

Despatch

Thermal Processing Technology

TW EAE

HEALTHCARE PRODUCT PORTFOLIO

THERMAL PROCESSING TECHNOLOGY FOR PHARMACEUTICAL AND MEDICAL DEVICE MANUFACTURING



◆ Healthcare

Applications

Implants • Drying • Curing

Parenteral drugs (Human/veterinarian)

• Sterilizing and depyrogenating glassware • Decontaminating materials entering aseptic areas

Ingestible drugs • Granulation drying prior to tablet and capsule manufacturing
• Tablet coating drying and conditioning

Medical devices • Sterilizing medical devices and curing coatings • Curing surgical staples, catheters and medical device coatings

Ophthalmic • Curing optical and contact lens coatings

Optical • Curing of anti-reflective coatings and hardness coatings

◆ For Thermal Processing of Medical Products, Failure is Not an Option

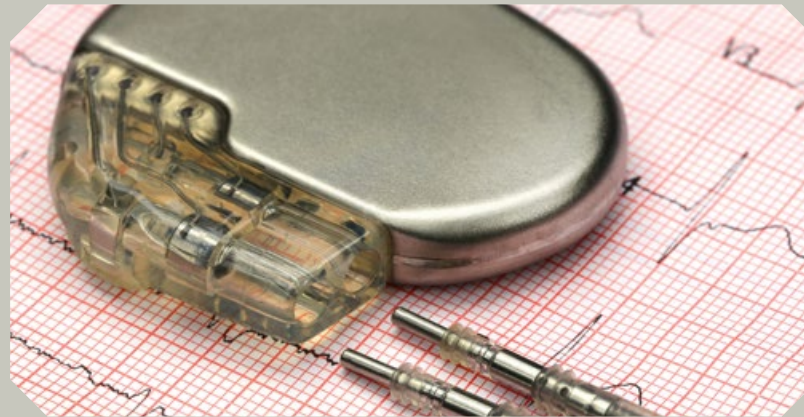
When manufacturing medical products, the stakes could not be higher. Failure to adhere to strict thermal processing steps can have a tremendous impact on people's lives. Manufacturers trust Despatch ovens to

With a large installed base of units in the medical field, Despatch ovens are proven to deliver this invariable, uniform temperature for as long as the oven is in service. For processes where contamination is a concern, Despatch offers ovens with Class 100 HEPA filtration.

Medical Devices For medical instrument manufacturers that need to apply polymer coatings to products such as defibrillators, pacemakers, catheters and surgical staples, a Despatch Industries forced convection oven with its uniform airflow provides a consistent coating and curing process. By using the forced convection oven together with forced exhaust, manufacturers realize quicker cool-down times and shorter process cycles. The result is greater productivity with lower cost.

Optical Forced convection ovens from Despatch Industries provide high air flow and tight temperature uniformity ($\pm 1^\circ\text{C}$) as well as rapid cooling. Together, these key attributes provide consistent coating cures, reduced cycle times, and dramatically improved process yields—by as much as 28%—for manufacturers of contact and optical lenses.

Pharmaceutical Despatch ovens are found in a wide variety of critical applications for the pharmaceutical industry. From R&D to production, Despatch delivers consistent, repeatable performance that adds up to shorter cycle times, higher productivity and lower operating costs. Pharmaceutical compounders use Despatch LCC cleanroom ovens to sterilize and depyrogenate implements, preparations and glassware.





LBB CONVECTION OVEN

The Despatch LBB oven features a combination of horizontal and vertical airflow that offers excellent temperature uniformity at a moderate price. It is recommended for a variety of laboratory and production applications including drying, curing, annealing and materials testing.

The LBB is designed and manufactured to provide years of dependable service. Optional pass-through doors allow seamless integration into a work cell and provide continuous product flow through the process.

LAC HIGH-PERFORMANCE BENCH-TOP OVENS

These ovens use horizontal recirculating airflow to ensure uniform temperatures throughout the oven. A high-volume fan circulates air through perforated, stainless steel walls to create a constant horizontal airflow across all sections of the oven. The result is proven reliability in demanding production and laboratory applications such as curing, drying, sterilizing, aging and other process-critical procedures.

LCC/LCD STACKABLE CLEAN PROCESS OVENS

These clean process ovens are designed to save valuable floor space and provide a variety of standard or tailored options for manufacturers based on their specific needs.

The LCC and LCD ovens are affordable solutions which offer the highest standards in HEPA filtration for production environment processes where minimal contamination is essential. Re-circulated airflow is 100% HEPA filtered for operation at ISO Class 5 (Class 100) and better within the oven chamber. A magnehelic™ gauge monitors the HEPA filter pressure drop, indicating when to replace the filter.

Pharmaceutical compounders use Despatch LCC cleanroom ovens to sterilize and depyrogenate implements, preparations and glassware. These ovens can comply with USP Chapter <797> and cGMP standards. The exterior of the oven is 304 stainless steel, and the interior is type 304-2B stainless steel. All interior seams are continuously welded on the insulation side to protect the work chamber from contamination and the migration of insulation fibers.

LCC/LCD2-14 CLEAN PROCESS

From R&D to clinical trials to small-scale production, these ovens are the perfect solution for sterilization, depyrogenation and drying for life science applications. HEPA filtration maintains ISO Class 5 (Class 100) through the process cycle with ramp rates up to 5°C (9°F) per minute.

In addition to inert atmosphere and air atmosphere configurations, the LCC/LCD2-14 can be configured for Class A environments, with a pressure relief panel, purge timer, and forced exhaust to meet NFPA 86 requirements for processing flammable solvents.

Optional pass-through operation with doors on the front and rear is available.

LNB CABINET OVEN WITH NITROGEN ATMOSPHERE

The Despatch LNB cabinet oven features nitrogen atmosphere with high air flow and tight temperature uniformity ($\pm 1^\circ\text{C}$) as well as rapid cooling. The oven is specifically designed to provide consistent coating cures, reduced cycle times, and dramatically improved process yields for manufacturers of contact and optical lens.

RA/RF SERIES OVENS

The RA/RF reach-in ovens feature horizontal recirculating airflow and exceptional temperature uniformity. The result is proven reliability in demanding production and laboratory applications, such as curing, drying, sterilizing, aging, and other process-critical applications.

For applications that include flammable solvents we offer the RF series. These Class A ovens are specially designed to meet NFPA 86 requirements.

CONTINUOUS OVENS

Despatch Continuous Production Ovens are designed for process versatility and reliability. They achieve superior air temperature uniformity on all interior parts due to high-volume, vertical down airflow. The continuous belt design is ideal for large quantities of similar work pieces being processed. Typical applications include pre-heating, curing, bonding, drying and heat treating. Options include Class A models specifically designed for flammable solvents and a HEPA (High Efficiency Particulate Air) filtered model for applications that require Class 1000 cleanliness. There are several standard models available as well as custom models.

Together in Process Perfection

ITW EAE *Electronic Assembly Equipment*

ITW EAE is the Electronics Assembly Equipment division of Illinois Tool Works, Inc. The group brings together the world-leading brands of electronics assembly equipment. Brands with reputations for driving process perfection. Manufacturers need speed, accuracy and repeatability over time in order to produce reliable products. Every product we make is measured by its ability to deliver on this promise. The combined knowledge and experience of the ITW EAE group is sure to drive further innovation and speed the development of next generation technology.



MPM | Camalot | Electrovert | Vitronics Soltec | Despatch

Despatch Capabilities

Integration: We offer full integration services to ensure seamless operation of your Despatch system – including communication with equipment manufactured by other companies.

ISO Class 5: Despatch batch and continuous ovens are available in ISO Class 5 (Class 100) configurations where an ultra-clean processing environment is required. High-temperature HEPA filters remove airborne particulates to ensure the oven chamber has less than 100 particles (0.5 micron or larger) per cubic foot.

Rapid heat-up and cool-down: Several of our products feature special options that provide exceptionally fast heat-up and cool-down rates, allowing you to benefit from shorter cycle times, higher throughput, and more efficient operations.

Inert atmosphere: For processes requiring low oxygen atmosphere conditions, our batch ovens can also be equipped with inert atmosphere capabilities. Maintaining a nitrogen or argon atmosphere can reduce oxidation when heating materials susceptible to oxidation.

Data Logging and PC Networks: Despatch provides the Protocol 3™ controller with large LCD display, integrated data logging capabilities and USB port for simple oven set-up and data export. Multiple batch ovens can easily be linked together in a communications network for centralized control and monitoring. The host computer can also data-log process times, temperatures, lot numbers, operator names, and other quality control information.

SERVICE AND TECHNICAL SUPPORT

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