



# MICROWAVE HEATING SYSTEMS

Environment Friendly Engineering Solution Company



In Association with SVCH-Technologii, Moscow (Russia)

[www.kerone.com](http://www.kerone.com)

ISO 9001-2008 | ISO 9001-2015 | EMS 14001 | OHSAS 18001

# About Kerone

KERONE now renowned name in serving specialized need of customers with best quality and economical process Heating /cooling and drying products, manufactured in high quality environment by well trained and qualified workforce(special purpose machineries) .

KERONE is pioneer in application and implementation engineering with its vast experience and team of professionals. KERONE is devoted to serve the industry to optimize their operations both economically and environmentally with its specialized heating and drying solutions.

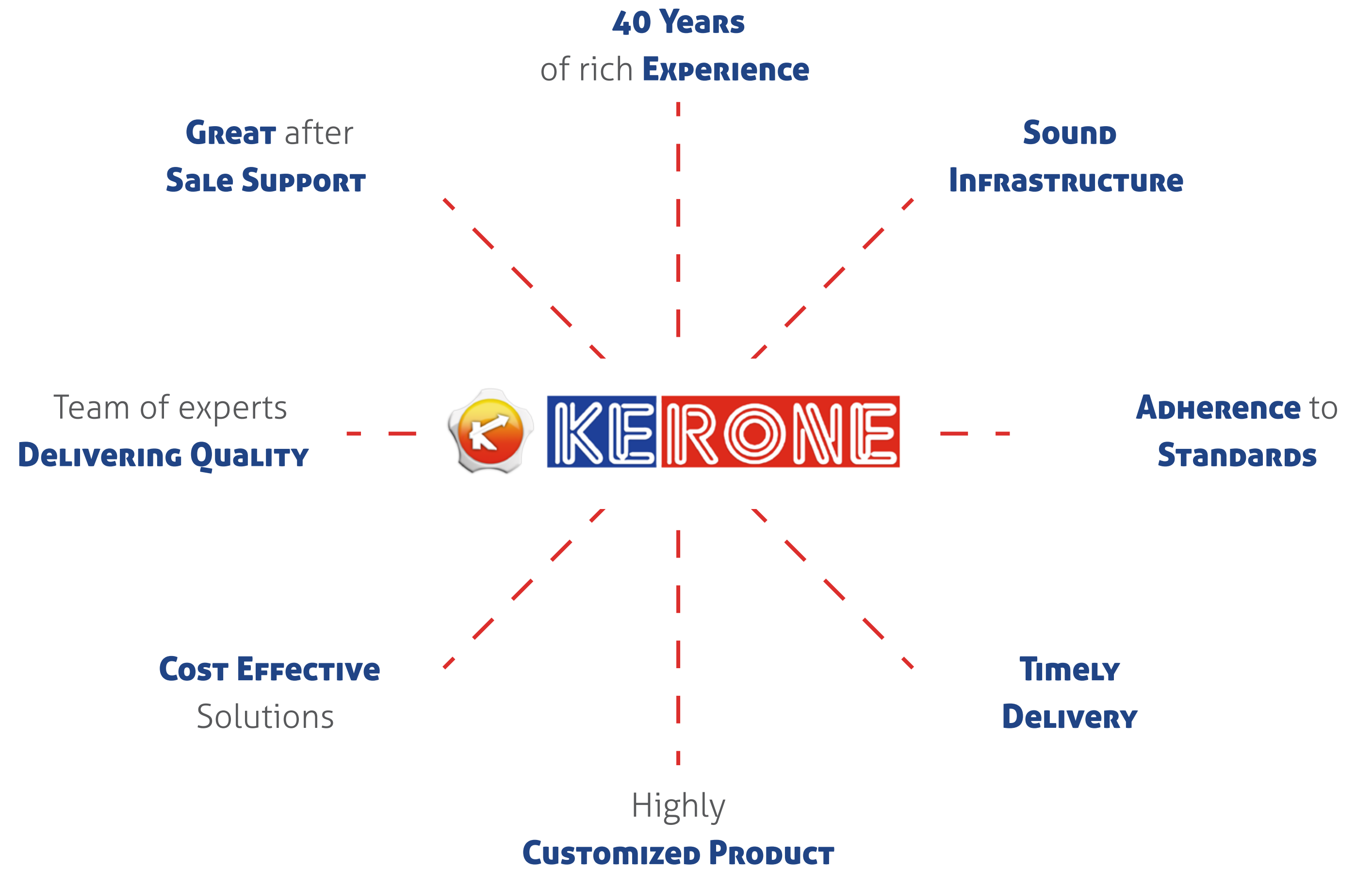
**“Enhance the value of customer operation through our customer need centric engineering solution”**

## *Mission*

- To enhance the value of customer operation through our customer need centric engineering solution.
- We are committed to provide our customers, unique and best in class products in Industrial heating, drying and cooling segment, with strategic tie-up for the technical know-how with renowned leader in the industry specific segment.

## *Vision*

- Turn into world leader in providing specialized, top-notch quality and ecological industrial heating, cooling and drying solution across the globe.
- To attain global recognition as best of quality and environment friendly engineering solution company.





## Introduction to

# Microwave Heating Systems

Microwaves are electromagnetic waves that cover spectrum of frequencies ranging 300 MHz to 300 GHz. Its properties are alike light waves, that they are being reflected by metallic objects, absorbed by dielectric materials, or transmitted from glass.

The typical frequencies used in microwaves are 2450 MHz for general purpose (home) ovens and 915 MHz for industrial use. Absorption of microwave energy in the material involves primarily two mechanisms- ionic interaction and dipolar rotation, electromagnetic heating such as microwave (MW) and radiofrequency (RF) heating are used in many processes like reheating, pre-cooking, baking, drying, pasteurization, disinfestation and sterilization in industries.

Kerone offer microwave based heating solutions for various application and the design of equipment varies based on application.

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## Lab Scale

Catering need of small scale, laboratory experiments and pilot plants Kerone design and built various type of small size, lower electromagnetic emission based heating system generating lower heating and power. These equipment are similar to home based microwave heating system with customised control in terms of energy and power control. Typical application of lab scale equipment are:

- Carrying Out Lab Experiments
- Small Scale Production System
- Processing of Chemical
- Preheating
- High Temperature Processing

## Industrial Batch Scale

Microwave Batch Oven is intended to have a suitable door for loading and unloading trays of the material to be pre-heated or dried. It's build with an extensive mixed container of shapes and sizes as per the application. It's consolidated with both, basic operation and high solidness. Batch Systems are used for a wide variety of applications in heating and drying applications. Typical application of batch type equipment are:

- Tray Drying/Heating
- Drum Heating/Drying
- Rotary Drying/Heating

## Industrial Continuous Scale

Cost of time and labor are most critical aspect of the any industrial processing system, continuous microwave systems produce more product with lesser resource. For most of application continuous microwave demonstrate to be enriched as compare to other type of microwave heating system. Typical application of batch type equipment are:

- Conveyerised Drying and Heating
- Stylisation and Disinfestation
- Curing Systems
- Line Production and Processing Plant
- Dehydrating Chemicals
- Dairy Products
- Food Products

# 3D View



# Trusted Partner





# Our Clients





**KERONE**

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