



International Thermal Systems Battery Division



**Dedicated to the
Lead Acid Battery
Manufacturing Industry**

Partner with ITS for your drying, curing, degreasing and other battery equipment needs. Contact a representative today to arrange for an onsite consultation. Learn how we can maximize production efficiencies and minimize energy consumption.



FlashMaid™ Self Cleaning Plate Dryer Minimizes Free Lead in the Air. Here's how:

Cleaning a plate drying oven normally involves shutting the system down and scraping and/or vacuuming out accumulated lead oxide dust. Not just time consuming but loss inducing as the production line is stopped.

The ITS FlashMaid™ minimizes *free lead in the air* by automatically removing dust from lower ductwork and deposits into a removable tray.

FlashMaid™ Self Cleaning Plate Dryer is the Best Energy Saver. Here's why:

The ITS's expert engineering and R&D departments have designed and tested the ducting and airflow of the FlashMaid™ drying system such that burner size can be reduced – from 1,200,000BTUs (351kW) to 1,000,000 BTUs (293kW). The internal belt return maintains consistent belt temperature to also save energy.

Standard Model #	Oven Temperature 250° to 900° (121° to 482°C)	NFPA Compliant Exhaust	PLC Control Options	Variable Conveyor Widths	Universal World Voltages
M18 Automotive	√	√	√	12" to 16" (304mm to 406mm)	√
M22 Automotive	√	√	√	12" to 16" (304mm to 406mm)	√
M250 Automotive	√	√	√	12" to 16" (304mm to 406mm)	√
M22 Industrial	√	√	√	24" to 30" (609mm to 762mm)	√



HydroCure™ Reduces Curing Time

Curing is the bottleneck process in lead acid battery fabrication process. Some manufacturer's protocols take up to 100 hours. ITS has improved the flow of air inside the curing chambers to cut curing/drying times.

- Optional powered exhaust
- Proprietary duct design
- Durable lightweight synthetic door
- PLC control with Ethernet communication
- Numerous heat source configurations available
- Heavy industrial construction

Laboratory HydroCure™ Available

The new laboratory HydroCure™ is available in a 2'x2'x2' (610mm x 610mm x 610mm) chamber size.

If you are looking to fine tune your curing and drying process or create a new profile for a new product, this chamber is for you. This chamber offers all of the features of our larger chambers so you can be confident that when you create a profile it will migrate seamlessly to the plant floor. PLC controlled with an easy to use operator interface. Create and load up to 20 custom profiles; data acquisition via a USB card and real time trending to the operator interface screen.

Worldwide voltages available.

Trim Thermal Degreaser Eliminates the Need for Costly Aqueous Washers.

The Expanded Metal Trim Thermal Degreaser is designed to evaporate cutting oils from the excess trim generated during the battery grid expanding process.



Why the Battery Manufacturing Industry

Selected ITS as Their Partners

Partnership Philosophy: ITS approaches each project like a partnership.

Technical Engineering: Drawing from decades of experience in various thermal applications, ITS engineering expertise and technical knowledge is unparalleled. Utilizing the best tools for the job, from the latest in engineering software packages to the most advanced control systems to actual field operations results, ITS engineering staff can design and manufacture the best solution for the thermal processing application.



Research & Development Department and Testing Laboratory

International Thermal Systems is unmatched with a full time R&D laboratory directed by a US Patent holder with a Ph.D. in Thermal Science. Complete heat process tests are conducted in our R&D Laboratory to prove and confirm the process parameters prior to engineering/manufacturing. Proprietary heat transfer computer software and commercial CFD software are used to simulate the heating process with proven accuracy. The benefit to the customer is the confirmation of the exact process parameters prior to the engi-

ITS Aftermarket Parts and Services Department

Parts

- OEM parts
- Spare parts
- Repair parts
- Retrofit parts
- Emergency repair parts

Factory Trained Technicians available for:

- Field installations
- Equipment relocation
- Equipment retrofit and repairs
- Commissioning/Debug/Startup
- Equipment trouble shooting



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