PURITY C Quell ST

PURITY C QUELL ST – ENJOYING WATER CAN BE SO SIMPLE

Technology: decarbonization

Experience unique quality

Specially developed for catering and vending sectors, the PURITY C Quell ST filter cartridges reduce carbonate hardness in drinking water and therefore reduce the danger of limescale deposits in equipment. In addition, the filter medium retains metal ions, such as lead or copper, and also reduces substances that can negatively affect taste and aroma (such as chlorine residues).



IntelliBypass® Technology

A largely volumetric-flow independent bypass water proportion ensures constant water quality, also for low water flow rates.

smarter cap · less packaging waste · -19 tons CO_2 p.a. ·

Your advantages – constant water quality for many applications.

- Limescale deposits and the associated machine breakdowns are reduced and additional service and repair costs are thus decreased
- The removal of unwanted taste and aroma elements in the filtrate (and also in the bypass water) for optimum quality of the end product
- One filter head concept for all cartridge versions in the PURITY C range with various head designs for individual requirements
- Simple to handle with rapid-change system with innovative locking handle for reliable adjustment
- Integrated flush valve for easy operation, and space-saving thanks to the water inlet and outlet on one side of the filter head

PURITY C Quell ST

Optimum water for varied applications



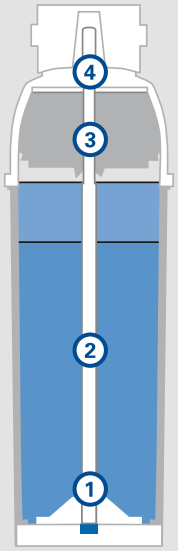
Systematic filter technology

1. Pre-filtration
A pre-filter retains coarse particles.

2. Carbonate hardness reduction
The PURITY C Quell ST filter medium reduces carbonate hardness. As a result, unwanted limescale formation is prevented.

3. Activated carbon filtration
All of the water – including the bypass water – runs through an activated carbon filter, resulting in the removal of substances that have an adverse effect on the taste and aroma.

4. Fine filtration
At the end of the filtration process a mesh screen retains any fine particles.



The illustration serves as explanation of the filter technology. It is not to scale.

The PURITY promises:

Optimum water quality
Outstanding and consistent water quality – free of unwanted taste and aroma elements.

Maximum product safety
For uninterrupted operation and safe use.

Simple to use
Operation is simpler and easier than ever.

The food safety of MAVEA water filter products is tested and monitored by independent institutes.

NSF C US

System tested and certified by NSF International against NSF/ANSI standard 42 for the reduction of chlorine taste and odor, and against CSA B483.1.

	PURITY C Quell ST				
	C50	C150	C300	C500	C1100
PURITY C 0–70 % filter head with variable bypass					
Capacity[1] coffee/espresso/ vending machines (at a carbonate hardness of 10 °dH[2]/ 10 gpn[3] bypass setting of 40 %)	960 l 254 US gallons	2,408 l 636 US gallons	4,000 l 1,057 US gallons	6,800 l 1,796 US gallons	11,500 l 3,038 US gallons
Max. operating pressure	8.6 bar | 125 psi				
Operating/water temperature	4–30 °C | 39.2–86 °F				
Nominal flow	60 l/h 15.85 US gallons/h			100 l/h 26.42 US gallons/h	
Pressure loss at nominal flow	0.25 bar | 3.6 ps			0.5 bar | 7.3 psi	
Dimensions (W/D/H) with filter head	119/108/ 265 mm 4.69/4.25/ 10.43 inch	117/104/ 417 mm 4.60/4.09/ 16.42 inch	125/119/ 464 mm 4.92/4.69/ 18.26 inch	149/149/ 553 mm 5.86/5.86/ 21.77 inch	184/184/ 553 mm (7.24/7.24/ 21.78 inch
Weight (dry/wet)	1.0/1.4 kg 2.2/3.1 lb	1.7/2.5 kg 3.7/5.5 lb	2.7/3.9 kg 6.0/8.6 lb	4.6/7.1 kg 10.1/15.7 lb	7.7/12.5 kg 16.9/27.5 lb
Connections (input/output)	G 3/8" BSP or 3/8" 18 NPT				
Chlorine reduction: The MAVEA PURITY water filter system has been tested according to NSF/ANSI 42 for reduction of Chlorine. While testing was performed under standard laboratory conditions, actual performance of the system may vary.					
Average influent concentration	2.1 mg/l				
Maximum effluent concentration	0.34 mg/l			0.31 mg/l	
Minimum percent removal	83.6 %			85.2 %	
Average effluent concentration	0.21 mg/l			0.25 mg/l	
Average percent removal	91.4 %			88.6 %	
Capacity	1,900 l 502 US gallons	4,766 l 1,259 US gallons	7,917 l 2,091 US gallons	13,458 l 3,555 US gallons	22,762 l 6,013 US gallons
Rated service flow (lpm)	0.25 US gallons/min			0.44 US gallons/min	

[1] The capacity limits refer to average usage of the terminal equipment. They do not include any filter flushing or cleaning cycle allowance and depend on local water quality, flow, mains pressureand flow continuity.
[2] Degree German hardness. [3] Grains per US gallon.

Products	Order number				
	C50	C150	C300	C500	C1100
Filter cartridge	1001395 (Pack 20)	1001394 (Pack 1)	1001398 (Pack 1)	1002982 (Pack 1)	1012461 (Pack 1)
Filter head** 0–70 %*, BSP	1013622 (Pack 1)				
Filter head** 0–70 %*, NPT	1013635 (Pack 1)				
Filter head 0–70 %*, NPT	1007357 (Pack 1)				
Accessories					
FlowMeter MAVEA 10–100 A NPT Connection	1013871				
FlowMeter MAVEA 10–100 A BSP Connection	1009598				
Temporary hardness test kit	710801				
Appropriate accessories can be found in our price list.					

* Can be used flexibly for all applications
** Flush valve with slider mechanism

Only drinking quality water may be used as the water supply for MAVEA water filters.

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