

# Elkay® WaterSentry® VII

Lead, Aesthetic Chlorine Taste & Odor & Particulate Class I Reduction  
 Filter Part No. 51299C FOR EWF172 - WaterSentry® VII

## FOR COMMERCIAL USE ONLY PERFORMANCE DATA SHEET

The Elkay WaterSentry® VII filter is certified by WQA to NSF/ANSI 42 and 53 for the reduction of Aesthetic Chlorine, Taste and Odor, Particulate Class I, and Lead, as verified and substantiated by test data.



**IMPORTANT NOTICE:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that, before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

**NOTICE:** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

**CAUTION:** Use on cold water line only. Do not allow installed filter to freeze.

**Note:** This system and installation shall comply with applicable state and local regulations.

| RECOMMENDED USE CONDITIONS |                                |                  |                                   |
|----------------------------|--------------------------------|------------------|-----------------------------------|
| Capacity                   | 1500 Gallons<br>1 Year Maximum | Maximum Pressure | 105 PSI (7.4 Kg/cm <sup>2</sup> ) |
| Flow Rate                  | 1.5 GPM                        | Minimum Pressure | 20 PSI (1.4 Kg/cm <sup>2</sup> )  |
| Temperature                | 40-120° F (5-50° C)            |                  |                                   |

NOTE: Performance will vary depending on local water conditions. While testing was performed under standard laboratory conditions actual performance may vary.

### Instructions For Installing Replacement Filters

1. Turn off water supply; dispense water to relieve pressure
2. Turn used filter counterclockwise 1/4 turn to remove from filter head.
3. Remove cap from new filter and use to seal used filter.
4. Insert new filter into existing filter head and turn fully clockwise.
5. Turn on water supply and run a minimum of two gallons of water through the filter to purge air and fine carbon particles from filter. Also run water through glass filler (if provided)

|                                |
|--------------------------------|
| Your Authorized Representative |
| Buyer                          |
| Seller                         |

### LIMITED WARRANTY

The ELKAY WaterSentry® VII is warranted to be free from defects in material and workmanship for a period of one year from the date of installation. Warranty is limited to repair or replacement of defective component.

|   |                |
|---|----------------|
| NSF/ANSI 42   | NSF/ANSI 53    |
| Aesthetic Chlorine<br>Particulate - Class I<br>Taste and Odor Reduction | Lead Reduction |

| Performance Test Conditions |                                  |
|-----------------------------|----------------------------------|
| Capacity                    | 1500 Gallons (5678 l)            |
| Flow Rate                   | 1.5 gpm (2.8 l/m)                |
| Pressure                    | 60 psi (4.2 kg/cm <sup>2</sup> ) |
| Temperature                 | 68-70° F (20-21° C)              |

This system has been tested according to NSF/ANSI 42 and 53 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42 and 53.

Table 1 Lead Reduction

| Contaminant   | Average Influent | Average Effluent | Average % Reduction / Minimum % Reduction | Maximum Effluent | Influent Challenge Concentration | Max. Permissible Product Water Concentration |
|---------------|------------------|------------------|---|------------------|----------------------------------|--|
| Lead (pH 6.5) | .153 mg/l        | .00125 mg/l      | 99.1/98.0                                 | .003 mg/l        | .15 ± 10% mg/l                   | .010 mg/l                                    |
| Lead (pH 8.5) | .153 mg/l        | .001 mg/l        | 99.3/99.3                                 | .001 mg/l        | .15 ± 10% mg/l                   | .010 mg/l                                    |

Average concentrations are the arithmetic mean of all reported influent or effluent concentrations (The detection limit value shall be used for any non-detectable concentrations.) The percent reduction shall be calculated from the arithmetic mean of the influent and effluent concentrations.

Table 2 Aesthetic Chlorine Reduction

| Average Influent | Average Effluent | Maximum Effluent | Units | Minimum % Reduction | Influent Challenge Concentration | Reduction Requirement |
|------------------|------------------|------------------|-------|---------------------|----------------------------------|-----------------------|
| 1.97 mg/l        | .02 mg/l         | .02 mg/l         | mg/l  | 99.0                | 2.0 mg/l ±10%                    | ≥ 50%                 |

Table 3 Particulate Class I Reduction (Particle Size: 0.5 - 1 micron)

| Average Influent | Average Effluent | Maximum Effluent | Units        | Minimum % Reduction | Influent Challenge Concentration | Reduction Requirement |
|------------------|------------------|------------------|--------------|---------------------|----------------------------------|-----------------------|
| 76,613           | 183              | 405              | particles/ml | 99.5                | min. 10,000 particles/ml         | ≥ 85%                 |