























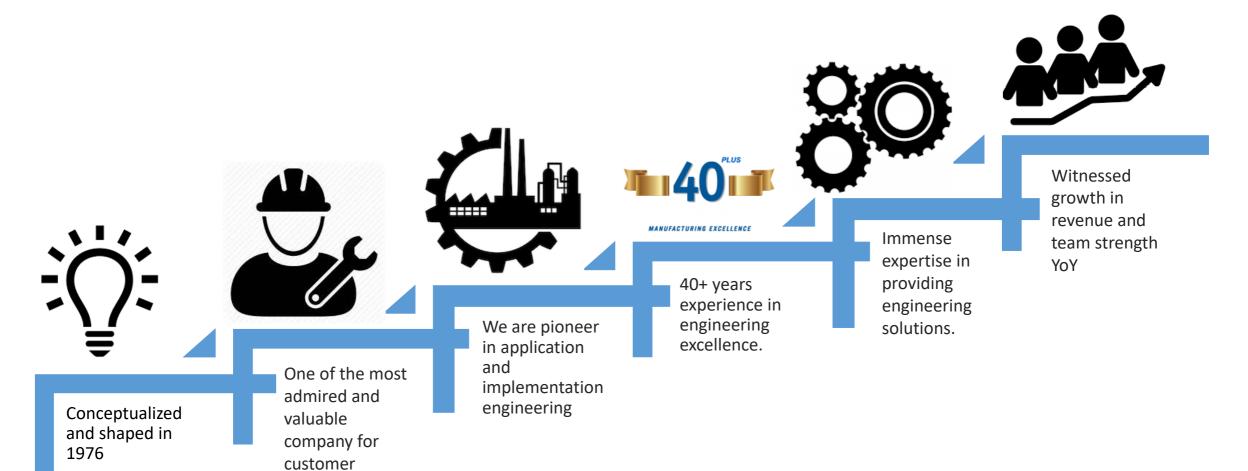




Who are we...

satisfaction.





We are accredited by...







Member of IHEA



Strategic Partners of Emitech Italy



IAF Certified For Quality



Recognized and Rated by CRISIL



CRISIL Verified



Member of A.M.P.E.R.E. (Europe)



Associated with Institute of Chemical Technology



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

Why We...







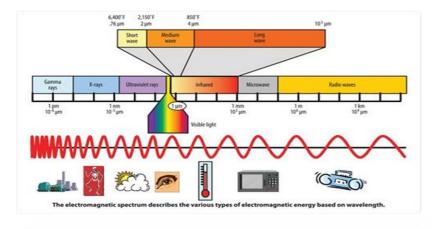


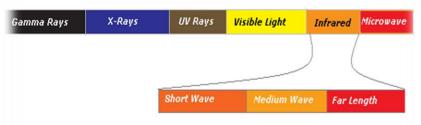






Introduction of Infrared





Infrared Heating System are basically classified based on its emitting wave length:

Far Infrared (3000 nm and Above) Medium Wave (1400 nm and 3000 nm) Short Wave (780 nm to 1400 nm) Infrared Heating System are part of Electromagnetic heating family.

Infrared heaters uses IR radiating waves falls just below visible light spectrum.

Infrared radiators heats produces heat on the surface of material.

Heat is transferred from outer surface to inner body.

Infrared heating system produces heat same as 'SUN' from hot surface to cold surface.

Infrared Based PET Crystallizer - Working Principle

PET flakes are fed into
Kerone's advanced sensor based feed mechanism that ensures continues supply of adequate quantity only within the IR dryer

PET flakes to be dried are transported through the surface of rotary drum using internal helix

The drum is fitted in such as manner to get the maximum and equal IR exposure to each PET flakes

IR lamps produce the infrared wave that produces the heat when it strikes the material

IR rays penetrates within the PET flakes and starts removing moisture from inside-out

Moisture gets out of the flake and are removed from drum with flow of air

Crystallized PET transported to output chamber and collected there.

Control

Entire process is monitored and controlled by very easy to understand and highly sophisticated control mechanism with LCD screen and touch based control

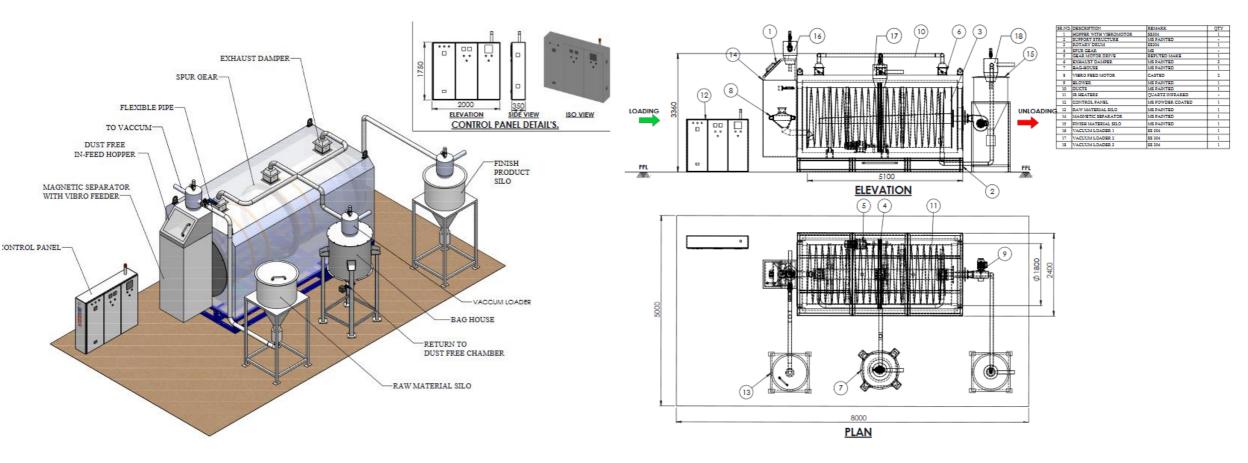








Infrared Based PET Crystallizer – Schematic



Infrared Based PET Crystallizer – Features





Energy Savings

•IR crystallizers provide energy saving of up to 45% as it dries in single run and in minimum time

Quick Change over

 Unlike conventional systems it does not requires 5-6hrs for processing. Drying takes place within one

Digitally controlled

•100% digital control and stop

One Step Process

•IR based systems are capable of crystallizing and/or drying up to 4000 lb/hr (1800 Kg/hr) in single stroke

4-5 times faster than conventional System

- •IR systems reduces moisture from over 3500 ppm to less than 50 ppm in about an hour.
- Conventional systems requires 5-6 hrs

hour only.



Less floor area

•IR systems offers upto

in-process inventory

and smaller footprint

400% space saving less

consumption

mechanism, quick start

Infrared Dryer Myths

Myth

 Infrared rays destroy the IV properties of PET flake

Realty

•Shorter exposure to heat in IR dryer helps in preserving the properties

Myth

 Installation Cost of IR dryers are huge compared to Conventional

Realty

 Initial costs of IR dryers are marginally high but profitable in long run compared to Conventional

Myth

• IR dryers can reduce the moisture only up to 50ppm

Realty

 Moisture level of less than 50 ppm is reached in just one hour and the moisture content can be controlled to higher levels if required

Myth

 IR technology is only applicable on low throughput applications

Realty

•IR dryers are capable of drying over 4,000 lb/hr.

Myth

• IR is new and maintenance cost is high

Realty

 More than 100 are running successfully and maintained efficiently

Myth

 Application is limited to PET only

Realty

•Kerone has provided the IR systems for more huge type of applications

Infrared Heating System Vs Conventional Heating System

Infrared Heating System

IR heating systems are fast heating system, results in saving of time.

Instant heating of the material, hence no warm up time.

Environmental friendly and green heating solution, no carbon emission.

100% energy utilization, Heats only desired spot of material.

Better floor utilization index.

No Temperature loss in surrounding, ambient workplace.

Conventional Heating System

Conventional heaters have slow hating rate, heat is transferred via means of air.

Instance heating does not takes place, it requires warm-up of surrounding.

Produces carbon or toxic gases hence not much environmental friendly heating solutions.

100% energy utilization is not possible, as material is heated by surrounding hot air.

Poor floor utilization index.

Surrounding air temperature rises with rise in heater temperature.

Trusted Partner of following consultants...









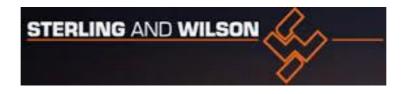




















Our Clients...



WOCKHARDT	ESSAR	MOTORS	SAINT-GOBAIN GLASS	S)	ALSTOM	Jasubhai	<u>GM</u>
AARSSIN A TOURNO	Tabel St.	netics	GAYLORD	LOGICON	WIPRO	Flamingo	Ø.
BANCO PROBABILITY BUTTE	MADEN Memational group	(FIR)	murugappa	Piramal Healthcare	Firmenich	Cipla	
CAIRIN Energy for India	(FE)	LUPIN	Elitar at Patroleum	Reliance	Energy for India	Camlin 🕒	Pidilite
SKT GROWING TOGETHER	IndianOil	NEMACK BANK	− ∳ Dκ.Rxeors	MEDREICH	ESSAR	IFF	69 forment
SARDA	SAF	D L&T Power		HINDALCO	POLICE AMERICA	र्भेंडर	ACG Workshire
moserbaer Technologies	Hirakadan Undan Emilia	Arvind	PAPYROL	Tomac Ingineering Pric 24	Automotive Systems, Inc.	Vertellus	
EUMI	heubach	JINDAL STEEL & POWER	Nestie	₩ SIGNODE	Unitex		

Serving Across Borders...











UNIT I

B/10,Marudhar Industrial Estate, Goddev Fatak road, Bhayander(E), Mumbai-401105

Phone: +91-22-28150612/13/14

UNIT II

Plot No. B-47, Addl. MIDC Anandnagar, Ambernath (East), Dist. Thane- 421506

Phone: +91-251-2620542/43/44/45/46

EMAIL

info@kerone.com | sales@kerone.com | unit2@kerone.com

WEBSITE

www.kerone.com | www.kerone.net | www.keroneindia.com