

MILKSTONE DETECTION

with BLAK-RAY LAMPS

MILKSTONE — That often-invisible, long-enduring problem of the dairy industry — has a **POTENT ENEMY** in **BLAK-RAY** Lamps from Ultra-Violet Products, Inc. These lamps can play a major role in quality control and sanitation.

Now, with the high-intensity **B-100A**, or battery operated **ML-49** **BLAK-RAY** Lamp, you can:

- Detect milkstone deposits before they build up.
- **PREVENT** bacteria breeding milkstone by **early** detection and cleaning.
- Detect minute leaks in tanks and pipelines by fluorescing milk deposits.

It's the fastest, simplest way to keep your dairy operation free of this type of contamination and safe from quarantine ... even the smallest milkstone deposit fluoresces brightly under ultraviolet light. It is already in common use by federal, state and municipal health departments, including the U.S. Food and Drug Administration. The New York City Department of Health has specified that all milk plants within its jurisdiction must have a black light lamp to inspect equipment that is "cleaned in place."

IS IT CLEAN?

Any equipment that stores, carries, contains, or contacts milk should be checked at least once a week with a BLAK-RAY @Lamp to ensure your cleaning chemicals are doing the job. The most common places for milkstone buildup-invisible at first-are roughened areas, such as agitator blades, welded seams, corners of valves, and valve junctions.

Under long wave black light, fresh deposits will fluoresce a strong yellow-white—and even after cleaning and sanitation procedures, the milkstone will fluoresce a bright blue-white if the chemicals used are not effective.

SIMPLE DETECTION

After a few tests, the user can easily distinguish between milkstone fluorescence and reflection from stainless steel or hard water-deposits; The latter reflect the purplish light of the lamps which may be confused with fluorescence at first. (Of the visible light and black light produced by the BLAK-RAY B-100A Lamp, less than one per cent of the visible light comes through the filter while 50 per cent of the black light comes through. The visible purple light can be reduced even further if two filters are used in the lamp.)

An easy way to differentiate between fluorescence and reflection is to move the BLAK-RAY Lamp back and forth at an even distance from the suspected fluorescent surface. There will be a marked change in brightness if it is reflection; however, if the area is a milkstone deposit, the brightness will stay the same—glowing like a warning beacon.

Grease used on various valves and connections also fluoresces (blue-white or yellow) but can be easily distinguished from milkstone by wiping it off with a cloth or fingers. Milkstone cannot be removed in this manner.

AT YOUR SERVICE

BLAK-RAY long wave ultraviolet lamps are the finest, most reliable, and versatile units made. Ruggedly built, superbly engineered, they will give years of efficient service.

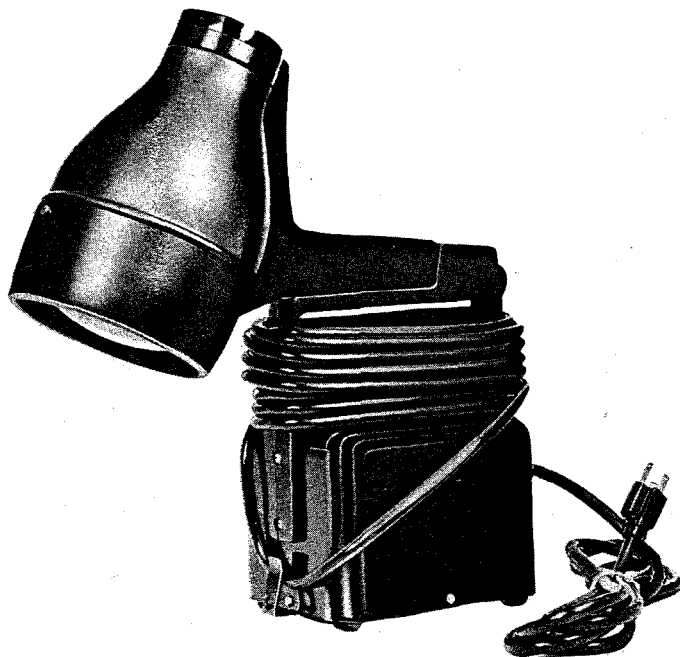
ONE MODEL is particularly recommended for dairy applications. The portable BLAK-RAY® Model B-100A is an exceptionally powerful lamp, capable of fluorescing the back of a 6,000 gallon holding tank from the entrance port. It is unexcelled for inspection and close-up analysis, even in lighted areas. The lamp head rotates a full 360° and is removable from the transformer base for more portable hand use.

MODEL B-100A with the 20 foot secondary cord is especially useful because the lamp, alone, can be hand-carried into difficult and distant areas from the transformer.



B-100A BLAK-RAY LAMP

High intensity, portability... cuts inspection time... reduces labor costs



- 100-watt black light spot bulb.
- 8 ft. primary cord length from outlet to transformer; 6 ft. secondary cord from transformer to lamp.
- 20 ft. secondary cord on request. Particularly useful for hand carrying lamp to distant and restricted areas without the transformer. Comes with clip to prevent cord unwinding or tangling.
- Specially molded black Bakelite handle stays cool.
- Bell-shaped black anodized aluminum housing.
- Recessed 5" special black light filter. Two filters recommended to further reduce visible light.
- Transformer has isolated secondary coil, with 3-wire cord for extra safety. Operates on 115 volt, 60 Hz.

- U.L. and C.S.A. listed.

B-100A WITH 20 FT. CORD
Shipping weight 20 lbs.

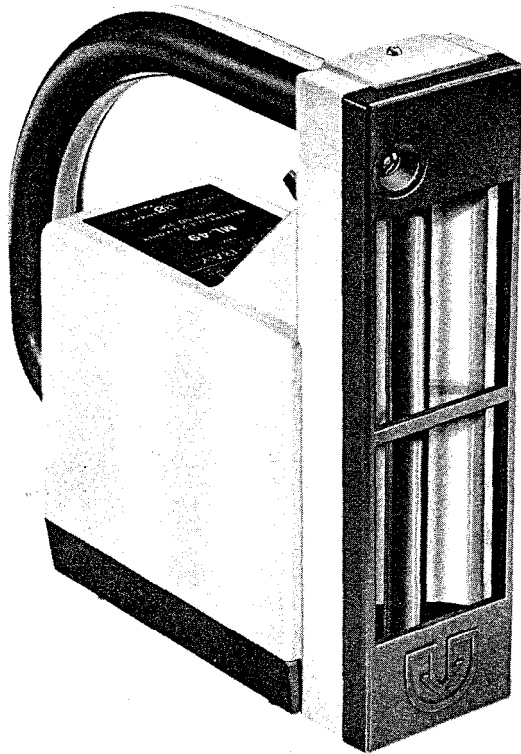
B-100A WITH 6 FT. CORD
Shipping weight 19 lbs.

19057 REPLACEMENT OR EXTRA FILTER
FOR B-100A LAMP
Shipping weight 1 lb.

19081 REPLACEMENT SPOT BULB
FOR B-100A LAMP
Shipping weight 2 lbs.

BLAK-RAY[®] ML-49 LONG WAVE PORTABLE HAND LAMP

...most powerful, portable battery operated lamp on the market!



All new. ..with more fluorescence than ever before possible with a self-contained battery-operated lamp. This 6 watt, BLAK-RAY LAMP lets you sweep broader, deeper areas than ever before possible uncovering the most brilliant fluorescence ever achieved with a self-contained, battery-operated lamp.

NEW, RUGGED CYCOLAC[®] HOUSING.. .

Light weight, super-strong, molded CYCOLAC[®] housing. So tough it is used in NFL football helmets. Won't stain, dent, peel, chip or rust. Color molded clear through.

Model ML-49 BLAK-RAY LAMP

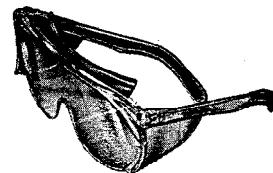
(Batteries extra)
Shipping weight, 6 lbs. with batteries

J-144 6 VOLT LANTERN BATTERIES

(Not included) 2 required.
Shipping weight 4 lbs.

- LIGHT WEIGHT...weighs only 4½ lbs. with batteries.
- SELF-CONTAINED FLASHLIGHT.. . for your safety.
- BATTERIES. . .standard 6 volt lantern batteries (2 required) have 20 hours-plus life. Can't be ruined by faulty placement.
- POWERFUL 6 WATT TUBE
- NEW HANDLE.. . reinforced 1 inch diameter wrap-around handle permits use of lamp at any angle.
- SNAP-OPEN BATTERY COMPARTMENT ... for easy insertion of batteries.
- ONE SWITCH. . . on/off toggle switch for ultraviolet and flashlight. Both can't be on at same time to drain batteries.

uvc-303 NEW. IMPROVED CONTRAST-CONTROL SPECTACLES



All new spectacles provide extreme clarity by absorbing ultraviolet and "blue haze" interference from ultraviolet sources. Greatly improves fluorescence contrast and may be worn comfortably over regular eye glasses.

* [®]Cyclac is a registered trademark of the Borg-Warner Corporation.

YOUR AUTHORIZED DEALER