

Cleaning Instructions for Dampening Systems in Printing Presses and Printing Units

1 CLEANING OF THE COOLING AND DOSING UNIT IN THE DAMPENING SYSTEM

1.1 Disconnection of the Filtration Unit from the Cooling and Dosing Unit

- Please make sure that the backflow of the dirty dampening water from the printing press as well as the backflow of the filtrated dampening water into the cooling and dosing unit are finished.
- For security reasons, a collecting tank for the dirty backflow water from the spray bars should be used!

1.2 Emptying of the Cooling and Dosing Unit

- Empty the cooling and dosing unit completely!
- Switch off the automatic dosing, if necessary cut off the water supply.
- Spray out the pan of the cooling and dosing unit with water, then fill it up to the minimum pump fill level.
- Switch on shortly the pump of the cooling circuit in order to empty this circuit with the heat exchangers as well (if necessary, lift the fill level floater).
- Switch on the pump of the cooling circuit which pumps the dampening water to the printing towers, so that the whole printing press circuit is rinsed with water.
- Switch off the pump of the dampening water circuit which pumps the dampening water to the printing towers, close the ball valves of the printing press supply!
- Empty the cooling and dosing unit completely!

1.3 Cleaning of the Cooling and Dosing Unit with VEGRA VOC-Free Pressroom Cleaner Concentrate GREEN 220 400 Zi

- Fill up the cooling and dosing unit with approx. 50 ltr of water and mix it with 5 ltr (10%) **VEGRA VOC-Free Pressroom Cleaner Concentrate GREEN 220 400 Zi**.
- Switch on the pump of the cooling circuit in order to rinse also this circuit with the heat exchangers (if necessary, lift the fill level floater). Strong foam forming is to be expected.
- Clean the pan of the cooling and dosing unit completely by hand with the cleaning water! Wipe off with a cloth all pumps and fill level indicators!

1.4 Emptying of the Cooling and Dosing Unit

- Empty the cooling and dosing unit completely!
- Spray out the pan of the cooling and dosing unit with water.
- Switch on the pump of the cooling circuit in order to empty this circuit with the heat exchangers as well (if necessary, lift the fill level floater).
- Empty the cooling and dosing unit completely!
- Repeat this whole action at least 3 times, in order to rinse out residues from the cooling and dosing unit!

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1.5 Neutralising of the Cooling and Dosing Unit with VEGRA Neutralising Solution 22 20 90

- Fill the cooling and dosing unit with approx. 100 ltr water and mix it with 3 ltr (3%) **VEGRA Neutralising Solution 22 20 90**.
- Switch on the pump of the cooling circuit in order to rinse this circuit with the heat exchangers as well (if necessary, lift the fill level floater).
- Clean the pan of the cooling and dosing unit completely by hand with the neutralising water! Wipe off with a cloth all pumps and fill level indicators!
- Open the ball valves of the printing press supply!
- Switch on the pump of the cooling circuit which pumps the dampening water to the printing towers, in order to rinse the complete printing press circuit with water.

1.6 Emptying of the Cooling and Dosing Unit

- Empty the cooling and dosing unit completely!
- Spray out the pan of the cooling and dosing unit with water.
- Switch on shortly the pump of the cooling circuit in order to empty this circuit with the heat exchangers as well (if necessary, lift the fill level floater).
- Empty the cooling and dosing unit completely!
- Repeat this whole action at least 2 times, in order to rinse out residues from the cooling and dosing unit!

1.7 Refilling with VEGRA Fountain Solution Concentrate

- Reactivate the automatic dosing, open the water supply.
- Exchange the fountain solution concentrate container!
- Adjust the dosage with a measuring device according the dilution diagram with the printing press circuit switched off.
- After switching on the press circuit, check the fountain solution concentration and correct it, if necessary, by adding concentrate by hand (water quantity in the piping circuit!)
- Mix in 1 ltr **System Cleaner VEGRA 29 00 08**
- During a one week period, add every day another 0.5 ltr **System Cleaner VEGRA 29 00 08!**

Cleaning Instructions for Dampening Systems in Printing Presses and Printing Units

2 CLEANING OF THE FILTRATION UNIT FOR DAMPENING SOLUTIONS

2.1 Disconnection of the Filtration Unit from the Cooling and Dosing Unit

- Please make sure that the backflow of the dirty dampening water from the printing press as well as the backflow of the filtrated dampening water into the cooling and dosing unit are finished.
- For security reasons, a collecting tank for the dirty backflow water from the spray bars should be used!

2.2 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.3 Cleaning of the Filtration Unit with Water

- Fill the work tank of the filtration unit with water up to minimum level.
- Switch on the unit for about one minute in order to rinse this whole pump circuit.

2.4 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.5 Cleaning of the Filtration Unit with VEGRA VOC-Free Pressroom Cleaner Concentrate GREEN 220 400 Zi

- Fill the work tank of the filtration unit with water up to minimum level (50 ltr?). Mix in 2 ltr of **VEGRA VOC-Free Pressroom Cleaner Concentrate GREEN 220 400 Zi**.
- Bring back the filtrate drain into the work tank.
- Operate the unit for approx. 15 minutes or until a max. temperature of 35°C has been reached.

2.6 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.7 Cleaning of the Filtration Unit with Water

- Fill the work tank of the filtration unit with water up to minimum level.
- Switch on the unit for approx. one minute in order to rinse the complete pump circuit.
- Repeat item 2.6 and 2.7 three times!

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2.8 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.9 Cleaning of the Filtration Unit with VEGRA Neutralising Solution 22 20 90

- Fill the work tank of the filtration unit with water up to minimum level (50 ltr?). Mix in 3 ltr (6%) of **VEGRA Neutralising Solution 22 20 90**.
- Bring back the filtrate drain into the work tank.
- Operate the unit for approx. 5 minutes or until a max. temperature of 35°C has been reached.

2.10 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.11 Cleaning of the Filtration Unit with Water

- Fill the work tank of the filtration unit with water up to minimum level.
- Switch on the unit for approx. one minute in order to rinse the complete pump circuit.
- Repeat item 2.10 and 2.11 three times!

2.12 Emptying of the Filtration Unit

- Empty the work tank of the unit completely.
- Empty the whole filtration circuit (pump, filter).
- Empty the whole ceramic filter unit also on the filtrate side.

2.13 Re-start of the Filtration Unit

- Reconnect the backflow of the dirty dampening solution on the printing press.
- Switch on the unit according to the directions.
- Dispose of the first 20 ltr of the filtrate.
- For security reasons, collect the filtrate drain for one week in fountain solution containers rinsed out with water and do not supply it directly into the cooling and dosing unit!
- On the first day, mix one liter of **System Cleaner VEGRA 29 00 08** into the work tank, evenly spread over the day!

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