

INSPIRED INNOVATION

Despatch
INDUSTRIES

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

Despatch equipment plays a pivotal and multi-faceted role in the healthcare industry. Our world-renowned depyrogenation tunnels sterilize vials used for liquid pharmaceuticals. The products we touch in the healthcare industry often have a tremendous impact on people's lives. In addition to pharmaceutical vials, our equipment cures and sterilizes contact lenses and many different life-saving medical and surgical devices. Healthcare companies turn to Despatch when only the highest standards of quality equipment will suffice.

With a large installed base of units in the medical field, the performance of Despatch equipment typically exceeds process requirements for even the most exacting customer needs. Despatch understands the many possible customer applications and can offer custom designed equipment to meet even the most challenging processes.

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 lens.

Pharmaceutical Despatch Industries thermal processing solutions 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 solutions feature durable 316L stainless steel interiors for maximum corrosion resistance, rounded interior corners for easier cleaning, and complete validation support documentation to comply with 21 CFR Part 11 requirements of the FDA. Pharmaceutical compounders use Despatch LCC cleanroom ovens to sterilize and depyrogenate implements, preparations and glassware. The ovens can be stacked allowing independent batch processing in a small lab. These ovens can comply with USP Chapter <797> and cGMP standards.





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. The fan and heater are top-mounted to prevent damage from spills. When spills do occur, the corrosion-resistant stainless steel interior and nickel plated shelves clean up easily.

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.

Capabilities

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

Validation: At Despatch, we offer thorough validation packages that can help minimize the time and effort required for validation and start-up. We also offer assistance in executing IQ, OQ, and PQ protocols.

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 are also equipped with inert atmosphere capabilities. Maintaining a nitrogen or argon atmosphere can reduce oxidation when heating materials susceptible to oxidation.

PC Networks: Multiple batch ovens can easily be linked together in a communications network for centralized control and monitoring. A password security system improves process integrity by setting the amount of operating authority available to the operator. The host computer can also data-log process times, temperatures, lot numbers, operator names, and other quality control information.

Customized solutions

If you have a unique application, Despatch engineers can address your custom requirements for heat-up times, cool down times, temperature uniformity, instrumentation, record keeping, space requirements, and other special concerns.

Despatch partners with customers to deliver complex thermal processing solutions. Our Innovation Resource clients enjoy direct access to highly skilled Despatch engineers for process and product development and evaluation. Customers are provided cost-effective solutions up front—before equipment design begins or purchase commitments are made. This proven approach significantly reduces purchase risk, speeds production, ensures process integrity and saves time and money.

- Innovative designs
- Proven experience
- Superior project execution
- World-class quality



SERVICE AND TECHNICAL SUPPORT

service parts: 1-800-473-7373

international service/main: 1-952-469-8230

service fax: 1-952-469-8193

service@despatch.com

parts@despatch.com

GLOBAL HEADQUARTERS

main phone: 1-800-762-0110

international/main: 1-952-469-5424

sales: 1-800-762-0550

international/sales: 1-952-469-8240

sales@despatch.com

www.despatch.com

8860 207th Street West
Minneapolis, MN 55044 USA

Despatch
INDUSTRIES

© 2016 Despatch Industries. All rights reserved.
Despatch is a registered trademark of Despatch Industries in the U.S. and other countries.

6-16 HEALTHCARE