



INFRARED FLASH DRYER MANUAL

Manufactured by: Ranar



Flash Curing Series

IMPORTANT UNIT INFORMATION

This unit's Serial No. is: _____

Date Sold: _____

Sold by: _____

Electrical Specifications

Voltage: _____

Amps: _____

For more information you may consult the wiring diagram on the last page.

For additional help you can contact us at:

1-800-421-9910 or sales@ranar.com

Warranty

Warranty applies to only the original purchaser on a pro-rated basis.

3 years on mechanical parts

2 years for the heat panel and

1 year for electrical parts.

WARRANTY IS NON TRANSFERABLE.

This is parts only, warranty labor not included. Parts must be returned to Ranar for inspection at customer's expense. Ranar covers shipping within the continental USA. UPS Ground service only, expedited service available at customer's expense. Parts subject to inventory on hand usually ships same day if notified by noon.

Ranar Screen Printing Equipment Inc

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Union MO 63084

310-414-4122

sales@ranar.com

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Safety Information

- Please read all information before operation
- Ranar flash cure units are intended for curing non flammable inks. Flammable inks are dangerous and will void warranty.
- Keep children and pets away from the work area and flash curing unit when the flash is in use.
- Never leave the flash unit unattended
- Always turn off the power at disconnect at the end of production, before leaving.
- Don't touch the heater box or the panel surface, it's **extremely hot!!!**. There is a knob to use when rotating the flash.
- Do not allow flash dryer to be over pallet or surface for extended periods of time, this will cause damage or fire
- Do not operate if there is any visual damage to wiring or to the heater.
- Always disconnect power before performing cleaning or maintenance

ASSEMBLY INSTRUCTIONS

1. Remove the flash dryer from the box; be careful not to discard any hardware with the packaging materials.
2. Identify the flash adjuster tube. It is the silver 1 ¼ tube with ring.
3. With the ring end down, insert the adjuster tube into the painted 2" stand from the bottom upwards. Slide up through shaft collar and set with locking knob.
4. Insert the ¼"x2 ¼" bolt through the pre-drilled hole and secure with the nut provided; this prevent the adjuster tube from falling out.
5. Line up the two holes on one of the legs with the matching holes at the base of your flash stand; secure with ¼"-20 hex bolts, nuts and washers. Repeat for all legs.
6. Insert the casters into the pre-drilled holes at the end of each leg; each caster comes with 2 washers, 2 nuts; you can adjust the nuts for leveling as needed. The washer is placed between the nut and the leg. Make sure that your flash stand is level before you mount the heater.
7. Place the flash head on the 1 ¼" adjuster tube. Make sure some grease is on the adjuster tube to allow smooth rotation.
8. The 1 1/4" height adjuster tube can be adjusted by loosening the knob and raising or lowering to desired height of the heater panel above the printing station pallet
9. **Flash Head Leveling:** There are angle adjustment bolts on each side of the flash head. They are 3/8 bolts. A 9/16 wrench can loosen these. The top bolt is the pivot point and the bottom one allows for movement.





Operation Instruction

The infrared flash cure unit is ready to use. Turn on the green rocker switch and turn the heat control to full. The heater will come to full temperature in 10-15 minutes. Depending on model purchased, the surface temperature can reach from 500-700 Fahrenheit or 260-350 Centigrade degrees. **(Do not touch the surface of the heater when in operation, this can cause severe burns)**

The flash unit will create smoke at initial start up. This is moisture content in the element and insulation. It will dry out and after approximately 15-20 minutes. If flash is not used for a long period of time, this may occur again.

Flash dryers without controls: Some models do not have a heat control. These flash dryer are basic models and must be plug into electrical power to turn on and unplugged to turn off at the end of use. To regulate temperature, use panel height and time over surface.

Flash dryer with heat control: A solid state heat control that varies the voltage is used to regulate the heater temperature. This control does not come on until 75 on the dial and varies to full voltage at 100.

Controlling your heat: 3 variables to controlling the ink and substrate temperature, (1) is panel temp, (2) height off the heater from the garment and (3), time over substrate (dwell time).

Note: As each substrate and inks are different, please test the heat control setting, panel height and time over the garment to determine what the best temperature to use without scorching or burning. The infrared panel is even heating and will flash dry all types of plastisol and thermo set inks. At the outer 1 ½" inch edges of the heater panel, the heat tappers off. Be sure that your screen printed design is under the curing area of the heater, otherwise your design might not fully cure.

Flash time: With the heat control set at 100, which is full heat and the heater height from 1 to 1 1/2 inches off the t-shirt, the dwell time is about 5-10 seconds over the shirt. Please test what is best for your application, tip touching the ink with your finger to see if has gelled

Final/Full curing: The heat control set to 100 and the height 3" off the shirt about approx. 2025 seconds. Please test to properly cure Plastisol inks. On light colored 100% cotton t-shirts, curing temperature is approximately 320 degrees. **Please take care as not to warp or burn your platen top.**

Shut down: Turn off the power of the flash unit, and make sure there is no surface under the heater that will burn or damage. Another option is to swing out the flash to open air.

Maintenance & Trouble Shooting

Maintenance

Your flash cure is designed for long service with little maintenance needed. Make sure it is clean of lint and dust.

Trouble Shooting

No power: Check power plug, power panel breakers or fuses, then power switch.

No control heat: faulty heat control.

No heat: Faulty heat control, wire burned off at heat panel connection or faulty heat panel. Check wires inside of 4" x 4" box on top of heater.

Contact Ranar for Assistance at: sales@ranar.com or 310 414-4122

Model Specs

All models listed come with Solid State Heat Controls

I.R. Flash	Voltage	Amps	Watts	Heat Panel	Plastisol	Waterbase	Shipping Weight	120V	220V
D160	120/220	14/9	1600	16x16	✓		55 lbs	Nema 5-15R	Nema 6-20P
D1820	120/220	19/11	2314 / 3200	18x20	✓		65 lbs	Nema 5-20	Nema 6-20P
D1824	220	14	3000	18x24	✓		70 lbs	N / A	Nema 6-20P
D2020	220	13	3900	20x20	✓		77 lbs	N / A	Nema 6-20P
D2424	220	20	4000	24x24	✓		80 lbs	N / A	Nema 6-20P
D2436	220	29	6000	24x36	✓		120 lbs	N / A	N / A

*** Basic Flash Dryers - Models without heat control: D162 & D1822**

Receptacle configuration

