

Efficient curing



Frei AG, Hofenstrasse 18, 9300 Wittenbach, Switzerland

Dear Customer
Dear Business Partner

This  newsletter will be published periodically and gives those interested a glimpse into our fields of operation. Furthermore, we appreciate helpful suggestions and are looking forward to establish an open and inspiring communication with you.

www.frei-ag.com

Quality and Service Life

In can production lines the oven is mostly seen as an unspectacular working horse. Basically, it has to cure the lacquer or powder on the welded seam, produce an adequate tin flow and should not cause any problems.

Since the late 70's Frei AG has shipped hundreds of gas curers which are still operational.

Over the intervening years the curers have come of age, have been modified and modernized and have become more and more sophisticated in respect of system control and burner technology.

Our profound knowledge of the drying process with up-to-date manufacturing ensures a high level of quality, functional reliability and long service life.

Roland Frei

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Frei AG curing unit, model ECM equipped with the original „first generation ECO burners“. These burners were the first ones in the market that guaranteed lowest NOx and CO exhaust emissions.

Reliability

The latest Frei AG ovens permit powerful curing and polymerization of powder and wet lacquers with cost-effective utilization of energy. Solvent condensates are carried away by the integrated protective hood and extraction system. Unlike induction, gas curing is error tolerant to settings by the operator due to the “hot air cloud” that applies the temperature to the materials in a much softer curve, thus preventing discoloration of coatings and lithographed surfaces. Further strong point: No water cooling required.

Throughout all the years in this business we followed the principle: “Never has too long a curing system caused problems, but too short a system reduces quality and means trouble!”

Hans Leuenberger

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ecoCure – New Gas Curer for seam protection lacquers and powders

Currently we are engineering a new oven to replace the very old PCA systems (u-shaped or straight). The development focus is simplicity in handling, robust design and curing efficiency. With this we are convinced to offer you an attractive investment option for your existing can lines.

Giuseppe Cifarelli

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Phasing-out items



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Frei AG products are marked by their long life cycle. Component obsolescence and advancing technology is driving the need to phase-out certain items of our product-line. With below list we are notifying you of the phase-out items. Unfortunately not all items have interchangeable substitute components still available on market. Once items in stock are sold out, individual customized solutions can be searched for. This involves also electrical cabinets and electrical control software.

<u>Ident-No.</u>	<u>Description</u>
*41218	Bedienungsmonitor GS1/GS1-MEM-00
*48677	System Memory Module SMM-2
*52910	Micro Panel GF-O LCD Mono 5,7" 24VDC S7-MPB
*52928	Micro Panel GF-O LCD Color 5,7" 24V S7-MPB
*53127	PC-Card zu GF 1: PCC-8MB-FA
*56264	Micro Panel GF 0-10 / 10.4" SNT 24V S7-MPB
*60755	Micro panel GS2-90EMD-xx0 9.00» Infrared version 10.4"
*17685	Level monitor 24VAC DGFI.15
*17744	Flame detector 230VAC DGFI. 15
*17743	Flame detector ionization DGFI.15 110VAC 110VAC
*19084	Gas ignition automat 110VAC 60Hz
*19085	Gas ignition automat 230VAC 50/60Hz
*22343	Gas ignition automat 220VAC 50Hz
*27891	Gas ignition automat 220VAC 50Hz
*42488	Gas ignition automat 110V 60Hz
*44208	Gas ignition automat 24VAC 50/60Hz
*42507	Gas ignition automat 220VAC 50Hz
*65816	Gas ignition automat 230V AC 50/60Hz
*41384	Central componentry CPU103 / Simatic
*41385	Digitaleingabe 8xDC24V / Simatic
*41386	Digital output 4xrelay / Simatic
*41387	Analogeingabe 4x +4 - 20mA / Simatic
*41388	Regelungsbaugruppe IP262 / Simatic
*41389	Busmodul / Simatic
*41390	Anschaltung IM315 / Simatic
*41391	Memory module 375 EPPROM / Simatic
*46232	Automatisierungsgerät S5-95 U / Simatic
*46234	Analog Output Baugruppe 2x 4-20mA / Simatic
*46240	Digital Ausgabe Modul 8x24VDC 0.5A / Simatic
*46246	Netzgerät Siemens RU Sek 24V DC Prim. 400V/230V/115V 10A
*48659	Automatisierungsgerät AG S5-95 U / Simatic
IDEC PLC	
*19701	Basic unit 24 input/output 110/220V
*19702	Output module 8 outputs 110/220V 5A
*19703	EEPROM with 4Kbites
*22995	Carbon brushes to MAGVAC exhauster