

# TurboFogNeo Air Humidification

Hygiene and safety

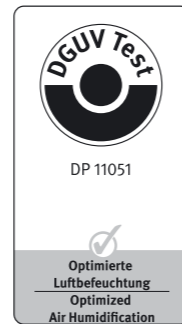


Hygiene first

### Trust is good – certification is better!

As the first provider for direct room humidification systems DRAABE has been awarded the "Optimized Air Humidification" certificate. Users of a DRAABE system can therefore rest assured that it is not only functionally safe and hygienically perfect but has also been subjected to extensive inspection. The certificate was awarded by the DGV Deutsche Gesetzliche Unfallversicherung (German Social Accident Insurance). The certificate applies in Germany and all over the world for applications in all industrial areas where air humidification systems are used.

It is the only certificate in the world that is awarded specially for air humidification systems and consolidates the currently achievable hygiene and technology standards.



# TurboFogNeo Air Humidification

A system for all requirements



Hygiene first

Flexibility

Energy saving

Green & lean

**DRAABE**  
success is in the air

DRAABE Industrietechnik GmbH  
Member of the Walter Meier Group  
Schnackenburgallee 18  
22525 Hamburg  
Germany  
Tel: +49 40 853277-0  
Fax: +49 40 853277-44

TurboFogNeo

TurboFogNeo

**DRAABE**  
success is in the air

# TurboFogNeo Air Humidification

## Your benefits

### Flexible positioning

Contrary to rigid pipe systems, the individual devices can be positioned exactly where humidification is required. All wall devices can be swivelled both horizontally and vertically.

### Energy-efficient high-pressure nozzle system

Micro-fine atomization without compressed air, steam or ultrasound. With the use of frequency-controlled, high-pressure pulsation, only as much pressure is generated as is required for the actual output level configured. This saves additional money and energy.

### Individual combination

From high halls to small rooms and winding spaces, the various devices can be combined with each other as required to achieve the ideal humidification results.

### Minimal dimensions

The tiny devices adapt perfectly to the spatial conditions and allow small, energy-saving ventilators to be used.

### Precise humidification

A digital control system guarantees precise activation of the air humidification. High-performance radial ventilators allow the aerosols to be distributed quickly into the air.

### Stainless steel technology

All hydrophilic parts are made of high-quality stainless steel for a high level of value stability and hygiene.

### Certified hygiene

The system fulfils all the requirements of the German Social Accident Insurance (DGUV) and has been awarded the international "Optimized Air Humidification" certificate.

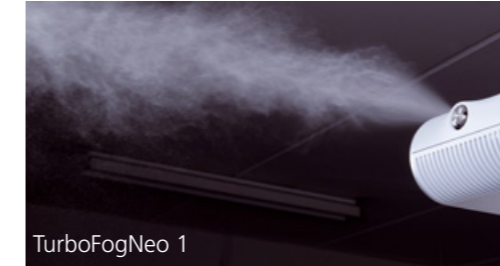


# TurboFogNeo Air Humidification

## One solution – lots of combinations



TurboFogNeo 8



TurboFogNeo 1



TurboFogNeo 2x1



TurboFogNeo 2



TurboFogNeo 2x2

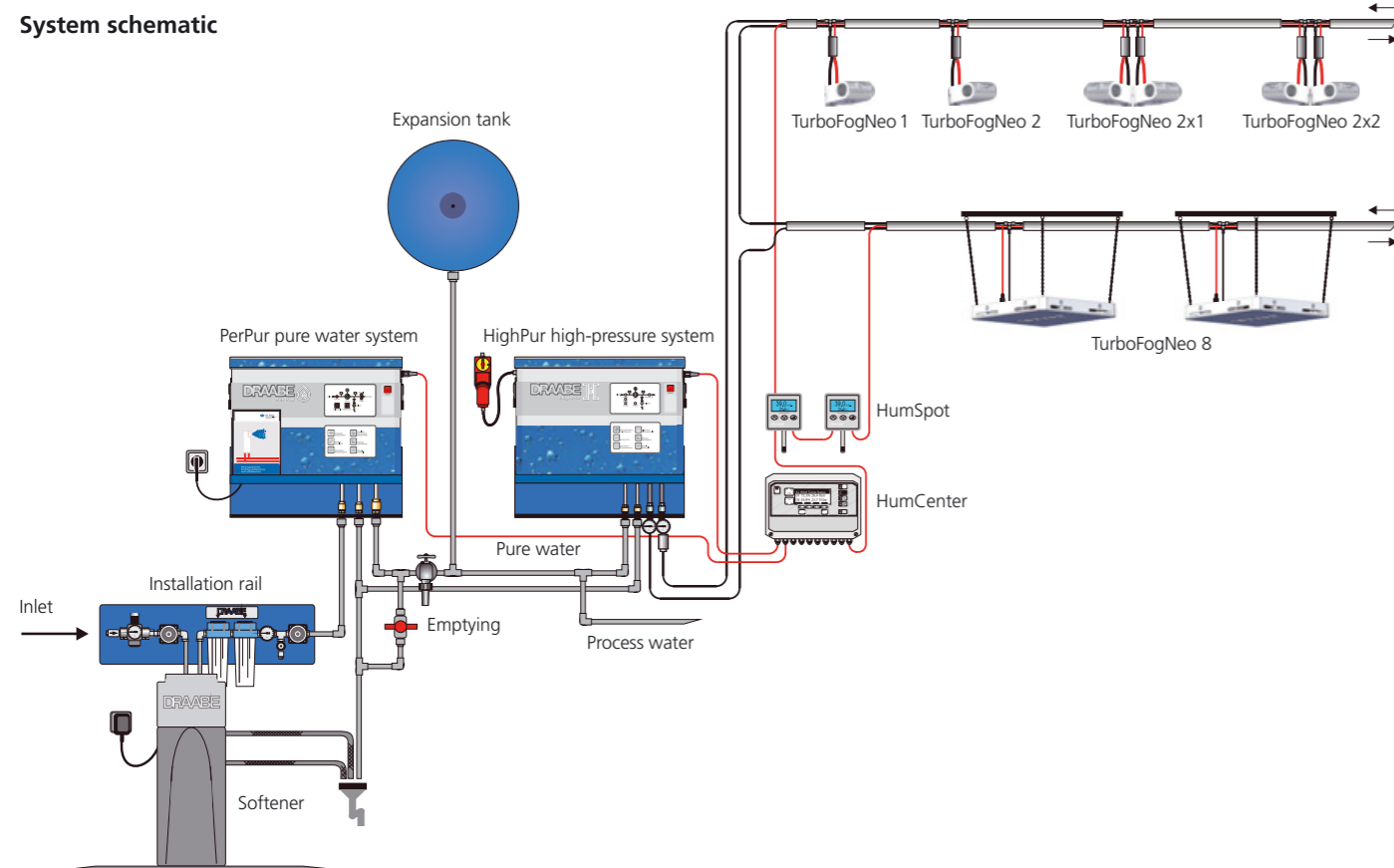


Flexibility

The air humidification system TurboFogNeo has been designed for individual use in various spatial conditions. The flexible combination options of the varying devices ensure ideal humidification results as well as economic efficiency.

# TurboFogNeo Air Humidification

## The system

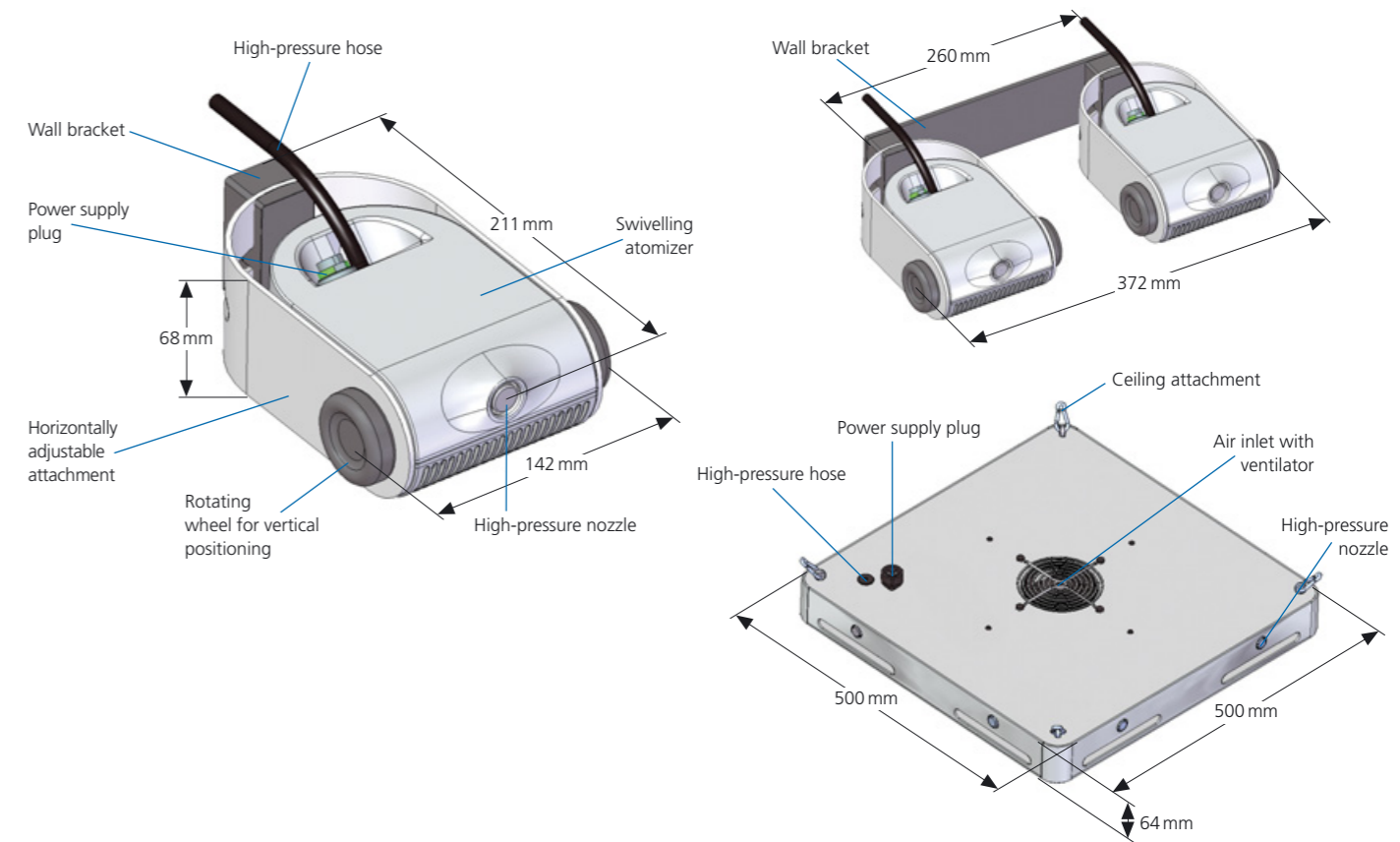


Technical details					
	TurboFogNeo 1	TurboFogNeo 2	TurboFogNeo 2x1	TurboFogNeo 2x2	TurboFogNeo 8
Performance (kg/h) max*	4	8	8	16	32
Operating pressure	approx. 85 bar				
Droplet size (Sauter)	< 15 µm				
Power supply	230VAC, 50-60Hz, +-10 %			230VAC, 50-60Hz, +-10 %	
	24VDC +-10 %				
Power consumption (W)	6.2	6.2	12.4	12.4	34
Weight (kg)	1	1.1	2.2	2.4	8

\* The performance depends on the nozzle used

# TurboFogNeo Air Humidification

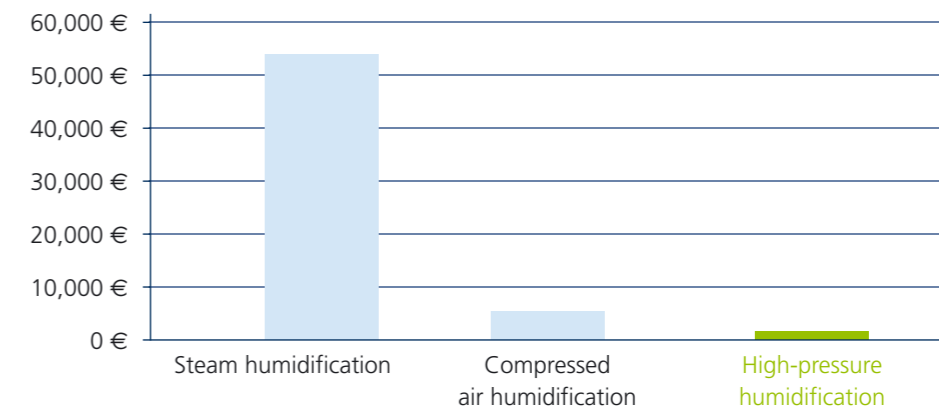
## The system



Energy saving

### Energy cost comparison on an annual basis

**Calculation basis** Humidification performance: 150 kg/h  
Power-on time: 3,000 hours p. a.  
Electricity price: 0.12 €/kWh



# TurboFogNeo Air Humidification

## Pure water and high pressure



Green & Clean

### It's all about the right water!

For trouble-free and 100 % hygienic operation of the TurboFogNeo air humidification system, the DRAABE pure water system PerPur produces highly pure water. Minerals and the finest impurities are filtered out and diverted in the form of a concentrate.

#### Advantages:

- No lime scale deposits in lines and nozzles
- Minimized amount of mineral discharge into the air
- Constant performance

### Don't accept anything less!

The key component of the DRAABE high-pressure air humidification system is the centrally installed high-pressure system HighPur. With an operating pressure of 85 bar, the system creates a pulsating hydraulic flow which in turn creates the micro-fine, absolute drip-free, pure water atomization.

#### Advantages:

- Low operating costs and resource-efficient
- High level of health protection thanks to the automated hygiene functions
- Microfine pure water atomization

### Don't worry about a thing...

As part of the full-service rental system, DRAABE takes on the biannual maintenance of the Pur systems. Every 6–8 months, DRAABE customers receive fully refurbished, disinfected replacement devices.

#### Advantages:

- 100 % hygiene
- Life-long guarantee
- Consistent state-of-the-art technology



# TurboFogNeo Air Humidification

## Digital controls

The DRAABE HumSpot controls and monitors the humidification of the individual zones (e.g. rooms and working areas). The user-friendly menu navigation and the illuminated colour display guarantee a high level of operating ease and comfort.

#### Your advantages:

- Precise activation of the air humidifier as soon as the determined humidity level drops
- High measuring precision thanks to digital, capacitive humidity analysis technology
- Permanent status display of the relative humidity and room temperature

#### Everything under control

As the central control system for the entire air humidification system, the DRAABE HumCenter monitors, controls and analyses all humidification zones and the functions of the Pur container.

#### Your advantages:

- High level of operational safety thanks to the permanent status display and monitoring of all zones and Pur systems (unit protection)
- Malfunctions and service messages are clearly displayed
- Extensive analysis functions with long-term data storage
- Connection and data transfer to building services management systems possible

