over the entire film surface. Projected light is greatly increased and picture focus is improved as the projected picture is evenly illuminated over the entire screen surface.

CARBONS

The correct carbon trim for the Super Core-lite projection lamp is . . .

POSITIVE CARBON—13.6mm x 18" Standard High Intensity L-0112 or 552-09.

NEGATIVE CARBON—7/16" x 9" Special L-1132 or 559C.

CARBON ECONOMY BEYOND IMAGINATION! Operating with an Ashcraft S/1712R Rectifier you can expect approximately 4-5 full reels at 130-140 amperes from a single 13.6mm x 18 inch inexpensive positive carbon; 3-4 reels at 150-155 amperes; and 2-3 reels at 160-165 amperes.

VENTILATION

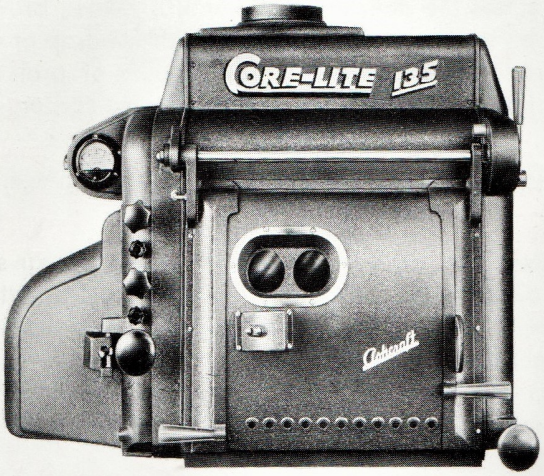
Excellent lamphouse ventilation and cooling of Reflector is provided by a built-in air injection and exhaust system.

● *The mechanical design exclusives which are characteristic of all Ashcraft Projection Arc Lamps are fully described on the back page.* ●

FOR MEDIUM SIZE INDOOR THEATRE SCREENS UP TO 50 FEET WIDE AND DRIVE-IN THEATRE SCREENS UP TO 105 FEET WIDE

35/70

The Ashcraft CORE-LITE 135



115 to 135 Amperes

The CORE-LITE 135 operating in an intermediate current range has the same unmatched light making capabilities as the Super Core-lite arc lamp. It has a high percentage of white light distribution found only in the Ashcraft CORE-LITE optical system with a flexibility of 80% to 100% and still maintains its high quality of white light output.

CARBON ECONOMY IS IN A CLASS BY ITSELF. At 135 amperes only 2¾ inches of 13.6mm x 18 inch positive carbon is burned per reel. Approximately five full reels can be obtained from a full carbon allowing for reasonable safety in the remaining stub. At 120 amperes the burning rate of the same carbon is less than 6 inches per hour of operation.

The CORE-LITE 135 with a single 18 inch front surface cold reflector is a real all purpose projection arc lamp. It operates with equal efficiency on Cinerama, 70mm, 35mm, Cinemascope and flat picture images.

The Ashcraft CORE-LITE 110

The *first* Ashcraft CORE-LITE arc lamp using the exclusive Core-lite optical system. Identical to our Core-lite 135 but equipped with a 16" Balcold or optional Front Surface Cold Type Reflector. Burning an 11mm High Intensity positive carbon within the current range of 78 to 115 amperes, its low arc voltage contributes to excellent carbon economy and white light distribution at a higher percentage than any other arc lamp burning an 11mm positive carbon.

The CORE-LITE 110 is the most modern and economical replacement for Suprex type lamps burning 8 and 9mm copper coated carbons and high intensity lamps burning 9 and 10mm black high intensity carbons. Approximately 4 to 6 reels can be expected from a single 11mm x 17½ inch H.I. positive carbon.

Our CORE-LITE 110 is recommended for use in small to medium size indoor theatres with screen widths up to 42 feet and Drive-in theatres with screens up to 85 feet wide.

EXCLUSIVE *Ashcraft* FEATURES!

OPTICAL SYSTEM

The Ashcraft CORE-LITE optical system (Pat. 3,308,715) is new and exclusive with Ashcraft. The optical system incorporated into our CORE-LITE line of arc lamps is integrated with the lenses in your projector.

The Ashcraft 18 inch Front Surface Coated Cold Reflector in the Super Core-Lite and Core-Lite 135 (16 inch in Core-Lite 110) operating at an exclusive 29½" optical working distance projects an extremely large diameter, low angle cone of light on to the aperture film plane. At this point of interception of the light beam, only the pure white light from the magnified positive carbon core enters the aperture. The harmful yellow, brown and red rays of the shell of the positive carbon are dissipated on to the water-cooled projector film trap or cooling plate. Light vignetting losses in the projection lens are reduced or eliminated and quality of projection is improved due to the fact that the light and heat from the highly magnified core of the positive carbon is more evenly distributed over the entire film surface.

Only the CORE-LITE optical system can produce such a high percentage of white light distribution with a perfectly lighted screen from side to side and top to bottom.

Our CORE-LITE reflector arc lamps using a single Cold Reflector, either front surface coated or rear surface coated produces maximum core magnification for 70mm projection. Maximum light and selective distribution for 35mm projection can be obtained in a relatively few seconds by refocusing the positive carbon in accordance with the arcscope screen gauge on the lamphouse and specifications in the manuals under "*Relative Carbon Positions.*" It should be noted that the SUPER CORE-LITE and CORE-LITE 135 projection lamps have the highest optical f speed of any projection arc lamp manufactured today. This means more light for large drive in screens using modern and efficient high speed projection lenses.

BASIC DESIGN FEATURE

In the manufacture of every ASHCRAFT projection arc lamp, extensive use is made of expensive aluminum castings, bronze, copper and alloy steel components. Our water-cooled positive carbon contacts are made of pure silver (999 plus fine) which, with recommended care will last for years. Full use of ball, needle and roller bearings assures long operating life with a minimum of maintenance. Another exclusive feature is an electronic negative feed control completely independent of the arc voltage, allowing selective arc gap and voltage selection for all currents. These features and the simplicity of construction of CORE-LITE type arc lamps insures against breakdowns or interruptions in service—making them *truly preferred by most projectionists and maintenance supervisors.*

LOW ARC VOLTAGE

Our exclusive low angle position of the negative carbon (25°) combined with our own method of magnetic field control produces a low arc voltage—stabilized positive carbon tail flame and flat burning carbon face. External vertical and lateral negative carbon adjustment controls allow the operator to obtain the best arc form—no under burning—no overburning of the positive carbon. Low arc voltage means less D.C. Watts of electricity consumed, a shorter tail flame and greater economy in carbon costs.

SUPERIOR LAMPHOUSE VENTILATION

All CORE-LITE type arc lamps feature fully air cooled reflectors. Built into our Super Core-Lite arc lamp is a highly efficient air injection and power exhaust system. The housing at the top of the lamp encloses a full ball bearing motor which drives two powerful blower wheels—that at the front injects cool air, passing it down the front duct, through the base of the lamp, then up and over both the front and rear of the reflector. The rear blower wheel expels the heat, smoke and carbon ash created in the arc housing. This same exhaust blower draws cool air through the bottom of the rear door passing it over the rear mechanism and further cooling the reflector. This truly is a fully air conditioned lamphouse.

In our CORE-LITE 135 and CORE-LITE 110 arc lamps a separate A.C. blower is provided, which supplies air through a duct system directed towards the reflector, thus dissipating the heat surrounding the front and rear of the reflector. Additional ventilation through the base of the rear door, and over the lamphouse rear mechanism is supplied by the normal exhaust of the projection booth exhaust system. Incorporated into every lamphouse is a finely engineered baffle system which results in a well ventilated lamp.

In all installations, ASHCRAFT MANUALS recommend the proper booth exhaust system and C.F.M. specifications to support our own built in systems for lamphouse ventilation and reflector cooling.

SOLD EVERYWHERE IN THE UNITED STATES BY ALL ASHCRAFT AUTHORIZED THEATRE SUPPLY DEALERS

C. S. ASHCRAFT MANUFACTURING CO., INC.

36-32 THIRTY-EIGHTH STREET, LONG ISLAND CITY, NEW YORK

THEATRE EQUIPMENT & SUPPLY TESMA MANUFACTURERS ASSOCIATION, INC.