

# Humidification in Practice

• Bosch / Blaupunkt •

## ESD safety in electronic production



**The Bosch subsidiary firm Blaupunkt is a pioneer in vehicle navigation technology. At the main base in Hildesheim, more than 2300 employees are employed in the development and production of the most modern navigation systems.**

At Blaupunkt, we take the negative effects of electrostatic influences on electronic components and the quality of our products extremely seriously. Extensive ESD safety measures, from special floor coverings right through to protective work clothing are controlled by strict and binding regulations.

### Lower operating costs

Ensuring a constant relative humidity of at least 40% in all product assembly areas is a major part of the ESD safety program. Jürgen Bacherler from the plant maintenance department at Bosch explains the decision in favor of the DRAABE System

with the following words: "Until now we have mostly used steam humidifiers to carry out the task. The high level of energy consumption and frequent exchange of the steam cylinder involved in this procedure have a negative effect on operating

costs". In Hildesheim – as in the bases in Salzgitter and Braga (Portugal) – a DRAABE high-pressure nozzle-system is used. The water is atomized using a pulsating high-pressure system (85 bar) micro fine, drip-free and offering low energy consumption.

### Patented pure room humidification

The DRAABE conductance synthesis SynPur has been developed especially for the demands of the electronic sector and enables pure room humidification. The patented DRAABE synthesis technology completely removes all dissolved residual minerals from the supply water, guaranteeing that no additional minerals are released into the room selected for humidification. With the half-yearly exchange of the service-container, the DRAABE control service guarantees 100% performance and perfect pure water quality at Blaupunkt. Bacherler expresses his satisfaction with the long-standing cooperation: "From the start we have been extremely impressed by both the products and service provided. They fulfill our high demands".



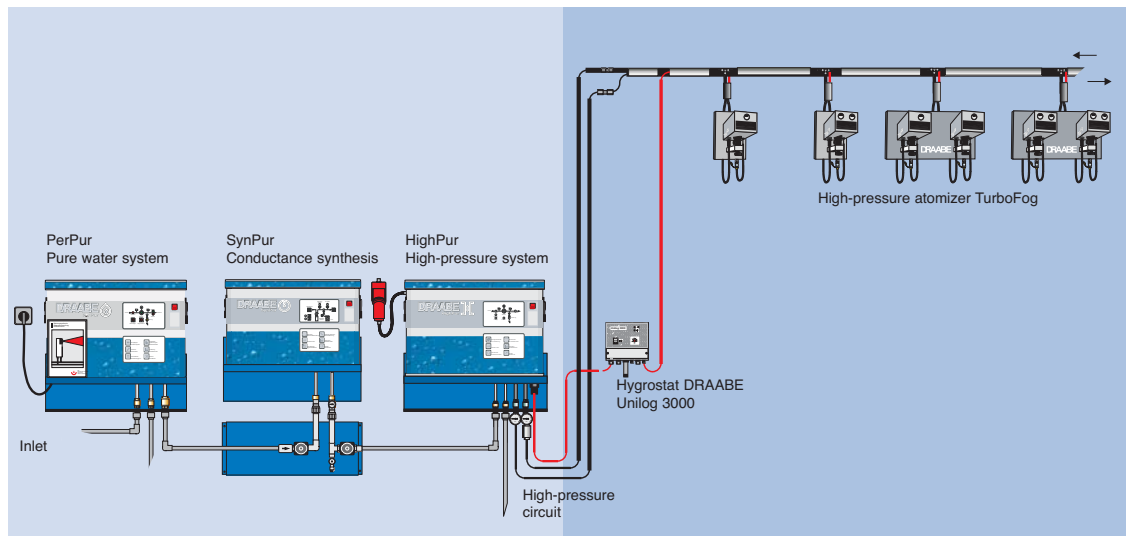
High-pressure atomizer  
TurboFog 16

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## DRAABE High-Pressure Humidification

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### The DRAABE High-Pressure System with Conductance Synthesis SynPur:



#### Pure water system:

- 1 DRAABE Pure water system PerPur 60
- 2 DRAABE Pure water systems PerPur 120

#### High-pressure system:

- 3 DRAABE High-pressure systems HighPur 200

#### Conductance synthesis:

- 1 DRAABE conductance synthesis SynPur

#### Humidification system: High-pressure

25 atomizers. Type: EuroFog 16 (16 kg/h)

#### Required humidity:

40% relative humidity

#### Installation:

March 2003

#### Benefits of optimal humidity:

- Protection from electrostatic discharge
- Quality assurance for electronic components and devices
- Protection from malfunction of semi-conductor
- Low dust attraction on all production surfaces
- Maintenance of healthier room climate and higher comfort level

#### Benefits of the DRAABE full-service rental agreement:

- Half-yearly exchange of the system container
- Maintenance and disinfection
- Exchange of worn parts
- 100% hygiene
- Total operating safety
- Unlimited warranty
- Commercial planning reliability