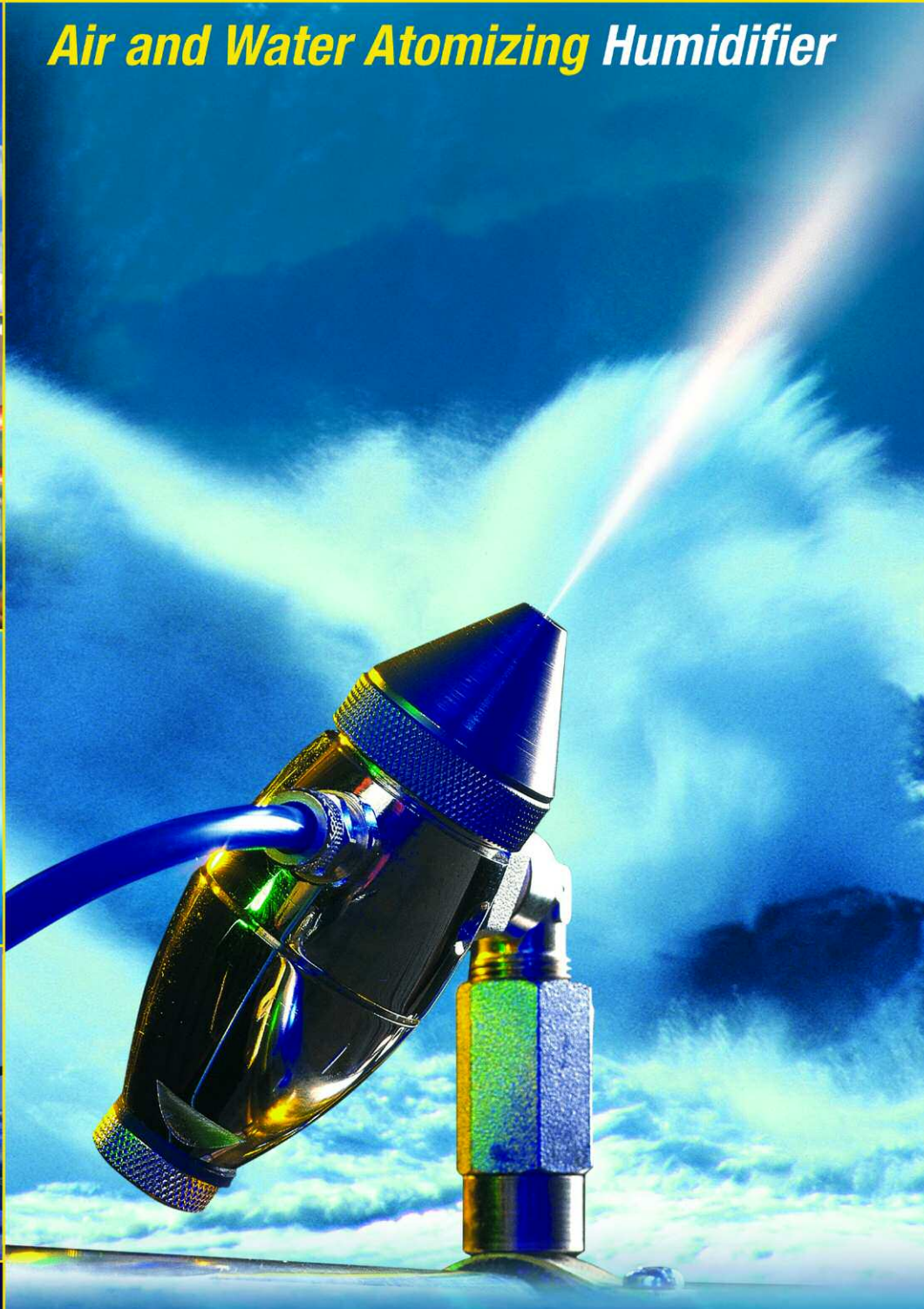
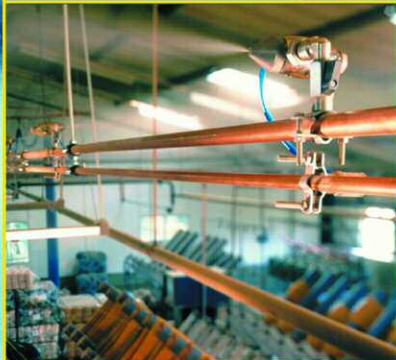


# JetSpray

*Air and Water Atomizing Humidifier*

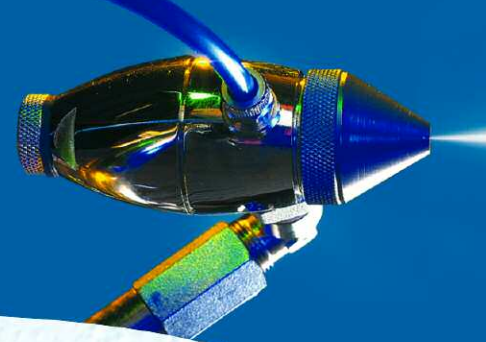


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# JetSpray

## Air and Water Atomizing Humidifier

Capacity up to 1320 lb/hr (600 kg/hr)



### Advanced technology

Each year, **Neptronic** produces thousands of humidifiers to meet a diverse and expanding worldwide demand. The **JetSpray** humidification system incorporates the latest in controls, hygiene and environmentally sound technology that sets it apart from the competition.

The **JetSpray** humidifier provides economical and consistent humidification directly into workspaces and within air handling systems.

Tried and tested in a wide range of industries, the **JetSpray** uses the most advanced air and water atomizing humidifier technology.

**JetSpray's** precision-engineered self-cleaning nozzles have the lowest air consumption of any air/water humidifier. The drip-free nozzles produce sprays of just 7.5 microns and are built to last and carry a 10-year warranty.

The control panel uses the latest remote digital interface, which can be mounted up to 330 ft (100 m) away from the main control unit.

The whole system is very easy to install and can run on domestic, demineralised or softened water. Due to a self-cleaning mechanism, maintenance is minimal and often comprises of just an annual check, making the **JetSpray** ideal for use in busy industrial environments.



Features	Benefits
Drip-free	No wetting on machinery
Significant cooling effect	Reduction in cooling costs
Suppresses dust & static	Increased productivity
Easy to install	Reduced set-up costs
Low air consumption	Low running costs
Wide modulating output	Close humidity control and low energy use

### JetSpray nozzles combine compressed air and water to achieve total atomization within a minimum distance.



## Features

- Close humidity control
- Low energy consumption
- Low running costs
- Low maintenance
- Significant cooling effect

## Hygienic operation

The *JetSpray* system is sealed, with no open water tanks, minimising the risk of water contamination. All models incorporate automatic purges that ensure water feed pipes do not become stagnant and regular flush cycles keep nozzle lines refreshed.

Materials have been chosen which discourage microbial development



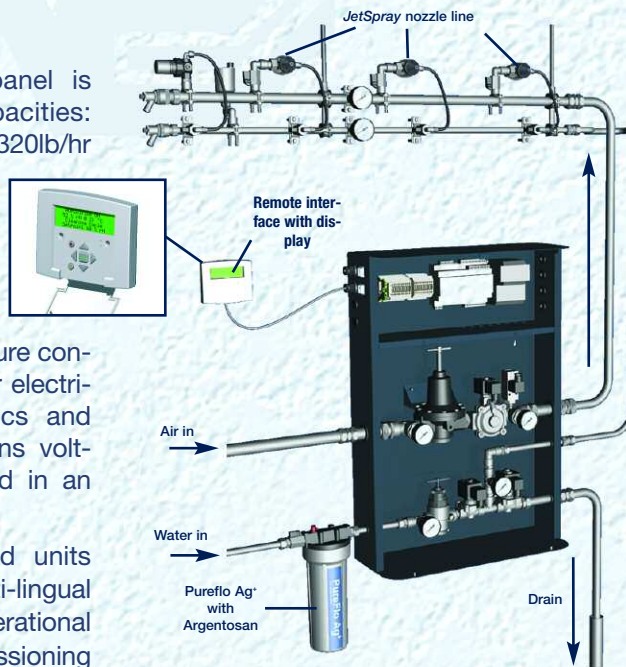
but, to further ensure hygienic operation, a PureFlo Ag<sup>+</sup> silver ion dosing system is incorporated on the incoming water supply. This includes an Argentosan<sup>®</sup> self-regulating ionic silver cartridge that prevents microbial build-up in the water and has a residual effect throughout the water pipework.

## Control panel

The *JetSpray* control panel is available in two capacities: 132lb/hr (60kg/hr) and 1320lb/hr (600kg/hr) per hour. Multiple systems can be used for larger applications.

Within each control panel, air and water pressure control sections are 24Vac for electrical safety. The electronics and 120Vac single-phase mains voltage circuits are contained in an IP54-rated enclosure.

Microprocessor controlled units have an easy-to-read multi-lingual display, which shows operational status and makes commissioning



simple. Set point, ambient humidity and temperature, purge and flush cycle operation, hours run, service interval times, occupancy operation and fault diagnostics are shown. The display can be installed up to 330ft (100m) away from the control panel.

For improved control in large areas, up to three averaging humidity sensors can be connected to the microprocessor controller or it can be linked to a building management system. On/Off and modulating control is available on high capacity systems allowing  $\pm 2\%$  RH control. Modulating systems also incorporate information on water flow.

## Specifications

	JS60	JS600	JS600DS	JS600M
Output Range	0-132 lb/hr (0-60 kg/hr)	0-1320 lb/hr (0-600 kg/hr)	0-1320 lb/hr (0-600 kg/hr)	0-1320 lb/hr (0-600 kg/hr)
Control Tolerance	+/- 4%RH	+/- 4%RH	+/- 3%RH	+/- 2%RH
Microprocessor & Remote Interface	No	No	Yes	Yes
Modulating Control	No	No	No	Yes
Sensor / Analogue control (0-10V, 2-10V)	No	No	Yes	Yes
On/Off Control	Yes	Yes	Yes	Yes
Service Interval Counter	No	No	Yes	Yes
Dimensions: Width x Height x Depth / in (mm)	15 x 21 x 6.3 (380 x 535 x 160)	20.5 x 29.5 x 7.9 (520 x 750 x 200)	20.5 x 29.5 x 7.9 (520 x 750 x 200)	20.5 x 29.5 x 7.9 (520 x 750 x 200)
Weight	33lbs (15kg)	66lbs (30kg)	66lbs (30kg)	66lbs (30kg)

Nozzle Output lb/hr (kg/hr)	5.5 (2.5)	7.7 (3.5)	10.0 (4.5)	12.0 (5.5)	14.3 (6.5)	19.8 (9.0)	26.4 (12.0)	33.0 (15.0)
Air Consumption per nozzle SCFM	0.32	0.44	0.57	0.69	0.82	1.13	1.51	1.89
Air Consumption per nozzle CFM	0.8	1.1	1.4	1.7	2.0	2.7	3.6	4.6
Air Consumption per nozzle m <sup>3</sup> /hr	0.55	0.75	0.97	1.18	1.40	1.92	2.57	3.21

## Applications include:

- Textile
- Printing
- Tobacco
- Automotive
- Air handling systems
- Timber
- Crop storage
- Cold storage
- Electronics
- Botanical gardens
- Pulp and paper

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