



PRESS RELEASE - For Immediate Distribution

IR-CLEAN®: FDA Approval for KREYENBORG Infrared Rotary Drum

03/2020: If Post Consumer Recycling Materials are to be processed directly into PET Sheet, with a process authorized by FDA or by EFSA an indispensable solution is required. With its IR-CLEAN® System, KREYENBORG now offers an attractive and low-cost alternative for Post-Consumer Materials and direct decontamination processing of PET – without any kind of vacuum technology.

The system is an advanced development in the process technology of the well-proven IRD Infrared Rotary Drum used in hundreds of industrial applications. The standard process of crystallization and drying of PET Post Consumer Bottle Flakes in the IRD has been refined by various changes in the process parameters and technical modifications – this has resulted in outstandingly good decontamination results which have been proven in tests in collaboration with the Fraunhofer Institute for Process Engineering and Packaging IVV. The Food + Drug Administration FDA has issued a Letter of Non-Objection on the basis of these values. These results can also be used for the limits, fixed on behalf of the European Food Safety Authority EFSA – depending on the use of the end product up to 100% of Post-Consumer material.

The key to these good results lies in the general functional principle of the Infrared Rotary Drum – the low mass in the process and the continuous movement of the material ensures a continuous surface exchange of the recycling material to be treated. Combined with the direct heat input from the Infrared light, which generates high temperatures within a few minutes, the IR-CLEAN® concept needs no expensive and high-maintenance vacuum systems. IR-CLEAN® combined with a downstream Finisher, that takes the form of a desiccant air drier, giving drying values of <50ppm. The IR-CLEAN® system achieves the FDA / EFSA values already upstream of the extruder, facilitating easy retrofitting and, thus, an FDA / EFSA approval of existing single-screw, twin-screw or multi-screw extrusion systems. The package, developed by KREYENBORG comprises not only the conveying technology, but also complete process monitoring and documentation of the process parameters.



eFACTORTHREE

Picture: IR-CLEAN



About eFACTOR3, LLC

Headquartered in Charlotte, North Carolina, eFACTOR3, LLC brings together a keen understanding of environmental, engineering and equipment issues. The company offers a variety of pre-shredding, shredding and granulating equipment, along with conveying and separation equipment, systems integration and installation.

eFACTOR3 also represents Kreyenborg and their innovative solutions in the fields of drying, crystallization, storage, mixing, conveying and dosing of plastics.

Whatever you intend to recycle or turn into alternative fuel, eFACTOR3 can provide a custom solution.

For more information, contact Hartmut Bendfeldt at 1.877.801.3232, hbendfeldt@efactor3.com, and visit www.efactor3.com.

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