

➤ Aeration/deaeration plant L361, L661, L662, max. throughput 720 m³/h, 1440 m³/h, 3012 m³/h

Natural aeration/deaeration plant with air connections on both sides to improve the hygiene in drinking water reservoirs. Completely made of 1.4307 stainless steel except the filter material, shielded arc welded, acid-treated in a pickling bath and passivated.

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.

Minimum size 600 x 400 mm

Dimensions: W x H =

Item 2.0

Air line in partial lengths according to the specific local conditions, with a connecting plate designed to suit the louvre (item 1.0) 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.

Item 3.0

Air filter unit L361/ L661/L662, with connection pieces on both sides, suitable for the air line, with fine filter and filter for suspended matter, with two DN 15 stainless steel condensate drains upstream and downstream of the filter package, each with check valve, the two drain lines being combined for connection to the customer's drain pipe, 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 ePM2.5 \geq 50% with a separation efficiency of 96% in compliance with 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.

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, 0/4 20 mA.

Standard measuring range: 0 1000 Pa

Supply voltage: 24 V AC/DC (optionally with power unit for regulation from 230 V to 24 V)

Linearity: \pm 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:

Air filter tank L x W x H = 720 x 640 x 725 mm, weight: 85 kg

Item 4.0

Safety valve as an additional overpressure/underpressure protection to protect the structure in case of operating troubles. The reaction pressure to be determined by the customer (minimum 1000 Pa).

Type:

Note:

The maximum permissible overpressure/underpressure to be specified by the customer. 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.

Item 5.0

Ready-to-operate installation, without brickwork, plastering works and chiselling work, without electrical work, without drain pipe, including instruction of the operating staff on site.

Optional equipment and spare parts

Item 6.0

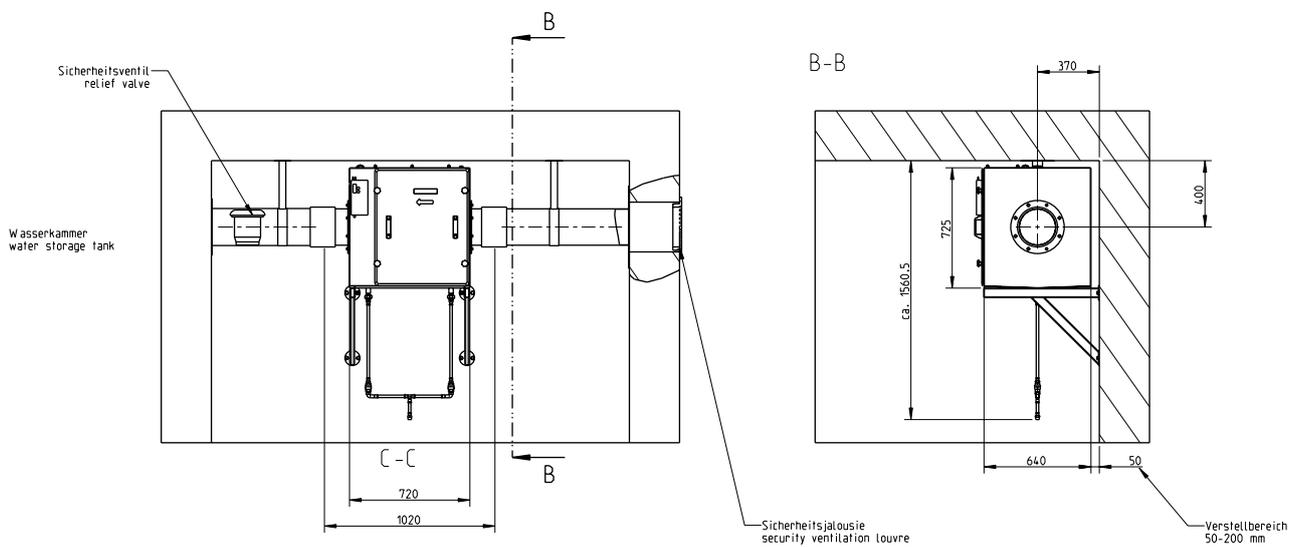
Fine filter, filter class ePM2.5 \geq 50%, separation efficiency 96% in compliance with EN ISO 16890, for type

Item 6.1

Suspended material filter, filter class H13, separation efficiency 99.99% in compliance with DIN EN 1822, for type

Options:

- 1.4404 (AISI 316 L) stainless steel
- Radial pipe ventilator for installation in DN _____ air line, for forced ventilation



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