

Herrdraulic HP Series Water Humidifier





High-Pressure Humidification

The NEW Herrdraulic high-pressure water humidifier from Herrmidifier is the latest innovation in atomizing systems. By employing a technically superior water-lubricated axial piston pump, the Herrdraulic produces the cleanest water vapor mist possible. When supplied with deionized or reverse osmosis water, the Herrdraulic delivers pure mineral-free mist for the most sensitive applications, including microchip and pharmaceutical manufacturing. Besides providing humidification for people and processes, the Herrdraulic delivers the added benefit of evaporative cooling. Unlike other micro-mist humidifiers, the Herrdraulic does not use compressed air or ultrasonic vibrators. These clean, dependable and easy-to-maintain systems come in five sizes to produce capacities ranging from 300 to 2500 lbs/hr (136 kg/hr to 1134 kg/hr). A state-of-the-art microprocessor control ensures flexible operation and precise humidification. Coupled with the Herrmersion nozzle dispersion array, the humidifier offers unsurpassed dispersion in ducted systems.



Clean and Simple





Applications:

- Office Buildings
- Hospitals
- Schools and Colleges
- Research Facilities and Laboratories
- Pharmaceutical Industry
- Museums
- Manufacturing Plants
- Cleanrooms
- Semiconductor Manufacturing
- **Printing Operations**
- Indoor/Outdoor Evaporative Cooling
- Water Mist Clouds in Theme Parks, Exhibitions, etc.

Pump Assembly

Features

- Integral Pump Motor Assembly
- Direct Drive C-Face Motors (NEMA & IEC)
- Suitable for Tap, Softened, DI or RO Water
- Precision Water Lubricated Axial Piston Pumps
- Pump with Built-in Water Bypass
- 10-Micron (Beta >5,000) Final Filter for Water Pump
- Built in High-Temperature and Low Supply Water Safeties
- · High-Pressure Water Safeties

Benefits

- Simplified Installation
- Constant Output, Excellent Pressure Stability and No Belt Maintenance
- Ultimate Flexibility for Sensitive Applications
- · No Oil to Leak
- Integral Pump System Safety
- Protects Pump Assembly and Humidification Nozzles

Nozzle Manifolds

Features

- 316 Stainless Steel Nozzles
- Internal Anti-Dripping Valve in Each Nozzle
- Nozzle Ports Factory Welded 316 SS

Benefits

- · No Corrosion and Long Life
- · No Drippage When Off
- · No Leaks in Distribution Assembly

Herrdraulic Controller

Features

- Programmable Microprocessor Control
- Up to (4) Zone Control Valves
- Compatible with Any Standard Control Signal
- Capacities from 300 to 2,500 lbs/hr (136 to 1134 kg/hr)

Benefits

- Easy to Adjust Precision Control
- · Flexible Staging & Capacity Control
- Works with Most BMS Systems
- Serves a Wide Range of Humidification Requirements

Model Number, Output, Pump and Motor

Model #	Flow GPM (lbs/hr)	Qty. of Nozzle	Pump Model & RPM	Horse power	Pump Assembly Weight
HP-N-300	0.6 (300)	24	PAH 2 - 1725	1 - 56C	33lbs - 15kg
HP-N-600	1.2 (600)	48	PAH 4 - 1725	2 - 145TC	40lbs - 18kg
HP-N-1200	2.4 (1200)	96	PAH 6.3 - 1740	3 - 182TC	44lbs - 20kg
HP-N-2000	4.0 (2000)	160	PAH 10 - 1760	5 - 184TC	100lbs - 45kg
HP-N-2500	5.0 (2500)	200	PAH 12.5 - 1760	5 - 184TC	120lbs - 54kg

Model Number, Output, Pump and Motor

Model #	Flow L/M (kg/hr)	Qty. of Nozzle	Pump Model & RPM	Power kW	Pump Assembly Weight
HP-I-100	1.7 (102)	16	PAH 2 - 1380	0.75 kW - IEC80	15kg
HP-I-300	5.0 (299)	52	PAH 4 - 1390	1.5 kW - IEC90	18kg
HP-I-500	8.3 (497)	88	PAH 6.3 - 1400	2.2 kW - IEC100	20kg
HP-I-750	12.7 (760)	132	PAH 10 - 1420	3.0 kW - IEC 100	45kg
HP-I-1000	16.4 (982)	172	PAH 12.5 - 1430	4.0 kW - IEC 112	54kg

Unit Specifications

Unit Sizes

UTIIT SIZES			
HP-N-300 to 2,500 (NEMA-US & Canada)	300-2500-lbs/hr (136 - 1,134 kg/hr)		
HP-I-100 to 1,000 (IEC-European)	100-1,000 kg/hr (225 – 2,165 lb/hr)		
Final Filter for Water Pump	10-inch Ametek Filter; 10-Micron (Beta >5,000)		
Motor – Direct Drive Constant Speed	Voltages • 575v, 460v / 3ph / 60 Hz; NEMA		
	• 400v / 3ph / 50 Hz; IEC		
	• 330v / 3ph / 50 Hz; IEC		
	Speed • 1725 – 1760 RPM; NEMA		
	•1380 – 1430 RPM; IEC		
High-Pressure Pump Motor	1.0 to 5.0 HP (0.75 to 4.0 kw)		
High-Pressure Manometer	Dual Scale 0-1450 psi (0-100 bar)		
Pressure Relief Valve	Adjustable Range 360-1450 psi (25-100 bar)		
Water Supply Fill Valve and Safety Switches	• High Temperature: Opens at 120°F (50°C)		
	• Low Pressure: Opens at 23-psi (1.6 bar)		
HP Microprocessor Control	ON/OFF, Proportional, Proportional Plus Integral		
	Capable of Setting Humidity and Limit Set Point		
	• Fault Indication		
Input Devices	Control, High Limit, Air Proving		
Humidity Sensors	0-10 VDC or 4-20 mADC		
Zone Control Valves	Up to (4) @ 24-volt AC		
Zone Safety Switches	High-Pressure Switch		
Nozzle Orifices	0.008 - 0.012-inches (0.2 - 0.3mm)		
Gauges	Water Inlet & High Pressure		
Custom Designed Nozzle Arrays	Nominal 10.0 - 12.5-lbs/hr (4.55 - 5.67-kg/hr) per nozzle at 1000-psi (69-bar)		
Assembly Constructed	For Tap or DI/RO Water		
Vapor Distribution System	Stainless Steel Pipes and Nozzles		
Piping	1/2" Diameter (12.7 mm) 316 Stainless Steel		
Control Cabinet Construction	16- and 18-gauge (1.52 and 1.21-mm) Powder-Coated Steel		
Shipping Weight	HP-N-300 125-lbs (57-kg); HP-N-2,500 250-lbs (113.4-kg)		





FEDDERS ENGINEERED PRODUCTS

Trion Inc. 101 McNeill Road Sanford, NC 27330, USA Phone: 800-884-0002 Fax: 800-458-2379 www.trioninc.com email: sales@trioninc.com

Trion, Ltd. The Cavendish Centre Winnall Close Winchester, Hampshire, SO23 0LB, UK Fax: +44 (0) 1962 828619 www.trion.co.uk

email: info@trion.co.uk

Trion Deutschland GmbH Boschstr. 60 D - 50171 Kerpen Phone: +49 (0) 2237 922-103 Fax: +49 (0) 2237 922-104 Phone: +44 (0) 1962 840465 email: info@trion-deutschland.de

Fedders International Air Conditioning A-30, Chintels House, Kailash Colony New Delhi India 110048 Phone: 91 11 5173 0730 Fax: 91 11 5173 0743

Fedders International, Inc. 128 Joo Seng Road DP Computers Building Singapore 368 356 Phone: (65) 6286 0995 Fax: (65) 6286 0859

Fedders International No. 728 Fuzhou Road Rm. 3002-3005 Raffles City Office Tower Shanghai, P.R. China, 200001 Phone: (86-21) 6340 3232 Fax: (86-21) 6340 3867/6340 3868

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