## Aeration/Deaeration plant L251, max. throughput 250 m³/h

**Natural aeration/deaeration plant** with air connections on both sides to improve the hygiene   
in drinking water reservoirs.

### Comprising:

**Item 1.0  
Louvre,** attack-proof, pre-finished, rigid design, with a stable frame, slats and 1 x 1 mm insect screen. The insect

screen serves as first filter stage and prevents the ingress of small animals, insects and organic coarse material.

louvre welded under inert gas, pickled in an immersion bath and passivated.

For clear wall opening : W x H =

**Item 2.0  
Air line** in partial lengths according to the specific local conditions, made of stainless steel material no. 1.4307

(AISI 304 L), with a connecting plate designed to suit the louvre for air-tight bolted fixing to the interior structure

wall, with pipe connection piece. Pipeline DN, longitudinal welded seam stainless steel pipe, bends as required,

flexible joints, including fixing material, foam rubber gasket and mounting brackets.

Air line welded under inert gas, pickled in an immersion bath and passivated.

**Item 3.0  
Cylindrical air filter unit L251,** with connection pieces on both sides, suitable for the air line, made of stainless

steel material no. 1.4307 (AISI 304 L), with filter for suspended matter H13, with central 1/2“ condensate

drain and ball valve for connection to the customer’s drain pipe.

The cylindrical air filter unit is designed for installation directly into the air line. The air filter unit houses a filter for suspended matter that achieves a separation degree of up to 99.99% in accordance with DIN EN 1822 for optimal supply air purification. The inspection opening in the casing ensures easy filter replacement. Completely made of 1.4307 stainless steel except the filter material.

A pressure transducer controls filter pollution. The pressure is measured upstream and downstream of the filter, the pressure differential is shown as a four-digit display value and additionally as an analogue value 0 ... 10 V, 4 ... 20 mA.

Standard measuring range: 0 … 1000 Pa, preset to 500 Pa  
Supply voltage: 24 V AC/DC  
Linearity: ± 1.5%  
Temperature drift: 0.1% per K   
Cable screw connection: M 12   
Protection grade: IP 65  
Relay output: potential-free changeover contact

Connection to a telecontrol plant or alarm system is possible.

A connection for power must be available. Maximum throughput: 250 m³/h

### Dimensions without connection piece:

Plant length = 500 mm

Outside flange diameter = 340 mm

**Dimensions with connection piece:**

Plant length = 825 mm

Both connection pieces ≥ DN 130 are equipped with condensation drain and ball valve.

DN =

Outside diameter DA =

### Item 4.0 Safety valve type 170-1 as an additional overpressure/underpressure protection for the structure in case of malfunctions. The reaction pressure is 1000 Pa. Safety valvemadeof aluminium, coatetd red (RAL 3000) on the outside.

**Note:** Tank stability must be guaranteed under any usual and exceptional operating conditions. Only with sufficient dimensioning of the structure and all components the customer is permitted, on his own risk, to do without a safety valve after consultation of the stress analyst on the customer’s own responsibility.

### Options:

➤ 1.4404 (AISI 316 L) stainless steel (Exception: safety valve)

➤ Radial pipe ventilator for installation in air line, for forced ventilation

➤ With power supply unit for regulating the pressure transducer from 230 V to 24 V.

➤ Connection pipe with flange PN 10

➤ Condensation water drain with non-return valve