



ATTIRO ZH

Preheat-free high-speed clean-out
unit for violet chemistry-free plates

The Attiro ZH is a high-speed clean-out unit for violet chemistry-free printing plates that requires no preheat module. Add to that its groundbreaking cascade technology and you get a wealth of productivity and sustainability.

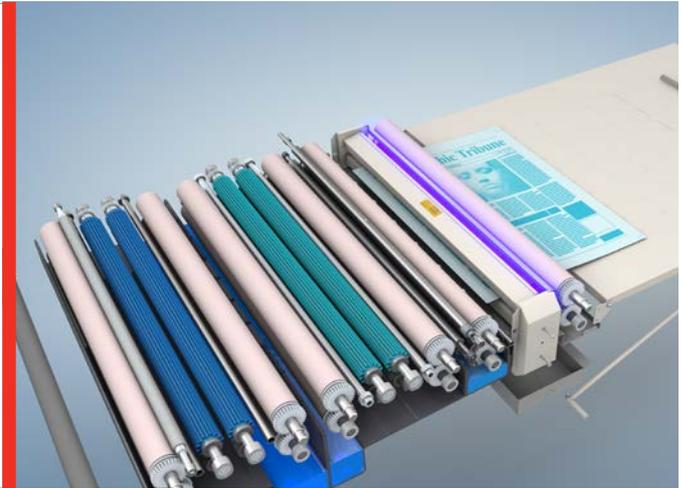
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Preheat-free high-speed clean-out unit for violet chemistry-free plates

Meet Attiro ZH, the high-speed clean-out unit for violet chemistry-free printing plates that requires no preheat module. It enables you to save on CAPEX, lower your energy consumption, and gain floor space. In addition, its unique cascade technology, which reuses gum in three sections, guarantees minimal gum consumption for a maximal clean-out effect.

The addition of the Attiro Cleaning Module (ACM) extends the main cleaning cycle for Attiro COUs from 8,000 to 12,000 m² of plate consumption. Furthermore, the two intermediate cleaning processes at 4,000 and 8,000 m² are executed as part of an automated process that starts with a simple keystroke on the Attiro display and requires no further intervention from the operator.



The Attiro ZH clean-out unit forms a very attractive solution combined with the Avatar V-ZH preheat-free chemistry-free printing plate, and the Advantage N platesetters. Existing Agfa clean-out units can easily be upgraded to the preheat-free version.

Benefits at a glance

- No preheat unit results in reduced CAPEX, in energy savings up to 60% compared to other clean-out units, and in a reduction of plate production costs up to 80% compared to a conventional processor
- No preheat unit means a smaller footprint and the option to move the CtP line closer to the press console
- Production stability and quality are enhanced as there is no more fast warming up and cooling down in the preheat unit
- Minimal gum consumption for maximal clean-out effect; less transport of gum bottles
- Extensive bath life, with full maintenance only required after 8,000 m² (or 12,000 m² when the Attiro Cleaning Module is installed)
- Fully flat plate transport through the clean-out unit leaves plates unbent by rollers
- Easy visual check and no mix-ups on press thanks to high-contrast image on the gummed plate
- High speed (up to 400 plates per hour) makes it the perfect match for high production, heavy-duty environments

Groundbreaking cascade concept

Minimal gum consumption for a maximal clean-out effect.

The Attiro ZH clean-out unit's unique cascade concept saves users extra money on maintenance and gum while contributing to a more sustainable prepress process. It comprises three gum sections to clean-out printing plates. The concentrated gum is effectively reused as it cascades from the third section to the second and then to the first. The result: minimal gum consumption for a maximal clean-out effect.

INPUT ROLLER

A pair of dry input rollers guide the plate safely into the Gum section 1.

GUM SECTION 1

95% of all non-imaged areas are removed from the plate.

Gum cascades into the first tank from the second tank and is sprayed on the plate to remove the non-imaged areas. The imaged areas are bound to the substrate and therefore not washed away by the gum. As most of the clean-out happens in this first gum section, it contains most of the cleaned out emulsion.

GUM SECTION 2

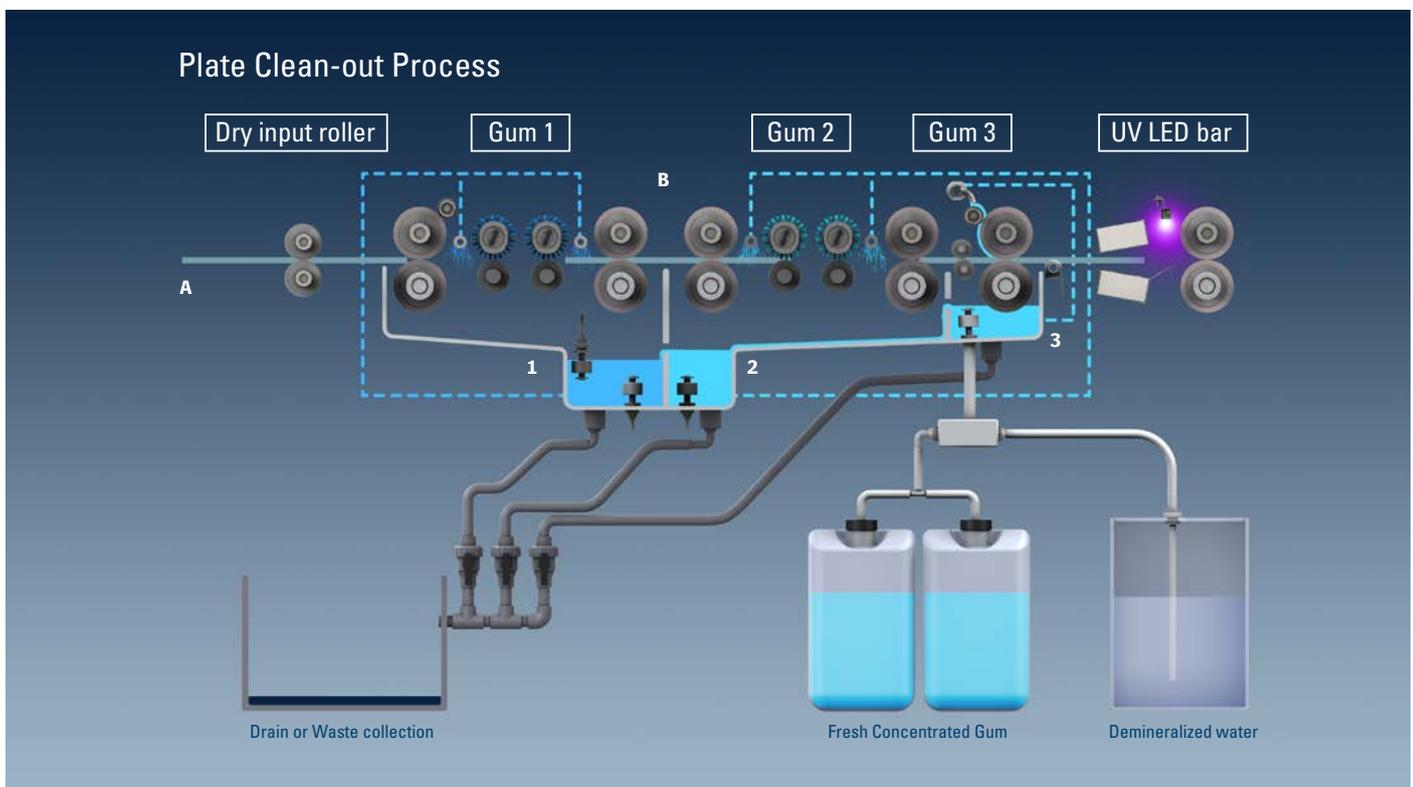
The remaining non-imaged areas are removed from the plate.

The gum mix from the third tank cascades into the second tank, removes the remaining non-imaged areas, and then cascades into the first tank.

GUM SECTION 3

A layer of fresh gum is applied to prevent the plate from oxidizing the grained and anodized aluminum.

The final clean-out step is carried out with diluted gum fresh from the bottle, thus ensuring a perfectly clean plate. The fresh gum and water from the tank in the third section then cascade into the tank of the second section.



DRYER SECTION

The plate is dried to enable immediate handling, independent of format.

Hot air is blown through a pair of air tubes, which dries the plate on both sides. As a result, further handling of the plate is immediately possible.

LED CURING

An integrated low-energy LED bar takes care of the final curing of the plate in the drying section.

1, 2, 3

At each cascading step, the gum is refreshed with a small volume of water.

A & B

Throughout the entire process, printing plates move in a straight line through the clean-out unit, which significantly reduces the risk of scratches, bended corners or damaging.

Technical specifications

PERFORMANCE	
Plate type	Avatar V-ZH preheat-free chemistry-free photopolymer offset plates
Plate width, min.-max.	400-710 mm (15.7-28")
Plate length, min.	275 mm (10.8")
Plate thickness	0.30 mm (0.012")
Plate speed	40-300 cm/min
Plate volume	Up to 400 plates/hour
Brush speed	Gum 1: 230 rpm (fixed) Gum 2: 150 rpm (fixed)
Water	Total hardness < 6° dH or osmosis water Connection: ¾" Max. pressure: 3 bar Drain tube: inner diameter 25 mm (0.098")
MECHANICAL SPECIFICATIONS	
Temperatures	Dryer min.-max.: 45-60°C (113-140°F)
Tank volumes	Gum 1: 7.5 lit. (1.98 US gal.) Gum 2: 5.5 lit. (1.45 US gal.) Gum 3: 4.5 lit (1.19 US gal.)
Noise emission (max.)	< 70 dB
PHYSICAL SPECIFICATIONS	
Weight cleaning module incl. crate	285 kg (628 lb) 385 kg (848 lb)
Dimensions cleaning module (w x d x h) incl. crate	1423 x 1270 x 980-1230 mm (56.0 x 50.0 x 38.6 to 48.4") 1550 x 1350 x 1220 mm (61.0 x 53.2 x 31.5")
ELECTRICAL SPECIFICATIONS	
Power supply	EUR Single phase: 1W + N + PE 230V / 9.0 Amps, 50/60Hz. USA: Single phase: 2W + PE 208 - 230V / 9.0 Amps, 50/60Hz.
Voltage tolerances	+/- 10%
Power EUR/US	2000 Watt hour
Heat dissipation	6824 BTU
Energy consumption (under standard working conditions for 1 h)	Ready (Standby): 0.03 kWh Processing: 0.5 kWh Logic off (device switched off via touch panel only, main switch remains on): 0.01 kWh