



Featuring an extremely flexible heating capacity, the NOH Non-Obstructing Heater™ can precisely heat any fluid. Utilizing a robust design and unrestricted flow path, the NOH Non-Obstructing Heater™ is suited to solve any processing issues.

BENEFITS



Reduce energy costs through enhanced process conditions



Precise temperature control helps you reach – and hold – your desired set point



Reduced Downtime/Maintenance

eliminates clogging of solids, saving you maintenance and downtime



Small footprint and compact design saves space and eliminates costly retrofit work



Patented Technology provides unmatched process performance

PERFORMANCE GUARANTEE



Confidence

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



STEAM HEAT IN A POWERFUL PACKAGE

Powerful, rugged, and versatile – the NOH Non-Obstructing Heater™ can handle any abrasive fluid or slurry. Across **Food & Beverage, Industrial**, and **Wastewater** applications, the NOH Non-Obstructing Heater™ can improve even the most corrosive process.

Both cavitation and erosion are no longer issues, as the patented internals of the NOH Non-Obstructing Heater™ ensure perfect processing conditions.

Stable across a range of process conditions, the NOH Non-Obstructing Heater™ utilizes precise temperature control, a large heating capacity, and flexibility to cover a wide range of viscous slurries, including large solids and particulates.

FEATURES

- Operating stability across a full range of process conditions
- Precise temperature control within
 +/- 1 degree
- Self-cleaning design eliminates scale build-up and product fouling
- Durable materials of construction designed to last
- Multiple heater sizes to meet your process needs
- Flow-through design creates minimal pressure drop

Servo Motor actuator utilizes tight actuation control for explosion and non-explosion proof processes. Large heating capacity Robust 300#_ stainless steel cast construction designed to withstand the most severe applications **Process Fluid** Input Unrestricted flow path prevents clogging or fouling of product

Patented Diffuser Technology for high velocity steam injection

Heated Product Output





Sludge Heating Black/Green/White Liquor Rendering Plants & Facilities Paper Stock Heating Aseptic Applications (Tomato Paste) General Water Heating



Paper & Pulp Wastewater (Municipal, Industrial, Agricultural [RNG]) Food & Beverage Processing Meat & Poultry Processing



Controls

NOH can be locally controlled from the panel or from DCS. For Distributed Control System (DCS), either Ethernet IP, Modbus TCP, or limited analog and digital must be utilized.

Digital Inputs

Flow enable (flow switch)

Digital Outputs Alarms to DCS

Flow Turndown

15:1 turndown ratio

Analog Inputs

Temperature discharge (TC / RTD) Spare (4-20mA)

> **Analog Outputs** Two spare (4-20mA)

I/O Options Larger panel size & additional analog inputs/

> outputs available as needed

Technical Information

Pressure & Temperature

Max pressure - 300 PSIG / 20.7 Barg Max temperature - 450°F / 232°C

Product Inlet / Outlet & Steam Flange

300# raised face flanges designed (per ANSI B16.5) with lugged connections

Sizing & Process Parameters 2"-12" / DN50-DN300	ı	NOH02		NOH04		NOH08		NOH12	
Steam Inlet (in./mm)	3.0	76.2	6.0	152.4	8.0	203.2	12.0	304.8	
Steam Drain (in./mm)	0.5	12.7	1.0	25.4	1.0	25.4	1.0	25.4	
Estimated OAL Length (in./mm)	12.0	304.8	19.0	482.6	24.0	609.6	33.5	850.9	
Estimated CL to Steam Flange (in./mm)	5.0	127.0	6.5	165.1	8.0	203.2	11.66	296.2	
Min. Flow (GPM / m³/hr)	30.0	6.8	110.0	25.0	455.0	103.4	1,035.0	235.1	
Max. Flow (GPM / m³/hr)	175.0	39.7	735.0	167.0	3,053.0	693.4	6,900.0	1,567.2	
Estimated Weight (lbs./kg)	220	100	450	204	950	431	1,900	862	

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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