

Press Release

Gurnee, IL
January 19, 2021

EIRICH Machines Announces New Mixing & Drying Technology

EIRICH Machines is proud to announce the addition of the *OptimaDry Microwave Mixing & Drying System* to its product portfolio.

The OptimaDry is the combination of microwave technology, which offers an extremely accurate and controlled heating, and EIRICH Machines' industry-leading fluidizing blending technology. The result is achieving an exceptionally homogeneous blend, while very gently and efficiently heating/drying a product. Typical microwave heating can be up to 10 times faster than alternative heating methods.

There are numerous benefits with this technology, including faster processing times, uniform and consistent heat distribution, and highly accurate temperature control.

The microwave technology is used for large-scale industrial heating and drying of a wide range of products. The OptimaDry is very suitable for applications like herbs, spices, coffee, powders, nutraceuticals, plastics, chemicals, and other products where heat sensitivity is a factor, and where aroma, color, nutrition, or consistency must be maintained.

"The OptimaDry brings innovative and exciting solutions to the food, nutraceutical, and chemical industries", commented Matthias Erdmannsdoerfer, Managing Director at EIRICH Machines. "There are enormous opportunities in this technology and EIRICH Machines is proud to be part of the answers to the challenges many manufacturers are facing", continued Matthias Erdmannsdoerfer.

The high-power microwave generator converts electricity to microwave energy that is carried through the waveguide, a special aluminum duct, to the applicator, in this case the blending tank. In the tank the material is being processed to a homogeneous blend and heated/ dried simultaneously. The volumetric microwave heating allows for a very even temperature distribution, and the moisture level in the material goes down much faster compared to alternative heating methods.

The OptimaDry blending units are available in working capacities from 1.5 to 400 cubic feet. The advanced microwave generators are either magnetron or solid state, with operating frequencies ranging from 896 to 928 MHz. The generators are modular, scalable, and easy to maintain.

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About EIRICH Machines

EIRICH Machines, member of worldwide EIRICH Group, is an international supplier of material processing systems and solutions. With its two product lines EIRICH and American Process Systems®, EIRICH Machines offers the most comprehensive line of Mixers, Blenders, Dryers, Grinders, and Peripheral

Equipment. With sales, test lab, engineering, production, and customer support in one location (Gurnee, Illinois), EIRICH Machines is your one-stop shop for all material processing needs.