

Tokyo Litho Supplies
Chemical-Free Offset Dampening Systems
[CFD Systems]
Model: "Ladybird-801"

Instructions for Users

Important!

- 1) The working voltage for the Systems is 100 V AC (50/60 Hz). Make sure that the voltage supplied to your CFD System is being properly converted down to 100 V by the step-down transformer if the rated service voltage in your area is higher than 100 V.
- 2) Also, make sure that the Water Pump's cable is connected with the AC outlet on the side of the Lamp Controlling Board

1. Check the water level in the circulation tank. Supply water as necessary.
2. Make sure that both of the Water-IN and Water OUT tubes running from the Main Unit are properly connected to the right positions on the side of the circulation tank.
3. Turn the handles for the Valve #3 (under the drain tube installed on the circulation tank) and the Filter Valves #1 and #2 (on the Main Unit) into the positions parallel to water stream.
4. Turn on the Lamp Power ON-OFF Switch on the Controlling Board. The Green Lamp will light up while the Red Lamp will not. [Note] Do not look in the Eye Hole behind the Unit for a prolonged time.
5. The Red Lamp lights up only when the Lamp is burnt out, which will be also warned by the buzzer when the Buzzer ON-OFF is turned to ON position.
6. The Water Pump is located inside the Pedestal of the Unit. Turn on the Red Switch on the side of the Pump.
7. Noise of flowing water may be audible everywhere near the Unit. This does not cause any problem.
8. See that the flowing water is properly returning to the circulation tank.
9. On the top of the Filter, there is a white screw for air exhaust. Loosen the screw slightly and leave it loosened until small quantity of water oozes out and tighten it again.
10. There is a Phillips Screw (for air exhaust) near the Eye Hole of the Lamp. Slightly loosen the Screw and leave it loosened until small quantity of water oozes out and tighten it again.
11. Confirm if there is no water leakage from any part of the Unit. When a leak is found, take contact with the dealer after the shut-down operation as mentioned in 13).
12. A 20-30 minute preliminary run is usually needed so as to make the tank water temperature come to stay in a pertinent range.
13. Prior to shut down the operation, turn off the Lamp Power ON-OFF Switch, the Water Pump Switch and close all of the 3 Valves on the Unit putting the handles at right angle with the Water Tubes.

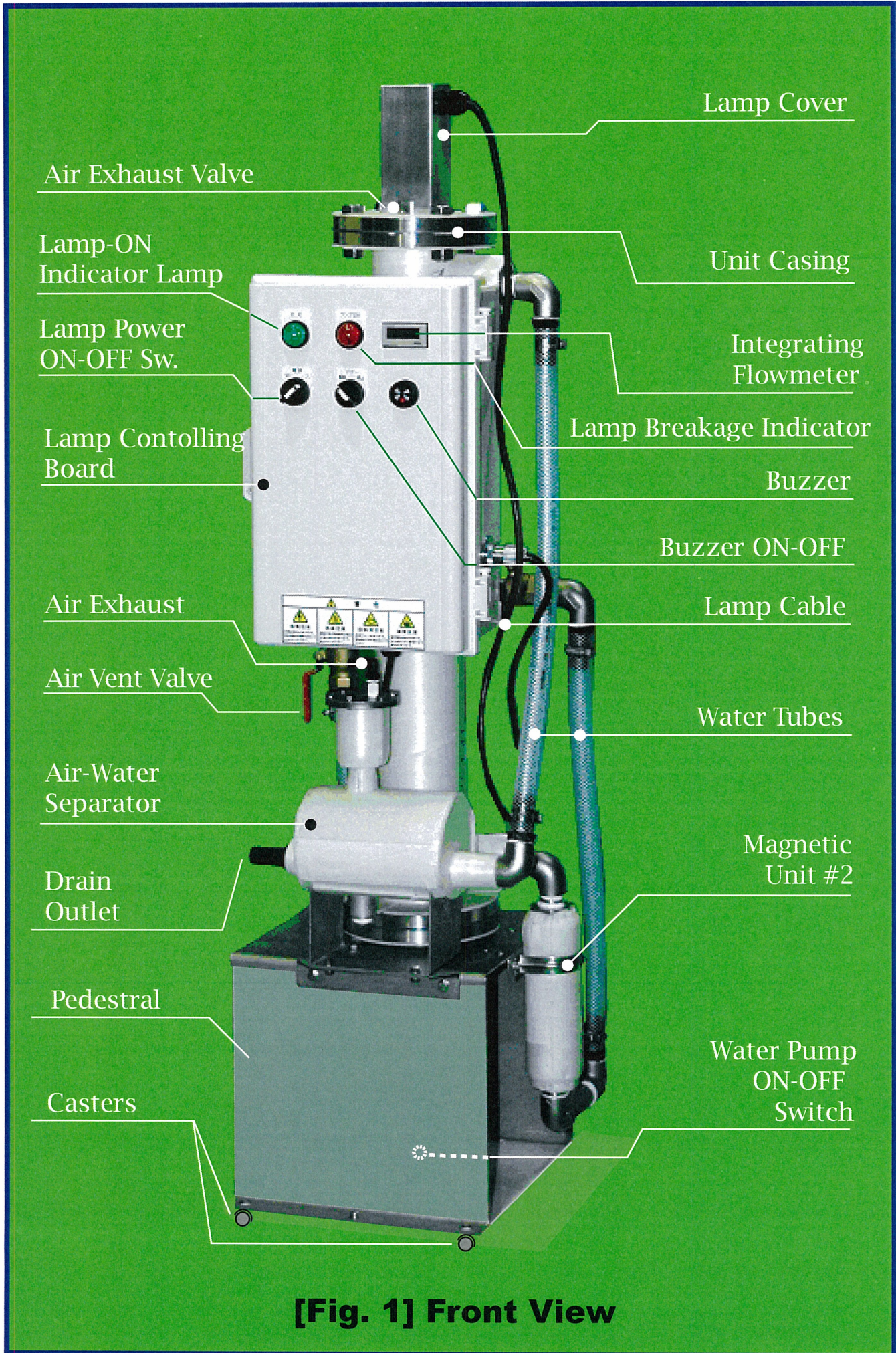
Specifications are subject to change without notice.

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Operational Cautions

1. With this system, unlike the traditional operation practice, prior to each job run, "Pre-Dampening" of the dampening rollers and printing plates are required to provide them with hydrophilic (water-attracting) nature.
2. Since, with this System, less ink is usually needed than with any of conventional dampening solution, do not try to feed ink excessively just following the past practice or experience. A lower ink dial will become the new standard for your presses.
3. As is the case with the ink feed, do not feed too much water. Start running at a considerably low dial.
4. When water level in the circulation tank found low, refill water as needed.
5. Essentially, no chemical is needed to add in circulating water. Only when the operator find it preferable to use some kind of additive, add at minimum and make a test run. In any case, do not forget to always keep your Ladybird Unit running all through the operation. This is the key to higher print quality which was not achievable with the conventional way.
6. This system keeps printed substrates chemical-free with little or no impact on environment. And, since the prints dry faster than before, use the anti-offset spray powder very sparingly. Ink trapping will be much improved. Even with thinner ink film, you can achieve prints in much higher density and color saturation will also be much improved. Please remember that you should not try to feed more ink than necessary. When ink feed is increased, feed more water proportionately.
7. If printing result is not satisfactory enough despite the above-mentioned cautions, the press condition should be checked. On presses which used to run on Isopropyl Alcohol or strong chemicals, usually water and ink rollers are heavily damaged and should be exchanged with new ones to run alcohol free.

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[Fig. 1] Front View

UV Lamp Replacement
Screws

(2 Phillips Screws)

4 Bolts for
Photocatalyst Replacement

24 mm Nut x 4

Power Outlet
(100V AC)

Controlling Board
Door Handle

Filter Valve (#2)

Eye Hole

Air Exhaust Valve

Filter Valve (#1)

Filter Housing

(Filter Mesh: 1 Micron)

Drain Valve

Waterfeed to Pump

[Fig. 2] Rear View

