



# Model NH-4 Fluid Heater

*High-pressure fluid heater  
for improved painting  
efficiency and quality.*

Nordson heated airless and air spray systems utilize the single-passage Nordson model NH-4 fluid heater to reduce the viscosity of coating materials and increase operating efficiency — without adding solvents. The NH-4 heater is also available in twin passage models for high-viscosity coatings, high-flow applications, or stainless-steel models for corrosive materials. It can be wall mounted or dolly mounted using the integral mounting bracket.

## Benefits of Heated Coatings

- Increased film build per pass for improved part coverage.
- Improved finish quality by minimizing blushing, orange peel, pinholing and dry spray.
- Reduced VOC emissions due to lower solvent usage.
- Reduced component wear and maintenance costs due to lower operating air and fluid pressures.

## NH-4 Heater

The NH-4 heater is an electrically operated, explosion-proof, high-pressure fluid heater. It consists of an electrical enclosure and a high-pressure fluid passage body. External electrical contactors are not necessary with the NH-4 heater. A cartridge heater and adjustable thermostat provide accurate fluid temperature control, and a high-temperature limiter ensures maximum operating safety.

## Twin Passage Model

Designed for high-flow applications, high-solids coatings and other high-viscosity materials, the twin passage model combines the high-efficiency heating of the standard NH-4 heater with the low-pressure loss of a single wide-passage heater.



## Features and Benefits

- **Simple design** — adjustable thermostat makes temperature setting simple and a read-out thermometer provides constant monitoring of fluid temperature.
- **Increased capacity** — multiple heaters can be installed in series or parallel configuration for increased heating/flow capacity.
- **Minimum pressure loss** — twin passage NH-4 heater minimizes pressure loss in high-flow/high-viscosity applications.
- **Safe operation** — NH-4 heater is explosion-proof and includes a high-temperature limiter for maximum operating safety. No external contactors are required.
- **Easy field repair** — cartridge heater, adjustable thermostat and high-temperature limiter can be replaced in minutes without special tools.
- **Uniform, efficient heating** — high-fluid velocity and the low-watt density of the heat transfer surface provide consistent, efficient heating.
- **Corrosion resistance** — stainless-steel NH-4 heaters are available for corrosive or sanitary applications.
- **Safety agency approvals** — FM, CSA, SEV, RIIS, BASEEFA, ATEX/CE.

# Model NH-4 Fluid Heater

## Specifications

		Models		
		Standard	Twin Passage	Stainless Steel
<b>Height</b>	Metric	432 mm	432 mm	432 mm
	USA	17"	17"	17"
<b>Width</b>	Metric	175 mm	175 mm	175 mm
	USA	6.88"	6.88"	6.88"
<b>Depth</b>	Metric	232 mm	232 mm	232 mm
	USA	9.13"	9.13"	9.13"
<b>Temperature Range</b>	Metric	18° – 83°C	18° – 83°C	18° – 83°C
	USA	65° – 190°F	65° – 190°F	65° – 190°F
<b>Approximate Heating Capacity</b> (Typical Solventborne Materials)				
	Metric	45 Liters/Hr. @ 56°C Δ T	45 Liters/Hr. @ 56°C Δ T	45 Liters/Hr. @ 56°C Δ T
	USA	12 Gallons/Hr. @ 100°F Δ T	12 Gallons/Hr. @ 100°F Δ T	12 Gallons/Hr. @ 100°F Δ T
<b>Approximate Heating Capacity</b> (Typical Waterborne Materials)				
	Metric	45 Liters/Hr. @ 28°C Δ T	45 Liters/Hr. @ 28°C Δ T	45 Liters/Hr. @ 28°C Δ T
	USA	12 Gallons/Hr. @ 50°F Δ T	12 Gallons/Hr. @ 50°F Δ T	12 Gallons/Hr. @ 50°F Δ T
<b>Maximum Operating Pressure</b>				
	Metric	241 bar	241 bar	137 bar
	USA	3500 PSI	3500 PSI	2000 PSI
<b>Fluid Body Inlet and Outlet Sizes (NPTF)</b>				
	Metric	—	—	—
	USA	3/8" – 3/8"	1/2" – 1/2"	3/8" – 3/8"
<b>Pipe to JIC hose fittings (included)</b>				
		1/2" – 20	3/4" – 16	1/2" – 20
<b>Fluid Flow</b> Spiral with inlet at bottom of fluid body and outlet at top.				
<b>Voltage, Single Phase, 50/60 Hz</b> 115V, 200V, 230V, 380V, 460V				
<b>Watts</b>		1700	500, 1000, 1700	1700
<b>Amperes</b>		15 @ 115V, 9 @ 200V, 8 @ 230V, 5 @ 380V, 4 @ 460V (all at 1700 watts)		
		9 @ 115V (1000 watts)		
		4.5 @ 230V (1000 watts)		
		4.5 @ 115V (500 watts)		



Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.

For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

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