

PRIME UV IR

Creating a world of possibilities

IR ACTION DRYING SYSTEM

POWERFUL. EFFICIENT. RELIABLE. PRODUCTIVE.

Highest speed drying of Water-Based or Oil-Based Chemistries



Prime's IR ACTION DRYING CHAMBER

Provides maximum drying flexibility for water-based and oil-based chemistries on a wide range of substrate types. Prime's **IR ACTION** drying chamber consists of three independent drying zones: one **IR ACTION** cassette and two Hot Air Knives "**HAK3**" drying zones. These three zones work seamlessly together to form the ultimate drying team that efficiently, and cost effectively, delivers maximum drying at top process speeds. Each **HAK3** zones excels at scrubbing the surface free of moisture. Customized IR energy delivery and **HAK3** air movement work together via Prime's **PREMIER Controller** to deliver uniform drying power over the entire substrate insuring uniform high speed drying from narrow to wide applications at top process speeds while substantially reducing energy requirements.

POWERFUL

RELIABLE

INNOVATIVE

MULTI-MARKET

ENVIRONMENTAL

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PRIME UV  IR
primeuv.com

- Auto-Height Adjust option to accommodate variety of material thicknesses.
- Variable Power Controls on all Heating elements Ranging from 20% to 100% maximum power.
- Drying System includes exhaust blower to remove moisture from Prime IR Action Chamber.
- VFD's provide blower control ranging from 20% to 100% maximum rpm.
- Gold Reflector emitters directing more than 90% of IR output directly to substrate.
- On/off IR section functionality to best match substrate width variations.
- Automatic 1% power output variability to match process speed.
- HAK's air stream thickness adjustable to best suit drying requirements.
- Automatic temperature controls maintain sheet temperature at varying process speeds.
- Circuit breakers protect against short circuits and current overload conditions.
- Inlet Air Filters provided included.
- Universal Voltages 380-480 VAC, 50/60 HZ, 3 phase.
- Electrical Components insure CE, CSA, RoHS, UL compliance.

Prime's IR ACTION CASSETTE

Designed to use Prime's Short-Wave, Fast Medium-Wave or Medium-Wave IR Emitters, Prime's IR Cassette emits IR Energy best matched to absorption spectrum of chemistries being dried to optimize drying efficiencies. Designed with auto-mate feature, Prime's IR Cassette simply slides in and out providing fast and easy access for servicing. Prime's IR Zone insures highest radiation efficiency with minimum convection loss. Prime's IR Zone delivers maximum radiation power in minimal space.

Prime's HAK3 DUAL ZONES

Prime's IR ACTION Drying Chambers include dual HAK3 zones to maximize acceleration of drying process. Each HAK3 zone consists of three Heated Air Knives to match substrate widths. Prime's innovative HAK's geometry guarantees constant hot air stream to expedite drying process and maximize drying speed.

Prime's PREMIER Operator Interface

Prime's visionary PREMIER control technology safeguards your production process via Prime's PREMIER 7" Color HMI, which can be located at press control console. Continuously monitoring and logging critical IR system data, Prime's PREMIER controller automatically alerts users if adverse operating conditions arise. A wealth of information available anywhere via a simple ethernet connection. Prime's PREMIER controller delivers a preemptive strike against any unplanned downtime and insures Prime's IR ACTION operates at it's peak efficiency.

Prime's IR ACTION Power Delivery System

Prime's IR ACTION Dryers match automated controls with most current electrical devices to optimize IR ACTION Dryer's performance and ensure ease of installation and service. Output power controlled via analog signals or fieldbus connections. Soft start control feature gradually raises current until emitter reaches steady state. Emitter connections protected with small, easily manageable power cross-sections. Highest quality solid state relays provide 1% variable power output.



Prime's HAK3 Drying Zone



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