

HydroCure™ Chamber



Technical Bulletin



HydroCure™ Chamber

Standard Features of HydroCure™ Combination Humidity/Drying Chambers

- Heavy industrial construction
- Optimum airflow, recirculation and exhaust systems
- Durable synthetic door—standard and high temp options available
- Humidity atomizers
- Instruments and controls mounted in a prewired NEMA 12 control panel
- NFPA Compliant
- Optional: PLC with Ethernet, steam header with control, steam boiler, CE certification, powered exhaust, automatic door control

International Thermal Systems is the leader in manufacturing of Combination Humidity/Drying Chambers. With over forty years of experience and expertise in the battery industry, ITS offers innovative design in battery production equipment to maximize production efficiencies and minimize energy consumption.

The HydroCure™ Combination Humidity/Drying Chamber enhances optimum production volume while decreasing excessive curing time. Together with ITS's supply duct nozzle design, optimum pallet configuration and adjustable profile return duct, the most efficient plate curing times can be achieved.

Often copied-never duplicated, International Thermal Systems HydroCure™ Combination Humidity/Drying Chambers are recognized in the battery industry as the leader in reliability, innovative and intuitive operator friendly design. With 1000's of HydroCure™ Combination Humidity/Drying Chambers operational in the field today, ITS equipment construction designs have proven their robust design, durability and are backed by a 12 month warranty.

Model-Five (5) Pallet

Chamber designed to accommodate five (5) pallets (39½"W x 39½"D x 29½"H)

Fits in standard 20' sea container

Model-Ten (10) Pallet

Chamber designed to accommodate ten (10) pallets (39½"W x 39½"D x 29½"H)

Fits in standard 20' open top sea container

Model Custom

Chamber designed to customer specifications

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Specification	Five (5) Pallet	Ten (10) Pallet	Custom
Load Capacity	Chamber designed to accommodate five (5) pallets	Chamber designed to accommodate ten (10) pallets	Chamber designed to customer specifications
Humidity Range	60% - 98% RH	60% - 98% RH	60% - 98% RH
Temperature range	100°F (37.78°C) to 200°F (93.3°C)	100°F (37.78°C) to 200°F (93.3°C)	100°F (37.78°C) to 200°F (93.3°C)
Optional Steam	Available	Available	Available
Motors	Recirculation, Vertical Lift Door, Optional Exhaust	Recirculation, Vertical Lift Door, Optional Exhaust	To be determined after review of customer specifications
Heating Equipment	Electrically heated: heater plug with SCR control Natural gas: indirect fire burner with a modulating gas control	Electrically heated: heater plug with SCR control Natural gas: indirect fire burner with a modulating gas control	To be determined after review of customer specifications
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
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	To be determined after review of customer specifications
Oven Construction	Oven walls and roof will consist of low conductivity panel construction Fabricated with 304 stainless steel interior and exterior	Oven walls and roof will consist of low conductivity panel construction Fabricated with 304 stainless steel interior and exterior	To be determined after review of customer specifications
Door	Electrically operated, motor driven high speed fabric rollup assembly Push button open and close	Electrically operated, motor driven high speed fabric rollup assembly Push button open and close	Electrically operated, motor driven high speed fabric rollup assembly Push button open and close

Equipment is constructed in any of our worldwide manufacturing facilities.

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