

The Perfect Temperature. Every Time.

hydro
THERMAL


HYDRON™ Sanitary Hydroheater

△ sanitary direct steam injection
heating solution with integrated
shear & mixing capabilities



When shear or process flexibility is critical in a sanitary system, the Hydron™ Sanitary Hydroheater is your food-grade processing solution.

HYDRON

Featuring on-the-fly adjustability for your process conditions, the Hydron™ Sanitary Hydroheater is your solution to guaranteed clean-in-place (CIP) results. Utilizing  design and controls for both your mixing and shear applications, the Hydron is what you need for a sanitary process.

BENEFITS



Reduce energy costs through operational efficiency



Adjustable shear & mixing controls



Certified sanitary design



Precise temperature control



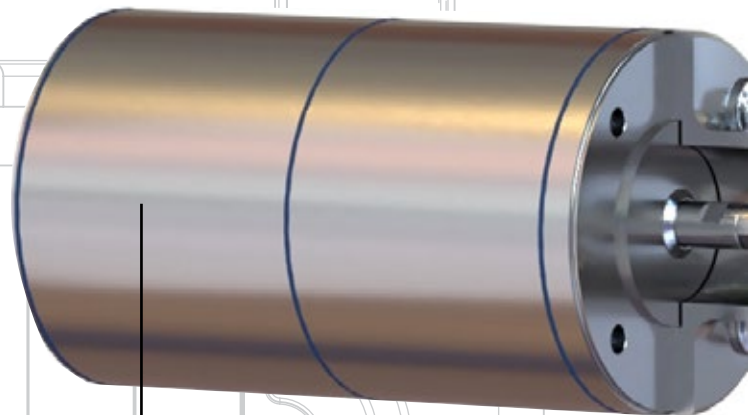
Scalable design & components

PERFORMANCE GUARANTEE




Confidence
100% performance guarantee give you peace of mind that our products will perform as specified by YOUR application.


The Hydron™ Sanitary Hydroheater is the optimal heating technology for your sanitary environment. It is the only clean-in-place (CIP) solution available using direct steam injection technology.



Hydro-Thermal's HLA (Hydrive Linear Actuator) for precise temperature control

PROCESS FLEXIBILITY TO THE HIGHEST DEGREE

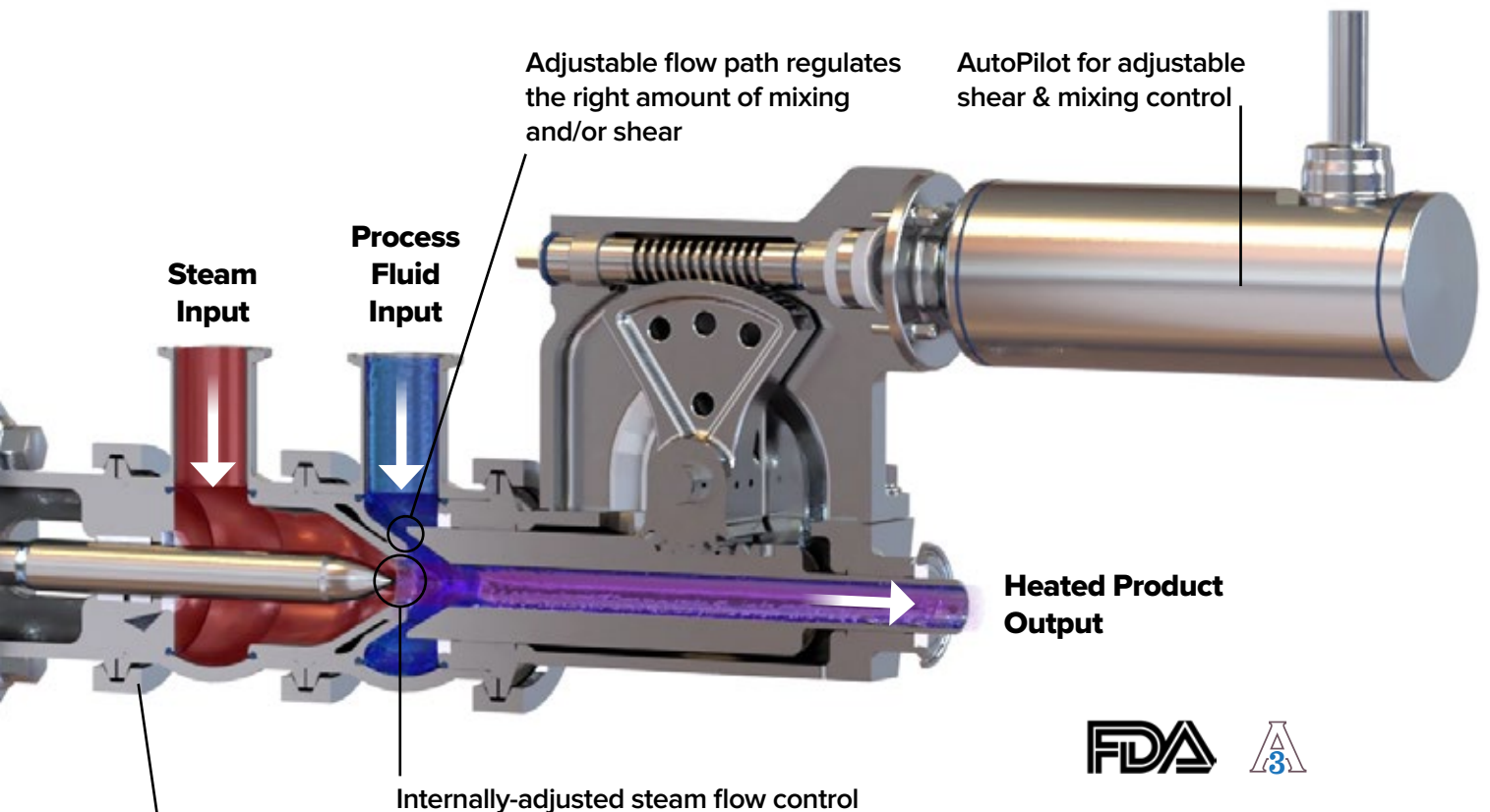
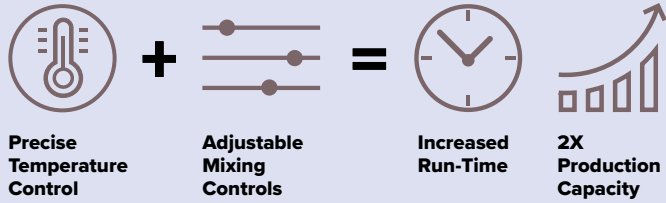
Precise heating and temperature control are essential characteristics in crafting a quality product. Having sanitary practices in place is mission critical to your brand and your brand experience. The Hydron is a revolutionary, direct steam injection solution with  certification that keeps your processes clean and sanitary.

The Hydron™ Sanitary Hydroheater’s advanced direct steam technology utilizes precise temperature control and an adjustable flow path to optimize your mixing and/or shear control. With  sanitary design standards for CIP (Clean-in-Place) capabilities, this proven technology is built for food-grade processing and stable performance.

FEATURES

- **Operating stability** across a full range of process conditions
- **Precise temperature control** within +/- 1 degree
- **Scalable design** to allow for future adjustments
- **Self-cleaning design** eliminates scale build-up and product fouling
- **Automatic & Manual** capabilities to help optimize process conditions

CREAM CORN MADE EASY



Easy to clean design disassembles to keep sanitary processes front of mind

HYDRON

SPECIFICATIONS

Sanitary Hydroheater



Applications

Baby Formula
 Dairy Products
 Whey Permeate
 Ingredient Water
 Inline Cooking
(Meat Slurries, Soup-Base)
 Product/Ingredient Sterilization
 Starch Cooking
(Gravy, Cream Corn)
 Adjunct Mashers
(Corn, Rice, Unmalted Barley, etc.)
 Standard Brewers Malt Mashers
(Up to 25% dry solids)

Industries Served

Food Processing
 Dairy
 Pet Food
 Fermentation
 Brewing
 Cosmetics
 Pharmaceuticals

Technical Information

Actuation
 Pneumatic steam control actuator with fail close
 Electric drive for shear/stability control
 Manual Combining Tube Adjustment option included and upgradeable

Connection Types

ASME BPE Tri-Clamp
 DIN11853-1
 DIN32676-A
 Other custom sanitary connections available

Pressure & Temperature

195 psig @ 400°F
 13.4 Barg @ 204°C

Sizing & Process Parameters

	A410	A415	A420	A425	A430	A440
Steam Inlet (in. / mm.)	1.0 / 25	1.5 / 40	2.0 / 50	2.5 / 65	3.0 / 80	4.0 / 100
Process Inlet (in. / mm.)	1.0 / 25	1.5 / 40	1.5 / 40	2.5 / 65	2.5 / 65	4.0 / 100
Outlet (in. / mm.)	1.0 / 25	1.5 / 40	1.5 / 40	2.5 / 65	2.5 / 65	4.0 / 100
Min. Flow (GPM / m ³ /hr)	1.0 / 0.2	9.0 / 2.0	30.0 / 6.8	40.0 / 9.1	60.0 / 13.6	90.0 / 20.4
Max. Flow (GPM / m ³ /hr)	27.0 / 6.1	60.0 / 13.6	60.0 / 13.6	200.0 / 45.4	200.0 / 45.4	460.0 / 104.5
Weight (lbs. / kg)	60 / 27	69 / 31	69 / 31	96 / 44	96 / 44	130 / 59

THE GLOBAL REACH OF HYDRO THERMAL

From the original Hydroheater® developed in 1934 to our latest designed and engineered solutions today, we harness the power of steam. We design, engineer, and deliver ultra-precise and dependable heating solutions that optimize temperature control, increase energy efficiency, and minimize maintenance requirements.

With more than **20,000 installations in 90+ countries** – all backed by our 100% performance guarantee – we help you achieve **The Perfect Temperature. Every Time.**

Need more information about Hydro-Thermal products?

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The Perfect Temperature. Every time.

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