

Humidity Solutions Ltd

.....the solution is clear

FogSystem - Water Atomiser Systems

Cold Stores Nozzle Systems

Humidity Solutions low maintenance nozzle systems solve numerous hygrometry issues at minimum installation costs. For ducts or open spaces, Humidity Solutions provides two nozzling systems : the BV and the BUS systems.

Made of stainless steel, fitted with a self-cleaning needle device and without any mixing chamber thanks to its design, the BV nozzle offers a fairly low maintenance cost while the BUS nozzle is simply maintenance free.

The BV and BUS nozzles can be operated with a wide range of water qualities.

The nozzles are controlled by a cabinet which switches the system on and off automatically in response to humidistat to provide the accurate humidity requested. It also purges the system to avoid contamination and actuates the adjustable automatic cleaning cycle. In addition, a UV sterilizer is factory installed on the system to prevent legionella.

FogSystem may also be used as an air cooler for room applications. The water atomiser systems are also used in many industries like food storage, high technologies, printing, textile, tobacco, warehouses, wood and wood pulp.

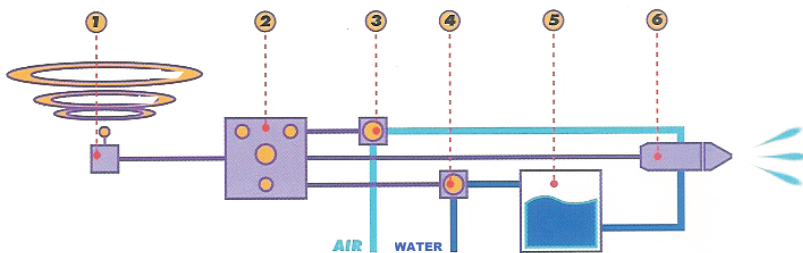
The Venturi Nozzle (BV)

The Venturi nozzles combine compressed air and water in precision engineered nozzles to produce fine sprays of moisture (10 to 15 μm) directly into the air.

Water is atomized and evaporated within short distances. As the compressed air is ejected through the Venturi nozzle, a vacuum is created which constantly draws water up from a reservoir located below the nozzle level. The actions of the venturi means that with no water pressure applied to the nozzle, the BV is essentially dripless.

Fail safe design : no compressed air = no water.

The operation process is below



1. Humidistat 2. Control Cabinet 3 & 4. Main Valves 5. Constant Water Level 6. Nozzles

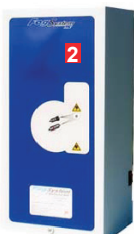
Easy Installation:

Humidity Solutions BV nozzles are available with full range of accessories to make a quick and reliable package installation.

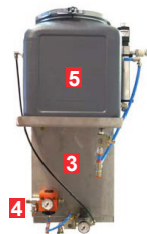
For high humidity demand, BV nozzles could be pre assembled on a bar which is called Quick Pack BV.



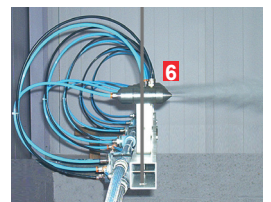
1. Humidistat



2. Control Cabinet



3 & 4. Main Valves - 5. Constant Water Level



6. Nozzles

