



MDI DRUM HEATING OVEN

48⁺ Years
Of experience



In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions



WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.



Enhance the value of customer operation through our customer need centric engineering solution.



TRUSTED PARTNERS



MDI Drum Heating Oven

- Auto Digital temperature Controller
- Uniform Surface heating on drum
- Uniform heat transfer rate
- Uniform heating to MDI
- Uniform temperature at every point of Drum
- Reduces Dimer formation by uniform heating effect
- High Rate of lump dissolution due to Drum rotation



ENERGY EFFICIENT



ROBUST DESIGN



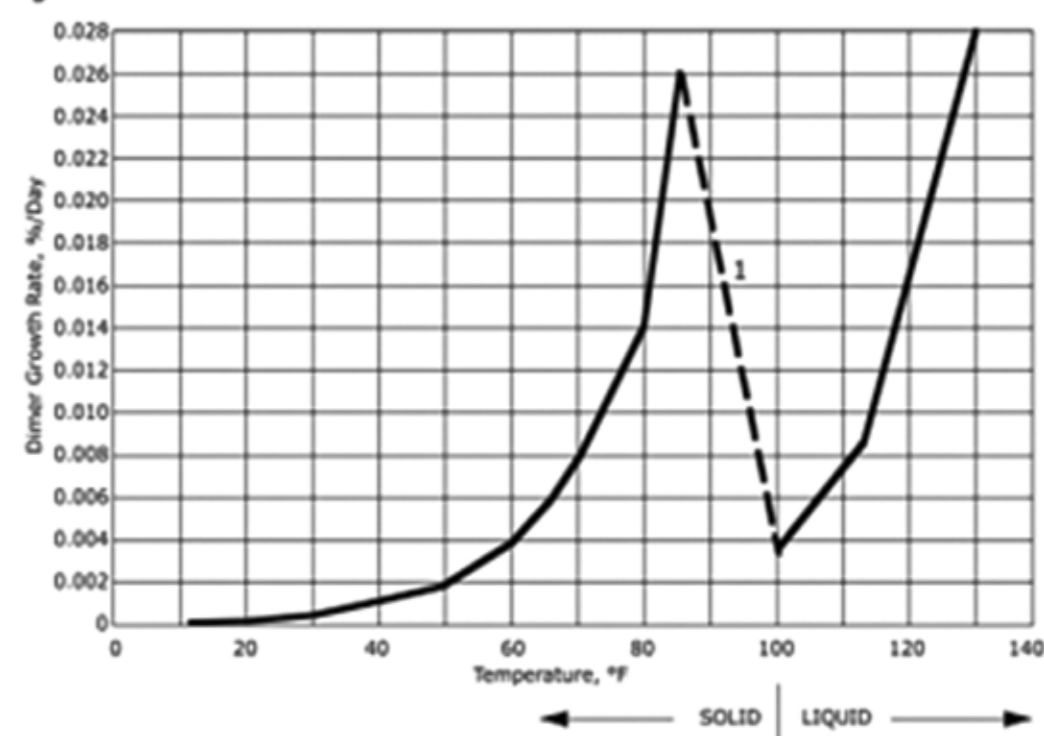
MIN LEAD TIME



ASSURED QUALITY

MDI DRUM ROLLING HEATING SYSTEM

Figure 6: Dimer Growth¹ of ISONATE 125M Pure MDI as a Function of Temperature²



Experience has shown that a frozen drum of polymeric, pure or modified MDI, with a temperature between -4° to 32°F (-20° to 0°C), will usually melt completely (i.e., reach 70°C [158°F] in approximately four to (158°F), five hrs. While several methods for melting frozen or crystal lized MDI have been developed, the method of choice should be one in which dimer formation is minimized. This can best be accomplished by rapid, even heating of the drums while rolling during heating.

The preferred method for heating drums is “drum rolling” (usually at 1-5 rpm on a mechanical drum roller) in 100Deg C Hot Air or Direct Steam Purging.

The principal advantage of this method is that it permits efficient heat transfer – that is, the solid MDI crystals cool the liquefied material so that the contents are not heated much beyond 70°C (158°F), the point at which dimer formation can increase significantly

Technical Specifications

Drum Size

Universal 200kg Drum. 590mmDia X 890mm Ht. Custom size Drum Heater available.

Operating temp (Air)

Up to 150Deg C. High temp optional.

Construction

Robust Steel frame construction with mild steel cladding and insulated with mineral wool from all sides. Internal:-M.S./S.S. External:- M.S./S.S

Drum Rotating Roller

2 Rollers with EPDM rubber lining provided to roll sinvle drum horizontally. Chain Sprocket arrangement provided to rotate rums at steady speed i.e. 1-5 RPM.

Both Direction rotating feature

To Fast and uniform heating rollers rotate in both clockwise and anti clockwise direction in cyclic action.

Gear box assembly

Low RPM high torque Gearbox specially designed to rotate 5-6 drums at a time. Two gear boxes provided with motors provided outside hot box with chain sprocket assembly. Mesh Guard provided on sprocket chain assembly.

Heaters

Electrical/Steam/Hot oil/Hot Water Heater Bank provided with maximum efficiency and robust design. Electrical Heaters Equally distributed in 3 phases with FLP Cold Termination.

Heater Output

60 kW Electrical heaters for 10 drum heating system, Steam Heat exchanger/Hot Oil heaters also available as option.

Hot Air Circulation Blower

Centrifugal Blower provided with motor 1440 rpm, 3000cfm For Re-Circulation of Hot Air.

Exhaust Blower

Exhaust blower provided with Door Inter locking. It helps to prevent hot air from operator after opening doors.

Control

Digital PID temp controller provided 2 nos. with PTR100 Sensors.

Cabling

Internal armored cabling provided from control panel to all Electrical components with cable trays and cover.

Door Limit Switch

Door- System i nterlocking provided insures safe operation during opening of doors.

Weight

6500kgs. Approx

Insulation

Mineral wool insulated.

OUR CLIENTS









THANK YOU

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