



# MICROWAVE HEATING DRYER

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.

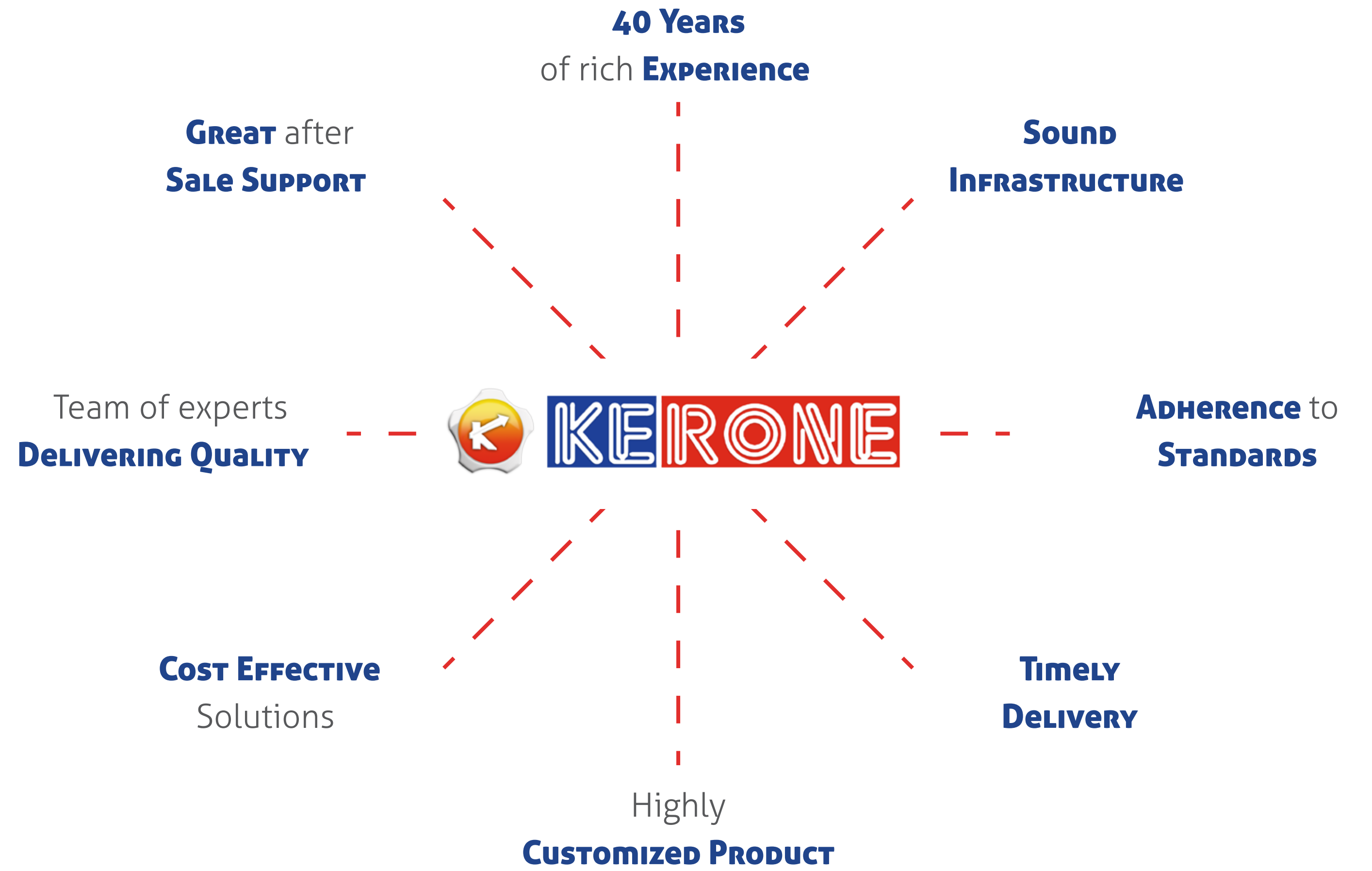
**“Enhance the value of customer operation through our customer need centric engineering solution”**

## *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 Dryers

Microwave is not a type of heat, rather it's a form of energy that are exhibited as heat by the means if their interaction with the material. It results in material to heat themselves, the mechanism of energy conversion used is dipole rotation.

In Dipolar rotation is forced processing that happens within the material, many molecules such as water are having asymmetric i.e. they are randomly oriented being in relaxed (zero) state. When electromagnetic field (Microwave) induced it causes stress on the molecules to bring them in alignment, as the electromagnetic field changes its polarity decaying towards zero the dipoles returns to relaxed state orientation only to be pulled toward alignment again as the electromagnetic field reaches to its reverse polarity.

This changing of polarities in electromagnetic field, takes place in millions of time every second and causes the dipoles equally to align and relax millions of times per second. This change in state of dipoles results in the conversion of energy from stored potential energy to thermal energy.

**kerone/microwave-heating-dryer**

[www.kerone.com/microwave-heating-dryer.php](http://www.kerone.com/microwave-heating-dryer.php)



# Features

- High Quality Magnetron manufactured by Panasonic(Japan)/IBF (Germany)/Hitachi (Japan).
- Allen Bradley PLC, HMI and PID Indicator/controller.
- RF/MW choke/timer provision.
- Stainless steel chamber.
- Required electrical & thermal safety features for microwave generator.
- Variable frequency (Belt speed control).
- Variable Power output (selectable) up to 100% .
- Temperature Control.

# Application

- Food Industry
- Paper Industry
- Pharmaceuticals Industry
- Rubber Industry
- Chemical Industry
- Textile Industry
- Dehydration Plants
- Pharmaceuticals And Biochemi
- Ceramic Industries
- Adhesives Prepration
- Sterilisation and Disinfestation Plants

# Advantage

- Microwave heating process is clean and no emission of any gases or residuals
- Microwave heat penetrates both on the surface as well as internally within the object placed for the Treatment.
- High speed of heating reduces total time of processing.
- Microwave heating process is highly controllable.
- Work space requirement is very less.
- Best drying result are achieved as heating takes place from within material
- Cost of production with microwave dryers are lesser than air flow or direct heat transfer based dryers .

# 3D View



# Trusted Partner



# Our Clients





**KERONE**

Kerone Engineering Solutions Limited

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