



Air Ventilation and Thermal Systems



MESSAGE TO CUSTOMERS AND PARTNERS

Marília, March 24th 2017.

Dear customers,

We would like to inform our customers and partners about some recent and relevant facts regarding the last commercial activities of Brunnschweiler Latina Ltda:

PARTNERSHIP EVG AND BRUNNSCHWEILER



It is a pleasure to announce our recent signature of a cooperation agreement with the company EVG Lufttechnik GmbH from Germany.

EVG is a global leader of industrial fans technologies, as well as ventilation systems. Based in Germany, has operations in Europe and Asia. Its strategy is based on the development of equipment with the highest quality and energy efficiency, with significant and constant investment in R&D.

Some reference examples are axial and radial fans with multiple industrial applications, such as: pulp and paper, steel, cement, chemical, glass, ceramic, automotive and energy. Besides, EVG has experience in special ventilation project: wind tunnel (Formula 1), axial fans with variable angle blades constructed with carbon fibers, fans for extreme conditions (up to 950C and acid environment), free fall simulators for parachute training, remote monitoring (IOT), and others. EVG has also the capability to simulate fans and processes with FEA and CFD software. For additional information, access: www.evg-group.com

Brunnschweiler will be responsible for sales of complete EVG product line within Latin America market, as well as after-sales service and local manufacturing in Brazil.



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PARTNERSHIP COPROCESS AND BRUNNSCHWEILER



Brunnschweiler has recently signed a contract of technology assignment for the manufacturing and sales (Latin American market) of infrared drying systems: InfraGas. This technology is used by CoProcess Canada Inc. For additional information, please access: www.coproprocess.ca

The InfraGas system with its exclusive and patented short wave infrared technology has several advantages compared to similar technologies available in the market, such as:

- Gas consumption up to 40% lower than competitor systems;
- Electrical energy consumption up to 70% lower than competitor systems;
- Highest drying capacity due to stronger energy penetration into the sheet substrate (IR short wave spectrum), allowing its application with very high basis weight, such as pulp and fluff drying;
- Improves the CD moisture profile significantly;
- Flexibility and simplicity with equipment installation: lowest footprint for equipment installation compared to competitors;
- Highest safety in the market: turns off in just 850ms, allowing free hands touch at the equipment just 3 seconds after turn-off. Does not accumulate heat into the irradiator structure;
- Excellent option for paper machines with low drying capacity and space limitations. Payback lower than 6 months for application with production increase. Simple rule: 1 irradiator does the drying work of 3 drying cylinders;
- Corrugator machine applications allow production increase and significant improvement of final paperboard box mechanical properties, which means potential to reduce base paper basis weights.

www.brunnschweiler.com.br

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PARTNERSHIP SOLAR TURBINES AND BRUNNSCHWEILER

Solar® Turbines

A Caterpillar Company

Brunnschweiler set a recent partnership with Solar Turbines (Caterpillar group) from USA to develop cogeneration projects with gas turbines within the Brazilian market.

Solar is the market leader for gas turbines with integrated electrical generation within the range 1,2MW to 21,7MW. This is the ideal power for industrial cogeneration projects. For additional information, kindly access: <https://mysolar.cat.com>

Brunnschweiler, with its expertise in the air ventilation and thermal systems, will be responsible for project definition and execution of the heat recovery system from the gas turbine. This thermal energy can be used either for steam generation or also directly in the paper drying system (PM hood).

The paper mill standard energy profile (30% electrical, 70% thermal) suits perfectly the gas turbine energy profile, allowing very high cogeneration efficiency. After Oil & Gas, Pulp & Paper is the second market for Solar worldwide, with several references and quick payback.

Best Regards,

Paulo Boechat
Brunnschweiler Latina Ltda

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