



Lo-chem plate production solutions

Low chemistry plate production setting new standards in commercial printing

Fujifilm's lo-chem plate production solutions are setting new standards in commercial offset printing. Using the latest plate and processor technologies, these solutions are helping commercial printers lower chemistry use, reduce maintenance, minimise waste and improve environmental performance.



- ▶ Minimise chemistry with the industry's lowest usage figures
- ▶ Reduce processor maintenance
- ▶ Improve quality with high resolution plates and stable chemistry
- ▶ Lower water use and reduce waste
- ▶ Lower your environmental footprint

Thanks to state-of-the-art plates, chemistry and processor software, Fujifilm 'lo-chem' solutions are setting new standards in the production of plates for commercial printing. By optimising all parts of the plate production process, Fujifilm's 'lo-chem' solutions can achieve the industry's lowest chemistry use figures (with cleaner working chemistry), and huge reductions in water use and maintenance time.

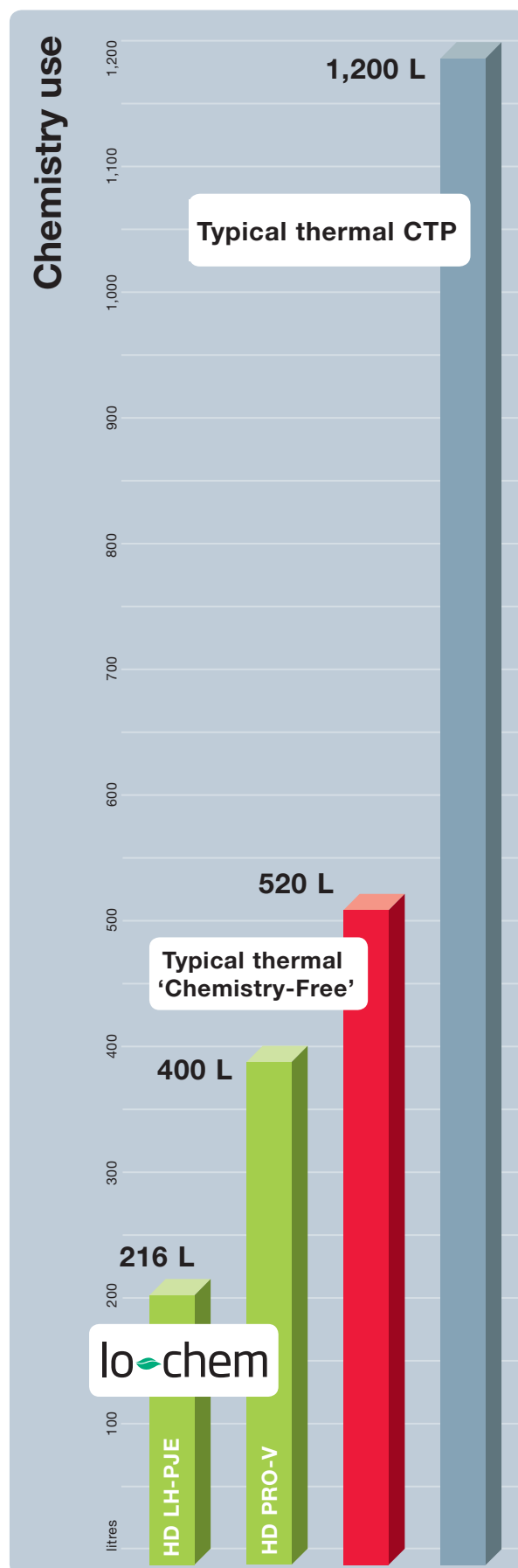
► 'ZAC' based 'lo-chem' solution for thermal applications

The combination of the very latest plate and chemistry technologies, together with Fujifilm designed software at the heart of the 'ZAC' processor, result in industry-leading chemistry usage figures. The benefits of this solution are as follows:

1 Lower chemistry consumption

The FLH-Z 'ZAC' processor incorporates unique Fujifilm developed software to intelligently control the amount of replenisher used in the plate development process. This improvement means that a full bath of replenisher will now develop around 8,000m² of plates resulting in substantial savings in developer consumption. For a printer using around 10,000m² of plates over a 1-3 month period, chemistry consumption can be reduced to around 216 litres, a reduction of up to 80% (depending upon existing system used).

This graphic highlights the amount of chemistry used by different plate solutions. The calculations assume 10,000 B1 plates are produced over a 1-3 month period.



2 Lower maintenance

Maintaining perfect developer activity allows the developer bath life to be greatly extended beyond the norm for developing systems. It is typical to achieve bath life figures that are four or more times greater than normal plate processing systems. These improvements mean that a full bath of replenisher will now develop around 8,000m² of plates resulting in substantial reductions in cleaning down time. It is not uncommon to save over 40 hours of cleaning time for a large 32,000m² consumer of plates over a year's plate production.

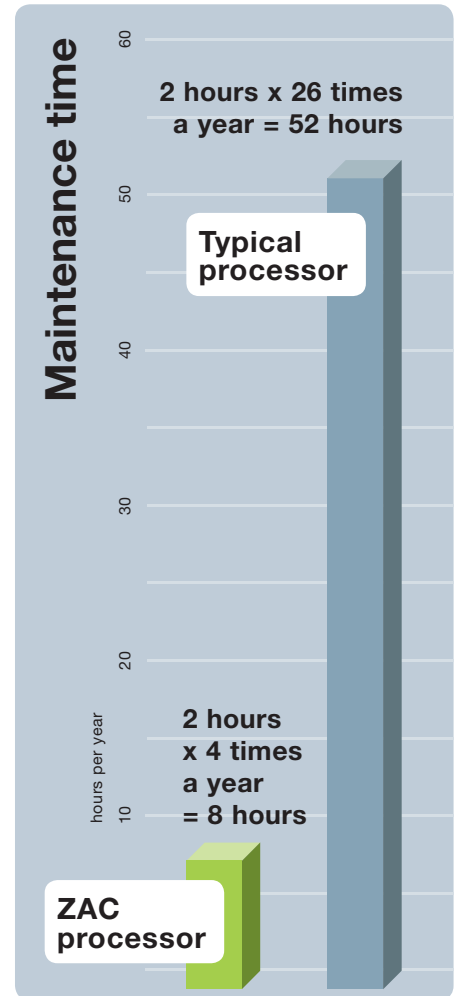
3 Cleaner working environment

The chemistry used for processing plates in a 'ZAC' system is a non-silicate based recipe. This makes a much longer bath life possible

without the increase in developer sludge and filter blockages. In addition, both Brillia HD LH-PJE and HD LH-PLE plates incorporate an Enhanced Development Layer (EDL) enhancing the solubility of the non-image areas during development, further aiding bath life, giving wider developing latitude and resulting in much cleaner working. Finally, as the chemistry contains no alcohol or solvents, this further enhances the working environment.

4 More stable system

Because of the way the 'ZAC' processor intelligently controls replenisher delivery, the system is more stable making it much easier to achieve high quality, irrespective of changes to environmental conditions. This is particularly important for demanding FM screening applications.



This graphic highlights the amount of time spent cleaning a processor over the course of a year, assuming up to 32,000m² plates are produced in this period, and a typical 2 hour cleaning regime.



In the 2010 InterTech™ Technology Awards organised by the Printing Industries of America, Fujifilm's ZAC technology won an award for its control over plate processing resulting in more consistent plates and less money spent on chemicals, as well as reduced chemical waste.

At the fifth-annual Environmental Awards gala hosted by PrintAction magazine in Canada, Fujifilm was presented with a gold award for the Most Environmentally Progressive Process for the company's thermal Brillia LH-PJ plate and FLH-Z processor. In addition, a staggering 6 of 9 gold awards handed out in the printing categories went to Fujifilm customers who use the company's lo-chem Brillia LH-PJ plate and FLH-Z processor.

Thermal lo-chem

Plates	Processors
Brillia HD LH-PJE	FLH-ZII 'ZAC' Range
Brillia HD LH-PLE	FLH-RZ 'ZAC' Range
Brillia HD LH-NI3	

► PRO-V based 'lo-chem' solution for violet applications

The combination of the very latest plate and chemistry technologies, together with a state-of-the-art Fujifilm finishing unit, result in industry-leading chemistry and water use figures. The benefits of this solution are as follows:

1 Lower chemistry consumption

When Brillia HD PRO-V is used with our 'lo-chem' finishing units, no chemical replenisher is required meaning chemistry consumption is considerably reduced. For a printer using around 10,000m² of plates over a 1-3 month period, chemistry consumption can be reduced to around 400 litres, a reduction of up to 70% (depending upon existing system used).

2 Lower water use and minimal waste

As Brillia HD PRO-V does not require a post exposure rinse, mains water is eliminated and water consumption is considerably reduced. A simple water top up

to the developer chemistry is all that is required to keep the system ticking over effectively. As a result, waste production is also considerably reduced.

3 Higher consistent quality

Brillia HD PRO-V combines the benefits of low-chemistry CTP with the proven low cost of ownership of violet imaging. The plate itself is rated at 1-99% resolution (when used with a Luxel V-6 HD or V-8 HD platesetter) and it brings unmatched quality, consistency and productivity to violet plate production, with extended run lengths and the ability to easily print FM screens.

4 Easier maintenance

The elimination of chemical replenishment and the unique formulation of the developer result in a much cleaner bath which equates to a simpler maintenance regime and easier cleaning.

Violet lo-chem	
Plates	Finishing Units
Brillia HD PRO-V	Blue Amber MD/HD Range
	FCF Range



Please contact your local FUJIFILM partner for further information.

FUJIFILM

FUJIFILM Deutschland
Niederlassung der
FUJIFILM Europe GmbH
T +49 211 5089 255
grafische_systeme@fujifilm.de
www.fujifilm.de

FUJIFILM UK Ltd
T +44 1234 245 245
marketing.fgs@fujifilm.co.uk
www.fujifilm.co.uk/gs

FUJIFILM Graphic Systems
France SAS
T +33 1 64 76 71 00
commercial@fujigraphic.fr
www.fujifilmgraphic.fr

FUJIFILM Danmark A/S
T +45 45 66 22 44
fujifilm@fujifilm.dk
www.fujifilm.dk

FUJIFILM Italia S.r.l.
T +39 02 89 58 21
graphic.arts@fujifilm.it
www.fujifilm.it