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LR CONVERTING PERIPHERAL PRODUCTS, SL

AUTOMATIC VISCOSITY AND TEMPERATURE CONTROL FOR LIQUID INKS LAQUER AND VARNISH

- Industrial construction
- Smart regulation algorithm
- 100% PLC based
- Touch screen user interface

Options:

- Temperature control
- PH regulation
- Consumption reports



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LR PERIPHERAL CONVERTING PRODUCTS

- Ink viscosity controls
- Automatic ink pH regulation
- Ink temperature control
- Solventless mixers
- Monocomponent metering
- Solvent based mixers
- Automatic flexo wash-up units

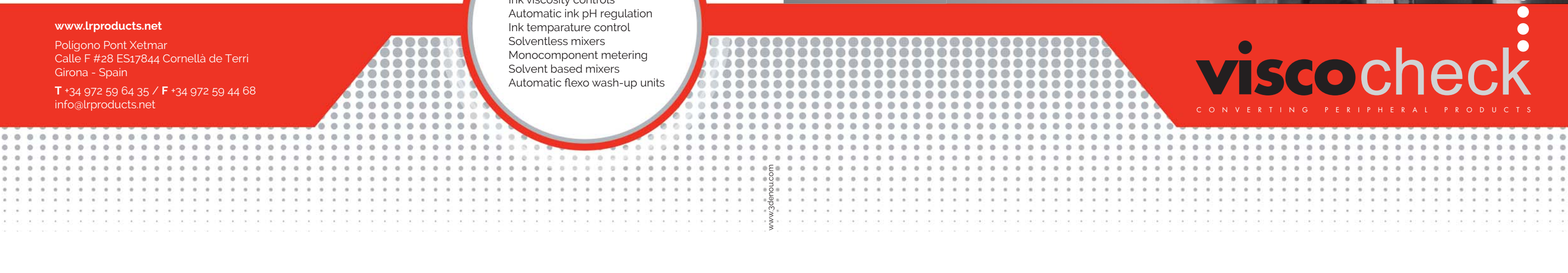
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viscocheck

CONVERTING PERIPHERAL PRODUCTS



MAXIMUM ACCURACY AND RELIABILITY
100% based on industrial electronics



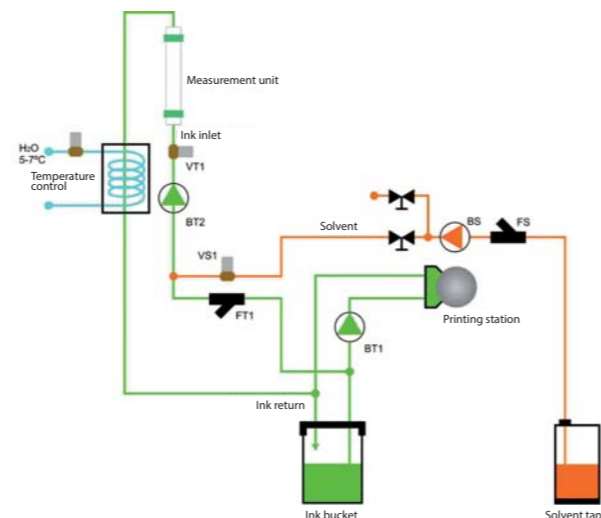
HIGHLY RELIABLE MEASUREMENT PRINCIPLE
PROVEN IN THE MOST HARSH INDUSTRIAL ENVIRONMENTS
CAN BE INSTALLED ON ANY KIND OF PRINTING PRESS

VISCOCHECK

The **viscocheck** viscosity control is based on the fallen body measurement principle. This principle, has been proven to be the most reliable for the measurement of liquid printing inks for flexo or gravure presses.

Two sensors are detecting the torpedo when falling down through the ink tube, so the time in between the two sensors will give the PLC an indirect viscosity measurement. Then the PLC will calculate the amount of solvent to correct viscosity the fastest and most accurate way.

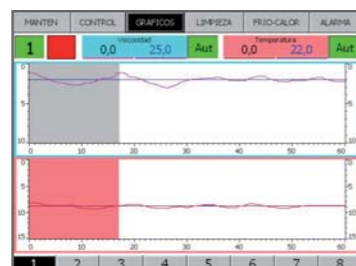
The viscocheck unit is able to work in the most demanding industrial environments.



Tinta	Slope	Offset	Tinta	Slope	Offset
Black	0,0160	5,4	Yellow	0,0160	5,4
Grey	0,0160	5,4	Cyan	0,0160	5,4
White	0,0160	5,4	Magenta	0,0160	5,4
Red	0,0160	5,4	Blue	0,0160	5,4
Orange	0,0160	5,4	Green	0,0160	5,4
Brown	0,0160	5,4			
Yellow	0,0160	5,4			

CALIBRATION

- By means of a calibration chart which is organized by color families, the software allows a measurement calibration to display values in seconds according to various cups.



GRAPHICS

- It displays the set point and the real values as well as it indicates when running on automatic or manual mode. The time check is adjustable.

AUTOMATIC STABILIZATION OF ALL INK VARIABLES: VISCOSITY / TEMPERATURE / PH BY MEANS OF A SOPHISTICATED ALGORITHM

- Strong industrial electronics, PLC based, non PC related issues
- Maintenance and cleaning trouble-free
- User interface on industrial touch screen
- Intuitive software, very easy to operate
- High quality membrane valves

MANTEN	CONTROL	GRAFICOS	LIMPIEZA	FRIJO-CALOR	ALARMA		
1	2	3	4	5	6	7	8
0,0	22,0	23,5	24,0	25,6	23,5	25,0	21,8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Auto	Auto	Auto	Auto	Man	Man	Man	Man
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
22,0	22,0	22,0	22,0	22,0	22,0	22,0	22,0
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Aut	Aut	Aut	Aut	Man	Man	Man	Man

Unique smart viscosity control algorithm

- Viscosity regulation is not done by a simple PID algorithm like most competitors do.
- The viscocheck software evaluates trends, and will react on the same way a very experienced operator would do. But fully automatic.



Viscocheck individual units

OPTIONS FOR THE FULL INK STABILIZATION ON VISCOCHECK UNITS



1 Full temperature control: hot / cold modes

- It allows the printer to keep the rheological and fluidity values constant, so the ink volumetric transfer will be constant as well.
- Significant savings are achieved depending on the plant temperature due to the lower solvent evaporation ratio.



2 Automatic pH regulation

- (products) has developed and implemented a specific software, designed to double-check the pH sensors status and to insure the proper functioning.
- On the event of a miss-calibration, the system will send an alarm to the operator and will switch from automatic to manual mode.