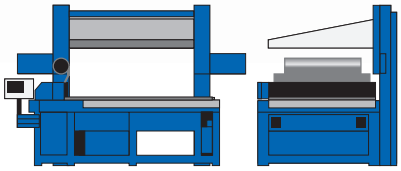
# Asahi ASF 1216 - Processing equipments

## Systems for APR™ Plate Making

### ASF 1216 E *Laminating/exposing unit*



**Lamination/exposure processes** › All functions and process sequences of the unit can be input and checked via a programmable controller and visualized on a colour display. › Flexo plates can be laminated to individual thicknesses of 1.7– 7.0 mm at increments of 0.01 mm. › Exact plate thickness tolerance within +/- 30 µm <3.94 mm to +/- 40 µm > 3.94 mm is ensured by electronically monitored laminating speed and temperature of the lower glass plate. › Two light-metering devices provide the basis for consistency of exposure results. › A removable light-reduction screen enables the operation to obtain extremely steep relief shoulders and pronounced intermediate depths. › The upper lid of the ASF 1216 E unit (for exposing the back of the plate) is lifted in horizontal alignment. This ensures optimum handling of the laminating-exposing frame from all sides. › The capping system makes it possible to laminate two liquid polymers, differing in Shore hardness, one on the top of the other.

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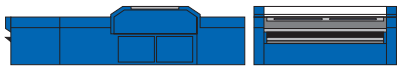
| Plate size | 1200 x 1600 mm |
| Machine dimensions (L x W x H) | Laminating/Exposing Unit: 3970 x 1650 x 2820 mm<br>Vacuum Unit: 950 x 500 x 640 mm |
| Weight | Laminating/Exposing Unit: 4500 kg / Vacuum Unit: 150 kg |

### ASF 1216 P *Processor*



The ASF 1216 processing system consists of five modules operating independently of each other. Each module (except the postexposure module) has a cylinder on which the APR™ plate is clamped. Plate transfer from one module to the next is a manual operation. All functions and sequences are controlled via a freely programmable controller. A built-in modem enables swift checking of all function sequences should a problem in operation (remote control) arise. **Plate transfer module:** The plate transfer operation to the processor is made easier thanks to the transfer drum mounted on rails between the exposure unit and the processor. **Photopolymer recovery module:** The recovery process is automatic. The unexposed APR™ photopolymer is removed from plate surface and protective film with a rubber squeegee – hot air supporting the process. The APR™ photopolymer thus recovered is automatically recycled into the photopolymer supply tank. **Wash-out module:** The aqueous wash-out solution is sprayed on the plate surface through nozzles, rinsing it of unexposed polymer. Automatic metering of additional fresh concentrated wash-out solution after each spraying process increases consistency and life of the wash-out bath considerably. **Finishing module:** The APR™ plate is horizontally carried in the module by a chain system and receives its UVA/UVC post light treatment submerged in water. The postexposure water is automatically regenerated after each cycle. **Drying module:** The wet plate is quickly and efficiently dried using a hot-air knife and hot air flow.

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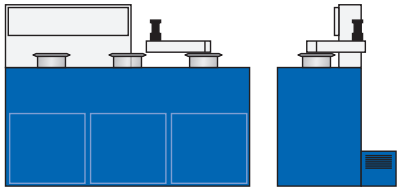
| Plate size | 762 x 1270 mm |
| Dimensions (L x W x H) | 2010 x 1660 x 1860 mm |
| Weight | 1400 kg net |

### ASF 1216 T *Photopolymer supply tank*



› Two liquid base photopolymer tanks with a volume of 200 l each provide a high capacity for continuous working. › A capping-photopolymer tank with a volume of 36 l provides sufficient capacity for continuous working. › All the photopolymer tanks are equipped with dedicated heater and the base polymer tanks in addition with an agitator. Recycled and fresh APR™ photopolymer are therefore mixed homogeneously and without any problem.
› An air-controlled pressure system ensures a uniform flow of photopolymer between liquid photopolymer supply tank and laminating bucket of the ASF 1216 E.

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| Dimensions (L x W x H) | 1750 x 850 x 1350 mm |
| Weight | 500 kg net |