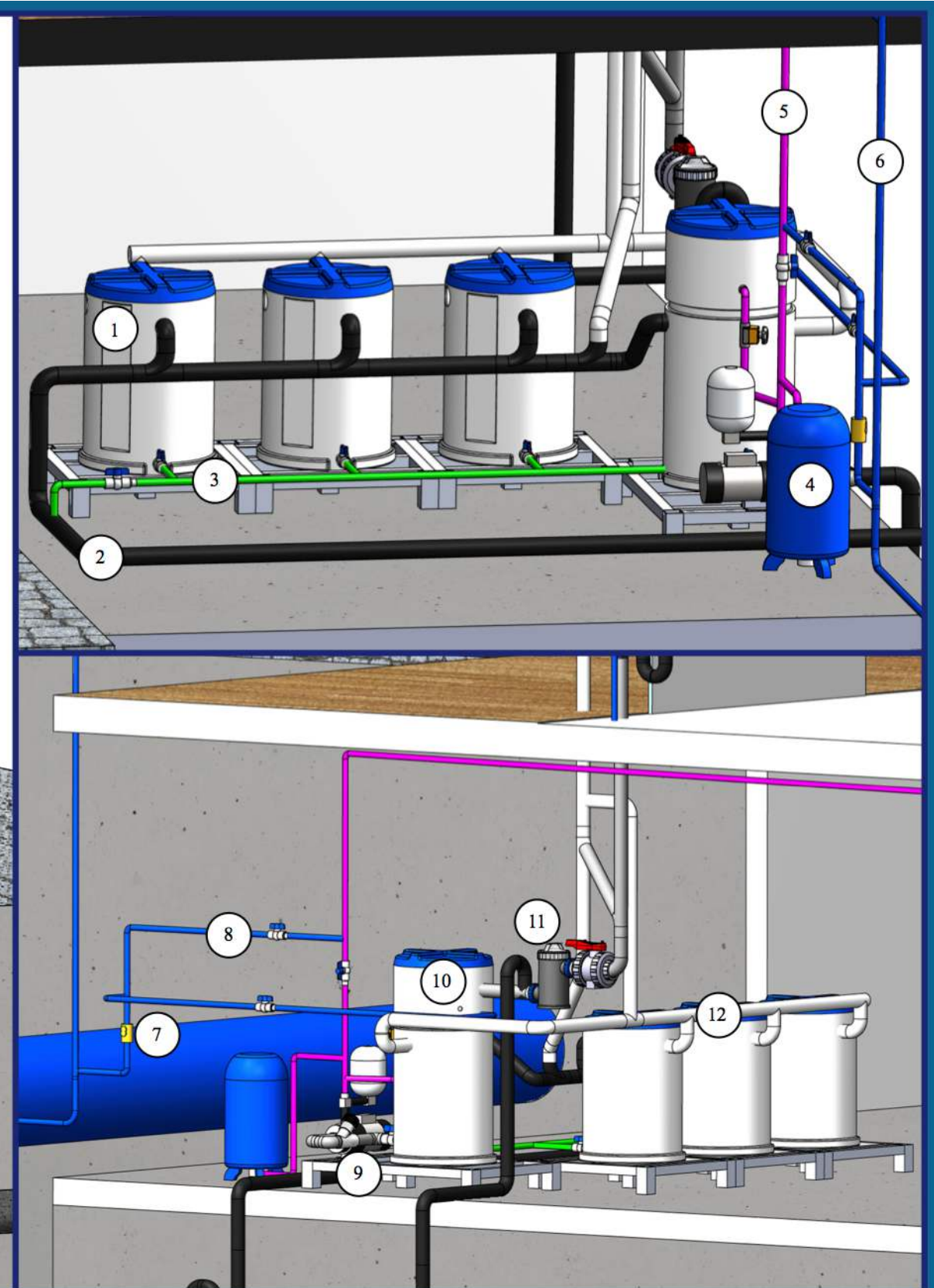
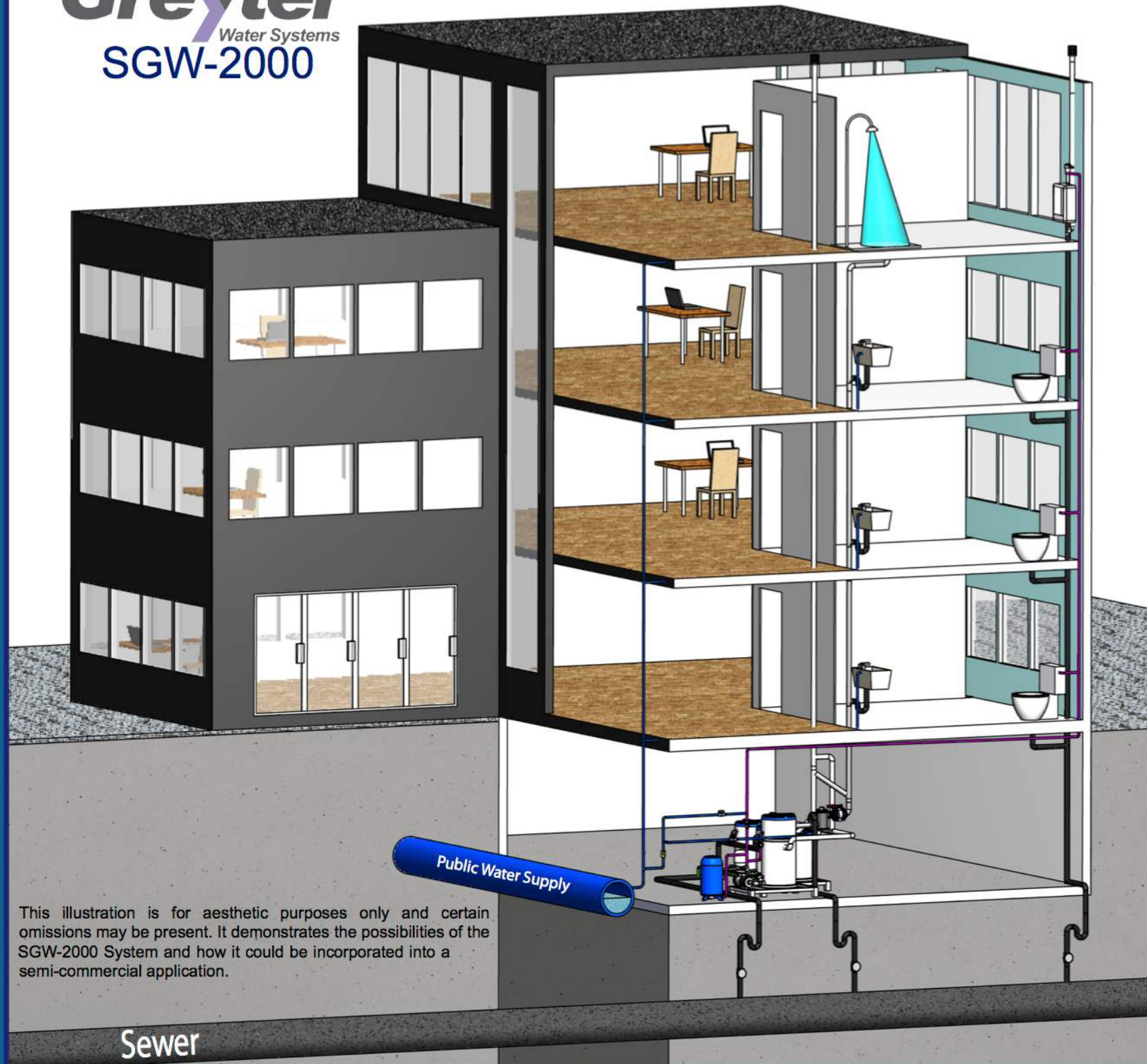


Greyster

Water Systems
SGW-2000



- | | | | | | |
|---------------------------|-----------------------------|-----------------------|-----------------------------------|----------------------|---------------------|
| 1 Secondary Holding Tanks | 3 Greywater Equalizing Line | 5 Greywater to Toilet | 7 Cross Connection Control Device | 9 Pump Station | 11 Pre-Filter |
| 2 Overflow Line | 4 Pressure Tank | 6 Freshwater Line | 8 Freshwater Bypass | 10 Main Holding Tank | 12 Ventilation Line |

This illustration depicts a Semi-Commercial Greywater System (SGW-2000) designed to collect, filter, disinfect and store greywater from bathtubs, showers and where permitted, laundry machines for toilet flushing and closed loop irrigation systems if local laws allow. The greywater from the various fixtures is directed to the SGW system by gravity. If the SGW system is not installed in a basement and the fixtures are below the greywater inlet an optional Lift Station (LSP not shown) can be employed to collect and pump the water back up to the inlet. The greywater enters an optional but highly recommended pre-filter which removes excessive amounts of hair or large particles such as lint from entering the SGW system especially when utilizing laundry machines. The greywater continues into the SGW system through four easy to maintain integrated 100 micron filters and then into the lower portion of the tank for storage which equalizes between the three secondary tanks. The SGW's water management control module monitors the levels of greywater stored in the tank and automatically adds fresh water through an integrated backflow prevention device to compensate for occasions when demand exceeds supply. The water management control module also automatically commences a disinfecting circulation based on the amount of greywater entering the SGW which will effectively eliminate all microbiological contamination and maintain a residual disinfecting agent within the tank and the integrated filters. On demand, treated water from the tank is pumped with the aid of an optional pressure tank (PT Series) to the toilets. The pressure tank is designed to reduce unnecessary pump starts by storing enough pressured greywater for five to six toilet flushes which in turn, reduces energy costs and even allows several toilet flushes in the event of a power failure.