

## This document shows two examples of whole house water filter installations

### Typical Parts cost (Jan-22)

3/4" PRV with dual unions \$110 to \$130

### Simple Whole House Water Filter

Filter housing (no filter cartridge) 4.5" X 10" or 4.5" X 20": \$45 to \$100

Filter cartridge Sediment Filter 4.5" X 10" (replace every 6 to 12 months) Pentek DGD-2501 (1 micron) \$23, Pentek DGD-5005 (5 micron) \$16

Filter cartridge Sediment Filter 4.5" X 20" (replace every 6 to 12 months) Pentek DGD-2501-20 (1 micron) \$36, Pentek DGD-5005-20 (5 micron) \$36

### Heavy Metals Three Stage Whole House Water Filter (this is just one example, other manufacturers make similar products)

Express Water Heavy Metals 4.5" X 20" complete three stage Filter Assembly (with filter cartridges): \$500

Filter cartridge (recommended replacement every 6 to 12 months, up to 100,000 gallons of water)

Express Water Sediment Filter SED (5 micron) \$30

Express Water heavy metals filter KDF \$100

Express Water carbon block filter ACB (5 micron) \$40

What should you expect from each whole house water filter?

### Simple Whole House Water Filter

Inexpensive. Removes any solid particles larger than the rated filtration size, including the brownish water (ferric iron oxide) that occurs over time in the water system lines, especially after the lines have been flushed. Does not change the chemical composition of the water or affect taste (the addition of a carbon filter may remove odor and improve taste).

### Heavy Metals Three Stage Whole House Water Filter

The sediment filter removes any solid particles larger than the rated filtration size, including the brownish water (ferric iron oxide) that occurs over time in the water system lines.

The KDF heavy metals filter oxidizes ferrous iron into ferric iron oxide, it also oxidizes other metals.

The Activated Carbon Block (ACB) filter removes solid particles larger than the rated filtration size (produced by the KDF filter) , plus removes chlorine (not in the CMCC well water, but may be added to the system when new equipment or lines are installed), odors and cloudiness. The end result is a significant reduction in staining in sinks, showers and toilets and no rotten egg odor.

Example Test results: (CMCC well water / after 3 Stage filtered water) in parts per million (mg/L) ND = not detected

IRON: 0.38—0.40 / ND—0.06 MANGANESE: 0.028 / ND—0.012 ANTIMONY: 0.006 / ND BARIUM: 0.40 / 0.03 BERYLLIUM: 0.0008 / ND CADMIUM: 0.002 / ND

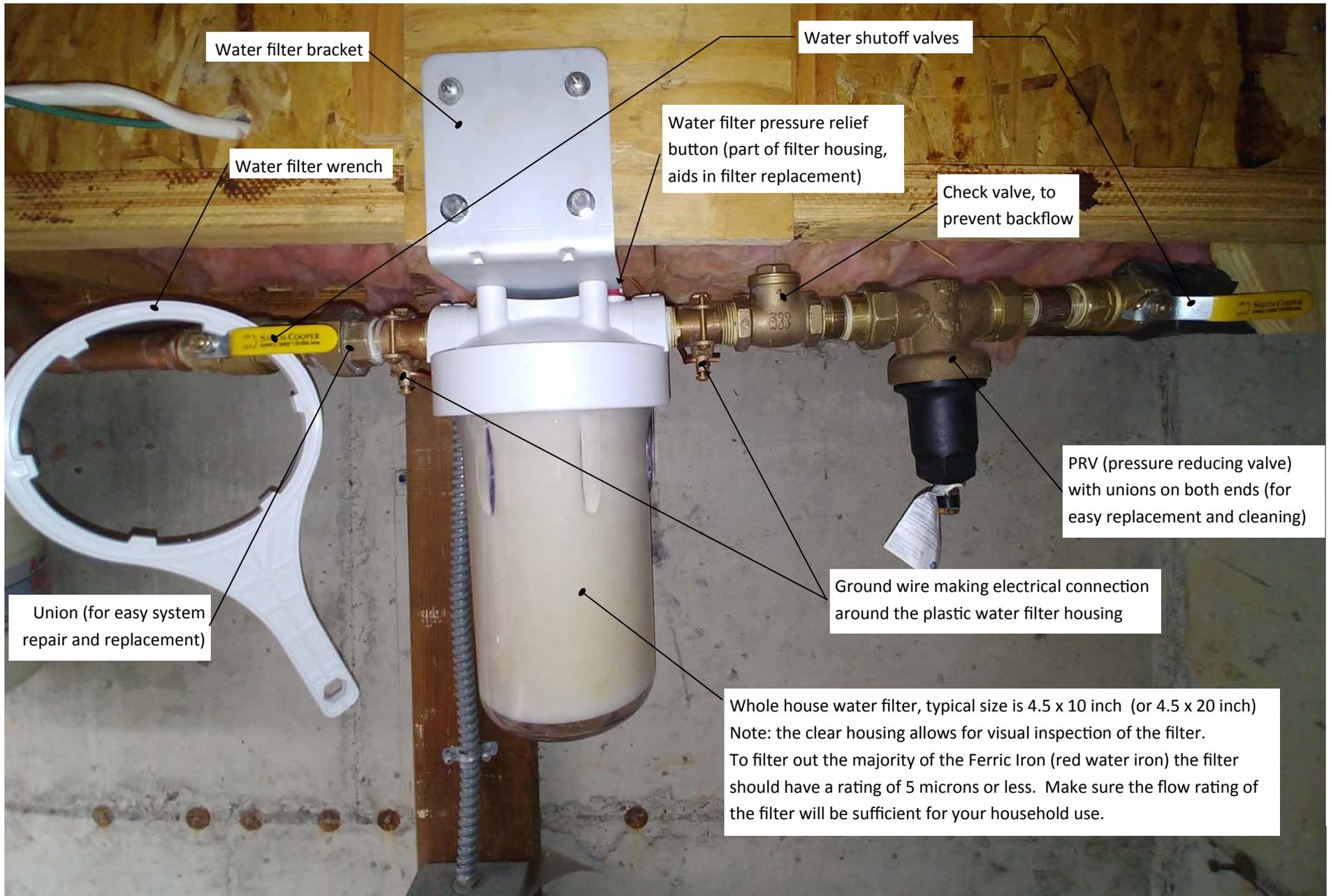
CHROMIUM: 0.020 / 0.001 LEAD: 0.001 / ND MERCURY: .0004 / ND NICKEL: 0.10 / 0.001 SELENIUM: 0.01 / ND SILVER: 0.10 / ND THALLIUM: 0.002 / ND

ZINC: 0.200 / 0.016

## Simple Whole House Water Filter

Example of a whole house water filter and PRV installation in a utility room, basement, or crawl space.

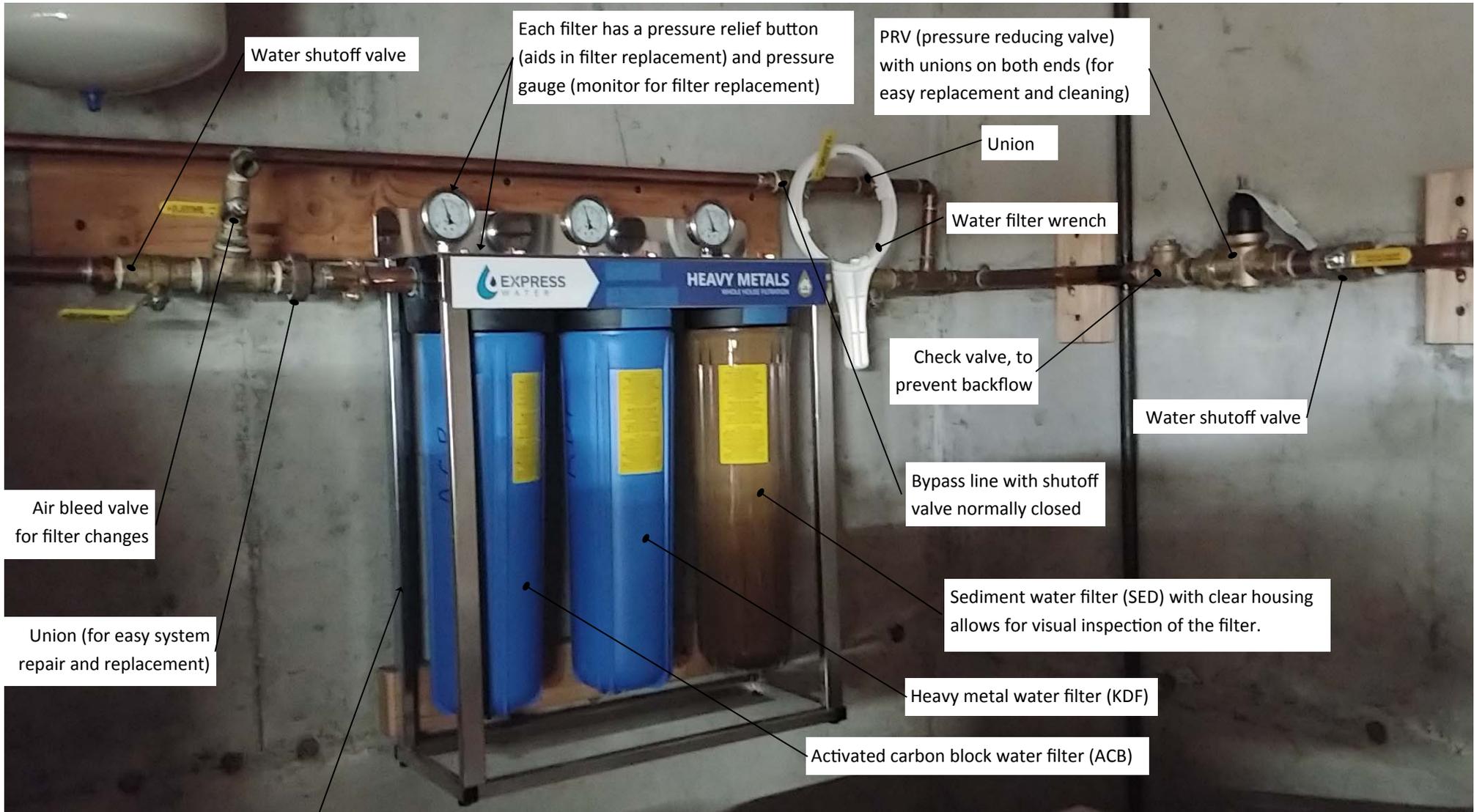
Note: The water filter shown (rated at 1 micron at 10 gal/min) will filter out the majority of Ferric Iron (also known as red water iron, this is the iron that has been exposed to oxygen and precipitated out of solution). This filter will not remove Ferrous Iron (also known as clearwater iron, this is the iron that remains in solution).



# Heavy Metals Three Stage Whole House Water Filter

Example of a whole house water filter and PRV installation in a utility room, basement, or crawl space.

Note: The water filter system shown is rated at 5 microns at 15 gal/min. See sheet 1 for information on the filters.



Three Stage Whole House Water Filter with mounting bracket