



Why Use Heated Ultra-Purified(PPB) Water?

Heated Ultra Purified parts per billion (**PPB**) Type 1 Medical/Laboratory grade water takes cleaning performance to an entirely new level and is considered the **gold standard**. Traditionally used in pharmaceutical and semiconductor industries, PPB water is now emerging in window, facade, and drone-based cleaning.

Most operators in the cleaning industry use either unpurified water or water purified down to parts per million (**PPM**). The difference between these is measurable:

- **PPM-level water** – Clean, however still contains trace minerals and residues. Suitable for many uses but can leave behind spots or scaling over time.
- **PPB-level water** – Ultra-pure, 1000X cleaner than PPM. Absolutely no minerals, organics, or dissolved solids. Produces a flawless finish and extends the life of the surfaces being cleaned.

Key Benefits

1. Spot-Free Finish

- **PPM water:** May leave faint spotting or streaks as minerals dry.
- **PPB water:** No calcium, lime, silica, or other residues — guaranteed crystal-clear finish.

2. Superior Cleaning Efficiency

- **PPM water:** Cleans effectively but struggles with some ions and residues.
- **PPB water:** Dissolves dirt and ions up to 1000X better, ensuring faster, deeper cleans.

3. Longer-Lasting Clean

- **PPM water:** Residues can attract new dirt, shortening the clean cycle.
- **PPB water:** Leaves no residues behind, keeping surfaces clean for longer.

4. Zero Corrosion or Staining

- **PPM water:** May still contain small amounts of chlorides, sulphates, or minerals.
- **PPB water:** Free of all corrosive elements — no scaling, no staining, no premature material damage.

5. Environmental & Safety Benefits

- **PPM water:** Can reduce some chemical needs.
- **PPB water:** Often eliminates chemical use entirely, lowering environmental impact and exposure.

6. Professional Quality & Client Satisfaction

- **PPM water:** Delivers good results.
- **PPB water:** Delivers unmatched results, higher client satisfaction, and a new professional standard.

PPB water is set to become the industry benchmark for warranties and premium cleaning.

Water Purification Comparison

Feature	Tap Water	Standard RO (PPM)	Ultra-Pure RO (PPB)
Purity Level	50–500 PPM (varies by source)	~1–10 PPM	<0.01 PPM (Parts per Billion)
Mineral Content	High – calcium, lime, silica, etc.	Low – most removed	Zero – no minerals or residues
Cleaning Result	Leaves spots, streaks, and scaling	Clean finish, but minor spots may remain	Crystal-clear, spot-free finish every time
Efficiency	Requires chemicals and detergents	Reduced chemical use	Often no chemicals needed – 1000X more effective
Surface Protection	Can damage glass, joinery, and coatings	Reduced damage risk	Zero corrosion, no staining, preserves warranties
Environmental Impact	High chemical and detergent use	Lower chemical use	Minimal or no chemicals – eco-friendly & safe
Client Satisfaction	Low – visible imperfections	Good – cleaner than tap water	Highest – professional, flawless results
Use Case	Everyday water	General cleaning	Professional-grade facade & drone cleaning

Key Takeaway

- **Tap Water:** Cheap but leaves minerals, stains, and scaling.
- **RO (PPM):** A big improvement, suitable for most cleaning tasks.
- **Ultra-Pure RO (PPB):** 1000X purer than PPM, delivering the best possible finish.

The future of cleaning is here.