

New Flotation Dryer Provides Greater Versatility and Speed on Silicone Coatings

Responding to customer demand for a more versatile, high-efficiency heating system to process silicone coatings, Radiant Energy Systems has developed a new hot air flotation dryer that can heat and cure 100% solids silicone coatings on various papers and films such as PET, BOPP, LDPE and HDPE. The desired performance specifications also included the ability to handle a variety of coating weights, substrate thicknesses, temperature ranges and other parameters, all in an effort to run at optimum speed.

Radiant's innovative solution is the Model 6104, a 3-zone flotation dryer system engineered to exceed all requirements for speed, efficiency and versatility.

Three independently controlled heating zones allow maximum flexibility.

Zone 1

High heat input for fast initial heating of the silicone coating and substrate up to 165°C.

Zone 2

Additional heating for the heavier products, initiation of the cure.

Zone 3

Maintains product at cure temperature using minimal heat input.



**Electrical and Gas-fired Infrared, Hot Air and Integrated Systems
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Innovative 3-zone design enables RES Model 6104 dryer to heat and cure 100% solids silicone coatings on a wide variety of substrates.

Gas-fired for fast, efficient heat transfer and line speeds up to 1000 fpm.

Heating efficiency also means smaller unit size, greater energy savings, less floor space.

Flexible, precise control of quality and speed.

Non-contact optical pyrometers monitor temperature of the coated web as it exits each zone.

Independently controlled variable frequency drives (VFDs) for each zone assure continuous velocity control.

Separate motorized retractors for each zone.

Provide fast, easy access for threading and maintenance.

"Silicone specific" burner chambers.

Prevent direct contact of recirculated air across burner flame to minimize silicone dusting.

System Dimensions

20 m (66 ft.) long, 1.7 m (68 in.) wide.

RESEARCH

DESIGN

MANUFACTURE

INSTALL

SUPPORT