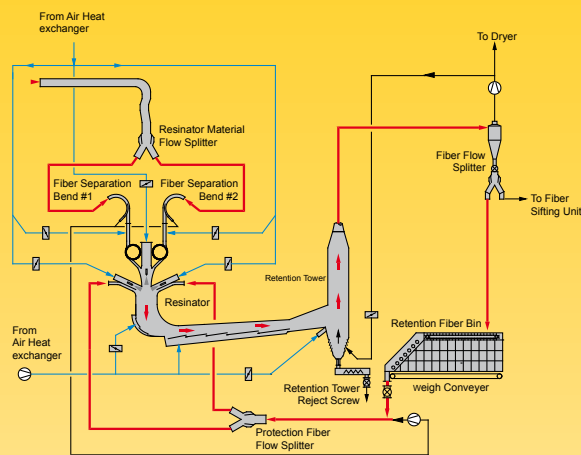


EVOjet™- and PROjet systems

Increased efficiency of MDF production – significant resin savings

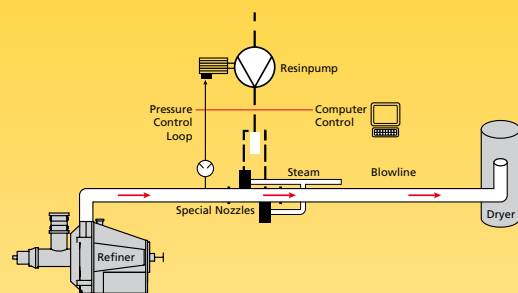
Dieffenbacher has successfully completed the market introduction of the new EVOjet™- and PROjet systems. In several MDF production lines the EVOjet™ system has proven its high efficiency and has achieved resin savings in a range from 30 to 50 %. Several production lines using the new PROjet technique could reduce resin consumption by 4 to 12 %. Dieffenbacher has acquired an exclusive licence for all world markets except for North America for the EVOjet™ system. The PROjet technique is exclusively marketed worldwide by Dieffenbacher.



EVOjet™ flowsheet

EVOjet™ – 30–50 % reduction in resin consumption / No resin spots on the board surface

The EVOjet™ system is a dry blending system allowing blending of MDF fibers right after the drying process. The EVOjet™ system, for the first time, allows making full use of all advantages resulting from positioning the process step of “Blending” after fiber drying. The result is a significant reduction in resin consumption and elimination of additional emissions in the dryer exhaust gas flow typically generated by blending before drying.



PROjet flowsheet

PROjet – resin savings up to 12 %

Also the PROjet technique is successfully being used in several production plants and has achieved resin savings ranging from 4 to 12 % keeping the physical properties of the produced boards constant.

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EVOjet™- and PROjet systems

Increased efficiency of MDF production – significant resin savings

Features of EVOjet™

- Consists of the blending machine “Resinator” and the specially designed pneumatic transport system for resinated fibers (see schematic and photo Daiken)
- Avoids additional emissions of formal-dehyde with the dryer exhaust gases
- Allows the sensitive adjustment and optimization of the glue composition with regard to faster press speed as typically used in production of MDF- and HDF thin panels
- Energetically Optimization of the dryer operation by using an elevated dryer entrance temperature for the non resinated fiber material
- Compensates the disadvantage of having more electrical energy installed for the pneumatic fiber transport systems by the optimized dryer operation
- Avoids the generation of resin spots on the board surface, which is a negative effect of other systems
- **9 References proof the success of this new technology**

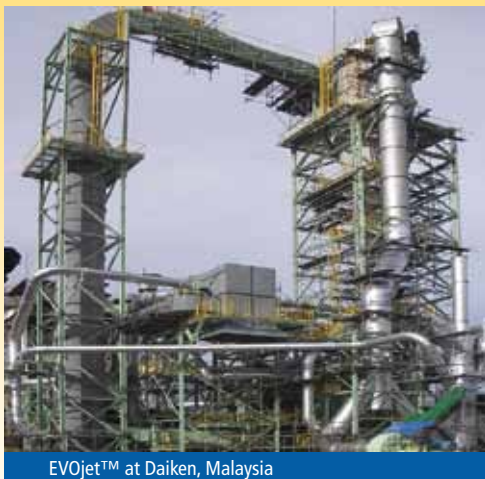
Features of PROjet

- Optimized blow line geometry
- Newly developed resin injection nozzles with steam addition and a number of important closed loop controls which communicate with the important operating parameters of the pressurized refiner system
- **11 References**

Comparison EVOjet™ – PROjet

Comparing the systems it can be seen that the PROjet technique is the economical and fast to integrate solution offering interesting reduction figures of resin consumption after minor modifications and consequently little downtime of the production line.

The EVOjet™ system will, calculated for the lifetime of a production line, in spite of the higher initial investment, save enormous amounts of operating costs and offers very important additional advantages. The Dieffenbacher specialists will be pleased to carefully advise you on the best solutions for your individual project.



EVOjet™ at Daiken, Malaysia

... please contact us for further information

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