



PURITY QUELL ST – THE BEST WATER FOR GASTRONOMY

Technology: decarbonization

Taste and function for gastronomy

Constant high performance in gastronomy is expected from high-quality machines. To ensure this performance is achieved at all times, it is advisable to work with optimized water.

The consistent water quality over the life of the filter and the reliable removal of unwanted taste and aroma elements ensures best quality and optimum aroma development for your drinks, as well as high machine protection.



IntelliBypass®
technology

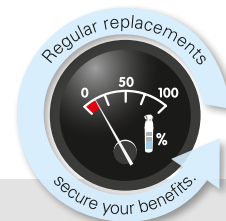
A largely volumetric-flow independent bypass water proportion ensures constant water quality, also for low water flow rates.

Your advantages – great taste with reliable protection from limescale.

- Removal of unwanted taste and aroma elements in the complete filtrate (including in the bypass water)
- Targeted adaptation to local conditions with variable bypass setting
- Baked products, fish, meat and vegetables are cooked to their best
- Limescale deposits and associated machine breakdowns are reduced
- Coffee develops its full aroma
- Service and repair costs are clearly reduced

PURITY Quell ST

Optimum water for different applications



Systematic filter technology

1. Pre-filtration

A mesh screen at the inlet retains coarse particles and with its laminar water distribution ensures a high utilization of the downstream filter medium.

2. Carbonate hardness reduction

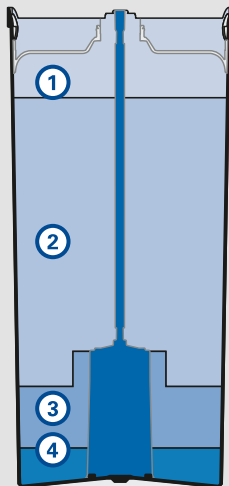
The PURITY Quell ST filter medium reduces the content of carbonate hardness in a targeted way. As a result, unwanted limescale formation is prevented.

3. Activated carbon filtration

All of the water – including the bypass water – runs through an activated carbon filter. Taste and aroma elements that have a negative affect do not enter the filtrate.

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.



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 Quell ST | | |
|---|---------------------------------|-------------------------------|--------------------------------|
| | 450 | 600 | 1200 |
| Capacity ¹ in liters/US gallons with a carbonate hardness of 10°dH ² /10 gpg ³ ; coffee/espresso/vending machines (bypass setting 40%) | 4,217l 1,114 US gallons | 7,207l 1,904 US gallons | 13,187l 3,484 US gallons |
| Capacity ¹ in liters/US gallons with a carbonate hardness of 10°dH ² /10 gpg ³ ; combi steamers/ovens (bypass setting 10%) | 2,994l 791 US gallons | 5,118l 1,352 US gallons | 9,364l 2,474 US gallons |
| Capacity ¹ in liters/US gallons with a carbonate hardness of 10°dH ² /10 gpg ³ ; dishwashers (bypass setting 0%) | – | – | 8,600l 2,271.9 US gallons |
| Max. operating pressure | 6.9 bar max. 100 psi | | |
| Operating/water temperature | 4–30°C 39–86°F | | |
| Flow at 1 bar/ 14.5 psi pressure loss | max. 350l/h 92.4 US gallons/h | | |
| Nominal flow | 60l/h 15.85 US gallons/h | 120l/h 31.7 US gallons/h | |
| Pressure loss at nominal flow (MDU) | 0.12 bar 1.74 psi | 0.36 bar 5.22 psi | 0.32 bar 4.64 psi |
| Pressure loss at nominal flow w/o MDU | 0.08 bar 1.16 psi | 0.27 bar 3.92 psi | 0.24 bar 3.48 psi |
| Dimensions (height/width) | 408/249 mm 16.06/9.80 inch | 520/249 mm 20.47/9.80 inch | 550/288 mm 21.65/11.34 inch |
| Weight (dry/wet) | 10/12 kg 22/26 lb | 12/15 kg 26/33 lb | 18/24 kg 40/53 lb |
| Connections (input/output) | G 1"/G 3/4" | | |
| Operating position | horizontal and vertical | | |

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 pressure and flow continuity.

² Degree German hardness. ³ Grains per US gallon.

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| 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. | | | |
| Influent challenge concentration | 2.0 mg/l = 10 % | | |
| Reduction requirement | > = 50 % | | |
| Actual average reduction | 97.1 % | | |
| Capacity based on chlorine reduction | 6,000l 1,585 US gallons | 7,500l 1,981 US gallons | 13,500l 3,566 US gallons |
| Rated service flow | 1.8 lpm | | |

| Products | Order number | | |
|--|--------------|--------|--------|
| | 450 | 600 | 1200 |
| PURITY Quell ST Complete (Pressure vessel, standard cartridge + lid with measuring and display unit (MDU)) | 106219 | 106220 | 106221 |
| Exchange cartridge | 276100 | 276000 | 275900 |
| Accessories | | | |
| FlowMeter MAVEA 10–100A NPT connection | 1013871 | | |
| FlowMeter MAVEA 10–100A BSP connection | 1009598 | | |
| Temporary hardness test kit | 710801 | | |
| Appropriate accessories can be found in our price list. | | | |

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

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