

FP DAYLIGHT FILM PROCESSOR

All photographic film processing requires a stable environment in order to produce the best results. This Nova Film Processor can provide this requirement but it is important that the instructions are followed carefully.

SETTING UP

ALWAYS FIT A RESIDUAL CURRENT DEVICE (RCD) TO THE POWER STAT MAINS SUPPLY BEFORE USING THIS EQUIPMENT OTHERWISE SERIOUS INJURY OR ELECTRICAL FAULT MAY RESULT.

Check that the electrical specification label corresponds with the voltage supply that you are going to connect it to. If it is not compatible, the unit should not be used otherwise personal injury or damage to the processor may result.

Note:- The power cable to the heater/stat is an integral part of the electrical equipment in this unit. Under no circumstances must the cable be severed otherwise serious injury may result.

DO NOT switch on.

- a) Remove all the bottles and the film tank.
- b) When setting up for the very first time, begin by filling all the 1 litre bottles with water and the Paterson film tank about two thirds full to initially set the temperature.
- c) Place all the bottles into their appropriate apertures. Fill the water bath of the film processor body until it covers about the bottom 7 cm of each bottle.
- d) Place the film tank into its aperture with its light-tight filling funnel fitted.

ONCE THE FILM PROCESSOR BODY AND ALL THE BOTTLES ARE FULL OF WATER YOU MAY PROCEED TO SWITCH ON.

- e) The graded scale on the Powerstat control is a good initial guide for setting the temperature. So, for instance, if you wished to process at 38°C, set the dial to 38 and allow about 2 hours for full stabilisation. Take regular readings with a thermometer from the Paterson Film Tank. If the temperature needs adjusting, make the necessary change and again allow time for the temperature to stabilise again. When the temperature has finally been achieved, you need only switch the processor on and off at the mains unless you wish to change the processing temperature.
- f) When the temperature is correct, you may then empty all the bottles and fill them with their appropriate chemical for your process.
- g) Allow the unit to heat up the bottles and you are then ready to begin film processing.

FILM PROCESSING

- h) Ensure that the whole unit is up to temperature and that the Paterson film tank and spirals are clean and dry.
- i) **LIGHTS OUT - DARKROOM CONDITIONS.** Load the film onto the spiral (see instructions attached), put the spiral onto the tank centre column, into the tank and replace the light-tight filling funnel.
- j) Lights can be switched back on once the tank funnel is fitted. Set your process timer ready for the process.
- k) Pour the required volume of chemical into the funnel (**see base of film tank**) and start the process timer immediately.

- l) Replace the rubber lid on the film tank and begin the agitation sequence (**see over the page**).
- m) When the process is complete, drain the tank back into the bottle provided.
- n) Pour in the next chemical and continue as before until the total process is complete.

AGITATION METHODS

There are two ways of agitating films in the tank:-

i) **Inversion Method** - To do this, hold the tank in one hand and turn the whole thing upside down for 2 seconds and upright again - This must be done once every 15 seconds throughout the whole process.

NOTE:- RETURN THE FILM TANK TO THE WATER BATH AFTER EACH INVERSION.

ii) **Twiddle Stick Method** - Remove the rubber lid and place the twiddle stick (supplied) into the centre of the film tank and turn the spiral with it for 5 seconds every 15 seconds whilst the film tank is immersed in the water bath the whole time.

WASHING

o) Wash the films in your usual apparatus with water at the same temperature as the processing temperature where possible.

NOTE:- Efficient film washing is important. If a tempered water supply is not available, the following methods are more than adequate.

Method 1

- i) Fill a plastic bucket by adding hot and cold water until the process temperature is achieved.
- ii) Immerse the column in a small container full of water from the bucket and agitate for 1 minute as previously.
- iii) Change the water and agitate only occasionally for 1 minute.
- iv) Repeat step (iii) 5 times.
- v) Add a drop of wetting agent to the final rinse, squeegee each film and then hang up to dry in a dust free area.

Method 2

- i) Fill a small container with water at the same temperature as the process.
- ii) Immerse the column into the container and agitate for 1 minute as previously.
- iii) Place the container under the tap and slowly introduce cold water whilst still agitating.
- iv) When the temperature of the water in the container is the same as the tap water, agitate occasionally and increase the water flow.
- v) After 5 minutes, turn off the water, add a drop of wetting agent, squeegee the film and then dry as normal.

MAINTENANCE

As with all Nova Processors, maintenance is very minimal. The main task is keep the **level of the water bath topped up regularly**. Owing to the high temperatures used, evaporation is quite apparent. If the level is allowed to drop too low, damage to the heater/stat will occur and invalidate your guarantee.

About every four weeks or so, empty the unit totally and wash out with warm water. If algae is present in the water bath, add an algacide or small amount of domestic bleach to the water when refilling.

Nova Darkroom Equipment Ltd, Unit 1a, Harris Road,

Wedgnock Industrial Estate, Warwick, Warwickshire. CV34 5JU. ENGLAND

Telephone:- (+44) 01926 403090

Fax:- (+44) 01926 499992