

HydraTherm[™] Cooking System "200 Years Formed In Steel"

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The HydraTherm[™] Cooking System

The HydraTherm is a continuous full absorption rice and grain cooking system that uses only the water and steam necessary to achieve the desired hydration level, making this technology a significant advancement in sustainable processing.

Applications

Washing, Conveying, Soaking, Cooking, Metering and Cooling

Continuous cooking of rice, grain and pasta varieties: arborio, Japanese sticky rice, jasmine, basmati, calrose, wild rice, brown rice, quinoa, tabouli, couscous, pastas of varying geometries - orzo, penne, rotini, farfalle, spaghetti, fettuccini, etc.

Continuous cooking of prepared rice dishes such as risotto, biryani, pilau, pilaf, paella, Spanish rice, gallo pinto, etc.

Highlights

- Complete system integration can include bulk rice transfer, washing, soaking, ingredient metering and product cooling.
- Complete PLC automation and integration so that single operator can manage the entire system.
- Full absorption cooking eliminates starch laden effluent (water waste) from excess water cooking, thereby increasing yield and decreasing operating costs.
- Engineered to consume steam and hot water ONLY as needed to meet the specified hydration level - in line with green/sustainable manufacturing practices.
- Continuous addition of liquid and solid ingredients without dilution.
- Full absorption cooking is the only way to prepare authentic Japanese sticky rice for sushi and bento meal products.
- 26 year of proven engineering and manufacturing for maximum life with minimal maintenance and spare parts requirements.
- Designed for easy cleaning; meets and exceeds current 'Good Sanitary Design' quidelines.
- PLC platform choices with multi-recipe and Ethernet capability.
- Voltage and component choices to meet global energy standards.
- Services available for complete system integration.





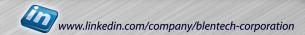








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Key Components

Uniformity: Steam diffusers, zoned hydration water nozzles and intermeshing agitators are designed for even distribution of moisture and energy throughout the product.

Precise Temperature Control: Multi-zone temperature sensor(s) and modulating valves allow precise thermal control to apply energy and moisture appropriately in each section of the cooker at the appropriate times during the product-specific cooking cycle.

Thermal Cycling: Blentech has engineered a proprietary thermal expansion system that allows the cooker to move free of restriction during thermal expansion and contraction.

Production Rate Flexibility: Variable in-feed rate and residence time allow flexible production rates within design constraints.

Easy Cleaning: Pneumatic agitator-lift feature allows for quick, easy and thorough cleaning beneath the agitator flights, increasing efficiency of cleaning and sanitation cycles.



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|-----------|--------|--------------------------------|------------------------------------|
| | Model | Throughpu (lbs/hr) 22min | it Throughput (kgs/hr) 22min |
| | HT-090 | 8 253 | 114 |
| | HT-140 | 6 60 | 299 |
| / | HT-141 | 825 | 374 |
| | HT-141 | 4 1155 | 524 |
| | HT-181 | 2 1650 | 748 |
| | HT-181 | 6 2200 | 998 |
| | HT-181 | 8 2475 | 1123 |
| | HT-241 | 2 3112 | 1412 |
| | HT-241 | 6 4150 | 1882 |
| E, | HT-241 | 8 4670 | 2118 |
| IR GLIARD | HT-242 | 5185 | 2352 |
| | | | |

Standard Features: Standard Features: raw material hopper, horizontal feed conveyor with PLC speed control, twin intermeshing variable speed specially engineered agitators, solenoid steam valve(s) with multi-zone steam control, hot water spray system, top cover with steam-lock water seal to keep steam inside cooker during cooking, multiple recipe PLC control system, interlocked safety grate(s), corrosion resistant bearings, T-304 stainless steel construction with glass bead satin finish exterior, #4 oscillation on product contact surfaces.

Options: Options: Blentech offers over 20 different options to customize HydraTherm systems to meet customer process requirements with solutions designed to satisfy special process needs.





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