## Aeration/Deaeration plant L661, max. throughput 3000 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, made of stainless steel material no. 1.4307 (AISI 304 L), 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  
Air filter unit L661** with connection pieces on both sides, suitable for the air line, made of stainless steel material no. 1.4307 (AISI 304 L), with fine filter and filter for suspended matter, with two DN 1/2“ stainless steel condensate drains upstream and downstream of the filter package, each with check valve, including wall mounting brackets.

The air filter unit is designed for installation directly into the air line. The fine material filter installed in the air line is filter class ISO ePM10 75% according to EN ISO 16890 and serves as second filter stage. The fine filter is required to increase the lifetime of the subsequent suspended material filter as third filter stage. This filter is filter class H13 with a separation class H13 of at least 99.99% in compliance with DIN EN 1822. Both filters consist of a germ-killing material that ensures the drinking water hygiene even under high loads and air moisture. 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 package, 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.

### Type L661 Air filter tank L x W x H = 720 x 640 x 725 mm.

### Item 4.0 Safety valve as an additional overpressure/underpressure protection to protect the structure in case of operating troubles. The response 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