WATER SAFETY AND EFFICIENCY REQUIREMENTS*

Maximum flush cycle, maximum flow rate and other requirements summarized below.

**SINGLE-PASS SYSTEMS, INCLUDING ONCE-THROUGH COOLING**
Prohibited

**TOILETS**
4.8 L/flush. Full flush on a dual-flush toilet shall not exceed 4.8 L

**URINALS**
1.9 L/flush

**SHOWER HEADS**
7.6 L/minute

**LAVATORY FAUCETS**
Private use 5.7 L/minute
Public use 1.9 L/minute + self-closing

**KITCHEN FAUCETS**
Residential use 6.8 L/minute
Non-residential use 8.3 L/minute

**PRE-RINSE SPRAY VALVES**
4.8 L/minute

**DISHWASHERS**

**CLOTHES WASHERS**

**ICE MAKERS**

**COMMERCIAL STEAM COOKERS**

**COMBINATION OVENS**

**HOT WATER**
Domestic hot water to be stored at a minimum of 60°C within a tank. A minimum of 49°C is required within a recirculation loop.

**COOLING TOWERS AND EVAPORATIVE CONDENSERS**
Operating permit required for new and existing systems. *Legionella pneumophila* reporting required at seasonal start-up and every month of operation.

**DECORATIVE WATER FEATURES**
Operating permit required for new and existing systems. *Legionella pneumophila* reporting required every two months of operation.

**BUILDING WATER TREATMENT SYSTEMS**
Operating permit required for new and existing systems treating potable water.

**ALTERNATE WATER SYSTEMS, INCLUDING RAINWATER HARVESTING**
Operating permit required for new and existing systems. Water quality reporting required every two months.

**PIPE SIZING & MATERIALS**
IAPMO Water Demand Calculator may be used. New requirements for stainless steel.

**GEOEXCHANGE SYSTEMS**
Methanol use prohibited. Open-loop systems shall not discharge to sewer.

**VEHICLE WASH FACILITIES**
Automatic systems: recycle at least 60% of water.
Self-service: 11.4 L/minute for foam brushes and spray wands.

**RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS**
Pressure reducing valve may be required. Fertigation and chemigation prohibited.

**CROSS CONNECTION CONTROL**
Backflow preventers shall be selected and installed in conformance with CSA B64.10.

For more information visit:
[vancouver.ca/operating-permit](vancouver.ca/operating-permit)
[vancouver.ca/building-bylaw](vancouver.ca/building-bylaw)

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* Summary does not include all applicable Vancouver Building By-law plumbing requirements.

** Exempt are fixtures within treatment and care (Group B) occupancies and those listed in a professional water management plan.

† Exempt are systems for single-family homes and duplexes.
Green walls, fish ponds, and natural bodies of water are also exempt.

**†† Exempt are systems for single-family homes and duplexes.