

# Model NH-4 Fluid Heater

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



### 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.



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 Coating

- **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.



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## 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.

## Technical Specifications

	Models		
	Standard	Twin Passage	Stainless Steel
<b>Height</b> Metric USA	432 mm 17"	432 mm 17"	432 mm 17"
<b>Width</b> Metric USA	175 mm 6.88"	175 mm 6.88"	175 mm 6.88"
<b>Depth</b> Metric USA	232 mm 9.13"	232 mm 9.13"	232 mm 9.13"
<b>Approximate Heating Capacity (Typical Solventborne Materials)</b>			
<b>Metric</b>	45 Liters/Hr. @ 56°C Δ T	45 Liters/Hr. @ 56°C Δ T	45 Liters/Hr. @ 56°C Δ T
<b>USA</b>	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 (Typical Waterborne Materials)</b>			
<b>Metric</b>	45 Liters/Hr. @ 28°C Δ T	45 Liters/Hr. @ 28°C Δ T	45 Liters/Hr. @ 28°C Δ T
<b>USA</b>	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>			
<b>Metric</b>	241 bar	241 bar	137 bar
<b>USA</b>	3500 PSI	3500 PSI	2000 PSI
<b>Fluid Body Inlet and Outlet Sizes (NPTF)</b>			
<b>Metric</b>	—	—	—
<b>USA</b>	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>	50/60 Hz 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)		

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