

WATEX CMB aeration and filtration



PROBLEM:

Rust staining, clogged pipework, pressure loss, unpleasant odour and taste

CAUSE:

Fe^{2+} , Mn^{2+} , H_2S , odour, turbidity, Fe^{3+} , As

CMB SOLUTION:

WATEX CMB oxidation and filtration unit

WATER SOURCE:

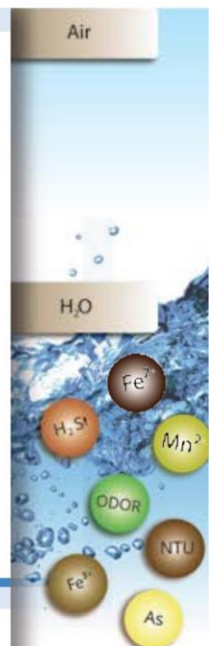
borehole or municipal supply

APPLICATION:

homes, cottages, guest houses and restaurants



- Chemical-free treatment
- Filter-media service life over 10 years
- Automatic backwash and regeneration initiated by treated-water volume
- Easy to install and operate
- Effective even at low pH and with high organic content



Technical data of the equipment	Unit	Model		
		CMB-10	CMB-12	CMB-13
Nominal flow rate Q_{nom}	m ³ /h	0,6	0,9	1
Maximum flow rate Q_{max}	m ³ /h	3,0	4,0	5,0
Minimum backwash flow	m ³ /h	1,6	2	2,6
	litres/min	27	33	43
Water consumption per regeneration	litres	~160	~220	~270
Diameter × height	mm	250 × 1570	300 × 1520	330 × 1570
Dry weight	kg	71	105	125
Inlet/outlet/drain connections	in	1" / ¾"		
Automatic control valve		Clack WS1 CI volume- and time-initiated control valve		
Tank material		PE-lined FRP pressure vessel		
Filter media		Catalytic AquaMandix and graded quartz-sand filter media		
Power consumption	W	10		

Aqua Mandix

Quartz sand
0.4x0.7 mm

Quartz sand
1x3 mm

Quartz sand
3x5 mm



Description

WATEX CMB is a simple, reliable water-treatment system. It effectively removes dissolved iron, manganese, hydrogen sulphide, odour and turbidity. An air cushion oxidises the contaminants; catalytic AquaMandix and graded quartz sand retain them without added chemicals. Regeneration uses two cycles: backwash and air replenishment.

Requirements for correct operation:

- Drain connection
- 220 V, single-phase electrical supply
- Inlet pressure 2–6 bar
- Ambient temperature above 0 °C
- Water temperature up to 25 °C
- Professional installation

Filter operating limits:

Maximum oxidised iron (Fe^{3+}) content	15 mg/l
Maximum dissolved iron (Fe^{2+}) content	3 mg/l
Maximum dissolved manganese (Mn^{2+}) content	1 mg/l
Maximum hydrogen sulphide (H_2S) content	5 mg/l
pH range for iron (Fe^{2+}) removal	6.8–9.0
pH range for manganese (Mn^{2+}) removal	8.0–9.0
Organic matter, humic substances, ammonia, chlorine, hardness salts and other contaminants do not immediately prevent operation, but can shorten filter-media service life.	



Find more information: veefiltrid.ee

Additional equipment options:

- Tank condensation-insulation jacket
- Bypass valve for easier installation
- Integrated water meter: initiates regeneration after the preset treated-water volume
- Service kit: spanner wrench and two injectors

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