

## Introduction

CPAC Europe NV, a CPAC Company, is a supplier of photographic chemistry, offering a large assortment of film and paper processing chemistry. Each of our developers, bleach fixes, bleaches, fixers and stabilizers are available in convenient kit form for every type and size of lab. Our goal is to ensure customer satisfaction through high-quality products and unequalled service.

### ◆ Choosing the Right Chemistry

This catalog is designed to assist you in choosing the proper chemistry for maximum quality at the lowest operational cost. Of course, the following conditions must be considered when choosing the correct chemistry for a lab:

1. Size of tanks in the processor
2. Type of equipment used
3. Volume of material processed each day
4. Quantity of chemicals used per week
5. Number of days equipment idle each week
6. Cost of chemistry
7. Environmental impact
8. Silver reclamation

CPAC Europe can fulfill every need across this wide range of variables.

One of the major factors in determining which chemistry is suitable for your process is the **“chemical turnover.”** Chemical Turnover represents the number of times the chemicals in the working tanks of the processor are replaced with an equal volume of replenisher over the specified period. It is recommended that the chemistry attain a minimum of one turnover every two weeks. Ideally, the tank should be turned over every week or less.

Environmental laws have become more stringent worldwide concerning wastewater discharged to the environment. Therefore, it is important to decrease the concentration of Biological Oxygen Demand (**BOD**) and Chemical Oxygen demand (**COD**). Depending on the size of lab and the process used, low replenishment rates and/or regenerated chemistry are alternatives which can reduce BOD and COD of your effluent, while at the same time, reducing chemical and operational cost.

### ◆ Chemical Storage

CPAC Chemicals should be stored in a cool, dry environment at 18° to 28°.

All solutions have been freeze-tested to at least 4° and most can withstand temperatures to -5° without crystallizing. Most solutions will redissolve upon warming and all will redissolve when mixed with water. If a solution in a container has crystallized by being stored in a cold area, add a small amount of warm water to the container to redissolve the crystals. Swirl the contents until they are completely dissolved and add the contents to the mixer.

Heat is more damaging to the solutions than extreme cold. Storage for extended periods of time at high temperatures will break down the chemistry. In particular, the fixers and bleach fix are very vulnerable to high temperatures.

Mixed developer replenisher may be stored at room temperatures for up to four weeks in a covered tank with a floating cover. Secondary chemistry (all chemistries other than developer) may be stored up to six weeks at room temperature in a covered tank with a floating cover. Developer tank solutions will last one week in the processor without operation. Secondary tank solutions will last two weeks with no operation. Tank solution recommendations are based on periods of inactivity when heaters, circulation pumps, rollers, belts and chain drives are shut off.

In areas of extremely low humidity (less than 30%), floating lids should be used to prevent excessive evaporation.

## ◆ Safety Precautions

Photographic solutions and chemicals, like many other chemicals used in the industry or at home, should be handled with care and respect to avoid possible injury and detrimental health problems. The acids, alkalies, reducing and oxidizing agents which are found in photographic solutions and chemicals, may cause skin irritation and injury upon repeated or prolonged contact. This particularly applies to developer solutions and developing agents which can incur allergic skin reactions. CPAC furnishes Material Safety Data sheets (**MSDS**) which give you the following information:

1. Hazardous Ingredients of Mixtures
2. Physical Data
3. Fire and explosive Hazard Data
4. Health Hazard Data
5. Reactivity Data
6. Spill or Leak procedures
7. Special Protection Information
8. Special Procedures

The following procedures should be followed:

1. Appropriate clothing, eye protection and respiratory equipment should be worn whenever photographic or processing solutions are mixed, poured or otherwise handled.  
Detailed information can be found in the MSDS. Wash gloves with an acidic soap before removing them to avoid any inadvertent contact.
2. If solutions come in contact with the skin, flush the affected areas with plenty of water. Use a non-alkaline hand cleanser to help minimize the possibilities of an **allergic** skin reaction.
3. If chemicals are splashed into the eyes, immediately flush eyes with plenty of water (minimum 15 minutes) and seek medical attention. Provide a face and eye wash station in each chemical mixing area in case chemicals are splashed into the face and/or eyes. Proper emergency training should be taught to all employees in accordance with local health and hazard regulations.
4. After use, all plastic bottles and cubitainers should have a hole punched in the bottom so they will not be used for water containers.

Proper ventilation is needed since some solutions may emit irritating fumes. In the chemical mix area, the exhaustsystem should exhaust 30 cubic meters of air per minute. Velocity should be 21 to 24 meters per minute.

The processing area should have an exhaust duct above or around each processor. Venting should be outside the building and away from fresh air intakes. There should be 10 to 20 filtered fresh air changes per hour in the processing areas to minimize the build-up of irritating vapors.

### ◆ Mixing Chemicals

Before opening a box or a bottle, read the information on the box or bottle carefully. Mixing instructions must be followed carefully. Add the concentrates of a replenisher mix in the respective order **They are not interchangeable**. Each process solution has its own specific replenisher solution, working tank and, if needed, starter solution. Use the proper amount of water, the recommended water temperature and the specific mix times to ensure a consistent and properly mixed replenisher.

To avoid contamination, mix the developer and the secondaries in separate mixers. Thoroughly rinse the mixer with water before and after mixing chemistry. Do not walk away from your mixer when mixing chemistry. This can lead to improper and inconsistently mixed chemistry which will reflect in your process control and finished product.

◆ **Always think safety when mixing chemicals. Use eye protection, rubber gloves and protective clothing in a well ventilated area.**

C-41 Products

Developer Starter

CPAC Developer starter concentrate is used to prepare a working tank solution for all the CPAC developers.

Catalog Number	Volume	Shipping Weight
55DE5119S	1 x 1L Concentrate	2.3 kg
55DE5119	6 x 1L Concentrate	13.7 kg

TL-60 Developer and Replenisher

**TL-60** Developer and replenisher is CPAC's low replenishment negative developer. It is designed for the C41, C41NP, C41B, C41BNP, C41RA or C41RANP processes in any size of lab. The TL-60 developer is a three part, liquid concentrate which produces high quality negatives. In addition, the replenishment rate is 40% lower than conventional developer, therefore it significantly reduces both the operating cost and the amount of effluent to the environment.

Catalog Number	Mix Size	Shipping Weight
55DE5150	4x 10L	6.3 kg
55DE5160	2 x 50L	16.4 kg
55DE5101	1 x 300L Part A	34.5 kg
55DE5102	1 x 300L Part B+C	9.8 kg

Specifications

Time	3'15"
Temperature	37.8"
Replenishment Rate	Max 23ml per 135 film, 24 exposures

CN 41 Developer and Replenisher

CN-41 developer and replenisher is CPAC's negative film developer designed for all C-41 compatible films in the C41, C41NP, C41B, C41BNP, C41RA and C41RANP processes. This developer is a three-part, liquid concentrate which produces consistent, high quality negatives. It is recommended for labs with limited chemical turnover of the processing tanks, but any size of lab will find this is the most cost-effective negative developer replenisher available at normal replenishment rates.

Catalog Number	Mix Size	Shipping Weight
55DE5 120	2 x 50L	16.8 kg

Specifications

Time	3'15"
Temperature	37.8°
Replenishment rate	50ml per 135 film, 24 exposures

Trelux-X Developer Regenerator

The Trelux-X **Developer Regenerator** is the **only** regenerator that allows to regenerate the developer overflow **without ion exchange equipment**. Collect the **overflow**, add regenerate concentrates and water, and the regenerated replenisher is ready to use. It is compatible with TL-60 Developer and Replenisher. That way no chemicals are wasted during a change over. The lower cost per liter of the replenisher not only reduces production costs but also **decreases the effluent to the environment**.

Catalog Number	Mix Size	Shipping Weight
50DX5103	1 x 250L Part A	20.5 kg
50DX5104	1 x 250L Part B+C	6.8 kg

Specifications

Time	3'15"
Temperature	37.8°
Replenishment Rate	Max 23ml per 135 film, 24 exposures

CN-41 Odourless Bleach Starter

Bleach starter is used for all CPAC bleaches that require a starter to make a fresh tank solution.

Catalog Number	Volume	Shipping Weight
55BL5345	6 x1L Concentrate	11.9 kg

CN-41 Bleach III Replenisher

Bleach III Replenisher is a universal product, it can be replenished on top of any traditional bleach product (except C-41 RA and TL-23 bleach). The bleach III will give excellent results with all types and brands of C-41 films.

Catalog Number	Mix Size	Shipping Weight
55BL5326	1 x 50L Part A	13.4 kg
55BL5327	1 x 50L Part B	25.9 kg

Specifications

Time	3'00 - 6'30"
Temperature	35" - 40.5°
Replenishment rate	33ml per 135 film, 24 exposures

CN-41 Bleach II Regenerator

CN-41 Bleach II regenerator is used to prepare replenisher from **any** conventional bleach overflow. This regenerator is used when the bleach time is greater than 3'00". It is packaged as a kit and requires no analytical tests or additional chemicals. Like CN-4 1 Bleach III and **Replenisher**, it reduces bleaching problems common with ASA 400 films and inhibits the corrosion of stainless steel tanks. CN-41 Bleach Regenerator is more economical than bleach replenisher and it significantly reduces the effluent to the environment.

Catalog Number	Mix Size	Shipping Weight
55BL5354	2 x 50L	6.9 kg

Specifications

Time	3'00" - 6'30"
Temperature	35" - 40.5"
Replenishment rate	33ml per 135 film, 24 exposures

**Odourless Bleach II NR and Replenisher**

Odourless Bleach II NR is used in the **C41B** process where the bleach time is less than 4 minutes. This is a two part concentrate that is non-regenerated because of the extremely low replenishment rate. Odourless Bleach II NR is specifically designed to reduce the retained silver problems and to avoid mix errors. The ultra low replenishment rate makes this a very cost-effective bleach alternative and reduces cost of waste destruction. The convenient mix sizes are perfect for any size **minilab**. The Bleach II NR will remove the unpleasant chemical odours from the lab.

Catalog Number	Mix Size	Shipping Weight
55BL535 1	1 x 5L	6.3 kg
55BL5361	1 x 40L part A	24.5 kg
55BL5362	1 x 40L part B	25 kg

**Specifications**

Time	3'00" - 4'20"
Temperature	35° - 40.5"
Replenishment rate	5ml per 135 film, 24 exposures

**C-41 RA Odourless Bleach III NR Replenisher**

C-41 RA Odourless Bleach III NR Replenisher is specifically designed for the C-41 RA process. It is a one part, ready-to-use liquid solution that can not be regenerated due to the extremely low **replenishment** rate which results in a very low overflow to the environment and reduced cost for destruction of used chemicals. The Bleach III NR will remove the unpleasant chemical odours from the **minilab**.

Catalog Number	Mix Size	Shipping Weight
55BL5363	2 x 5L	13.6 kg

**Specifications**

Time	0'45"
Temperature	35° - 40.5"
Replenishment rate	5ml per film 135, 24 exposures

**TL 23 Bleach and Replenisher CN-16Q Compatible**

Trelux 23 Bleach and replenisher is designed solely for use in Fuji 23 film processors (CN-16Q). It is used to make both replenisher and working tank solution. No bleach starter is required for this product.

Catalog Number	Mix size	Shipping Weight
55BL5343	1 x 8L	10 kg

**Specifications**

Time	1'01"
Temperature	35° - 40.5"
Replenishment Rate	21ml per 135 film, 24 exposures.

**CN-41 Fixer and Replenisher**

CN-41 Fixer and Replenisher is used to prepare working tank and replenisher solutions. It is designed for both C41 and C41B processes using a terminal silverrecovery system or a chemistry collection service where the used fixer is desilvered and destroyed.

Catalog Number	Mix Size	Shipping Weight
55FX5457	4 x 10L	11 kg
55FX5431	1 x 100L	27.9 kg
55FX5432	1 x 300L	84 kg

**Specifications**

Time	4'20" - 6'30"
Temperature	35" - 40.5"
Replenishment Rate	33ml per 135 film, 24 exposures



C-41 RA Fixer and Replenisher

C-41 RA Fixer and Replenisher is designed specifically for the C-41RA process. It is a one-part, liquid concentrate packaged in easy-to-use bottles.

Catalog Number	Mix Size	Shipping Weight
55FX5464	2 x 10L	13.4 kg

Specifications

Time	1'30"
Temperature	35° - 40.5°
Replenishment Rate	33ml per 135 film, 24 exposures

TL-23 Fixer and Replenisher CN-16Q Compatible

The TL-23 fixer and replenisher is designed specifically for the Fuji 23 process (CN-16Q). It is a one part, easy to mix, liquid concentrate packaged in a convenient mix size for the Fuji film processors.

Catalog Number	Mix Size	Shipping Weight
5 5FX5444	2 x 8L	10.9 kg

Specifications

Time	1'30"
Temperature	32° - 40.5'
Replenishment Rate	32ml per 135 film, 24 exposures.

CN-41 Stabilizer and Replenisher

CN-41 Stabilizer and Replenisher is a one-part, liquid concentrate for the conventional C-41 wash process. It is used to prepare both working tank and replenisher solutions. CN-41 Stabilizer and Replenisher is designed to improve dye stability and reduce water spotting on the film. It can also be used in the 2 step, C-41 washless process in conjunction with Film Rinse.

Catalog Number	Mix Size	Shipping Weight
55ST5536	12 x 50L	5 kg

Specifications

Time	1'05" - 2'20"
Temperature	21" - 40.5"
Replenishment Rate	33ml per 135 film, 24 exposure

**ML Stabilizer and Replenisher**

ML Stabilizer and Replenisher offers excellent dye stability and exceptional reduction of water spotting on the film. It can be used in any type of stabilizer process, but it is specifically designed for use in C-41, C-41B and C-41RA **washless** processors where all stabilizer tank solutions are tied together with a countercurrent flow. A **one**-part liquid concentrate makes both tank and replenisher solution.

Catalog Number	Mix Size	Shipping Weight
55ML5558	12 x 10L	0.6 kg
55ML5559	6 x 50L	4.3 kg

**Specifications**

Time	1'00" - 2'20"
Temperature	32° - 40.5"
Replenishment Rate	33ml per 135 film, 24 exposures

**Special ML Stabilizer and Replenisher**

The special Stabilizer and Replenisher has been formulated so the **formaldehyde** content of the replenisher is less **than 1%**. Therefore, no special handling, mixing room or emergency showers are necessary for personnel safety. The Special ML Stabilizer has the same quality and specifications as the Normal ML Stabilizer.

Catalog Number	Mix Size	Shipping Weight
55ML5565	6 x 50L	5.5 kg

**Specifications**

Time	1'00" - 2'20"
Temperature	32" - 40.5"
Replenishment rate	33ml per 135 film, 24 exposures

# C-41 PROCESS COMPARISON CHART

	C-41	C-41NP	C-41B	C-41BNP	C-41RA	C-41RANP
<b>DEVELOPER:</b> Time Temperature	3'15" 37,8°C	3'15" 37,8°C	3'15" 37,8°C	3'15" 37,8°C	3'15" 37,8°C	3'15" 37,8°C
<b>BLEACH:</b> Time Temperature	4'20" - 6'30" 37,8°C	4'20" - 6'30" 37,8°C	3'00" - 4'20" 37,8°C	3'00" - 4'20" 37,8°C	0'45" 37,8°C	0'45" 37,8°C
<b>WASH:</b> Time Temperature	1'05" 37,8°C	N/A	N/A	N/A	N/A	N/A
<b>FIXER:</b> Time Temperature	4'20" - 6'30" 37,8°C	4'00" - 6'30" 37,8°C	4'00" - 6'30" 37,8°C	4'00" - 6'30" 37,8°C	1'30" 37,8°C	1'30" 37,8°C
<b>WASH:</b> Time Temperature	3'15" 37,8°C	N/A	1'40" 37,8°C	N/A	1'40" 37,8°C	N/A
<b>Film Rinse/Stab:</b> Rinse / Stabilizer Time Temperature	Stabilizer 1'05" 24° - 40,5°C	Film Rinse 2'20" 37,8°C	Stabilizer 0'40" 37,8°C	Film Rinse 2'20 37,8°C	Film Rinse 0'40" 37,8°C	Film Rinse 1'00" 37,8°C

# C-41 PROCESS COMPATIBILITY CHART

CHEMISTRY	C-41	C-41NP	C-41B	C-41BNP	C41 RA	C-41RANP	TIME	TEMP	Repl Rate/film 135/24
<b>DEVELOPERS:</b>									
CN-41 Repl	YES	YES	YES	YES	YES	YES	3'15"	37,8°C	55 ml/Film
TL-60 Repl	YES	YES	YES	YES	YES	YES	3'15"	37,8°C	20 - 23ml
Trelux-X Regen	YES	YES	N/R	N/R	N/R	N/R	3'15"	37,8°C	20 - 23ml
<b>BLEACHES:</b>									
C41 RA Bleach	NO	NO	NO	NO	YES	YES	0'45"	37,8°C	5 ml/Film
C41 Bleach III Repl	YES	YES	YES	YES	NO	NO	3'00" - 6'30"	37,8°C	33 ml/Film
C41 Bleach II Regen	YES	YES	YES	YES	NO	NO	3'00" - 6'30"	37,8°C	33 ml/Film
C41 Bleach III NR	YES	YES	YES	YES	NO	NO	3'00" - 6'30"	37,8°C	5ml/Film
<b>FIXERS:</b>									
C41 RA Fixer	NO	NO	NO	NO	YES	YES	1'30"	37,8°C	33 ml/Film
CN41 Fixer Repl	YES	YES	YES	YES	NO	NO	4'20" - 6'30"	37,8°C	33 ml/Film
CN41 Electro Fix Repl	YES	YES	YES	YES	NO	NO	4'20" - 6'30"	37,8°C	17 ml/Film
<b>STABILIZERS:</b>									
CN41/TL/E6 Stab Repl	YES	NO	YES	NO--	NO	NO	1'05"	23,9°	33 ml/Film
ML Stab Repl	N/R	YES	N/R	YES	YES	YES	1'00" - 2'20"	37,8°C	33 ml/Film

# EP-2 Products

All CPAC products are designed with the customer in mind. CPAC supplies high-quality products at an economical price and provides unsurpassed customer service. CPAC uses only the finest raw materials available for cleaner, more consistent chemistry. Our premeasured, full strength and easy-to-use concentrates are conveniently packaged for any size lab. In addition, CPAC products are compatible with most manufacturers' chemistry which make switching to CPAC clean, fast and cost effective. No chemistry needs to be dumped, therefore no inventory is wasted.

## EP-2 Developer Starter

CPAC EP-2 Developer Starter Concentrate is used to prepare a working tank solution for all CPAC EP-2 Developers.

Catalog Number	Mix Size	Shipping Weight
15DE150S	1 x 3,8L Concentrate	4.2 kg
15DE150	4 x 3,8L Concentrate	17kg

## CPAC CP-2 Developer and Replenisher

CPAC CP-2 Developer and Replenisher is CPAC's version of standard EP-2 chemistry for use in any size processor with the standard EP-2 configuration. It is available in complete kits that are clean-running, consistent and easy to mix.

Catalog Number	Mix Size	Shipping Weight
15DE1185	1 x 100L	15.5 kg

### Specifications

Time	2'00" - 3'30"
Temperature	32,8° - 38,9°
Replenishment Rate	194 - 322ml per m²

**CPAC TR Bleach-Fix and Replenisher**

CPAC TR Bleach-Fix and Replenisher is a standard replenishment rate bleach-fix used to make either a working tank or a replenisher solution.

Catalog Number	Mix Size	Shipping Weight
10BF1212	1 x 100L Part A	18.9 kg
10BF1213	1 x 100L Part B	23.9 kg

**Specifications**

Time	1'00" - 2'00"
Temperature	29,5° - 37,8°
Replenishment Rate	237 - 322ml per m²

# EP-2 / RA-4 PROCESS COMPARISON CHART

	EP-2	EP-2NP	RA-EDT	RA-4	RA-4 NP
<b>DEVELOPER:</b>					
Time	3'30"	3'30"	1'40" - 3'30"	0'44" - 0'48"	0'44" - 0'48"
Temperature	32,8°C	32,8°C	32° - 35°	35°C	35°C
<b>BLEACH-FIX:</b>					
Time	1'30"	1'30"	0'45" - 1'45"	0'44" - 0'48"	0'44" - 0'48"
Temperature	29,5° - 37,8°C	29,5° - 37,8°C	29,5° - 37,8°C	32,2° - 40,5°C	32,2° - 40,5°C
<b>SILVER WASH:</b>					
Time	0'30" - 1'30"	N/A	0'30" - 1'30"	0'30" - 1'30"	N/A
Temperature	30° - 33,9°C	N/A	30° - 33,9°	30°C - 33,9°C	N/A
<b>NORMAL WASH:</b>					
Time	3'30"	N/A	1'30" - 3'30"	1'30"	N/A
Temperature	29,5° - 37,8°C	N/A	29,5° - 40,5°	32,2°C - 40,5°C	N/A
Flow rate	6,5 L/m²	N/A	2L/m² - 10L/m²	2L/m² - 10L/m² (*)	N/A
<b>PRINT RINSE:</b>					
Time	N/A	1'30"	1'30"	N/A	1'30"
Temperature	N/A	29,5°C - 37,8°C	29,5° - 37,8°	N/A	29,5°C - 37,8°C

(\*) The wash water flow rate is dependent on the number of countercurrent wash tanks available.  
 2 tanks = 6,5L - 10L per m²      3 tanks = 4,5L - 10L per m²      4 tanks = 2L - 10L per m²

# RA-4 Products

CPAC RA-4 Chemistry is designed with the customer in mind for every RA product. Our pre-measured, full strenght and easy-to-use concentrates are conveniently packed for almost any size of lab. CPAC's RA products are compatible with RA chemistry that is currently in your system. This makes switching to CPAC fast, clean and cost effective because no tanks are dumped and no inventory is wasted. We are **committed** to our customers through quality products, quick and reliable service and greater savings on your chemistry cost.

## RA Developer Starter

CPAC RA Developer Starter Concentrate is designed to make a working tank solution from the CPAC RA Developer Replenishers.

Catalog Number	Mix Size	Shipping Weight
30DE3 174	6 x 2.5L Concentrate	9.8 kg

## CPAC RA Odourfresh Developer and Replenisher

The CPAC RA Developer and Replenisher is specially formulated for use in the RA-4 print process. It is a 3-part developer kit that requires significantly shorter mixing times than EP-2 Developers. The developer is clean running and resists oxidation, however, special RA-4 type paper must be used. It is not compatible with EP-2 papers or developers. The RA Odourfresh Developer will remove the unpleasant chemical smells from the lab.

Catalog Number	Mix Size	Shipping Weight
30DE3 175	4x 10L	6.8 kg
30DE3 178	2 x 50L	16.8 kg
30DE3 100	1 x 300L Part A	16.6 kg
30DE3 101	1 x 300L Part B	11 kg
30DE3 102	1 x 300L Part C	21.5 kg

### Specifications

Time	0'44" - 0'48"
Temperature	35"
Replenishment Rate	1 60ml/m²



CPAC RA-RT Developer

CPAC RA-RT Developer and Replenisher is specially designed for use in roller transport machines utilizing RA process specifications. It is formulated for faster tank turnover to keep consistency at lower processor utilization.

Catalog Number	Mix Size	Shipping Weight
30DE3 120	4x 10L	5 kg
30DE3 121	2 x 50L	14.6 kg

Specifications

Time	0'44" - 0'48"
Temperature	35"
Replenishment Rate	2 15ml per m²

CPAC RA-RT Additive

CPAC RA-RT Additive is formulated to extend the live of the RA-RT Developer and Replenisher under low utilization conditions. It is designed to be used only in CPAC RA-RT Developer and Replenisher, and should only be used when preparing a replenisher solution. It can not be used when preparing a tank solution and can not be put directly in the working tank solution.

Catalog Number	Mix Size	Shipping Weight
30DE322S	1 x 1.4L	1.8 kg
30DE322	6 x 1.4L	10 kg

CPAC RA-LR Odourfresh Developer and Replenisher

CPAC RA-LR Developer and Replenisher is a low replenishment rate developer formulated to be consistent and clean running with all RA-4 emulsions. **It's 35" operating temperature provides better process stability** by reducing overconcentration caused by excessive evaporation at higher temperatures. It is compatible with other RA-4 developers but, because of it's low replenishment rate, drastically reduces the overflow to the environment and the cost for destruction of used chemistry. The Odourfresh Developer will remove the unpleasant chemical smells from the lab.

Catalog Number	Mix Size	Shipping Weight
30DE3 134	4x 10L	6.9 kg
30DE3 133	2 x 50L	16.9 kg

Specifications

Time	0'44" - 0'48"
Temperature	35"
Replenishment Rate	83ml - 95ml per m²

**CPAC RA-X Developer Regenerator**

CPAC RA-X Developer Regenerator is a 3-part kit designed to regenerate RA developer overflow without ion exchange equipment. This eliminates the initial capital cost of regeneration equipment which makes regenerating feasible for even the small lab. Regenerating RA developer **overflow** is as easy as mixing fresh developer, and the COD contribution of developer is reduced by 50% **or more** over normal replenisher.

Catalog Number	Mix Size	Shipping Weight
30DX3184	2 x 50L	7.9 kg
30DX3 109	2 x 125L	19.32 kg

**Specifications**

Time	0'44" - 0'48"
Temperature	35"
Replenishment Rate	160ml per m²

**CPAC RA Bleach-Fix and Replenisher**

CPAC RA Bleach-fix and Replenisher is designed for the RA-4 print developing process where a shorter bleach fix time is required. It is an easy to mix 2-part product and very clean running.

Catalog Number	Mix Size	Shipping Weight
30BF3276	2x 10L	8.6 kg
30BF3212	1 x 100L Part A	18.8 kg
30BF3213	1 x 100L Part B	23.7 kg

**Specifications**

Time	0'45" - 1'45"
Temperature	32" - 38"
Replenishment Rate	2 15ml per m²

**CPAC RA NR Minilab Bleach-Fix and Replenisher**

CPAC's RA-NR Bleach Fix and replenisher is a low-replenishment bleach-fix that consists only of a 2-part liquid that requires no addition of water when mixing. This is a very easy and convenient product specifically designed for the **minilab** that wants to reduce the overflow from the bleach-fix and save on cost of waste chemistry and at the same time reduce the effluents to the environment.

Catalog Number	Mix Size	Shipping Weight
30BF3219	2 x 4L	9.8 kg

**Specifications**

Time	0'45" - 1'45"
Temperature	32" - 38°
Replenishment Rate	1 00ml/m²

CPAC RA NR Bleach-Fix and replenisher

CPAC RA Bleach-Fix and replenisher NR is a low-replenishment rate bleach-fix replenisher. It is a 3-part liquid mix designed for labs who do not want to regenerate but want the advantages of a low cost bleach-fix.

Catalog Number	Mix Size	Shipping Weight
30BF3214	1 x 80L	28 kg
30BF3215	1 x 80L	21.5 kg
30BF3218	4 x 80L	10 kg

Specifications

Time	0'45" -1'45"
Temperature	32" -38°
Replenishment Rate	54 -107ml per m²

CPAC Electro E-Z Bleach Fix Regenerator

CPAC's Electro E-Z Bleach-Fix Regenerator has been specially formulated to regenerate bleach-fix overflow in both the EP-2 and RA-4 processes. **It does not require the addition of ph compensating additives** for efficient desilvering. The overflow is simply desilvered and parts A, B, C are added to make replenisher. The regenerated replenisher can be used in the RA-4 process at 0'45" - 1'30" and in the EP-2 process with 1'30" - 2'00" of total bleach-fixing time. CPAC's E-Z Electro Bleach Fix Regenerator will drastically reduce the effluents to the environment **to 7% or less** and minimize the destruction cost of used chemistry.

Catalog Number	Mix Size	Shipping Weight
30BF1224	1 x 300L Part A	10.8 kg
30BF1225	1 x 300L Part B	10.6 kg
30BF1226	2 x 300L Part C	14.2 kg

Specifications

Time	0'45" - 2'00"
Temperature	29" - 38"
Replenishment rate	195 - 235ml/m²

CPAC RA S-Stop

CPAC RA S-Stop is used to prepare the stop bath for the CPAC RA 3-step process. It reduces the amount of developer carry-in so the concentration and the pH of the S-Bleach remain consistent. This helps to maintain the integrity of the chemistry from regeneration to regeneration.

Catalog Number	Mix Size	Shipping Weight
30BL345	190L	16.5 kg

Specifications

Time	0'15" - 0'30"
Temperature	29° - 38"
Replenishment Rate	1 00ml/m²

**CPAC RA S-Bleach Regenerator**

CPAC's RA S-Bleach Regenerator is formulated to prepare replenisher and working tank solutions or to regenerate bleach overflow in a 3-step RA process. This system consists of: S-Bleach Regenerator, S-Stop and S-Fixer. These solutions were designed to process RA-4 type paper using a separate bleach and fixer system. The environmental impact of the photofinishing effluent can be significantly reduced with the RA 3-step process.

Catalog Number	Mix Size	Shipping Weight
30BL3346	1 x 610L Regenerator	72 kg
30BL3346	1 x 237L Replenisher	72 kg

**Specifications**

Time	1"30'
Temperature	29° - 38°
Replenishment Rate	1 00ml/m²

**CPAC RA S-Fixer**

Trecon RA S-Fixer is specially designed for use with the RA 3-step process. By having a split fixer, silverrecovery can be significantly increased over conventional bleach-fix systems. The RA S-Fixer can be used to prepare working tank and replenisher solution, as well as regenerating collected overflow.

Catalog Number	Mix Size	Shipping Weight
30FX349	1 x 285L	80.5 kg
FL3E	1 x 1.200L	85 kg

**Specifications**

Time	0'45"
Temperature	29° - 38"
Replenishment Rate	250ml/m²

CPAC Silver Plus

CPAC Silver Plus chemistry is designed to be used in conjunction with the Electrolytic Bleach Fix Regeneration system to recover silver more effectively. By using Silver Plus, silver yields can be increased 5-9%. This silver would normally be lost to the environment via the wash water. The CPAC Silver Plus System will help to reduce the silver concentration in the washwater from the paper processing and, therefore, help the lab to comply with environmental regulations.

Catalog Number	Mix Size	Shipping Weight
10SW1521	1 x 500L	13 kg

Specifications

Time	0'30" - 1'30"
Temperature	29" - 35°
Replenishment Rate	1 08ml/m²

CPAC Print Rinse

CPAC Print Rinse is designed for the **washless** print process. It's purpose is to complex any excess bleach-fix remaining in the paper and facilitate the removal of any soluble silver from the paper. **This** combination significantly enhances dye stability, produces whiter whites while resisting biological growth.

Catalog Number	Mix Size	Shipping Weight
30RC3540	6x 10L	2 kg
30RC3541	4 x 50L	6.1 kg

Specifications

Time	1'30"
Temperature	29" - 38"
Replenishment Rate	250ml - 320ml per m²

# RA-EDT Products

## RA-4 EDT Developer and Replenisher

CPAC’s RA-EDT Developer and replenisher is specifically designed for use in standard EP-2 and 2-minute development processors. No costly mechanical modifications are required to produce prints on RA-4 paper with existing EP-2 equipment. A reduced replenishment rate means less impact on the environment. Conversion to RA-4 paper requires very little time and no complicated test runs or printer adjustments. Draining the EP-2 developer system and cleaning with CPAC’s “Rack Attack” is all that is required to convert from EP-2 to RA-4 process.

Catalog Number	Mix Size	Shipping Weight
30DE3 160	4x 10L	7.3 kg
30DE3161	2 x 50L	33 kg

### Specifications

Time	2'00" - 3'30"
Temperature	32" - 35" (*)
Replenishment Rate	1 60ml/m²

(\*) Temperature depends on which paper brand is used, please consult CPAC’s specification sheets on RA- EDT products.

## RA-EDT Developer starter

The starter used for the RA-EDT Developer is the standard RA-4 developer starter.

Catalog Number	Mix Size	Shipping Weight
30DE3174	6 x 2.5L Concentrate	19kg

## RA-EDT Bleach Fix

The RA-EDT products are designed to develop RA-4 paper with EP-2 times, it is advisable to use the standard RA-4 bleach fix and replenisher with the standard RA-4 replenishment rates. It is possible to continue using the EP-2 bleach fix and replenisher but, because of the higher replenishment rate of this product CPAC does not recommended this.

Catalog Number	Mix Size	Shipping Weight
30BF3276	2x 10L	8.6 kg
30BF3212	1 x 100L Part A	18.8 kg
30BF3213	1 x 100L Part B	23.7 kg

# CPAC-K Chemistry

CPAC-K Chemistry is specifically designed for use in KIS-type processors that have limited replenishment capabilities. The paper processors utilize 0'45" developer and bleach-fix processing times. They may process standard EP-2 paper with the CPAC-K chemistry, or may use RA-4 paper with the CPAC-K RA chemistry. C-41 is processed using the CPAC-K 10 Minute Film Kit.

CPAC-K chemistry is not recommended for minilabs that utilize replenishment systems based on replenishment rates per film or per m<sup>2</sup> processed.

## CPAC-K RA Paper Kit

CPAC-K RA Developer and replenisher is specially formulated and pre-packaged for use in the **KIS-type** print processors. This developer requires shorter mixing times than conventional print developers. The developer is clean-running and resists oxidation; however special RA-4 paper must be used. It is not compatible with standard EP-2 paper developers or standard EP-2 papers.

This kit is complete and includes the developer, bleach-fix and starter.

The working temperature is 35°C.

Catalog Number	Mix Size	Shipping Weight
70RA716	1 x 13.5L-Kit	7.75 kg

## CPAC-K 3-Minute Print Chemistry

CPAC-K 3-Minute Print Chemistry is designed to be used in KIS-type processors. It is a complete kit that includes the developer, the bleach-fix and the starter. Replenishment and temperature will vary depending on the processor model and print volume.

Catalog Number	Mix Size	Shipping Weight
70CP700	1 x 13.5L-Kit	8.65 kg

## CPAC-K 10-Minute Film Kit

The CPAC-K **10-Minute** Film Kit includes all chemicals to process C-41 **film** - developer, bleach, fixer and stabilizer. It is specially packaged for use in KIS-type film processors. Replenishment and temperature will vary depending on the processing conditions.

Catalog Number	Mix Size	Shipping Weight
70CN702	1 x 13.5L-Kit	16.8 kg

# Imager Chemistry

CPAC's Imager Kits have been specifically designed to facilitate the use of the Imager machines. The chemistry is easy to mix and the volumes are made to fit the size of the machine tanks or replenishment tanks. The imager machines use the same type of superstabiliser for both film and paper processing.

## CPAC Imager Film Start Up Chemistry

The Imager Film Start Up kit contains all the chemicals to start up the film processing part of the Imager minilab.

Catalog Number	Shipping Weight
70SK7404	1.65 kg

## CPAC Imager Film Replenishment Chemistry

The replenishment kits for the Imager film processor are designed to facilitate the mixing and the operation of the Imager minilab. The chemistry is economical in use and provides a very stable quality. All kits are colour coded to avoid errors when filling tanks.

Product Name	Catalog Number	Mix Size	Shipping Weight
C41 Developer Replenisher Kit	70DE7606	3 x 2.6L	1.40 kg
C41 Bleach Replenisher Kit	70BL7707	2 x 5.5L	7.30 kg
C41 Fixer Replenisher Kit	70FX7808	4 x 6.5L	7.60 kg
C41/RA-4 Superstabilizer	70RC7505	4 x 21.6L	1.50 kg

## CPAC Imager RA-4 Paper Start Up Chemistry

The Imager Paper Start Up kit contains all the chemicals to start up the paper processor part of the Imager minilab.

Catalog Number	Shipping Weight
70SK 7404	1.65 kg

## CPAC RA-4 Imager Replenishment Chemistry

The replenishment kits for the Imager paper processor are economical to use and provide a very stable quality, the chemistry is easy to mix and all the products are colour coded to avoid errors when filling the tanks.

Product Name	Catalog Number	Mix size	Sipping Weight
RA-4 Developer Replenisher Kit	70DE7101	4 x 6.5L	4.75 kg
RA-4 Bleach Fix and Replenisher Kit	70BF7202	2 x 8.5L	7.40 kg
C41/RA-4 Superstabilizer	70RC7505	4 x 21.6L	1.50 kg



# E-6 Chemistry

CPAC's E-6 Chemistry is an all-liquid chemistry designed to process any film compatible with the E-6 process. This chemistry is used as a mixed replenisher for continuous processors, rack and tank processors or rollers transport processors. It can also be used directly from the containers with chemical blender systems. The CPAC E-6 line of chemistry is formulated to resist oxidation to produce consistent, high quality results time after time. It is fully compatible with other manufacturer's chemistry, and it is conveniently packaged for finishers of all sizes.

<u>Product</u>	<u>Mix Size</u>	<u>Catalog Number</u>
1 st Developer Replenisher	4x 19LConc	20DE220
1 st Developer Replenisher	1 x 95 L Conc	20DE200
Reversal Bath Replenisher	1 x 19LConc	20RV22 1 S
Reversal Bath Replenisher	12x 19LConc	20RV22 1
Reversal Bath Replenisher	1 x 95 L Conc	20RV201
Color Developer Replenisher	1 x 19 L Kit	20DE222
Color Developer Replenisher	1 x 95 L Part A	20DE202
Color Developer Replenisher	1 x 95 L Part B	20DE203
Conditioner Replenisher	4x 19LConc	20CO223
Conditioner Replenisher	1 x 95 L Conc	20CO204
Bleach Replenisher	1 x 19LConc	20BL205
Fixer Replenisher	6x 19LConc	20FX224
Fixer Replenisher	1 x 190LConc	20FX206
Stabilizer Replenisher	1 x 19LConc	20ST225S
Stabilizer Replenisher	12x 19LConc	20ST225
Stabilizer Replenisher	1 x 1.211 LConc	20ST207
1 st Developer Starter	1 x 95 L Conc	20DE208S
1st Developer Starter	6 x 95 L Conc	20DE208
Color Developer Starter	1 x95 LConc	20DE209S
Color Developer Starter	6x95 LConc	20DE209
Bleach Starter	1 x 95 L Conc	20BL210S
Bleach Starter	8 x 95 L Conc	20BL2 10

# R-3 Chemistry

CPAC's R-3 Chemistry is an all-liquid chemical line designed to process any paper and film compatible with the R-3 process. The chemistry is formulated to resist oxidation and to produce the same consistent, high quality results every time. The process is fully compatible with other manufacturer's chemistry which makes switching to CPAC chemicals fast, easy and cost-effective.

<u>Product</u>	<u>Mix Size</u>	<u>Catalog Number</u>
1 st Developer & Replenisher	1 x 47.5 L	20DE230
Color Developer & Replenisher	1 x 95 L	20DE23 1
Bleach Fix & Replenisher	1 x 47.5 L	20BF232
Developer Starter*	1 x 95 L	20DE233S
Developer Starter*	6 x 95L	20DE233

\* The same starter is used for the First and for the Color Developer.

# Trepan 1200 B&W Film Chemistry

## Trepan 1200T Developer Tank Solution

Trepan 1200 Developer Tank Solution is a D-76 type developer in a ready-to-use tank solution. It is a convenient, liquid concentrate designed to be used in conjunction with Trepan 1200R Developer Replenisher Solution.

Catalog Number	Mix Size	Shipping Weight
40DE405	1 x 95 L	25.9 kg

### Specifications

Temperature	20" - 25"
Replenishment Rate	N/A
Time	1'50" - 6'30"

## Trepan 1200R Developer Replenisher

Trepan 1200R Developer Replenisher is a D-76 type developer to be prepared as a replenisher only. This product is not recommended for use as a working tank solution, but is formulated to work in conjunction with Trepan 1200T Developer Tank Solution. It can be used to develop most types of film, including Kodak's T-Max film. Time, temperature and replenishment rates are adjustable for almost any processor set-up.

Catalog Number	Mix Size	Shipping Weight
40DE406	1 x 76 L Concentrate	25 kg

### Specifications

Time	1'50" - 6'30"
Temperature	20" - 25"
Replenishment Rate	430ml/ m²

**Trepan Rapid Fixer Replenisher**

Trepan Rapd Fixer Replenisher is a one-part liquid concentrate formulated to resist the most adverse conditions while producing clear, high quality negatives. It is designed to be used in conjunction with Trepan Rapid Fixer Hardener to provide the best possible protection from potential scratches.

Catalog Number	Mix Size	Shipping Weight
40FX408	1 x 76 L Concentrate	25.5 kg

**Specifications**

Time	3'00" - 10'00"
Temperature	18" - 27"
Replenishment Rate	3 20ml/m <sup>2</sup>

**Trepan Rapid Fixer and Hardener**

Trepan Rapid Fixer and Hardener is a liquid concentrate to be used in conjunction with Trepan Rapid Fixer for the best possible scratch protection available. It is packaged in a convenient size ~~that~~is easy to handle.

Catalog Number	Mix Size	Shipping Weight
40FX409	6 x 76 L Concentrate	13.2 kg

# Trepan 2000 B&W Paper Chemistry

## Trepan 2000 Developer and Replenisher

Trepan 2000 Developer and replenisher produces cool blacks which give a rich tone to the finished product. It is a liquid concentrate that is clean running and easy-to-use. This innovative formula allows the chemicals to resist oxidation and operate consistently even under marginal usage situations. it is compatible with most manufacturer's developers.

Catalog Number	Mix Size	Shipping Weight
40DE404	1 x 95 L	24.1 kg

### Specifications

Time	0'20" - 1'20"
Temperature	20" - 35"
Replenishment Rate	1 50ml/m <sup>2</sup>

## Trepan 2000 Fixer and Replenisher

Trepan 2000 Fixer and Replenisher is one of the most advanced products on the market today. It is a **non-**hardening fixer that is capable of performing consistently under less than ideal conditions. This particular chemistry is compatible with Ilford's 2000 Fixer and Replenisher.

Catalog Number	Mix Size	Shipping Weight
40FX407	1 x 76 L	24.5 kg

### Specifications

Time	0'45"
Temperature	30" - 32.5"
Replenishment Rate	245ml/m <sup>2</sup>