



## ATTIRO VHS

High-speed clean-out unit for violet chemistry-free plates

Groundbreaking cascade technology for newspapers brings a wealth of productivity and sustainability

- Minimal gum consumption for maximal clean-out effect
- Extended bath life, lower maintenance
- Clear image on the gummed plate – no confusion on the press

The Attiro VHS clean-out unit forms a very attractive solution combined with N95-VCF chemistry-free printing plates.

# Groundbreaking cascade concept now for violet chemistry-free

## Minimal gum consumption for a maximal clean-out effect.

The Attiro 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.

### PRE-HEATING SECTION

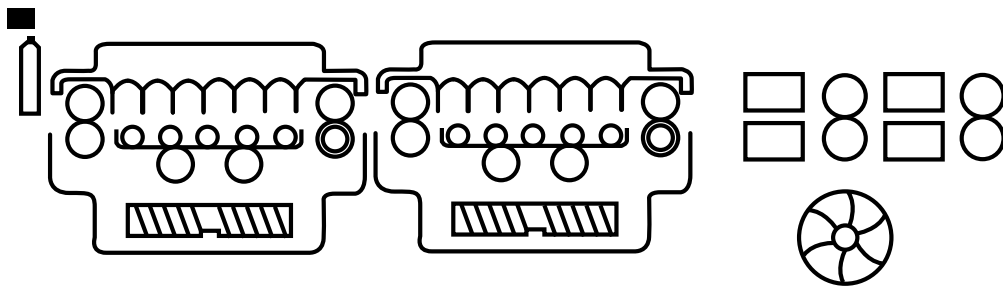
**The emulsion of the exposed plate is hardened using a high-tech hot air oven.**

A sensor ensures a uniform and stable temperature on the plate.

### COOLING SECTION

**The plate is cooled to enable immediate cleaning.**

The plate is cooled to an optimum temperature which prevents overheating of the liquids in the subsequent sections.



### Benefits at a glance

- Full maintenance is only required after 8.000 m<sup>2</sup> (or 12,000 m<sup>2</sup> when the Attiro Cleaning Module is installed )
- Minimal gum consumption for maximal clean-out effect
- High speed up to 400 plates per hour makes it the perfect match for high production heavy duty environments
- Fully flat plate transport
- Less transport of gum bottles
- Attiro VHS forms a very attractive solution when combined with the N95-VCF chemistry-free printing plates and Advantage N TR (V)HS

**For a perfectly clean plate, with a clear image at high speed.**

### GUM SECTION 1

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

Gum is sprayed on the plate. The imaged areas are bonded to the substrate and therefore not removed by the gum. The gum is actually cascaded into the first tank from the second tank. As most of the clean out happens in the first gum section, it contains most of the cleaned out emulsion. From this tank, the exhausted gum is drained off.

### GUM SECTION 2

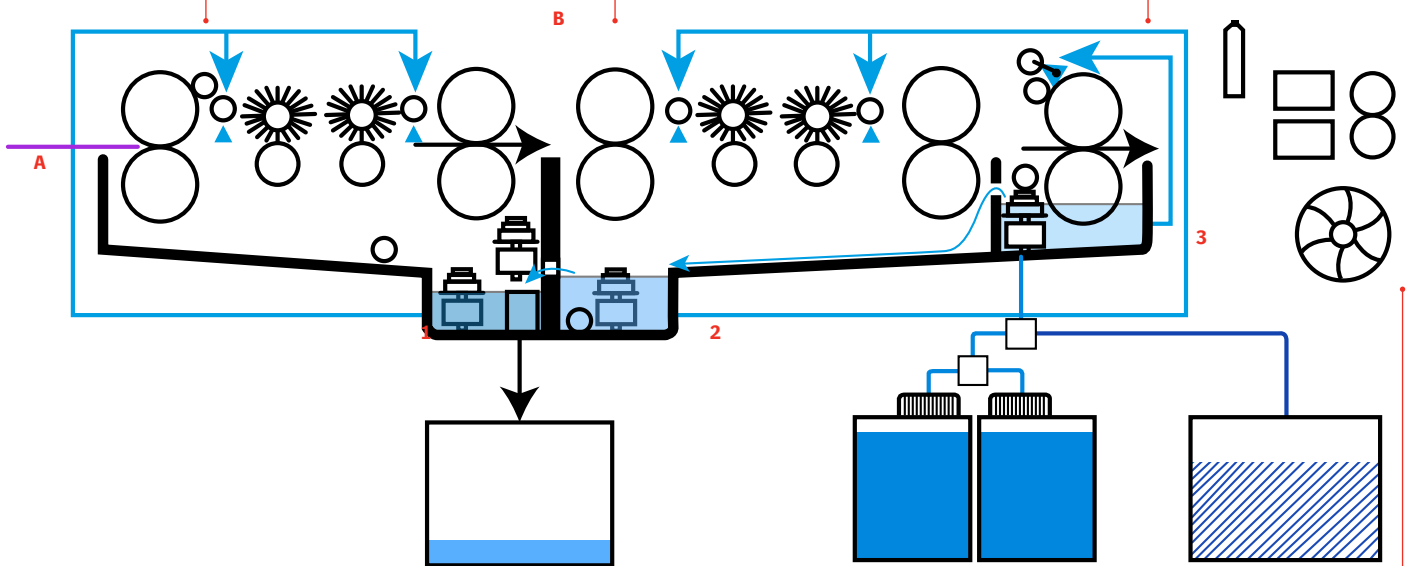
**The remaining non-imaged areas are removed from the plate**

The gum mix from the third tank cascades into the second tank, and pushes the gum used for the second cleaning step away. It 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 concentrated 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.



### 1, 2, 3

At each cascading step, the gum is refreshed with a small volume of water. Tanks in the Attiro are smaller than those in previous clean-out units.

### 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.

### DRYER SECTION

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

## Attiro Cleaning Module

The addition of the Attiro Cleaning Module (ACM) extends the main cleaning cycle for Attiro COUs from 8,000 to 12,000 m<sup>2</sup> of plate consumption. Furthermore, the two intermediate cleaning processes at 4,000 and 8,000 m<sup>2</sup> 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.

PERFORMANCE	
<b>Plate type</b>	N95-VCF chemistry-free photopolymer offset plates
<b>Plate width, min. - max.</b>	400 - 710 mm (15.7 - 28")
<b>Plate length, min.</b>	275 mm (10.9")
<b>Plate thickness, min. - max.</b>	0.30 mm (0.012")
<b>Platesetters (Agfa)</b>	Advantage N
<b>Plate speed</b>	40-300 cm/min
<b>Plate volume</b>	Up to 400 plates/hour
<b>Brush speed</b>	Gum 1: 200 rpm (fixed) Gum 2: 150 rpm (fixed)
<b>Water</b>	Total hardness < 6° dH Connection: 3/4 gas Max. pressure: 3 bar Drain tube: inner diameter 25 mm
MECHANICAL SPECIFICATIONS	
<b>Temperatures</b>	Pre-heating min.-max.: 20 - 160°C (68 - 320°F) Dryer min.-max.: 20 - 70°C (68 - 158°F)
<b>Tank volumes</b>	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.)
<b>Noise emission (max.)</b>	< 70 dB
PHYSICAL SPECIFICATIONS	
<b>Weight cleaning module incl. crating</b>	285 kg (628 lb) 385 kg (848 lb)
<b>Weight pre-heating module incl. crating</b>	218 kb (480 lb) 318 kg (701 lb)
<b>Dimensions cleaning module (w x d x h)</b>	1550 x 1350 x 1220 mm (61.0 x 53.2 x 31.5")
<b>Dimensions pre-heating module (w x d x h)</b>	<b>1550 x 1350 x 1220 mm (61.0 x 53.2 x 31.5")</b>
ELECTRICAL SPECIFICATIONS	
<b>Machine power</b>	EUR: three-phase / 3W + N + PE - 400V / 14Amps, 50/60Hz. USA: three-phase / 3W + PE - 208 - 230V / 23Amps, 50/60Hz
<b>Voltage tolerances</b>	+/- 10%
<b>Power consumption EUR/US</b>	9000 Watt hour (30717 BTU)
<b>Energy consumption (under standard working conditions for 1 h)</b>	Ready (Standby): 2.0 kWh Processing: 4.0 kWh Logic off (device switched off via touch panel only, main switch remains on): 0.02 kWh