Filtercleaner

Fount solution recycling for spray and classical dampening systems









Applications

- Newspaper presses
- Commercial presses

Product description

Filtercleaner combines different technologies of microfiltration.

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It is specially designed for the recycling of the newspaper dampening solutions.

On spray dampening, the over spray or drain, is continuously collected and filtered within 3 different units.

The recycled solution is automatically re-dosed and re-incorporated with fresh solution in the dampening circulator.

The filtration process is mechanical until 1 $\mu,$ there is no chemistry modification on the dampening solution.

On classical dampening, the solution is continuously filtered during the process of circulation.

Maintenance and system cleaning are minimum for a maximum reliability.

Return on investment is very fast due to savings on water recycling cost, dampening solution consumption, and press downtime.

And of course, benefits on quality, productivity and paper waste.

Filtercleaner

The right technology for newspaper presses dampening solution



Features

- Compact system
- Return tank with adjustable level and cycles
- 3 filtration modules
- 1µ filtration for particles, ink, oil, paper
- 100% automatic process

Minimum maintenance

- Touch screen control panel
- Continuous control of the filtration modules
- Easy and low frequency filters replacement
- No chemical cleaning of the modules



Reliability

- Simple and well adapted process
- No chemical consumable in the process
- No chemistry modification of the dampening solution
- No storage of the dampening solution

Economical and ecological

- No more wasted solution to get recycled (coldset)
- No more flush of dampening circulators (coldset)
- Water and dampening solution savings
- Recycling cost savings

Quality

Control of the original fount specifications

Recycling cost comparison over 24 months (coldset)



Retour sur investissement

10 towers : **7 month** 5 towers : **14 month**



Filtercleaner OS

Printing process water standardisation



Dampening

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- Pre filtering
- Softening
- Reverse Osmosis
- Storage
- Remineralisation
- Additives dosing
- Supply

Web remoistening

- Pre filtering
- Softening
- Reverse osmosis
- Storage
- HP supply
- Consistent pressure

Air humidification

- Pre filtering
- Softening
- Reverse osmosis
- HP direct supply





Osmosis



- Automatic RO water production from 50 to 2000 litres /h.
- Automatic process with all safety alarms and auto cleaning cycle for the membranes. Conductivity display.
- For dampening, dosing pumps are included for remineralisation and possibly fount solution.

Quality, hygiene, and process control

Water quality specifications

	Raw water	Osmosis	Remineralisation
Particules	variable	0	0
Alges	variable	0	0
Bactéries	variable	0	0
Conductivity(µS)	150 to 900	<10	300
PH	6.5 to 9	7.0	5.5
тн (⁰ғ)	5 to 50	0	15

Range of units

Units	Préfiltration	Softening	RO	Flow (I/h)	Storage(I)
OS100	2x10	1	1Mb 4x40	100	500
OS150	2x20	1	1Mb 4x40	150	500
OS 300	2x20	2	1Mb 4x40	300	500 - 1500
OS 600	2x20	2	2Mb 4x40	600	1500 - 3000
OS 800	2x20	2	3Mb 4x40	800	1500 - 3000
OS1000	2x20	2	4Mb 4x40	1000	1500 - 3000
ECOS	1x10	1x10	1Mb 2.5x40	50	250

• No water storage for air humidification systems

- Fully automatic process
- All pumps and pre-treatments included
- Flow datas for a raw water temperature of 15°C

Quality benefits

- Stable water for offset process
- Optimal water quality for offset process
- Pure water for web remoistening units
- Pure and safe water for air humidification systems

Cost savings

- Less printed waste
- Higher productivity
- Lower consumption in water and ink
- Less maintenance on dampening systems
- Reliable and safe air humidification system

Ecology

- Less used water to get recycled
- Less consumption in chemicals
- Better drying conditions in offset

