

# Infrared Rotary Dryer/Crystallizer

**Standard Capacities:  
100 - 2000 kg/hr**

**Larger capacity systems can be  
custom engineered**

Infrared crystallizer/dryer the main reason for the enormous saving in the time and power is due to infrared acting directly to the core of the granule forcing moisture out to the surface where it evaporates into the cooler ambient air thus eliminating any need for dehumidified air and desiccant beds.

## ADVANTAGE

- Uses up to 60% less energy than conventional drying systems. Fast return on investment
  - Faster start-up and quick changeover results in more production time
    - Crystallizes and dries material in 10 -18 minutes
  - Crystallising and Drying APET, PCR, PLA, RPET, PIR, APET/PE



**臺灣杉毅事業有限公司**  
TAIWAN SANEAST ENTERPRISE, INC.

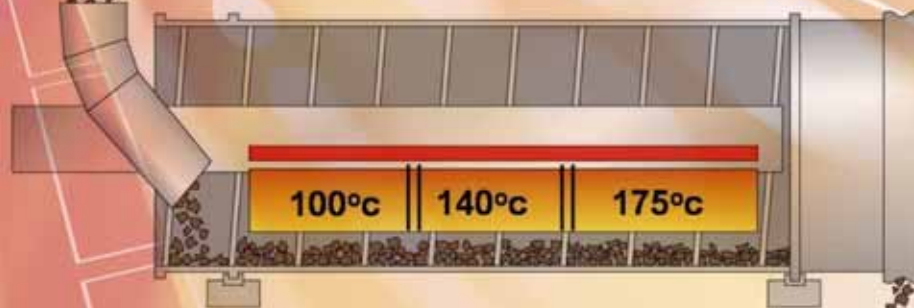
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WET MATERIAL INLET

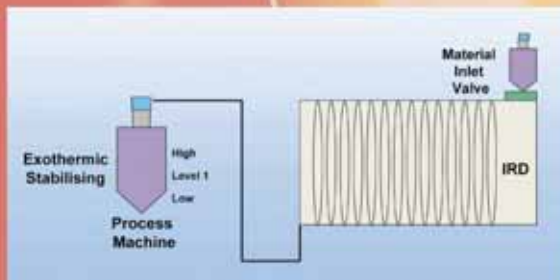
Control of temperature profile through the IRD drum by zoning the infrared module and measuring actual material temperature to give trend plotting facility.



DRY MATERIAL OUTLET

Accuracy  $\pm 2^{\circ}\text{C}$

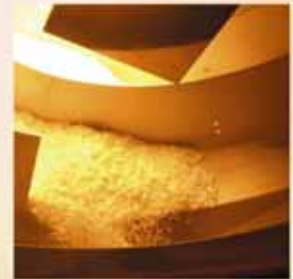
175°C @ 0.003%



SIMPLE INTERFACE OF IRD TO THE PROCESS MACHINE



Infraren Dryer Inside



PET Flake Exit

Model Number	Capacity	L X W X H
IRD-LAB	100kg/hr (Material Bulk Density 0.8g/cm <sup>3</sup> ) 50kg/hr (Material Bulk Density 0.4g/cm <sup>3</sup> )	3 x 1.1 x 2.1 m
IRD-1000	500kg/hr (Material Bulk Density 0.8g/cm <sup>3</sup> ) 250kg/hr (Material Bulk Density 0.4g/cm <sup>3</sup> )	4 x 1.5 x 2.1 m
IRD-2000	1000kg/hr (Material Bulk Density 0.8g/cm <sup>3</sup> ) 500kg/hr (Material Bulk Density 0.4g/cm <sup>3</sup> )	5.2 x 2.1 x 2.1 m
IRD-3000	2000kg/hr (Material Bulk Density 0.8g/cm <sup>3</sup> ) 1000kg/hr (Material Bulk Density 0.4g/cm <sup>3</sup> )	6 x 2.1 x 2.4 m



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