

FlashMaid™ Self-Cleaning Plate Dryer



Technical Bulletin

Minimizes Free Lead in Air!

Automatically removes particles from lower ductwork and deposits in removable tray



FlashMaid™ Self-Cleaning Plate Dryers

Standard Features of FlashMaid™ Self-Cleaning Plate Dryers

- Only self-cleaning plate dryer in the market
- Minimizes free lead in air
- Designed to interface with all manufacturers pasters
- Return belt inside oven
- Vented end stands with bag house connection on both ends
- NFPA compliant
- Heavy industrial construction
- Heater box with removable roof section
- ½" x ½" true High Carbon steel flat wire mesh belt conveyor
- Prewired Nema-12 control panel
- Optional: PLC control with Ethernet, CE certification, Stainless steel belts

International Thermal Systems is the leader in manufacturing flash plate dryers. Designed to interface with all manufacturers pasters, The FlashMaid™ Self-Cleaning Plate Dryer is the only flash plate dryer on the market which automatically cleans lead dust from the inside of the oven. This feature means: less free lead in the air, less down time for maintenance, enhanced temperature uniformity on the parts and less wasted energy through heat absorption and restricted air flow because of trapped dust inside the dryer ductwork.

International Thermal Systems plate dryers are recognized in the battery industry as the leader in reliability and innovative design. ITS's equipment have proven their robust design and durability and are backed by a 12 month warranty.

International Thermal Systems offers four (4) standard models, manufactured at any of our worldwide plants. ITS has a solution for your specific application.

Model 18
Designed for low automotive plate applications

- Standard Features (above)
- Provides up to 18 feet of heated length
- Unit fits in a standard 20' sea container
- Optional belt widths from 12" to 16"

Model 22 Automotive
Designed for medium to large volume automotive plate applications

- Standard Features (above)
- Provides up to 22 feet of heated length
- Unit fits in a standard 40' sea container
- Optional belt widths from 12" to 16"

Model 250 Automotive
Designed for large volume automotive plate applications

- Standard Features (above)
- Provides up to 31 feet of heated length
- Unit fits in a standard 40' sea container
- Optional belt widths from 12" to 16"

Model 22 Industrial
Designed for Industrial plate Applications

- Standard Features (above)
- Provides up to 22 feet of heated length
- Unit fits in a standard 40' sea container
- Optional belt widths from 24" to 30"

FlashMaid™ Self-Cleaning Plate Dryer



Specification	Model 18	Model 22 Automotive	Model 250 Automotive	Model 22 Industrial
Conveyor Speed	60' (18.28M) to 200' (60.96M)	60' (18.28M) to 200' (60.96M)	60' (18.28M) to 200' (60.96M)	60' (18.28M) to 200' (60.96M)
Conveyor	12"(304.8mm) - 16" (406.4mm)wide by 1/2" (12.7mm) by 1/2" (12.7mm)Hi-Carbon steel flat wire mesh belt conveyor End stands feature a vent connection for lead dust removal	12"(304.8mm) - 16" (406.4mm)wide by 1/2" (12.7mm) by 1/2" (12.7mm)Hi-Carbon steel flat wire mesh belt conveyor End stands feature a vent connection for lead dust removal	12"(304.8mm) - 16" (406.4mm)wide by 1/2" (12.7mm) by 1/2" (12.7mm) Hi-Carbon steel flat wire mesh belt conveyor End stands feature a vent connection for lead dust removal	24"(609.6mm) - 30" (762mm)wide by 1/2" (12.7mm) by 1/2" (12.7mm) Hi-Carbon steel flat wire mesh belt conveyor End stands feature a vent connection for lead dust removal
Motors	Recirculation blower, combustion blower, conveyor drive, exhaust blower	Recirculation blower, combustion blower, conveyor drive, exhaust blower	Recirculation blower, combustion blower, conveyor drive, exhaust blower	Recirculation blower, combustion blower, conveyor drive, exhaust blower
Heating Equipment	Electric heater plug with SCR control or Natural gas - gross heat in put of 25,000 to 1,000,000 BTU/hr. with modulating gas control	Electric heater plug with SCR control or Natural gas - gross heat in put of 25,000 to 1,000,000 BTU/hr. with modulating gas control	Electric heater plug with SCR control or Natural gas - gross heat in put of 25,000 to 1,000,000 BTU/hr with modulating gas control	Electric heater plug with SCR control or Natural gas - gross heat in put of 25,000 to 1,000,000 BTU/hr with modulating gas control
Electrical Service	220 - 600 volts, 3 phase, 50-60 Hz	220 - 600 volts, 3 phase, 50-60 Hz	220 - 600 volts, 3 phase, 50-60 Hz	220 - 600 volts, 3 phase, 50-60 Hz
Gas Utility Requirements	Natural Gas: 1,000 SCFH @ 1-5 PSI/1,000 BTU/CU FT Propane Gas: 400 SCFH @ 1-5 PSI/2,500 BTU/CU FT	Natural Gas: 1,000 SCFH @ 1-5 PSI/1,000 BTU/CU FT Propane Gas: 400 SCFH @ 1-5 PSI/2,500 BTU/CU FT	Natural Gas: 1,000 SCFH @ 1-5 PSI/1,000 BTU/CU FT Propane Gas: 400 SCFH @ 1-5 PSI/2,500 BTU/CU FT	Natural Gas: 1,000 SCFH @ 1-5 PSI/1,000 BTU/CU FT Propane Gas: 400 SCFH @ 1-5 PSI/2,500 BTU/CU FT
Norm Operating Temp	650°F (343.33°C)	650°F (343.33°C)	650°F (343.33°C)	650°F (343.33°C)
Load Height	36" (914.4mm)	36" (914.4mm)	36" (914.4mm)	36" (914.4mm)
Oven Construction	Oven walls, floor and roof fabricated with low conductivity tongue and groove panel assemblies Panels constructed of aluminized steel Semi-rigid batt type insulation Removable roof section in heater box	Oven walls, floor and roof fabricated with low conductivity tongue and groove panel assemblies Panels constructed of aluminized steel Semi-rigid batt type insulation Removable roof section in heater box	Oven walls, floor and roof fabricated with low conductivity tongue and groove panel assemblies Panels constructed of aluminized steel Semi-rigid batt type insulation Removable roof section in heater box	Oven walls, floor and roof fabricated with low conductivity tongue and groove panel assemblies Panels constructed of aluminized steel Semi-rigid batt type insulation Removable roof section in heater box
Oven Doors	Three (3) access doors on each side of oven	Three (3) access doors on each side of oven	Four (4) access doors on each side of oven	Three (3) access doors on each side of oven

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