

# PRINT REPLACEMENT CARTRIDGE

## NATURECARE FRC PRINT REPLACEMENT CARTRIDGE

The Champion cartridge system contains Single Part Print Developer Replenisher and Single Part Bleach-Fix Replenisher in an easy-to-use cartridge. All you have to do is invert the cartridge and insert it into the chemical cartridge delivery system on any Fuji Frontier\* minilab printer-processor. As with other Champion Photochemistry single part products, the contents of the Print Replacement Cartridge are clear, clean, homogeneous, odourless Single Part RA-4 chemistry solutions.

- Easy-to-use Drop-in Replacement for Fuji CP48S Cartridges
- Reduced machine maintenance
- Less reprints
- Less downtime
- Can be used with all manufacturers' emulsions
- Released from Fuji shackles - you can decide



### P1 NatureCare FRC Print Developer Replenisher

- Replenishment rate of 45 mls/m<sup>2</sup> at 38.5°C
- Single Part (SP) homogeneous, clear developer replenisher which is easy to use.
- Clean formulation significantly reduces 3 types of developer dirt:
  1. Developer Creep (oxidized developer agent on crossover rollers/racks).
  2. Tar-like suspended oxidized compounds in the developer solution that stick to rollers and racks.
  3. Cement-like calcified salts, caused by local hard water and paper hardening agent, which fall to the bottom of the tank.
- Easy drop-in replacement on top of existing chemistry.
- NatureCare FRC Developer Replenisher is a drop-in replacement for Fuji CP48S\* processing chemistry for use at the same times, temperatures and replenishment rates.
- Extended shelf life.

### P2 NatureCare FRC Bleach-Fix Replenisher

- Replenishment rate of 35 mls/m<sup>2</sup> at 38°C
- Single Part (SP) homogeneous, clear dark red bleach-fix which is easy to use.

### P3 NatureCare FRC Rinse Tablets

- Single part rinse designed for use with the NatureCare FRC Cartridge.

PROCESS				**recommended starting point	***depends upon on # of wash tanks used
Step	Processing Stage	Processing Time (Sec)	Recommended Temp.°C	Replenishment Rate	Preparation of Tank Solution (1L)
P1	NatureCare FRC Print Developer	46 ± 2	38.5±0.3	45 mls/m <sup>2</sup> **	1) 78mls Developer Concentrate 2) 822mls Water 3) 100mls Starter
P2	NatureCare FRC Bleach-Fix	74 ± 30	38±3.0	35 mls/m <sup>2</sup> **	1) 658mls Water 2) 342mls Bleach-Fix Concentrate
P3	NatureCare FRC Rinse Tablet	148 ± 61	35.0±3.0	175***± mls/m <sup>2</sup> ** 16***± mls/f t <sup>2</sup>	Same as Replenisher

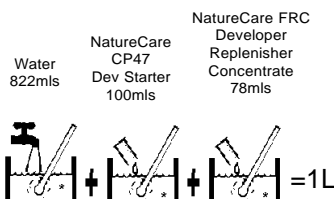
## CHEMISTRY

	P1 NatureCare FRC Print Developer Replenisher		P2 NatureCare FRC Bleach-Fix Replenisher	
	Seasoned Tank	Replenisher Tank	Seasoned Tank	Replenisher Tank
pH	10.42±0.10	12.64±0.10	7.25±0.25	6.00±0.10
Sp Gr	1.057±0.010	1.055±0.010	1.115±0.010	1.150±0.010

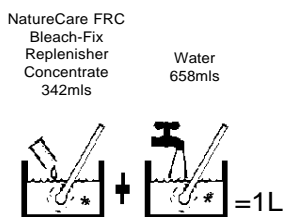
## Tank Solutions: Developer & Bleach-Fix

Use the P1 and P2 concentrates from the FRC Cartridge.

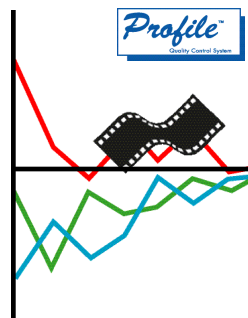
### P1 - NatureCare FRC Print Developer



### P2 - NatureCare FRC Bleach-Fix



For P3, NatureCare Rinse Tablet, preparation of the tank solution is same as the Replenisher. After mixing the initial tank solution, discard any remaining liquid from the cartridge bottles.



The Profile Quality Control System is comprised of two key elements - Profile Control Strips and Profile Quality Control Software. Profile Control Strips are easy to work with and have been optimized to give the best results with Champion Photochemistry & Russell Photochemistry. Profile Quality Control Software has been manufactured under strict quality control procedures.

Champion Photochemistry and Russell Photochemistry are the only independent chemical manufacturers worldwide to make control strips and to market a Q.C. software.

The Profile Quality Control System offers the following features & benefits:

- Extremely user-friendly
- Outstanding diagnostic components
- Full colour clothesline plot reports
- Full data on history, current status and diagnosis
- Early detection of process problems
- Recommendations for corrective action plans
- Full technical support available
- Updates to software sent automatically to current registered users
- New email feature allows labs to email files to your central site for timely evaluation

## STORAGE OF CHEMICALS:

- **Concentrates**  
All of the processing system concentrates have a normal storage life of at least 12 months, when held in unopened containers under steady temperature conditions in the range of 13°-18°C. However, storage temperatures below 5°C should be avoided as some crystallisation may occur.
- **Working Solutions and Replenishers**  
Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. No more than one week's supply of any of the replenisher solutions should be made up at a time. Replenisher solutions should be kept covered with lids to reduce evaporation, oxidation and contamination.
- **Safe Use of Processing Chemicals**  
All chemicals should be kept out of reach of children. Refer to labels on the box and to the Safety Data Sheet for precautionary information. Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals.

Contact our Technical Services Department or your local representative to determine which combination of chemicals is best suited for your use.

\*Fuji, Frontier and CP48S are registered trademarks of Fuji Photo Film Co. Ltd.

## SUPPLIES

			Product Code
P1/P2	NatureCare FRC Print Replacement Cartridge	2x110m <sup>2</sup>	140185
P3	NatureCare FRC Rinse Tablets	100x5L	140187
P1-S	NatureCare CP 47 Dev Starter	2.5L	140408
	Profile RA-4 Paper Control Strips	20 strips	141505

**WARRANTY:** Seller, Champion Photochemistry International Ltd, expressly disclaims any and all warranties, express or implied, including any warranties of merchantability or fitness. Seller's sole obligation for defect is to replace the defective product. In no event shall seller have any liability for incidental or consequential damages.

Manufactured under an ISO 9001/2000 approved system by:

**CHAMPION PHOTOCHEMISTRY  
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