



Owner's Manual Afford-A-Flash

Flat Panel Infrared Flash Dryer

(Original Instructions)



IMPORTANT INSTRUCTIONS

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

This manual covers assembly, operation, and troubleshooting.

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WARNINGS

The operator should familiarize themselves with this manual and all the **WARNINGS** before installing or working on this heater to avoid potentially hazardous conditions, severe property damage, personal injury, or death.

1. BBC Industries is interested in the safe operations of this equipment. All wiring to this equipment must be connected to the source in strict accordance with all local codes having jurisdiction.
2. A dedicated electrical (earth) ground is required for proper operation of the equipment.
3. This equipment is meant for the drying/curing of non-flammable Plastisol inks on textiles or the like. Use for any other purpose may cause fire, electric shock, or injury to persons.
4. This heater is for indoor, non-residential use.
5. Install unit in a location with adequate emergency exits.
6. The dryer has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
7. Use the dryer in a well-ventilated space. Refer to the Safety Data Sheet (SDS) for any inks or dyes that you are curing.
8. The area around this equipment should be designated as a work zone with only authorized personnel allowed in the work zone.
9. Keep the work zone clean and free of debris. A perimeter of at least 18 inches (.5 m) around the equipment is recommended.
10. Do Not use extension cords to power this equipment.
11. This equipment is hot when in use. To avoid burns, do not touch hot surfaces. Do not set objects on the unit.
12. Puncture of the heating element face may result in a shock hazard. Do not operate if heater face or power cord is damaged.
13. Do not operate the heater after it malfunctions. Disconnect power at service panel and have the dryer inspected by a qualified technician before reusing.
14. To disconnect the heater, turn off power and unplug the device.
15. When energizing the unit, be sure heater face is not within 3 ft. (1 m) of any combustible materials.
16. Do not leave the unit unintended while in use.
17. These units do not produce noise exceeding 70 dB(A).
18. Handle unit in a safe manner.

Model List and Electrical Information:

MODEL NO.	ELMENT SIZE	VOLTS	WATTS	AMPS	PLUG TYPE
LC1600	16" x 16"	120	1552	12.9	NEMA 5-15P
LC1800	16" x 16"	240	1853	7.7	NEMA 6-20P
LC1800-CE	16" x 16"	230	1701	7.4	CEE 7/7
LC2200*	18" x 18"	120	2283	19.0	NEMA 5-20P
LC2700	18" x 18"	240	2708	11.3	NEMA 6-20P
LC2700-CE	18" x 18"	230	2487	10.8	CEE 7/7
LB2800J	18" x 18"	200	2778	13.9	NEMA 6-20P

*The LC2200 must be connected to a Single Receptacle on an Individual Branch Circuit. Do not connect this heater to circuit supplying multiple receptacles.

DO NOT MODIFY THE CORD OR PLUG. This may compromise the safety of the unit and will void the warranty.

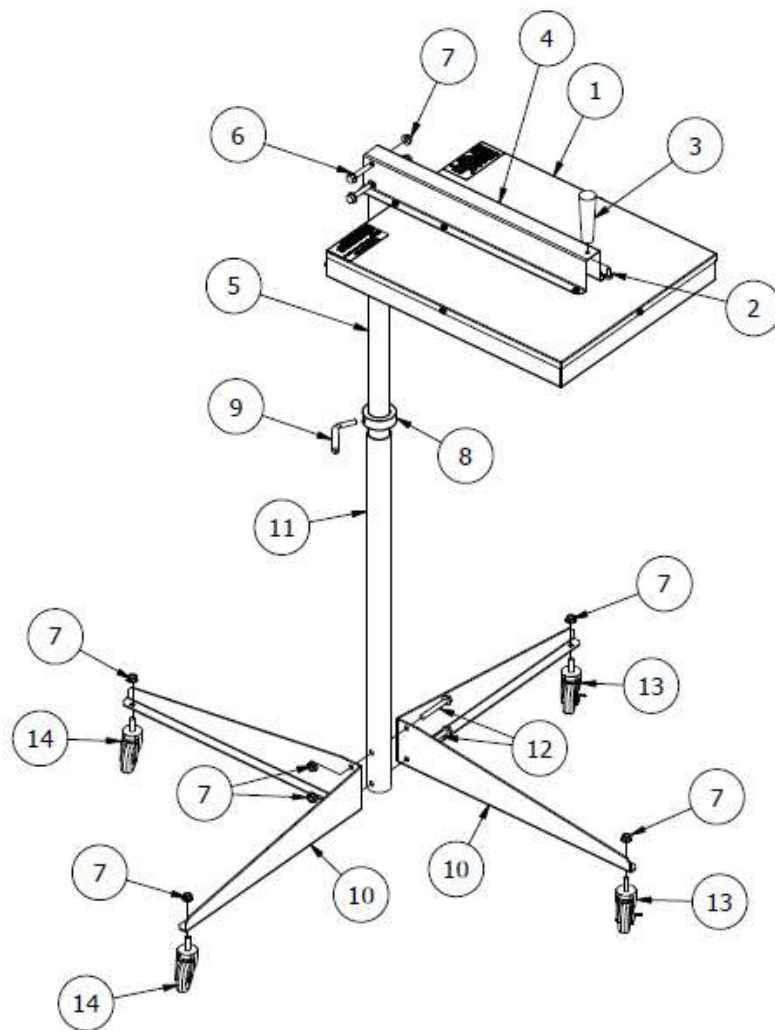
Assembly:

Tools required: (2) 1/2-inch wrench, (1) 7/16-inch wrench, and a Level.

BE SURE ALL PARTS ARE INCLOSED.

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	VARIES	FLASH HEATER
2	1	25-009	BOLT – 1/4-20 x 1/2L HEX HEAD
3	1	90-570	HANDLE – BLACK WITH 1/4-20 INSERT
4	1	LC98-22	MOUNTING BRACKET
5	1	LC98-16	UPPER TUBE 1.38 O.D.
6	2	25-249	BOLT – 5/16-18 x 1-3/4L HEX HEAD
7	8	24-008	NUT 5/16-18
8	1	13-141	COLLAR 1-7/16 I.D.
9	1	97-184	BENT BOLT
10	2	LC98-09	LEG
11	1	LC98-15	LOWER TUBE 1.63 O.D.
12	2	25-032	BOLT – 5/16-18 x 2.5L
13	2	28-012	CASTER W/BRAKE
14	2	28-012-1	CASTER

1. Attach **HANDLE [3]** to **MOUNTING BRACKET [4]** with **BOLT [2]** using 7/16-inch wrench.
2. Align the two holes in the **MOUNTING BRACKET [4]** with the two holes in the **UPPER TUBE [5]**. Insert the two **1-3/4L BOLTS [6]** through the hole and secure with **NUTS [7]** using the 1/2-inch wrench. The slotted hole in the **MOUNTING BRACKET [4]** will be used to level the heater head later in these instructions.
3. Place **COLLAR [8]** at least halfway up the **UPPER TUBE [5]** and secure with the **BENT BOLT [9]**.
4. On a flat surface, assemble the **LEGS [10]** to the **LOWER TUBE [11]** with the **2.5L BOLTS [12]** and **NUTS [7]**. Fully tighten using the 1/2-inch wrench.
5. Secure the **CASTERS [13 & 14]** with **NUTS [7]** using 1/2-inch wrench.
6. Insert the **UPPER TUBE** and **FLASH HEATER** assembly (from step 3) into the **LOWER TUBE** assembly, adjusting the **COLLAR [8]** to the desired height.
7. Level the **FLASH HEATER** head and tighten the two **BOLTS [2]**.



Operation:

The intended use of the Afford-A-Flash is to *flash cure* inks on garments. Fully curing inks is also possible but not recommended. BBC Industries offers a full line of conveyor dryers for fully curing inks on garments.

After assembly, position the unit so that nothing is within 3 feet (1 m) under the heater surface. Plug the unit in to a proper outlet with the proper circuit protection allow 5-10 minutes for the unit to heat up. In-line heat controls are available from BBC Industries. Factors including the ink types and the substrate material will determine your most effective setting. For units without a heat control, adjusting the height of the heater can have a similar effect. It is recommended that two people adjust the height of the heater. DO NOT touch hot surfaces while attempting to adjust the height. For *flash curing* of plastisol inks, heat inks to about 180-200°F (82-105°C), or per the ink manufacturer's recommendations.

After usage is complete, unplug the unit and position the heater so that nothing is within at least 3 feet (1 m) under the heater face until the heater has cooled (10-15 minutes).

DO NOT LEAVE UNIT UNATTENDED WHILE HEATER IS HOT.

Suggested Initial Settings:

	Distance Above Printing Surface	Heat Control Setting*	Exposure Time
Plastisol Flash	2 – 3 in. (5 – 7.5 cm)	100%	5 – 10 s
Nylon Preheat	2 – 3 in. (5 – 7.5 cm)	30 – 40%	5 – 10 s
Nylon Flash	2 – 3 in. (5 – 7.5 cm)	100%	5 – 10 s
Plastisol Cure	2 – 3 in. (5 – 7.5 cm)	100%	30 – 40 s
Nylon Cure	2 – 3 in. (5 – 7.5 cm)	60 – 100%	15 – 20 s

*Heat Control Settings are provided for users who are utilizing the in-line Heat Control.

The settings in the chart above are suggested initial settings. There are many factors that influence the response of different inks, including Wattage of the heater, ambient conditions during production, inks being used, etc. Your settings may need adjustments.

Troubleshooting:

If the unit is not operating properly, unplug the heater.

Contact BBC Technical Services:

800-654-4205

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