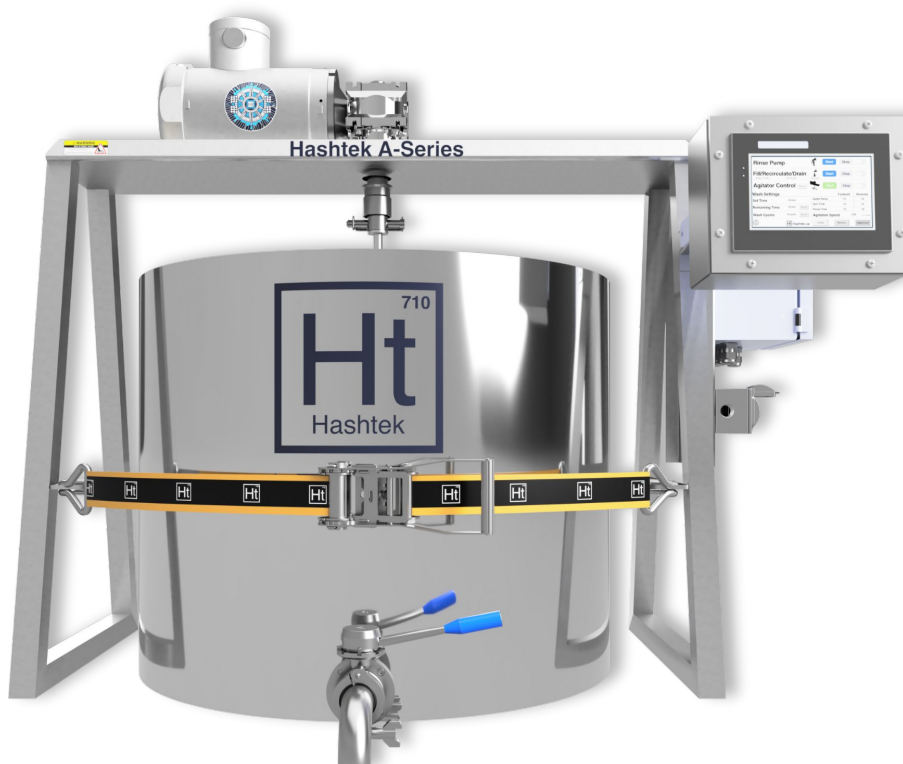


HASHTEK A-SERIES USER MANUAL



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This manual covers:

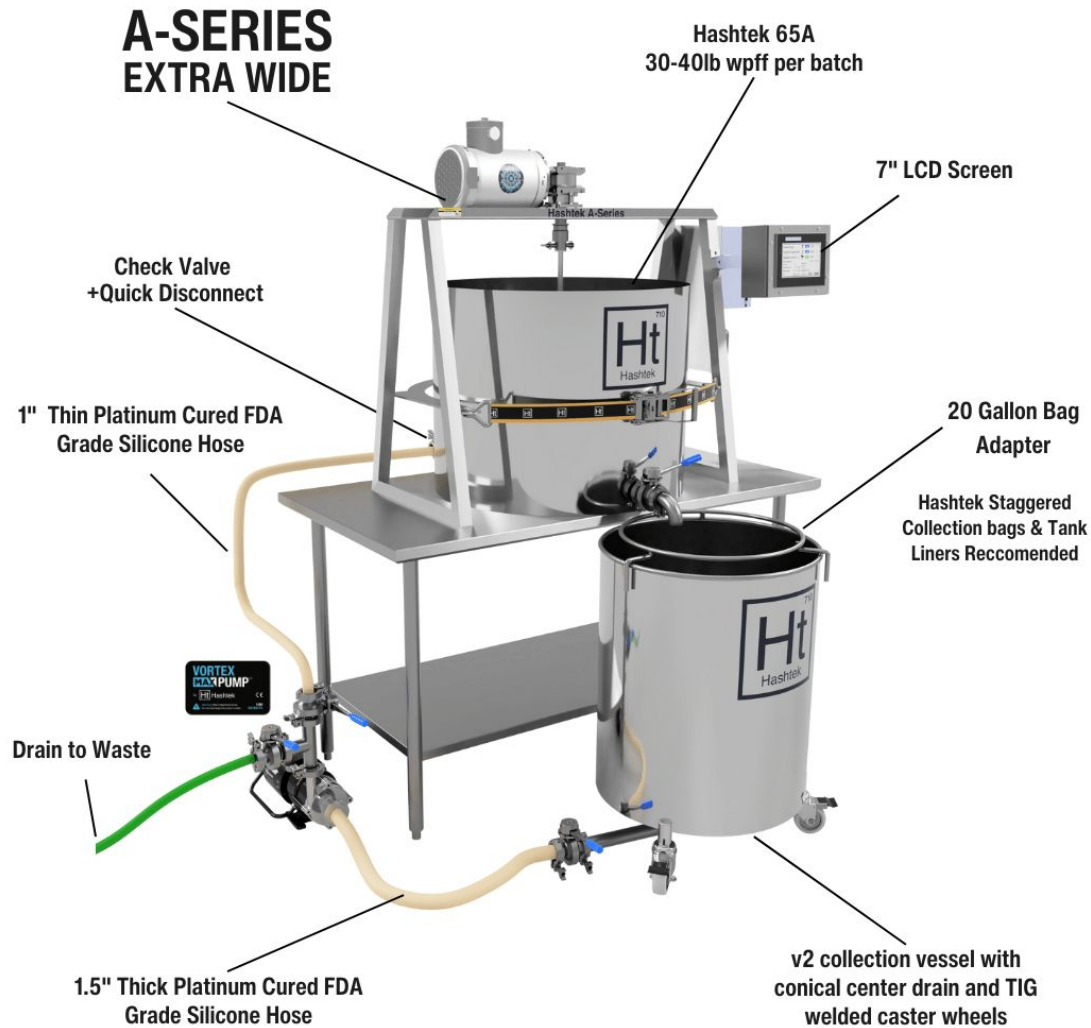
- **Hashtek A-Series Extra Wide** (Analog 2.0, LCD)
- **Tank sizes:** 30a, 50a, 65a

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SETUP DIAGRAM

This manual covers both standalone A-Series units and the Legendary Bundle shown below



GLOSSARY & TERMS

Agitation – Mixing process in the tank using the Hashtek paddle, designed to mimic gentle hand-washing.

Analog Control 2.1 – Dual-dial control system: one dial for speed, one for intensity (spin time, pause, ramp).

Bag Spreader – Holds filter bags open and prevents biomass from slipping below the false bottom.

Batch Style vs. Continuous Recirculation – Two washing methods: fixed-time mixing followed by draining, or constant cycling of water through collection bags.

Biomass – Plant material left in the tank after extraction.

False Bottom – Perforated stainless insert that separates biomass from trichome-rich water. Used in both agitation tanks and collection vessels.

LCD Control (7") – Touchscreen interface for precise control of agitation settings and presets.

Micron (μ) – Measurement of mesh size in filter bags (e.g., 45μ, 90μ, 220μ).

Recirculation Pump – Moves water between the agitation tank and collection vessel.

Trichome – Resin gland of the cannabis plant; contains cannabinoids and terpenes, target of extraction.

INTRODUCTION

- The Hashtek A-Series is a **high-torque, top-down agitation system** engineered for precision mixing and separation.
- Designed to replicate **gentle hand-washing agitation**, it excels at separating delicate trichome heads from cannabis without excessive plant damage.
- Built from **304 stainless steel** with washdown-rated motors, the A-Series is rugged, sanitary, and suitable for wet-room environments.
- Available in multiple tank sizes from **25 to 65 gallon**.

SAFETY



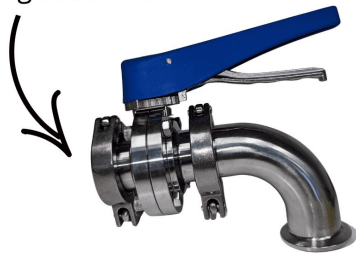
- **Never place hands or tools** inside the tank while the agitator is operating.
- **Always secure the tank with the safety strap** before use.
- Operate only in **dry, controlled environments**; avoid puddles or standing water near outlets.
- **Emergency Stop (E-Stop):**
 - Push red button to stop immediately.
 - Twist to release, then press *Reset* before restarting.
- **Electrical Safety:** Use grounded outlets. GFCI outlets may false-trip with VFD systems – consult an electrician for proper setup.
- **Cold Hazard** : Avoid direct skin contact with ice water or chilled fluids to prevent burns or frostbite.



QUICK START GUIDE

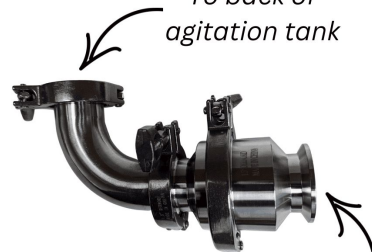
Butterfly Valve Kit

*To front of
agitation tank*



Check Valve Kit

*To back of
agitation tank*

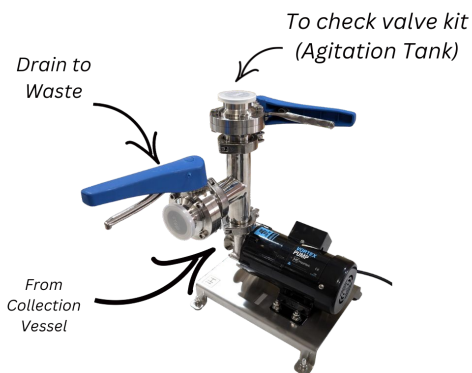


*To hose which connects to
recirc pump/3way valve*

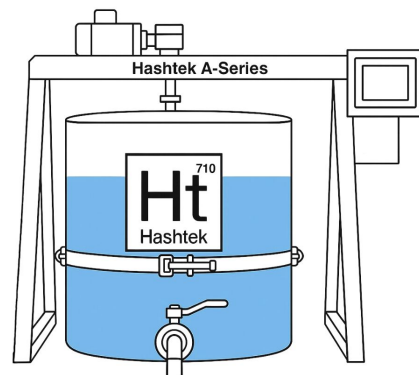
The 1.5" silicone hose runs collection vessel → pump (low-pressure), while the 1" silicone hose runs pump → agitation vessel (high-pressure).

Recirc Pump Kit

*Drain to
Waste*



Ideal Fill Level (75%)



Operator Tip: The most common mistake for new users—especially those upgrading from bottom-agitation systems—is **overfilling the vessel**. Maintain roughly **75% fill** for optimal performance.

SETUP & FIRST USE

Power Requirements

- **115V Power:** Standard A-Series units operate on 110–120V, 60 Hz at 9.8 amps, suitable for most North American outlets.
- **230V Power:** Units can be configured for 220–240V, 50/60 Hz if requested at time of production.
- **Pump Outlets (LCD Models):** Maximum combined load of 5 amps.
- **⚠ Note on GFCI Outlets:** Variable Frequency Drives (VFDs) used in the A-Series can cause nuisance trips on GFCI outlets. Where required by code, consult a licensed electrician about hardwiring or alternative protective devices.

Initial Cleaning (Before First Use)

Before beginning the cleaning cycle, connect all hoses and fittings using the supplied sanitary Tri-Clamps as shown in the setup diagram:

1. **Visually inspect the unit;** bolts rarely loosen in transit but confirm all are secure.
2. Fill the tank with **clean water**.
3. Add **OxiClean or peroxide-based cleaner** to the system.
4. Run the **agitator on Gentle or Medium** and use pumps to circulate the cleaner through the tank and fittings.
5. Rinse with fresh water until all cleaning solution is removed.
6. Allow components to **fully drain or air dry**.

Tank & Agitator Setup

1. For **30a and 50a tanks**, attach the **back brace adapter** to keep the paddle centered.
2. Place the **false bottom** in the agitation vessel.
3. Lean the tank against the **back brace** and secure it with the **safety strap**.
4. Install the **paddle** and lock it to the motor shaft with the connecting pin.
5. Insert a **tank liner** (if used).
6. Install the **bag spreader on top of the liner**.
 - Many operators use the bag spreader even without a liner to keep the false bottom from lifting during vigorous agitation.
7. Connect the **rinse and recirculation pumps** (LCD models only) to the appropriate outlets.

CONTROLS - LCD



Pump Controls

- **Rinse Pump:** On/Off for rinse pump.
- **Fill / Recirculate / Drain:** On/Off for recirculation & fill pump.
- **Agitator Control:** On/Off for the agitator.

Timer & Cycle

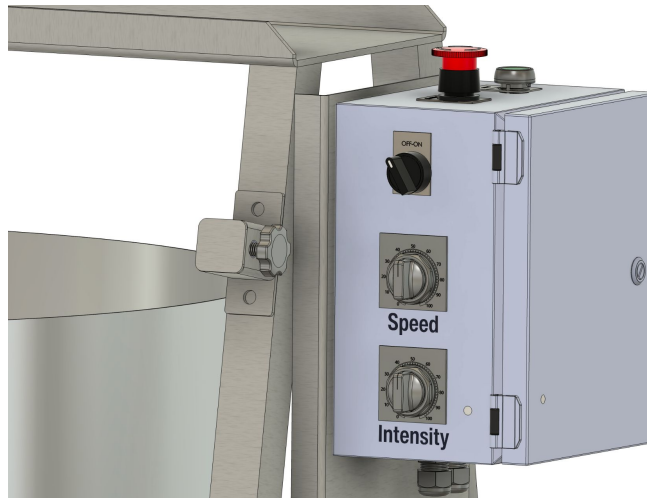
- **Set Time:** Duration of agitation (15–20 min for batch, 45–90 min for continuous).
- **Remaining Time:** Time left in current cycle.
- **Wash Cycle Counter:** Shows completed cycles, useful for batch processing.

Agitator Parameters

Adjust individually or use presets (*Gentle, Medium, Aggressive*). Presets can be customized.

- **Speed Ramp (3–40):** Ramp-up time. Lower = faster ramp (more aggressive).
- **Spin Time (3–40):** Seconds per direction. Lower = quicker reversals (more aggressive).
- **Pause Time (0–40):** Delay between reversals. Longer = gentler, shorter = more aggressive.
- **Agitation Speed (0–100):** Paddle speed. Higher = stronger agitation.

CONTROLS - ANALOG CONTROL 2.1



Overview

Analog 2.1 keeps the simplicity and affordability of analog control while adding more precision. Features are informed by LCD system data to give a smoother, more responsive experience.

Dial Functions

- **Speed Dial:** Adjusts paddle rotation speed.
- **Intensity Dial:** Controls a combination of spin time, pause time, and speed ramp.
 - Increasing intensity = **shorter spin time, shorter ramp, faster paddle speed** → more aggressive agitation.

Smart Scaling System

- Automatically adjusts forward/reverse times and ramp values based on intensity.
- Ensures consistent, intuitive performance without complex programming.

User-Friendly Layout

- Front-mounted dials for easy access.
Convenient for setups where the unit is placed against a wall or in tight spaces.

OPERATION - WASHING

Loading & Pre-Soak

- **Water Temperature:** We recommend starting with cold water (32–36 °F / 0–2 °C). If water is not pre-chilled, add a thin ice layer first and allow time to chill.
- **Ice Guidance:** Add just enough ice to maintain temperature. Excess ice reduces agitation efficiency — limit to 2–4 kg in the agitator.
- **Fill Level:** Recommended fill is about **75% of tank capacity**, typically **to the top of the paddles or an inch above**. Overfilling can cause overflow and limit aggressive mode performance.
- **Material Loading:**
 - **Fresh Frozen:** Soak 2–10 minutes before starting agitation.
 - **Dry Material:** Soak 20–90 minutes, or pre-rehydrate externally for best results.
- **Capacities:**
 - **65a tank:** 30–40 lbs fresh frozen (scale down proportionally for 50a and 30a).
 - Avoid overfilling — too much biomass or ice reduces separation quality.
- **Bag Spreader:** Prevents false-bottom lift and keeps biomass above the screen. Always confirm it is installed before operation.
- **220 µ Tank Liner:** Recommended for trim runs to simplify cleaning and emptying. Whole flower can be run without a liner, but the **bag spreader must always be installed**. Without it, the false bottom may lift during vigorous agitation, risking contact between the paddle and the false bottom.

Agitation

- **Start Slow:** Begin at low speed and intensity for the first 1–2 minutes to allow material to saturate evenly.
- **Ramp Up:** During the first 2–10 minutes, gradually increase speed and intensity until the material is fully hydrated — typically indicated by a light foam forming on the surface of the water.
- **Maintain and Ramp Down:** Once fully hydrated and incorporated, reduce to the desired agitation level to maintain consistent back and forth movement without overworking the material.
- **Yield vs. Quality:** Longer or more aggressive washes increase yield but also raise the risk of contaminants — balance accordingly based on your product goals.
- **Total Agitation Time:** Typically varies between 30 min to 120 minutes depending on desired quality/yield and batch size (larger batches take longer)

OPERATION - FILTERING

Rinsing & Sieving

After decapitation, trichome heads must be filtered from the wash water and rinsed.

Collection Vessel Bag Setup: Use the Hashtek staggered bag system on the bag adapter above the collection vessel, the bags should be arranged in descending micron order (e.g., 220 μ → 160 μ → 90 μ → 45 μ). Narrower ranges yield higher purity.

Rinsing: Perform sieving and pull to freeze dryer trays in a separate vessel either the **Hashtek Sieving Vessel** or a **separate 20-gallon Brute**. Use a **spray head** to rinse each bag before collecting, removing foam, dust, and impurities for clean, distinct fractions.

Batch vs. Continuous Recirculation

- **Batch:** Mix for a set duration (typically ~15 minutes), then drain trichome-rich water for collection.
- **Continuous:** Water cycles constantly during agitation, pulling trichomes away immediately through the recirculation loop.
 - **Benefits:** Higher efficiency, fewer pulls overall.
 - **Requirements:** Close monitoring to prevent bag overfill.
 - **Recommended Flow:** Match outflow to pump inflow rate

TIP: *Keep water moving to prevent resin “sandbanks” under the false bottom — once resin settles, it builds on itself.*

Recirculation vs. Drain-to-Waste

Outdoor Material: Drain and replace the first wash (removes dust and debris). Typically replace with fresh water 3-4 times per wash.

Indoor Material: Often clean enough to reuse wash water for multiple pulls.

Biomass Removal

Drain water fully, then use the **included blue scoop** to remove spent biomass. Many operators use the **tank liner with bag spreader** to simplify emptying, especially on larger tanks.

💡 Search “**Hashtek A-Series**” on **YouTube** to watch Aleks run the machine — it’s worth a million words.

CLEANING & STORAGE

Regular Cleaning (Before Storage)

1. Drain all water from the tank.
2. Rinse tank, false bottom, and paddle with clean water.
3. Add a **diluted OxiClean or peroxide-based cleaner** and fill tank partway.
4. Run the **agitator on Gentle or Medium** for 5–10 minutes to circulate the cleaner.
5. Rinse thoroughly with clean water until no residue remains.

Deep Cleaning (Weekly or As Needed)

- Disassemble paddle, false bottom, and fittings.
- Circulate **isopropyl alcohol (ISO)** or food-safe detergent to break down resin.
- Use **Bar Keepers Friend** to remove stainless oxidation if required.
- Rinse thoroughly and allow to **air dry** or wipe with lint-free cloths.

Storage

- **Short-Term (1–5 days):**
 - Leave hoses filled with **diluted StarSan** solution.
 - Store false bottoms/screens dry.
 - Before reuse: rinse 2–3x with clean water.
- **Long-Term (weeks+):**
 - Fully disassemble, clean, and dry all parts.
 - Store tanks open to air, not sealed, to prevent condensation and odor.

Pro Tips

- Avoid **standing water** in hoses or fittings — it can cause biofilm buildup.
- For tilt models, clean hinge points regularly to prevent stiffness.
- A quick wipe with **Weiman Stainless Cleaner** keeps tanks looking new.

TROUBLESHOOTING & TIPS

Issue	Possible Cause	Solution
Excessive Foam	Pump running dry or pulling air	Turn off pump before water level reaches zero; refill tank before restarting.
Pump Not Recirculating	Airlock in pump or hoses	Open drain valve briefly to purge air; ensure hoses are fully primed.
Low Flow / Weak Recirc	Clogged bag or restricted hose	Check bags for clogging; clear or swap hoses; reduce flow rate.
Agitator Not Starting	Emergency stop engaged or timer not set	Release E-Stop, press Reset, and confirm timer or dials are active.
Clicking Noise (Gearbox)	Normal break-in process	Noise usually resolves with use; contact support if it persists after 20+ hrs.
Breaker Trips	GFCI outlet nuisance tripping with VFD motor	Use a non-GFCI outlet or consult an electrician for proper wiring.
False Bottom Lifting	Vigorous agitation without bag spreader	Install bag spreader to secure false bottom.

Tips

- **Start slow:** Gradually increase speed as material hydrates to avoid contamination.
- **Monitor bags:** Check for clogs during recirculation, especially in continuous mode.
- **Outdoor material:** Drain the first wash; refill with clean water for subsequent pulls.
- **Two-person lift:** Always team-lift 50a and 65a tanks to prevent injury.

NOTES

(use sharpie)

ADVANCED OPERATING TIPS

Preventing Resin Build-Up

Resin under the false bottom usually happens when **continuous recirculation isn't used**. Keep water moving to carry trichomes forward. If buildup occurs, do a quick rinse: leave bags in place, remove biomass, tilt the tank, and spray down.

Water Level & Overflow

A good starting point is filling the tank to the **top of the paddles** (~1" submersion on the 65a, slightly deeper on smaller tanks). If the tank overflows, lower the water level, reduce agitation speed, or edit the Gentle/Medium/Aggressive presets. Reducing ice use also frees capacity.

Ice Guidelines

Do not overload with ice. **Slush around the false bottom = too much ice**. Limit to ~4 kg. Ideally pre-chill water and run with little or none.

Wash Time

No universal setting—depends on material and goals. Riper plants release heads more easily. Longer agitation increases yield but also contaminants. Many operators split SKUs: **melt/resin** for top grade, lower fractions for edibles/combustibles.

Water Filtration

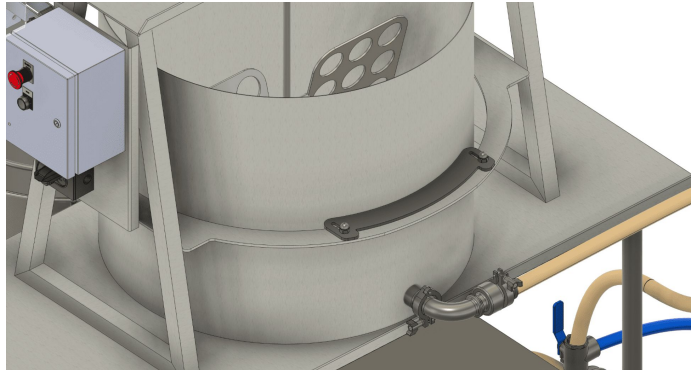
Water quality directly impacts yield and flavor.

- **Ideal:** 0–10 ppm (essentially pure).
- **Acceptable:** Up to ~50 ppm if mostly calcium carbonate.
- **Avoid:** >100 ppm, especially with chlorine, chloramine, or heavy metals.
Start with a **water chemistry report** (often free from municipalities).

A-SERIES - BACK BRACE ADAPTERS

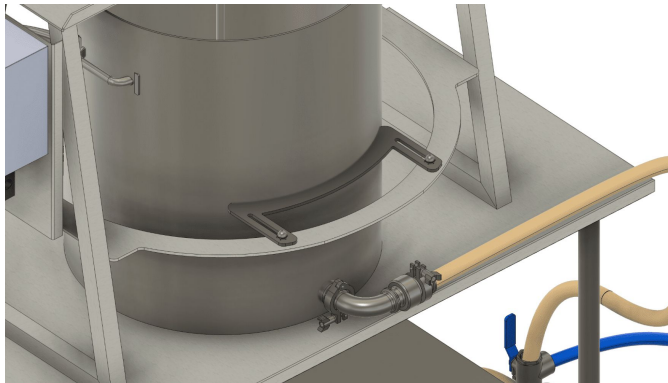
65a Back Brace

The 65a back brace adapter accommodates up to 1" of insulation, making it compatible even with tanks wrapped in thick custom insulation.



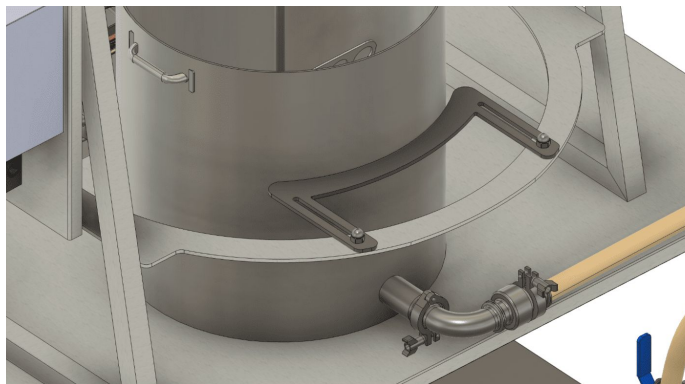
50a Back Brace

Designed for the 50a tank (23.75" OD). Adjustable for ODs 23.5"–30".



30a Back Brace

Fits 25a, 30a, and 50a tanks. Adjustable for ODs 19.5"–30". Not recommended for 65a tanks, as the required extension may prevent wall placement.



A-SERIES LCD - EDITING PRESETS

Mode	Fwd Time	Rev Time	Fwd Ramp (Accel)	Rev Ramp (Decel)	Speed
LCD Display range	3-40	3-40	3-40	3-40	0-100 %
PLC Values	3-40	3-40	30-400	30-400	1000-6000
Gentle	10	10	30 (300)	30 (300)	20 (2000)
Medium	5	5	10 (100)	10 (100)	50 (3000)
Aggressive	3	3	5 (50)	5 (50)	60 (3600)

The factory presets (*Gentle, Medium, Aggressive*) provide reliable starting points for most users. Adjusting them is recommended only after gaining familiarity with the system and should be treated as an advanced option for fine-tuning agitation.

Display Scaling

- **FWD/REV Ramp:** Multiply displayed value ×10 for PLC values.
- **Speed:**
 - 0% = 1000
 - 100% = 6000

LCD Range: 3–40 (time, ramps) / 0–100% (speed)

PLC Values: 3–40 (time) / 30–400 (ramps) / 1000–6000 (speed)

Settings & Warnings ⚠

- Defaults are optimized for the **65a model**. For smaller tanks you may slightly increase speed to account for lower paddle tip velocity on smaller diameter paddles..
- **Minimum values:** FWD Time, REV Time, and Ramps must all be ≥3 seconds.
- Running below 3 seconds risks **gearbox damage** and **voids warranty**.

A-SERIES LCD - EDITING PRESETS

Rinse Pump



Start

Stop

☐

Fill/Recirculate/Drain



Start

Stop

☐

Agitator Control



Reset

Start

Stop

☐

Wash Settings

Multi Direction

FORWARD

REVERSE

Set Time

00 min

Speed Ramp

0

0

Remaining Time

00 min

Reset

Spin Time

0

0

Wash Cycles

0 pulls

Reset

Agitation Speed

Gentle

Medium

Aggressive

Edit Presets

[illegible][illegible]

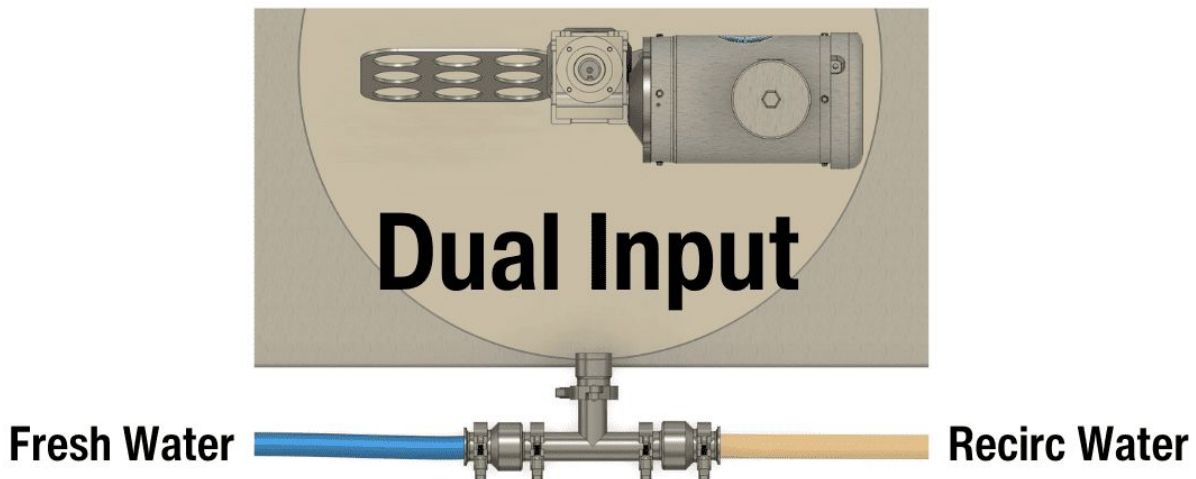
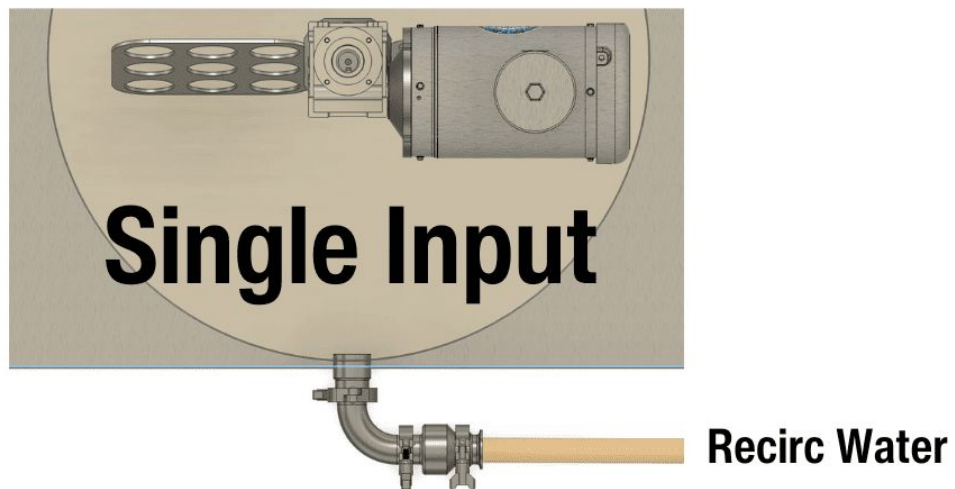
Agitator Settings		
	REV/RAMP	SPEED
1 Gentle	300	2000
2 Medium	100	3500
3 Agressive	50	4500

When the 'Edit' Button is white the fields are editable

The screenshot shows the 'Agitator Settings' window. It contains a table with three rows and two columns: 'REV/RAMP' and 'SPEED'. The rows are labeled '1 Gentle', '2 Medium', and '3 Agressive'. The values in the 'REV/RAMP' column are 300, 100, and 50 respectively. The values in the 'SPEED' column are 2000, 3500, and 4500 respectively. Below the table, there is a control panel with several buttons. The 'Edit' button is highlighted with a red arrow, indicating it is white and therefore the fields are editable.

SINGLE INPUT VS DUAL INPUT

By default, the Hashtek A-Series ships with a stainless TC elbow and check valve kit for the recirculation line. Fresh water can be added from the top using the Rinse Pump Kit, or for a more seamless setup, via the optional [Dual Input Kit](#). This kit includes a Tee, an additional check valve, and two gasket/clamp sets, allowing the tank to be filled from two independent water sources.



TECHNICAL SPECIFICATIONS

115 Volt 1 Phase *(recommended for N.A.)*

Operating Amps	10
Circuit Capacity	13
Plug	Nema 5-15

230 Volt 1 Phase

FLA	8
MCA	11
Plug	EU Type C, Nema L6-15

Dimensions	48"L x 21"W x 42"
Motor	Stainless Steel Washdown
Frame	304 Stainless Steel, TIG Welded
Controls	7" LCD or Manual Control
Connections	1.5" Sanitary Tri-Clamp
Safety	1x Push Button E-Stop, Twist to release
Weight	Agitator no tank: 110 lbs
Pumps	Auxiliary control for up to 2 pumps (5 amp max)
Agitator Control	7 Parameters for Motor Control
Recipes	User Configurable Gentle, Medium & Aggressive
Origin	Made in Canada
Tank	
Compatibility	25, 30, 44, 50 gallon, 65a (extra wide required for 65a) (adapter piece and smaller paddle required for smaller tanks)
Paddle	Quick Release Hashtek Hybrid Paddle Included
Pump Outlets	Max 5 amp total for auxiliary pump outlets

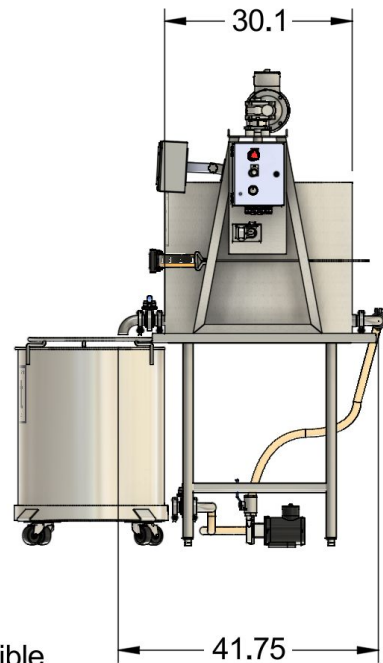
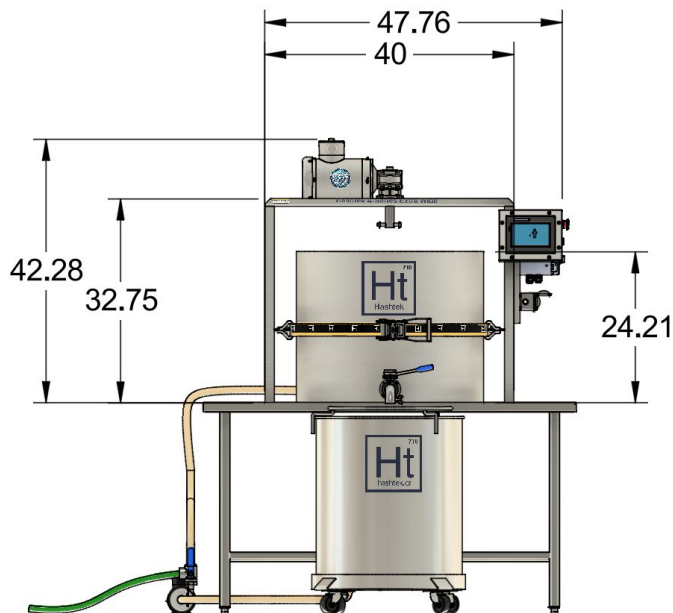
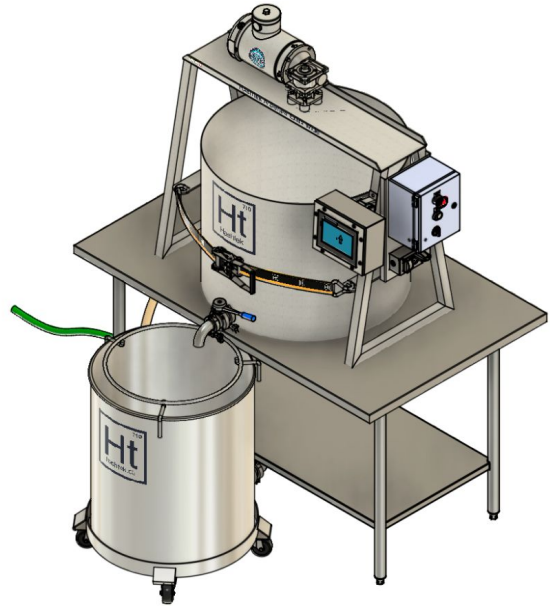
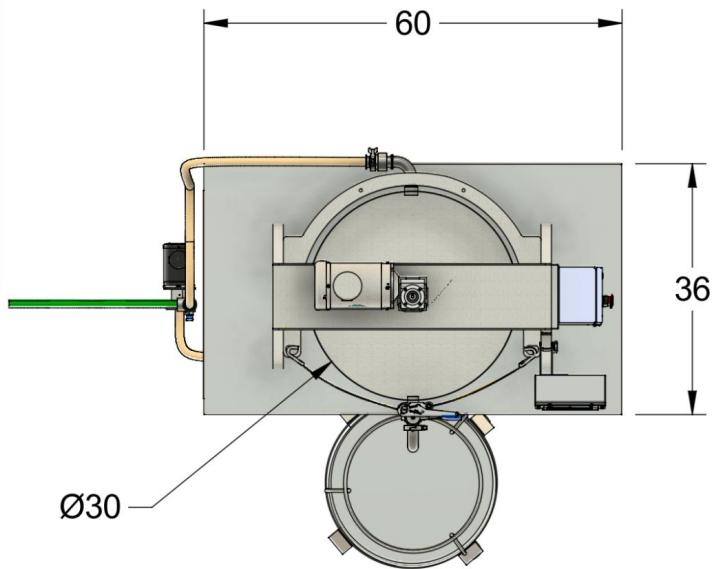
RECOMMENDED PRODUCTS

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

(use sharpie)

DIMENSIONAL DRAWINGS



Note that we recommend a 36" wide table for the 65a if possible