

EPIC MINI BUNDLE SETUP GUIDE



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This manual covers:

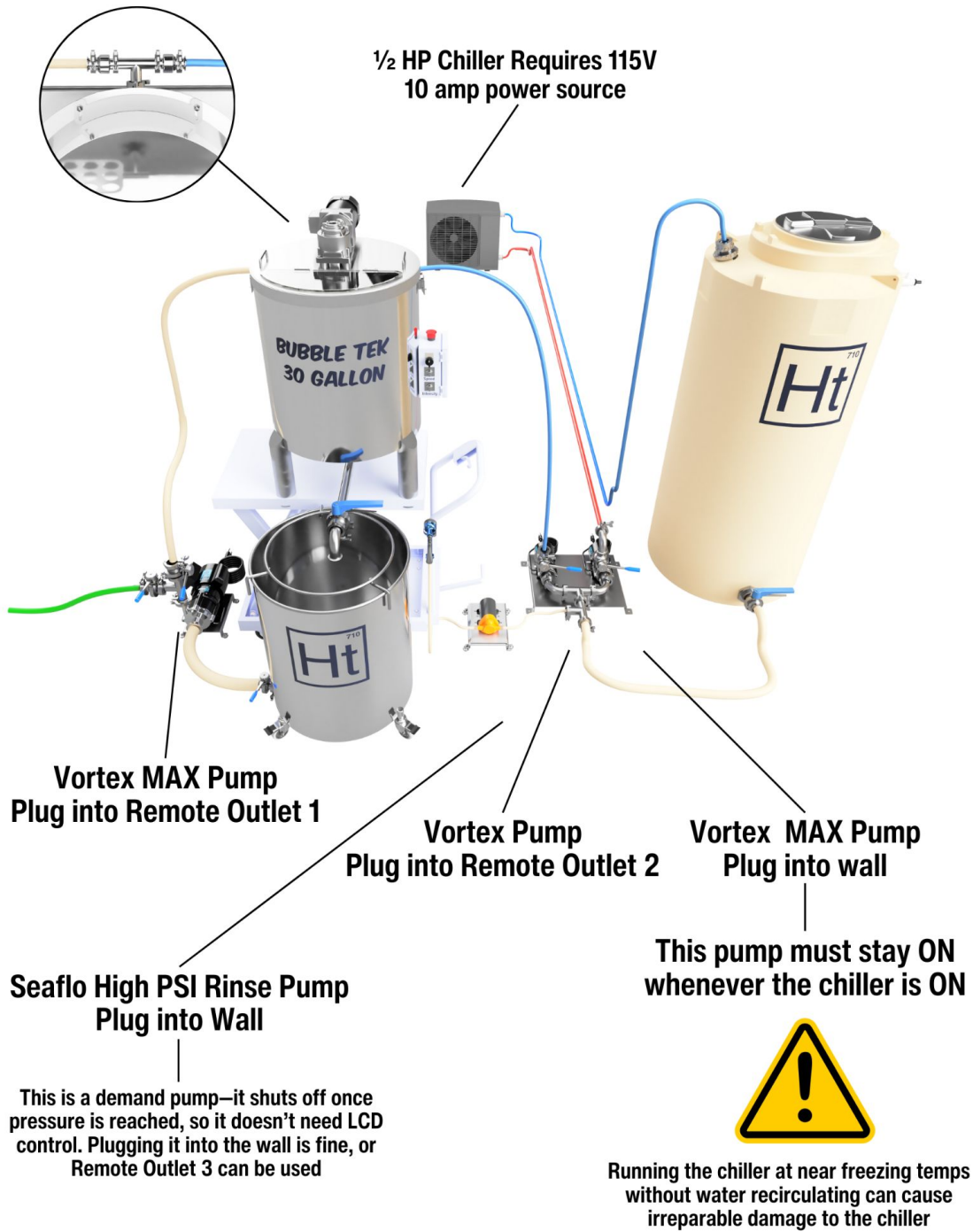
- **Hashtek Epic Mini Bundle (20 & 30 Gallon)**
- **Craft Chill Kit (160 Gallon)**

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SETUP - PUMPS

This manual covers both standalone Craft Chill Kits and the Epic Mini Bundle shown below



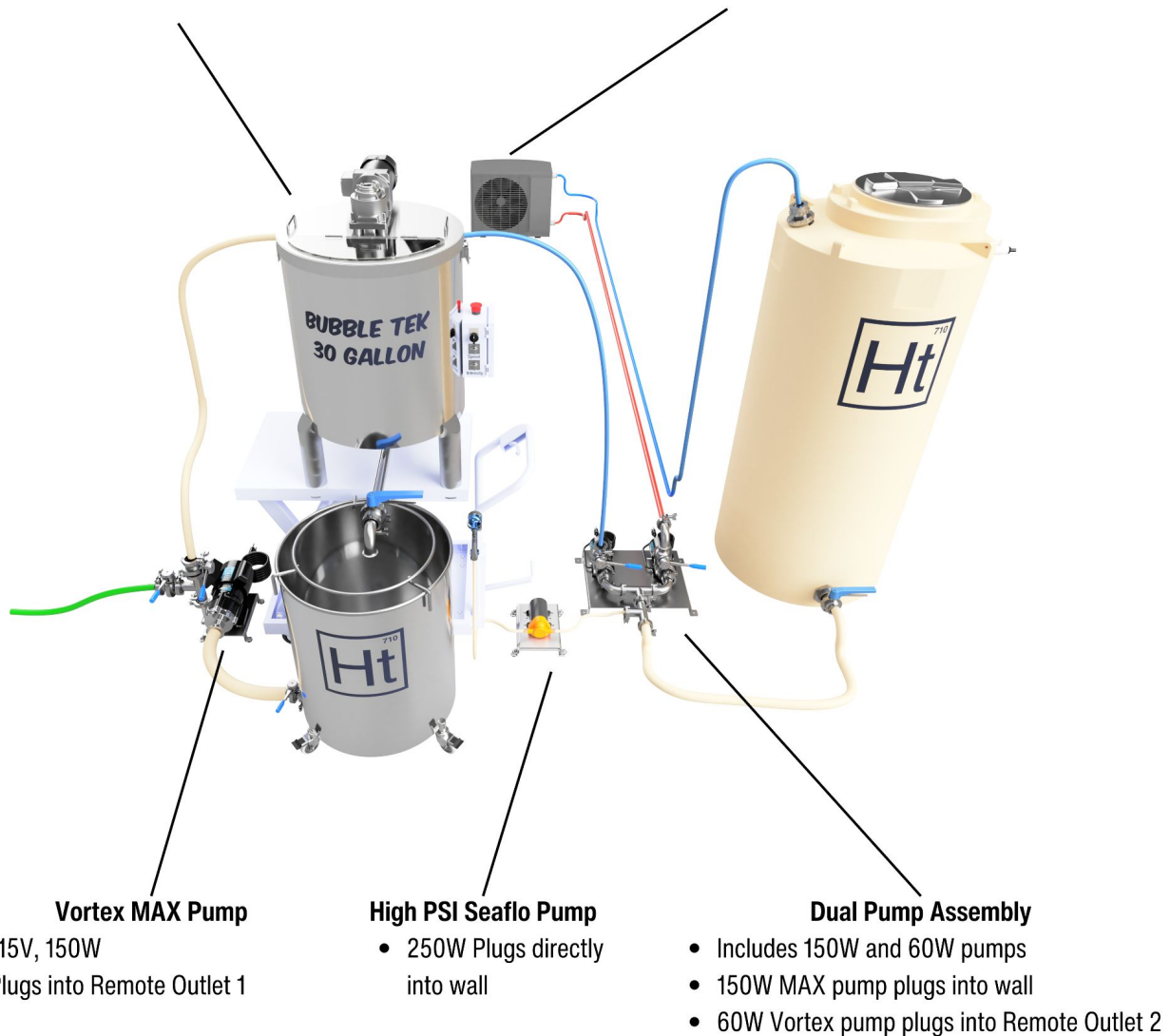
SETUP - ELECTRIC

BubbleTek Agitator (20 or 30 Gallon)

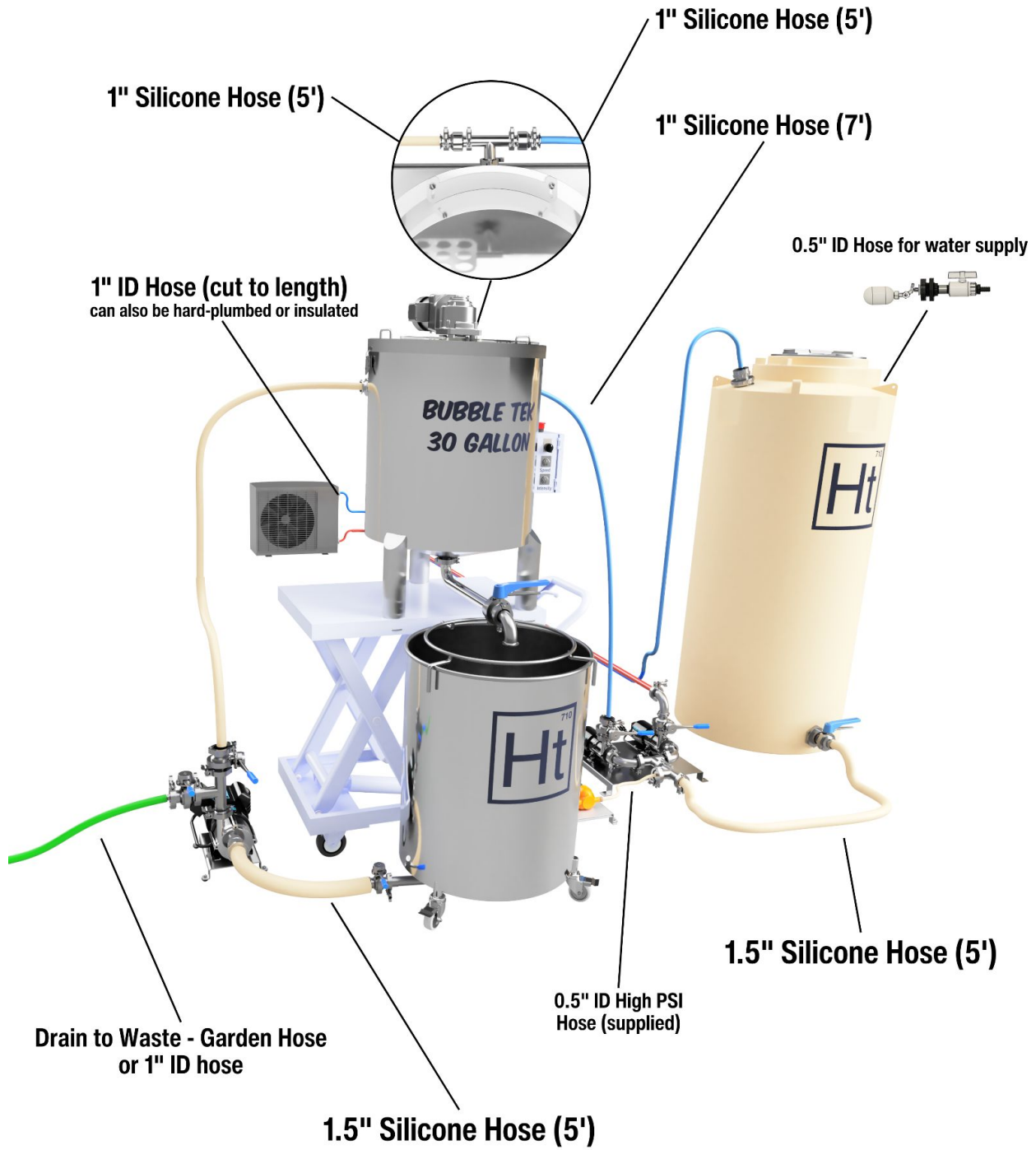
- 115V, draws up to 5A

½ HP Chiller

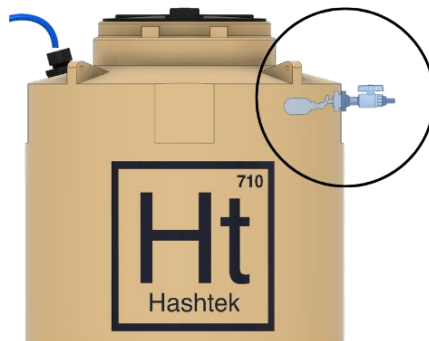
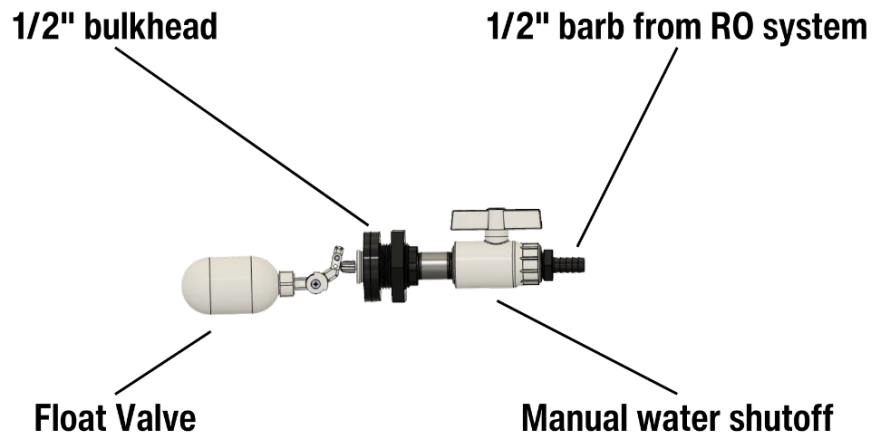
- 120V, draws up to 7A



SETUP - HOSES



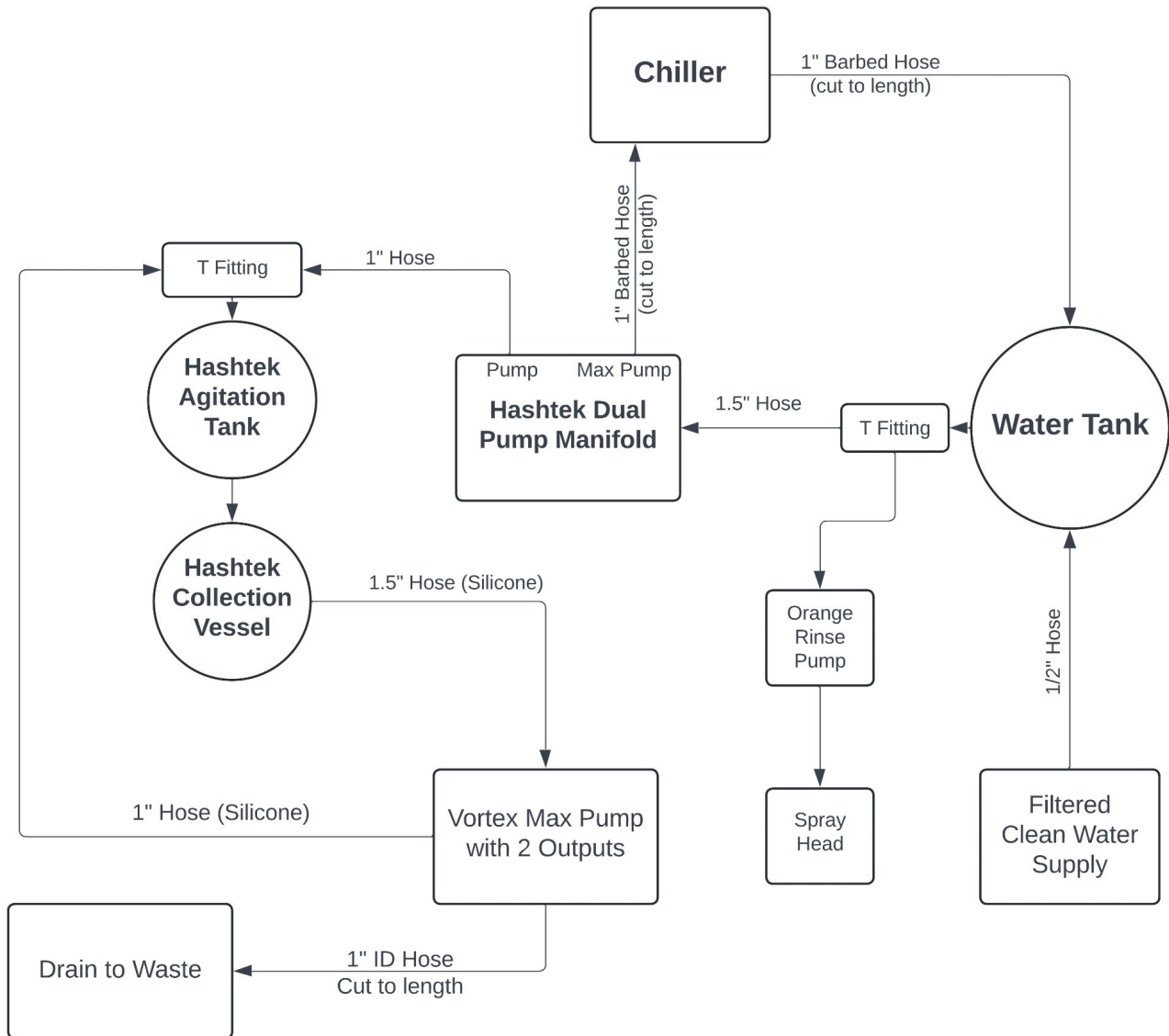
SETUP - FLOAT VALVE



Use Supplied Teflon tape on all threads to ensure a leak free seal

PROCESS DIAGRAM

For those who prefer a process-oriented view, here's a diagram illustrating the water flow through the system.



CHILLER SETUP

The chiller is typically placed **outside the cold room**, but placement depends on your climate.

⚠ Freezing Hazard (Cold Climates Only):

If outdoor temperatures drop below 0 °C (32 °F), water left in the chiller can freeze, crack the heat exchanger, and permanently damage the unit. To prevent this:

- Keep water continuously **recirculating** whenever the chiller is running, or
- **Drain the chiller completely** after each use.

This is not a concern in warm regions (e.g., Arizona), but in cold climates failure to follow these precautions can result in costly, irreversible damage not covered under warranty.

Many operators place the chiller indoors in a **separate mechanical room** to avoid freezing risks and to reduce heat load on the wash lab. If placed directly in the lab, keep in mind it will add heat to the space and increase AC demand.

Connecting the Water Lines

- The “inlet” and “outlet” ports on the chiller ship with **rubber grommets** installed on the plugs..
- Remove the black rubber grommet from the plug and put it on the PVC tube, then slide the included **white PVC pipe** about 1" down into the port.
- Tighten the gray fittings as shown in the images below.



COMPONENTS CRAFT CHILL KIT

Water Chiller

- **1/2 HP compressor**
- Integrated water flow/temp sensor (prevents HX freeze-up)
- LED controller with precise temp control
- Integrated RO-compatible heat exchanger
- Cools 160 gal from 70 °F → 36 °F in ~14–18 hrs
- Best at ambient air temps ≥ 45 °F (not recommended outdoors in freezing climates)
- Power: 200–120 V single phase (6 A draw @ 120 V)
- Refrigerant: **R410A**

Recirculation System

- **1x Hashtek Vortex Pump**
- **1x Hashtek Vortex Max Pump**
- Dual pump stand + 304 SS manifold
- 2 × 25' braided silicone food-grade recirc hoses (1" ID)
- 1 × 4' silicone hoses (fill / rinse line) (1" ID)
- 1 × 7' silicone hoses (fill / rinse line) (1.5" ID)
- Complete set of **Tri-Clamp fittings, gaskets, valves, and adapters**

Water Tank

- 160 gal tank option
 - 28" diameter × 66" high
- 3x poly bulkhead fittings
- Auto-shutoff float valve refill system

Insulation Options

- **≤ 36 °F rooms:** not required
- **36–50 °F:** neoprene jacket
- **> 60 °F ambient:** 1" Armacell closed-cell insulation wrap (R-4.2)
 - Adds 2" OD (300 gal → 37" OD, confirm door clearance)
 - Best applied locally after installation to avoid shipping damage

COMPONENTS EPIC BUNDLE

Please see the A-Series Manual for full directions on the A-Series Unit

- **BubbleTek Agitator (20 or 30 Gallon)**
 - 20 or 30-gallon tank, 25b or 30b paddle
 - 500 Micron Mesh Basket
 - Includes Check Valve Kit & Butterfly Valve Kit
 - Custom wooden crate for shipment
- **Hashtek Collection Vessel (25 or 45 gal)**
 - Filter screen allows ice in vessel under collection bags
 - Conical bottom drain
 - Locking Stainless Caster Wheels (no dollies)
 - Hashtek bag adapter for sidewall separation
- **Recirculation Pumps**
 - **Vortex Pump** – 14 GPM / 14' head
 - Sanitary magnetic drive, pump stand included
 - Wireless **Remote Control** Outlet Kit
- **Hoses & Fittings**
 - Platinum-cured sanitary silicone hose (1.5" low-pressure, 1" high-pressure)
 - Smooth, clear, braided, food-grade, resin-resistant
 - T-Fitting w/ dual butterfly valves (recirc ↔ drain)
 - TC→garden hose adapter (hose not included)
 - 4x Quick Disconnect Sets (expandable)
- **Accessories**
 - Staggered 20 gal Collection Bag Set (220, 190, 160, 140, 120, 90, 73, 45μ)
 - Rinse Pump Combo (55 GPM pump, spray head, hoses, TC tee kit, stand)
 - Pre-Soak Screen (for rehydration / ice-less washing)
 - 12x Tri-Clamps with silicone gaskets
 - 1x Sight Glass
 - 1x Collection Spoon
 - 1x Hashtek Scoop
 - 1x LCD Screen Protector (LCD models only)
 - 1x Dual Input TC Kit

INTRODUCTION

The **Hashtek Epic Mini Bundle** combines the **BubbleTek agitator** with the **Craft Chill Kit** to create a fully integrated wash system.

- **Applications:** Cannabis trichomes, hop lupulin glands, other botanical extractions requiring cold clean water on demand.
Advantages: Stable water temps, decreased ice consumption, efficient resin separation, simplified workflow.
- **Craft Chill Kit Role:** Maintains 36-37 °F process water for consistent results.

SAFETY

- **Do not set below 36 °F (2 °C).** Heat exchangers can freeze and crack. And once there is a layer of ice efficiency drops anyways so there's no point.
- **Water first → then chiller.** Pumps must always run when chiller is ON.
- **Shutdown:** Chiller OFF → keep pumps running 5 minutes → pumps OFF.
- **Power Requirements:** Use grounded outlets only. All components are configured for standard 110V power unless the 220V configuration was specified at the time of order for international use.
- **GFCI:** VFDs may nuisance trip GFCIs; consult a licensed electrician if required.

OPERATING INSTRUCTIONS

1. Pre-Check ✓

- Secure all **Tri-Clamp fittings** and gaskets.
- Verify hoses are connected to inlet/outlets as per setup diagram.

2. Filling 💧

- Fill tank with **RO or Filtered water**
- Auto-shutoff float valve stops fill — check for leaks.

3. Start-Up ⚡

⚠ **Always start pumps before the chiller.**

1. Pumps ON → confirm steady return flow.
2. Hold UP until temp flashes, then use DOWN to set 36°F.
3. Set chiller to **36 °F (2 °C)**.
4. Turn chiller ON only after flow is confirmed.



4. During Operation ↻

- Maintain **visible return flow** at all times.
- Throttle or pause **refill water** if large temp swings occur from hot ground water or heavy top-ups.
- ⚠ **If chiller won't reach setpoint / plateaus:**
 - Likely **ice in the heat exchanger**.
 - Perform a thaw cycle: chiller OFF, pumps ON for ≥ 15 min (up to 1 hr for stubborn freezes, depending on water temp).
- **To fill the agitation tank**, open the left valve on the dual pump manifold and switch on that pump (labeled "Rinse" on LCD models for clean water).

5. Shutdown ◻

1. Chiller OFF.
2. Pumps run 5 min to flush HX.
3. Pumps OFF.
4. For storage > 1 week: drain, clean, and dry (see Cleaning & Storage).

CLEANING & STORAGE

Routine Cleaning 🧼

- Recirculate a **diluted OxiClean or peroxide solution** through the system (same as cleaning a Hashtek agitator).
- Flush thoroughly with clean water multiple times – **repeated rinsing is essential**. Because the tanks are not conical, a small amount of liquid always remains and must either be **sucked out manually** (shop vac or Seaflo pump) or diluted by repeated rinses.
- A **StarSan rinse** may be used to sanitize, but always finish with a clean-water rinse.

Short-Term Storage (≤ 1 week)

- **Option A – Sanitizer Stack:** Drain at least **80% of the water** before adding StarSan. This minimizes the sanitizer required to reach the correct pH. Hoses can then be stacked “wet.”
- **Option B – Cold Holding:** Many operators simply **leave the chiller running at 36 °F during production periods**. The consistently low temperature helps inhibit bacterial growth and usually proves to be the **most economical option**.

Long-Term Storage (> 1 week)

- Fully **drain and dry** the tank, pumps, and hoses.
- Store hoses on hooks to drip dry.
- Keep tank lid cracked or vent open to prevent condensation.
- Always store **clean and dry** to prevent microbial growth.
- The Seaflo rinse pump can be used as a wet vac to remove the last bit of water from the 160 gallon tank. Because it’s a diaphragm pump, it can pull both air and water without priming.



Best Practice:

Cold holding is efficient for production weeks, but always schedule a **full clean and rinse cycle at shutdown** to prevent buildup and ensure long-term reliability.

TROUBLESHOOTING & TIPS

Issue	Possible Cause	Solution
Chiller not cooling	Chiller not powered, setpoint too high, or low refrigerant	Check power and breaker, confirm setpoint $\leq 36^{\circ}\text{F}$, contact Hashtek if persistent
Plateau temp / won't reach setpoint	Ice buildup in internal heat exchanger	Perform thaw cycle: turn chiller OFF, keep pumps running ≥ 15 min (up to 1 hr for stubborn freezes)
Heat exchanger freeze / no flow	Setpoint $< 36^{\circ}\text{F}$ or pumps off while chiller ON	Raise setpoint; always run pumps before/after chiller; follow proper start-up/shutdown sequence
Pump cavitation / airlock	Air trapped in line after service or drain-down	Purge air at low-point, reprime pump; Seaflo diaphragm pump can help pull through air/water mix
Leaks at fittings	NPT threads not sealed properly or gasket wear	For threaded NPT fittings, apply multiple wraps of Teflon tape (4–5 wraps is common). For Tri-Clamp connections, inspect and replace worn gaskets, then re-clamp and pressure-test.
Weak or no flow	Blocked hose, kink, clogged filter	Inspect hoses and fittings; clear obstructions; ensure valves fully open

 **Tip:** Most performance issues trace back to **flow problems** (airlocks, restrictions, or ice in the heat exchanger). Always verify steady return flow before adjusting the chiller.

WARRANTY & SUPPORT

Warranty

- **1-Year Limited Warranty** covers the Craft Cold Water Tank & Epic Bundle.
-  **Freeze damage** (e.g., cracked heat exchanger) is not covered.
- Warranty void if pumps are run incorrectly (chiller ON without water flow).

Support

For service, parts, or RMA requests:

 **905-393-2941**

 **sales@hashtek.ca**

 Oakville, Ontario, Canada

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Water Filtration

Water quality directly affects resin yield and purity. Filtration requirements depend on your **starting water chemistry**:

- **Best Practice:** Obtain a water chemistry report (municipal suppliers often provide this free).
- **Ideal Range: 0–10 ppm** (essentially pure).
- **Acceptable:** Up to **~50 ppm**, if mostly harmless minerals (e.g., calcium carbonate).
- **Avoid:** Water above **100 ppm**, especially if it contains **chlorine, chloramine, or heavy metals**. These negatively impact resin quality, yield, and flavor.

RECOMMENDED PRODUCTS

Product	Image	Purpose	Purchase Link
Weiman Stainless Steel Cleaner and Polish		Keeps tanks looking shiny, removes water stains/fingerprints, prevents oxidation. Leaves a greasy layer, never use on inside of the tank.	Amazon.com Amazon.ca
Bar Keepers Friend		Polishing powder for stainless. Great for removing oxidation if you stored your tank wet. Cleans and passivates your stainless. <i>Strongly recommended for restoring stainless.</i>	Amazon.com Amazon.ca
StarSan Sanitizer		Run a dilute solution through the lines before storage to prevent microbial growth in the hoses. Starsan dilution ratio is 6mL/Gallon for storage we recommend 4ml/Gallon for rinsing through hoses before storage	Amazon.com Amazon.ca
OxiClean		Great for general cleaning of the system or first time cleaning after getting your unit from the Hashtek factory. Can be flushed through hoses and pump. Rinse well	Amazon.com Amazon.ca
Spin Scrubber		Designed for effortless tank cleaning, eliminating the need for heavy scrubbing or manual effort.	Amazon.com Amazon.ca

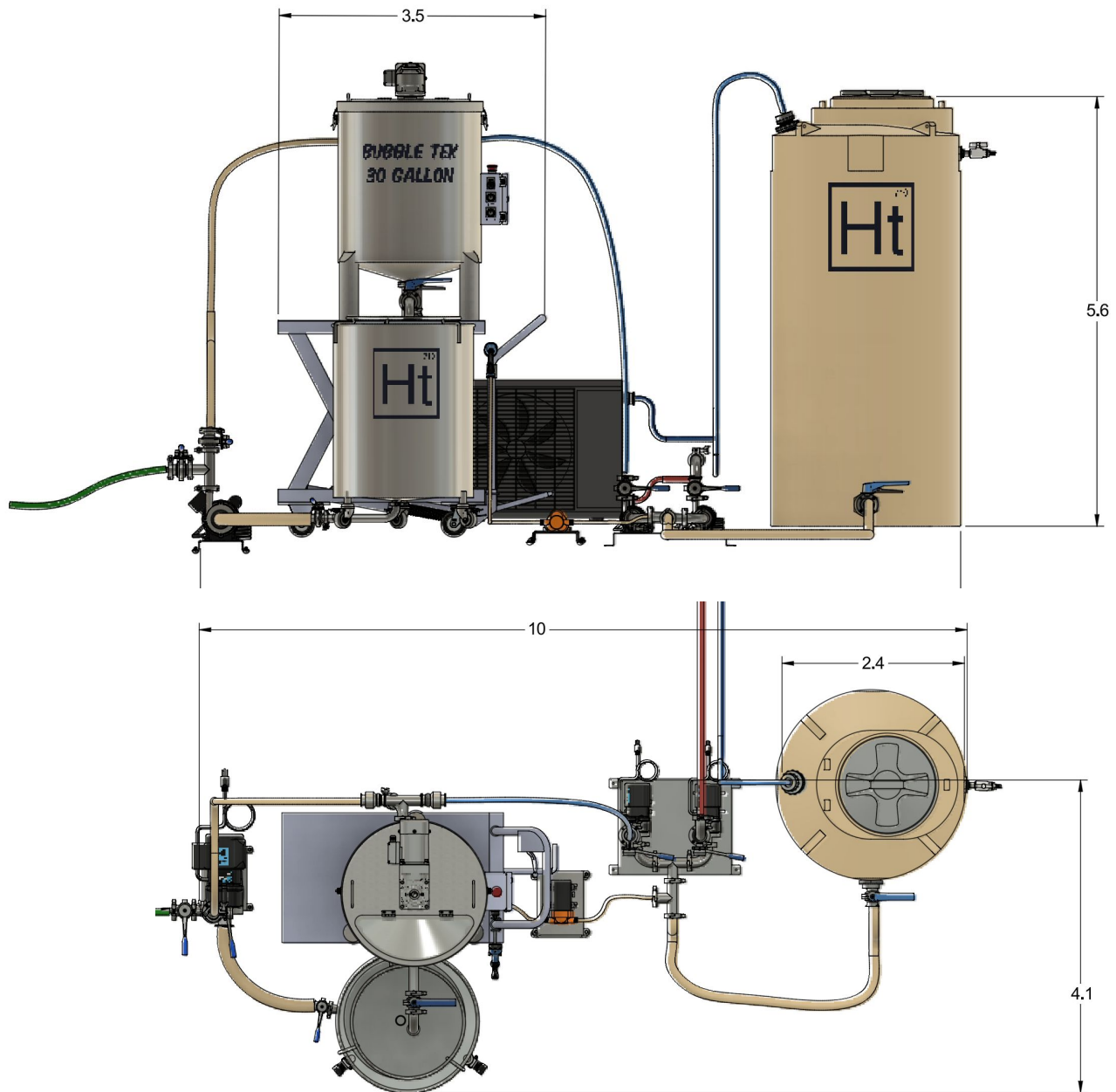
NOTES

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DIMENSIONAL DRAWINGS



Dimension in feet