EasyLine™ In room

Humidification systems

Productive Enviroment

- Turning Waste to Value

Airtec® provide climate for productivity by protecting raw material, people and processes against dehydration, electrostatic discharge, heat and air borne dust.

Every hour spend, every raw material consumed, every machine used should provide supreme output and unfailing quality.

Our efforts, skills and intentions are devoted to achieving Productive Environment, turning waste to value.
Respectfully we challenge what is, to explore what could be.

Air humidity // Adiabatic cooling

Electrostatic discharge (EDS), dehydration, desiccation, airborne dust and excessive heat can cause a multitude of different productive and quality issues.

Maintaining a balanced humidity with an adiabatic high pressure system from Airtec will reduce productive problems related to EDS, dehydration, desiccation and airborne dust.

Evaporating 1 liter of water will consume 0,629 kWh heat from the ambient air. During the heating season it is essential that the heat supply can compensate for the energy loss.

During the cooling season the system can generate 0,629 kWh cooling, for the cost off as little as 0,002 kWh power.

Energy efficient - Long life

Atomizing 1 liter of water for as little as 0,002 kWh.

A frequency inverter monitors and adapts the pump performance to match ever changing flow requirement. Regulating the water flow as well as minimizing the energy cost.

Ventilator on/off control only activates the ventilators off the atomizers during nozzle spray, keeping the energy cost low.

The design will minimize energy cost, maintain a high hygienic standard and it will minimize wear and tear keeping the operation cost to a minimum.

Airtec® value proposition

We supply climate for productivity by eliminating issues related to electrostatic discharge, dehydration, desiccation, heat and dust.

We provide tailor made solutions for air humidification considering People, Product and Process, to maximize your benefit.

Your knowledge of People, Product and Processes in the mix with our experience with integrated humidity solutions - That´s how we get there.

ISO accredited
– A full circle perspective

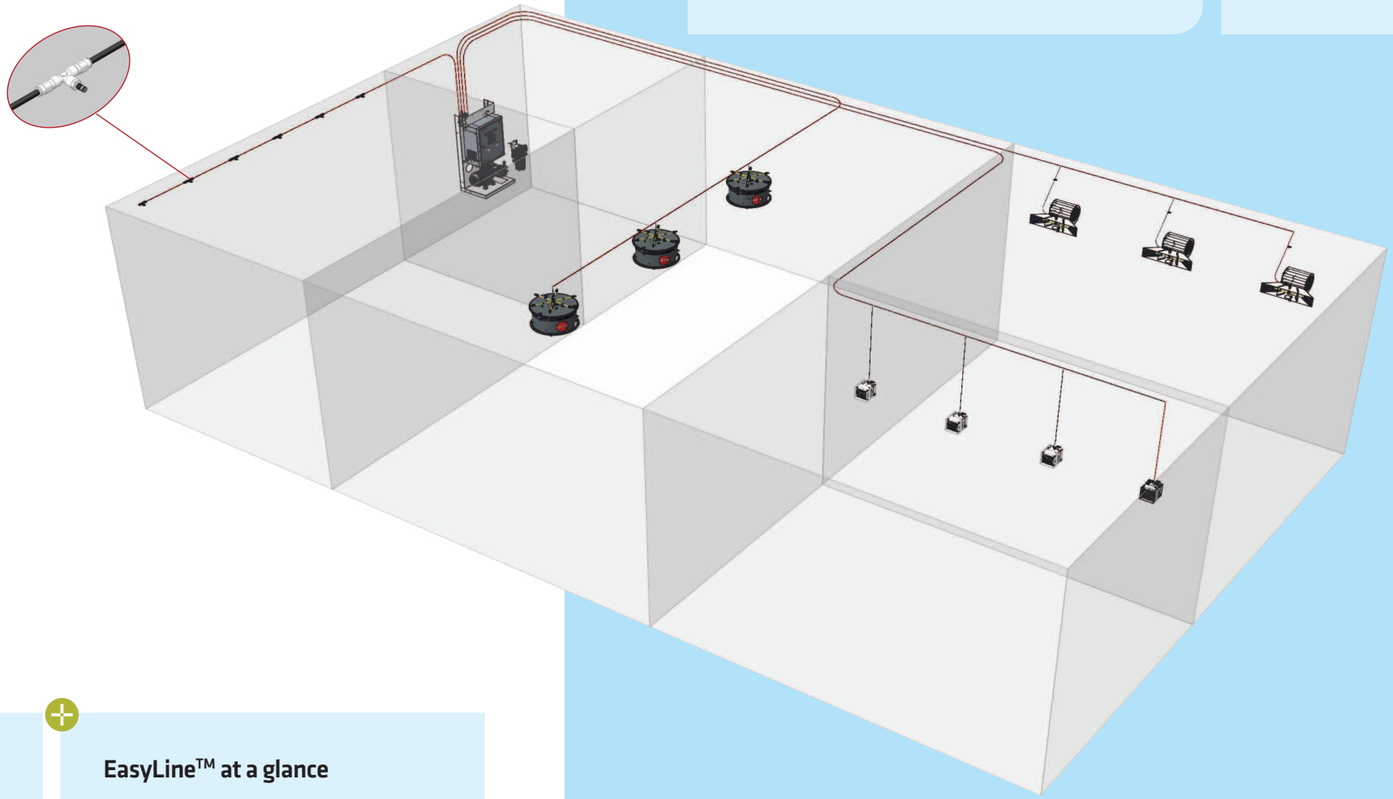
- Quality - ISO 9001
- Environment - ISO 14001
- Hygienic - ISO 22000

For almost 30 years we have continuously aimed to improve our performance.

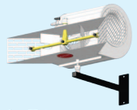
DANAK Reg.nr. 5001 & 6001 Quality & Environmental system according to DS/EN ISO 9001 DS/EN ISO 14001 by Det Norske Veritas, Danmark A/S Certification Dept.

NORWEGIAN ACCREDITATION QUAL 002

ISO 22000 CERTIFIED COMPANY



HydroJet



HydroTrio

HydroOne

HydroJet / HydroTrio / HydroOne

Modular ventilated atomizers to suit individual solutions.

HydroJet: 24 to 32 l/h, power 0,39 A, 80 W, noise level <70 dB(A), measure D430 mm, H490 mm, weight: 7 kg, installed above 4 meters, 1.850 m^3/h air.

HydroTrio: 12 l/h, power 0,29 A, 65 W, noise level <70 dB(A), measure L300 mm, W500 mm H240 mm, weight: 5 kg, installed above 3 meters. 645 m^3/h air.

HydroOne: 4 l/h, power 0,14 A, 22 W, noise level 40,5 dB(A), measure L150 mm, W125 mm H125 mm, weight: 2 kg, installed above 2.5 meters. 164 m^3/h air.

EasyLine™ at a glance

EasyLine In room humidification is a multi flexible control and pump platform with a range of click on modules, to match a vide range off expectations.

- 1 to 10 individual zone controls.
- Water flow range 4 - 600 or 24 - 800 l/h.
- 50 bars working pressure.
- Pulsing function.
- High/low humidity control.
- Hygienic rinse system.
- Zone specific flow guard.
- Low water pressure alarm.
- Thermal pump control.
- Modbus and Ethernet remote access.
- Scada surveillance.
- Run/drain antidrip system.

Hygienically optimized - ISO 22000

Maintaining low water temperature, preventing stagnant or recycled water, eliminating biological soil and providing adapted water flow – What comes in, goes out.

- Reverse Osmosis provides pure water for the system.
- Hygienic rinse system prevents stagnant water.
- Frequency inverted pump solution prevents water by pass.
- What comes in goes out principle keeps temperature low.
- Hygienic design and safe operations in a full perspective.

HydroFlex fitting system, Q3

The flexible hose and Sliplock fitting system provides a solution that requires no special tools or extensive training.

Easy seal and Sliplock technology, is a fast and safe way of installing the systems with minimum interference with your daily routines.

Q3: The components used in the systems are designed to run with RO pure water supply. All pressure carrying components are tested to 3 times working pressure - 150 bar.

Productive Environment

– with Airtec® benefits

BMS compatible, Scada and log

The system can be supplied with Ethernet or Modbus access that provides the opportunity to monitor the system remotely through an integrated BMS system or Scada interface. This option also provides the opportunity for logging data.

- Modbus RS485
- Ethernet TCP/ip

EasyLine™ in more detail

Flow range l/h, from/to	4/200	4/600	24/800	84/1200
Power supply	230 V + PE 13 Amp			3x400V + N + PE 16 Amp
Frequency inverter kWh	1,1	1,1	1,5	3,0
Double pump control	No			
Ventilator supply	13 Amp available			
Temperature range °C	1-35			
Sensor control	0 - 10 V DC			
Humidity zones	2/6/10			
Humi/temp zones	1/3/5 (will eliminate 2/6/10 hum. control)			
Thermal pump control	Yes			
Pulsing function	Yes			
Flow control	Yes			
High/low humidity alarm	Yes			
Operating hours	Yes			
Solenoid valve counter	Yes			
Low water pressure alarm	Yes			
Ethernet	Option			
Modbus	Option			
Remote controlling	Scada and BMS via TCP/IP or Modbus			
Data log	Option			
Ventilator start/stop	Option			
External alarm signal in	Yes			
Alarm signal out, potential free	Yes			
Hygienic rinse system	Yes			
Noise level , dB (A)	< 70			
Display	Yes			
Maintanance menu	Password protected			
Maintenance indicator	Yes			
Dimensions:				
Width, mm	530			
Heights,mm	1020			
Depth, mm	360			
Weight kg	50	50	58	65
Protection class	IP 52			

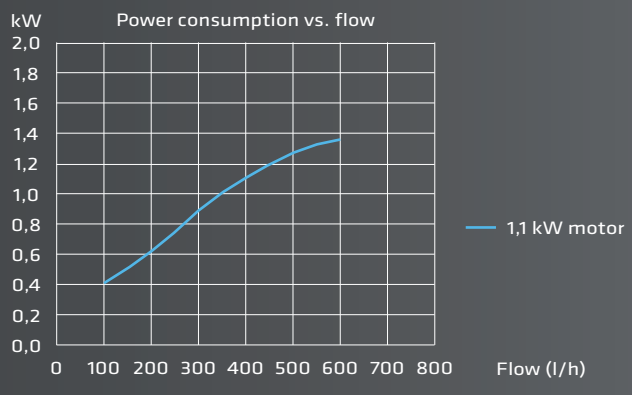
Frequency inverted water flow

– Minimum energy consumption

A pressure transmitter and a frequency inverter maintains operation pressure at 50 bars pressure at any given flow. The result is low energy consumption, max pump life and reliable pressure performance.

The pump will automatically adapt and adjust to the ever changing water flows in a multi zone system. This will prevent recycled water and unnecessary heat.

Flow range from 4 to 600 liter per hour, standard – Optionally from 24 to 800 or 88 to 1200 liter.



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