HYDRA RINSE®

CLEANS SIMPLE. SAFE. QUICK.

HYDRA RINSE™ CERTIFIED HYDRA RINSE™ CERTIFIED

Table of Contents

EQUIPMENT SPECS: 1

WATER SUPPLY CONFIGURATIONS 2

OPTION 1 (OPTIMIZED): BRING WATER TO MACHINES 2
OPTION 2 (ENHANCED): INSTALLING A DEDICATED WATER SOURCE 3
OPTION 3 (ENHANCED CONT.): INSTALL TANK BOOSTER PRO AT WATER HEATER 4
OPTION 4 (BASIC): CONNECTING TO AN AVAILABLE WATER SOURCE 5

DRAIN CONFIGURATIONS 6

OPTION 1: TERMINATING DRAIN HOSE INTO A NEARBY SINK 6
OPTION 2: TERMINATING DRAIN HOSE INTO FLOOR DRAIN 7
OPTION 3: TERMINATING INTO DRAIN RISER 8
OPTION 4: INSTALL A DEDICATED DRAIN PATH 9
EXAMPLES OF CONNECTIONS INSTALLED IN THE FIELD 10

Equipment Specs:

Pro-Control mechanical requirements:	**Portable Wandstation mechanical requirements:**	**Complete Hydra Rinse System mechanical requirements:**
Minimum Pressure – 40psi	Minimum Pressure – 50psi	Minimum Pressure – 50psi
Minimum Flow – 4gpm	Minimum Flow – 1gpm	Minimum Flow – 4.5gpm
Power – 3 C-Cell batteries, not included	Power – N/A	Batteries and mounting hardware not included

Configurations are based on location of machine, relative to an available water and drain path while adhering to local, state and federal plumbing codes. Each configuration has positives and negatives to their use and typically each business has uniqueness that requires a hybrid of 1 or more of these techniques to satisfy the intention. Choice for best performance is based on the individual needs of the store as well as its individual store layout.

Fortunately, these methods are not overly difficult to install and offer a permanent, simple method to terminate the drain and attach to warm water when using The Hydra Rinse Cleaning and Sanitizing System.

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Water Supply Configurations

Option 1 (Optimized): Bring Water to Machines

- Pros: Cleanest install for operators. Typically places water connections right next to machines. Reduces setup time significantly. Eliminates bulky hoses.
- Cons: Highest cost of installation. Typically requires 3rd party plumbing company or skilled tradesman.

Mixing Valve and backflow preventer installed at water heater. Dedicated water line routed over to machines.

Water line can be extended with additional water supplies for additional machines.

Material(s) Used:

- ¾" Sharkbite Tees
- ¾" PEX shut-offs
- ¾" PEX elbows
- ¾" Sharkbite thermostatic mixing valve
- ¾" Watts 9D backflow preventer w/ atmospheric vent
- ¾" Van hangers
- ¾" PEX
- ¾" PEX tees
- ¾" Webstone ball drain (each water termination)

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 2 (Enhanced): Installing a dedicated water source

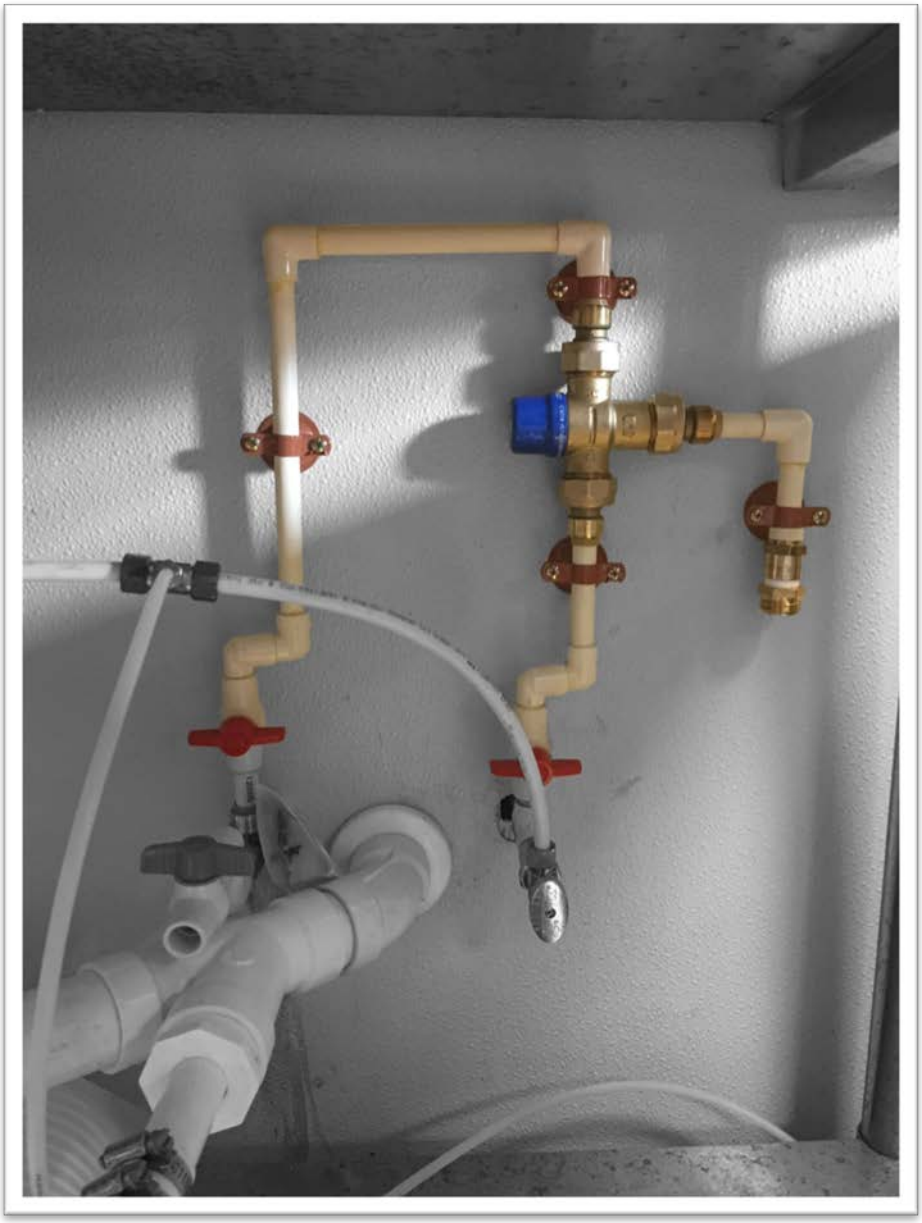
- Pros: Significantly increased accuracy and performance. Allows all applicable local plumbing codes to be adhered to. Doesn't obstruct usage of existing water supplies. Allows water to be tempered to recommended temperature (110°F – 120°F).
- Cons: Increases cost of initial install. Requires access to water lines both hot and cold. May require hiring 3rd party plumbing firm.

Tapping into exposed water lines beneath kitchen sink can make water access fairly simple.

Install Tees, route water lines into thermostatic mixing valve. Terminate mixed output with male garden hose thread.

Material(s) Used:

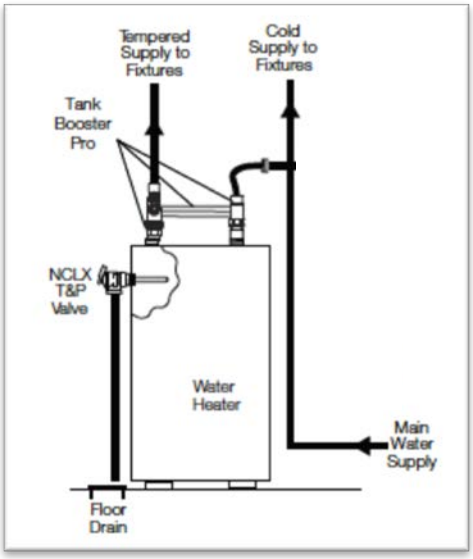
- (2) ½" Sharkbite Tees
- ½" CPVC Shut-offs
- ½" CPVC tubing and fittings
- ½" Sharkbite thermostatic mixing valve
- CPVC Female x ¾ GHT Male adapter
- ½" Van Hangers



© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 3 (Enhanced cont.): Install Tank Booster Pro at water heater

- Pros: Changes entire building hot water supply to tempered water temperature (110°F – 120°F). Simplifies access points for "warm" water. Prevents employees or customers from being exposed to scalding water temperatures. Allows water heater setting to be adjusted for increased output which decreases potential of legionella growing in tank and also increase water heater capacity.
- Cons: Increases cost of initial install. Still requires tapping into hot water line to get access point for Hydra Rinse technology. Access to water heater may be limited or prohibitive for Tank Booster Pro install. May require hiring 3rd party plumbing firm. Improper installation or part failure could affect entire building hot water supply.



Cut both hot and cold water lines above water heater. Remove both female adapters from water heater stubs. Install Tank Booster Pro, reconnect water lines.

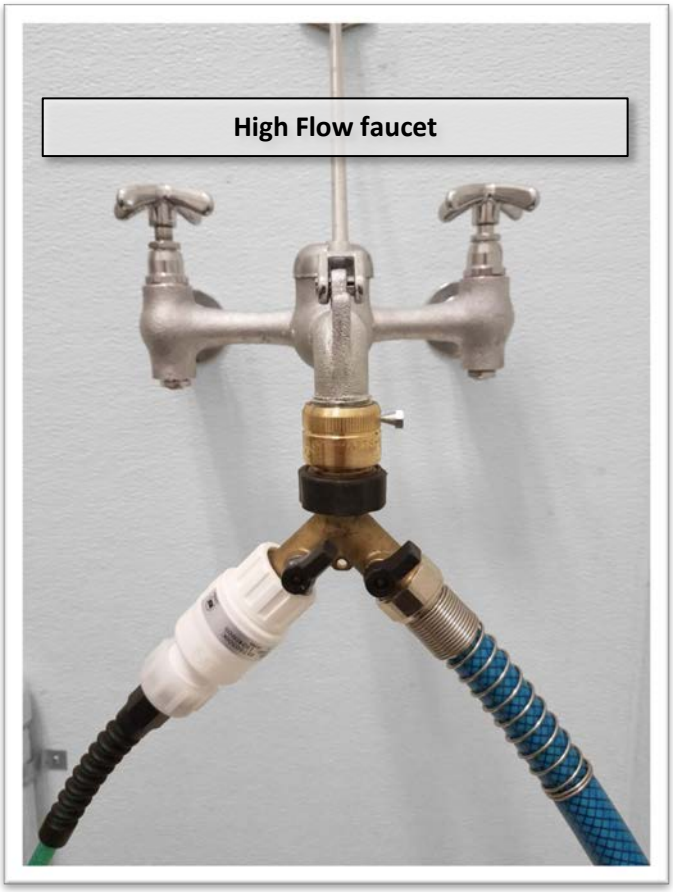
Material(s) Used:

- (1) Cash Acme Tank Booster Pro
- (2) ¾" CPVC Unions

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 4 (Basic): Connecting to an available water source

- Pros: Fastest available water connection. Typically, does not involve any additional or significant material costs. Can be performed by owner/operator without strong mechanical competency.
- Cons: Depending on local codes, may not be allowed for permanent setup. Limits access to water source for other purposes. Typically, water source is not conveniently located close to equipment. May leave hoses as tripping hazard on floor. Hoses themselves can be bulky and cumbersome during setup. Water temperature is tempered manually, may not be consistent from cleaning to cleaning. May have inadequate water flow from typical available water fixtures. High Flow faucet strongly recommended.



Using included hose splitter and supplied 25' supply hose, connect to water source. Wand water supply connects to splitter as well.

Most plumbing codes require some type of vacuum breaker or backflow preventer, pictured here above hose splitter.

Some plumbing codes require dedicated water supply leaving this option potentially not allowed.

Material(s) used:

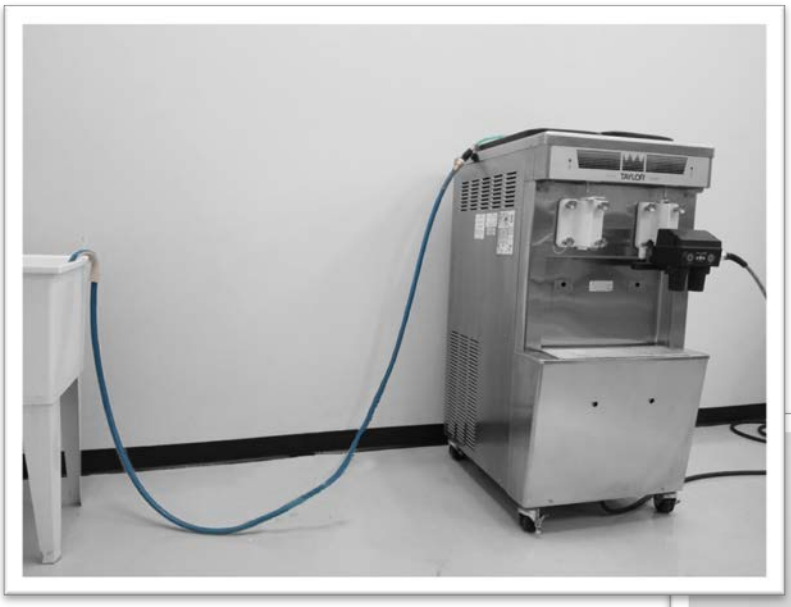
- Included 25' Garden hose extension.
- (1) GHT Vacuum Breaker – Female x Male
- Included GHT Splitter

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Drain Configurations

Option 1: Terminating drain hose into a nearby sink

- Pros: Makes use of supplied drain hose. Typically, no additional equipment or parts are necessary. Least invasive, fastest for initial setup.
- Cons: Moving/manipulating hose can be clumsy, especially if hose is filled with fluid. Pathway from machine to sink can be obstructive to working path.



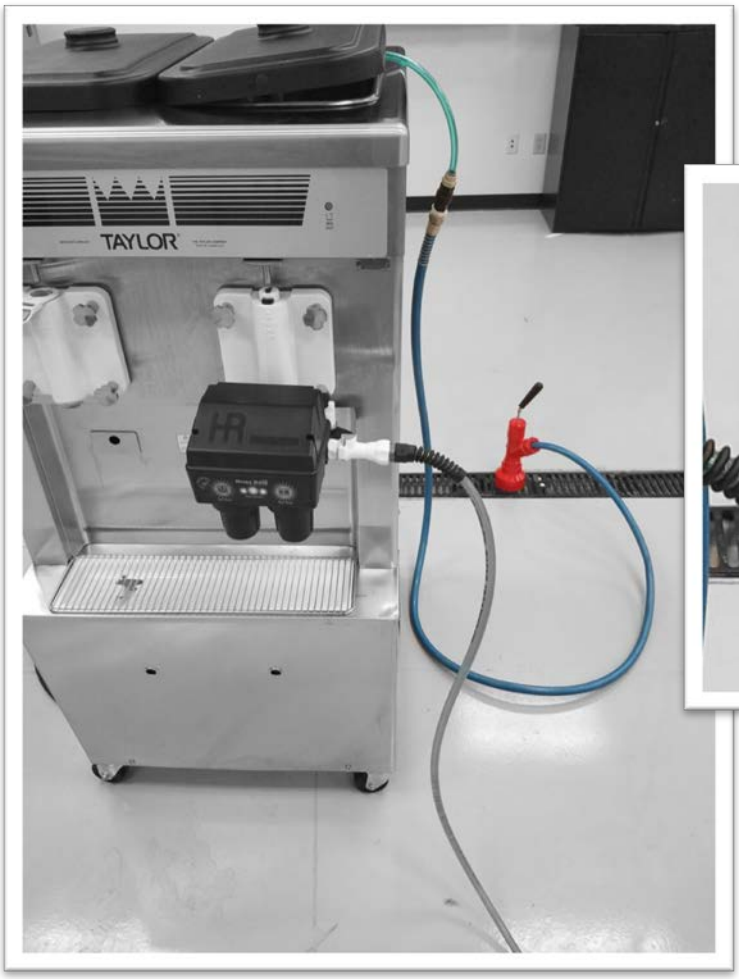
Material(s) Used:

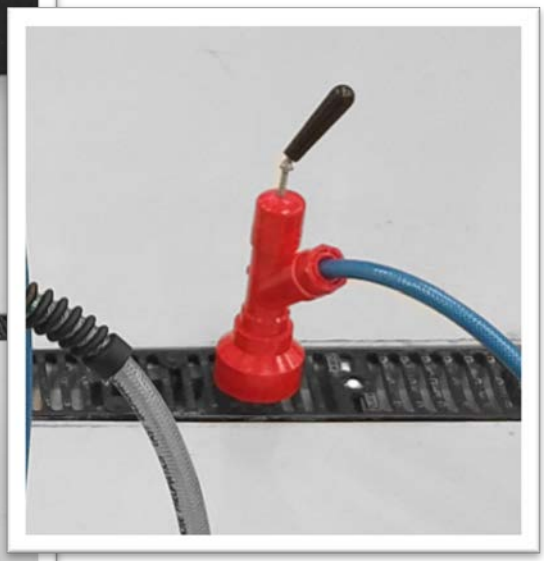
- Included 25’ Drain hose extension
- Included Anti-kink hose hanger

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 2: Terminating drain hose into floor drain

- Pros: Makes use of supplied drain hose. Typically, no additional equipment or parts are necessary. Least invasive, fastest for initial setup.
- Cons: Termination is typically temporary. Requires additional setup time. Drain termination support can be a tripping hazard, depending on location of floor drain itself.





Insert drain hose into termination air gap connection. Maneuver holding hook into drain cover grille.

Material(s) Used:

- Custom made floor drain attachment
  - 3” X 2” PVC coupling
  - 2” Wye
  - 2” Cap
  - 2” x ¾” PVC reducer
  - Handle assembly

Contact Hydra Rinse for specific instructions of assembly

- Included drain hose extension

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 3: Terminating into drain riser

- Pros: Allows shortening of drain hose, possibly eliminating the need for an extended drain hose beyond the bypass drain assembly itself. Fastest method for frequent usage. "Clean" looking.
- Cons: Pathway from existing drain stack may be difficult to access or difficult to route back to machine.

Cutting into existing drain riser allows a spare branch for the Hydra Rinse drain hose to be terminated. This prevents the sink or appliance it is connecting to is not impeded or obstructed by the drain hose when in use.

Other potential access points could be hand sinks, three bay sinks, soda dispensers, automated coffee makers.

Material(s) Used:

- 1.5" PVC P-Trap kit
- 1.5" PVC Drain tee
- 1.5" U-Clamp
- Included anti-kink hose holder
- Included drain hose extension (cut to length)

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Option 4: Install a dedicated drain path

- Pros: Allows shortening of drain hose, possibly eliminating the need for an extended drain hose beyond the bypass drain assembly itself. Fastest method for frequent usage. Very “Clean” looking.
- Cons: Access points can be limited. Pipe pitch and pathway back to appliance may be difficult.

Material(s) Used:

- 2” Flexible PVC
- 2” PVC Fittings
- 2” U-Clamps
- 2” x ¾” Reducer

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

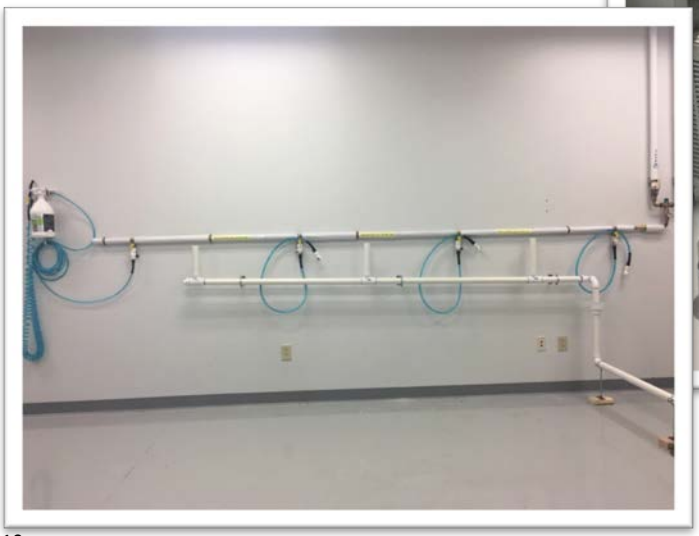
Examples of connections installed in the field

Termination is coming from back of machine and drops directly into nearby sink.

Water line is attached to high flow sink faucet head.

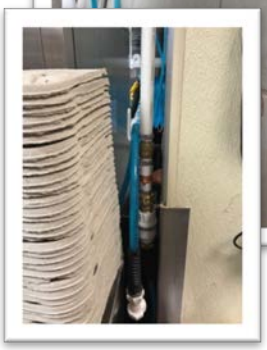
Termination runs behind machine, routes around and drops into available floor drain. Setup is designed to be moved out of the way when not in use.

Water line is configured with multiple supply taps to support three machines set in a row.



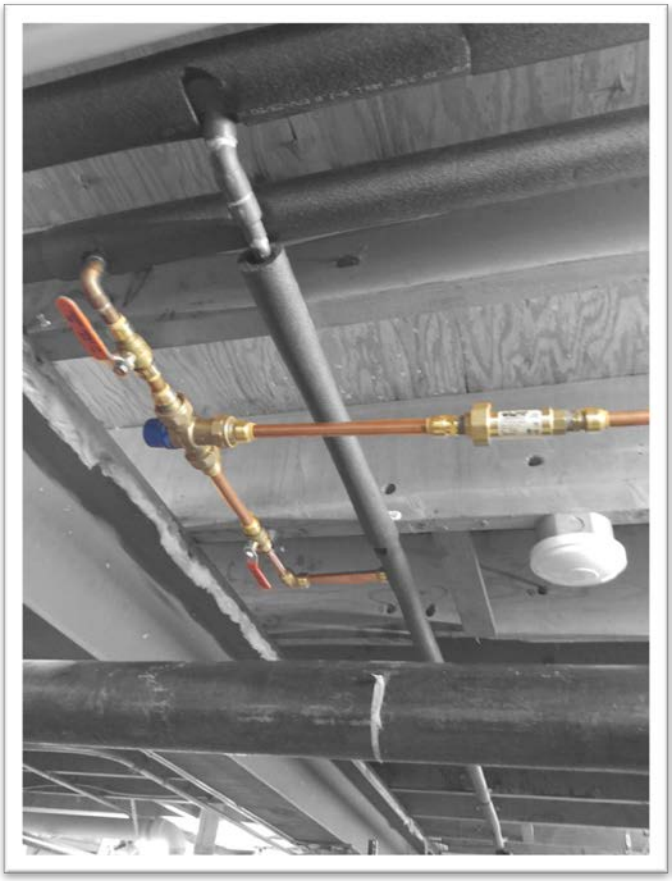
© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED

Custom drain configuration brings floor drain from behind the machine around the left side. Bypass system terminates with short drain hose directly into drain line extension. Completely non-intrusive to store operation when not in use.



Water line is installed directly behind right side of machine. Water line is long enough to reach around the front. When not in use, water line hangs out of the way.

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED



Mixing valve and backflow preventer installed in basement. Water line routed to below equipment.

Water line routed through floor, secured to wall, within five feet of machine.

© COPYRIGHT HYDRA RINSE™ LLC | ALL RIGHTS RESERVED