FEWATEC AG

Technical data sheet **FEWATEC CRISTAL** filter

1. <u>**Physical properties of the filter**</u>

Recommended operation pressure:	3-4 bar
Min. operation pressure:	0.5 bar
Max. operation pressure:	8 bar
Test pressure during production:	16 bar

Flow rate at 4 bar
- with flow regulator:	2.7 l/min
- without flow regulator:	4 l/min

Recommended operating temperature:	10-25°C
Max. operating temperature:	45°C
External dimensions (∅ × height):	114 × 313 mm
Volume:	1.45 l
Weight empty, without water:	1.30 kg
Operating weight, filled with water:	2.35 kg
Air-vent screws:	2 pcs
Threaded connection:	R 3/8" (2 pcs)

2. <u>**Content of chemicals in the water outlet**</u>

Chrome	95% effectiveness
Lead	92%
Zinc	>80%
Copper	>98%
Cadmium	>98%
Aluminium	80%
Ammonium	40%

3. <u>**Physical measurements at the filter-outlet**</u>

Conductibility	480 – 640 µS
pH-value	7.2 – 7.4
Colour	colourless
Sediments and solids >0.5 µm	0
Diffusion 90°	not detectable

4. **Microbiology tests of the water outlet**

Enteropathogene Coli (E. Coli), escherichia germs, faecal streptococcus and microbial strains of the type Pseudomonas have been negative in all analysis.

5. **Effectiveness of the CRISTAL Filter to avoid contaminations**

Environmental pollutants	>85% effectiveness
Pesticide and humic acids	>92%
Hydrocarbons	>95%
Germs	100%
Algae	100%
Disinfection residues like chloride and ozone	>93%
Nitrate und Nitrite	>80%
Heavy metals (lead, cadmium, chrome and others)	up to 99%
Flavours and odorants	100%
Dye components	100%
Lime content (water hardness) regulated to	5° dH (or 8.9° fH)
Solids, sand-/rust particles, mud >0.4 µm	100%

Overview of the properties

- Integrated multi-range filter with triple effectiveness in one cartridge

- Membrane with a pore diameter of 0.4 µm (microns) for the microfiltration

- Cartridge has to be replaced after about 6-8'000 litres (240'000 oz) – depends on the quality of the water

- Economic water treatment with a compact device

- Available in 3 models: integrated in water pipe – under or over table model

- Technically perfect – equipped with 2 vent valves, norm pins and PROFIX-connections

- Easy handling

- User-friendly

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