Hot Water Shower Recirculation System



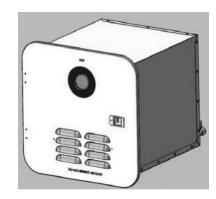
DYI by Ross Chessman

- Current Set Up
 - 2022 Flying Cloud 25 Foot FB
 - Water Heater Girard GSWH-2
 - Tankless continuous water heater





- How the Girard Water Heater Works
 - Senses water pressure
 - Senses gas pressure
 - Senses Water flow
 - Senses inlet and outlet water temperature
 - Senses air pressure (fan)
 - If all systems are go then water heater fires up



Technical Manual



Model: GSWH-2

Features:

- Demand Tankless Water Heater
- LP Gas / Induced Draft
- Constant Outlet Temperature
- Linear Gas Control Valve
- Electronic Gas Modulation
- Microprocessor Controls

- The Challenge with Boon Docking or Dry Camping
 - Step 1 Turn on hot water
 - Step 2 Wait for water heater to fire up
 - Step 3 Wait for hot water to reach shower head
 - Step 4 Enter shower and get wet or rinse off
 - Step 5 Turn off water(Water Heater Shuts Down) soap up
 - Step 6 Repeat steps 1 thru 5

Results – Fresh water down the drain and not fun

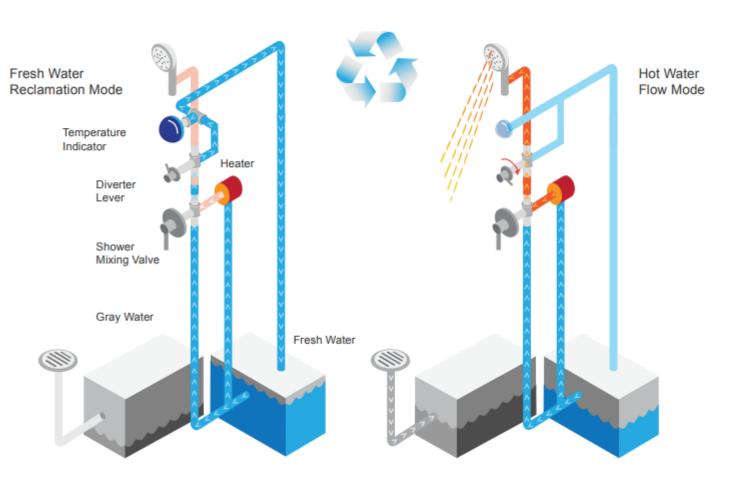




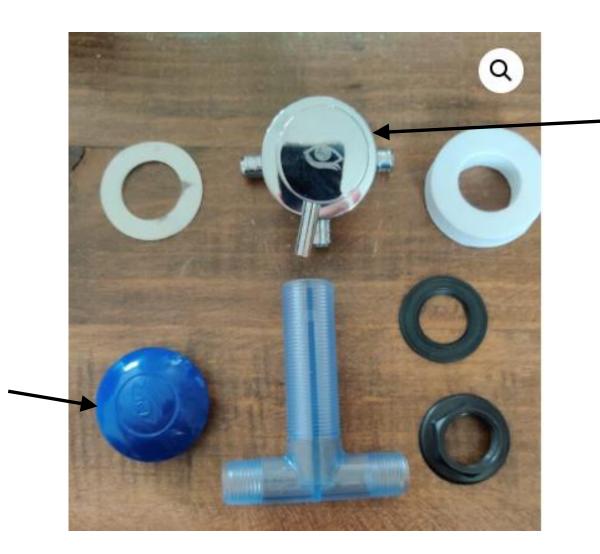
- Solution is Add a Hot Water Recirculation Loop
 - Aqua View Inc.



- Systems"Showermiser"
 - "Sinkmiser" (model SK002)
- Credit to Airforums.com



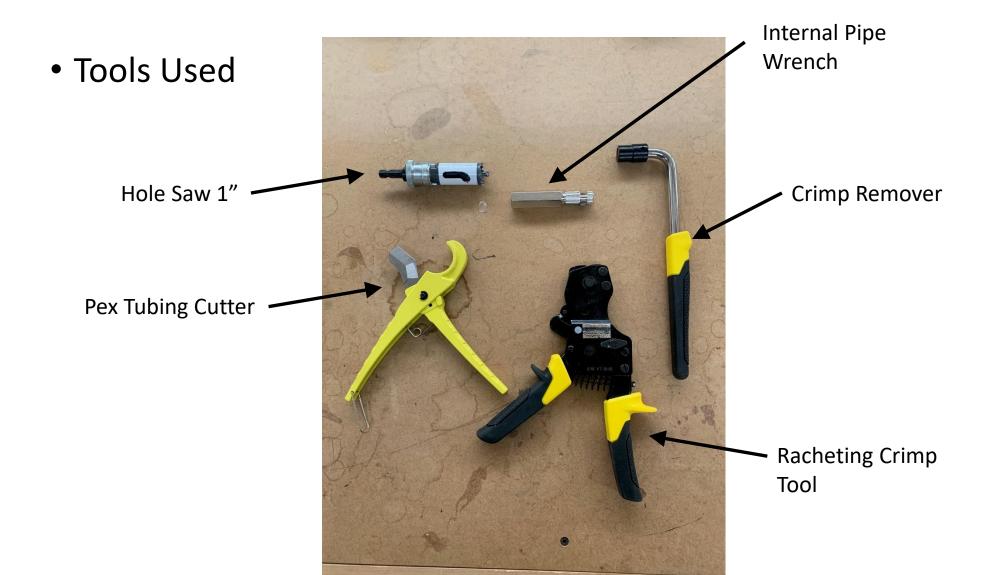
Aqua View
Sinkmiser SK002

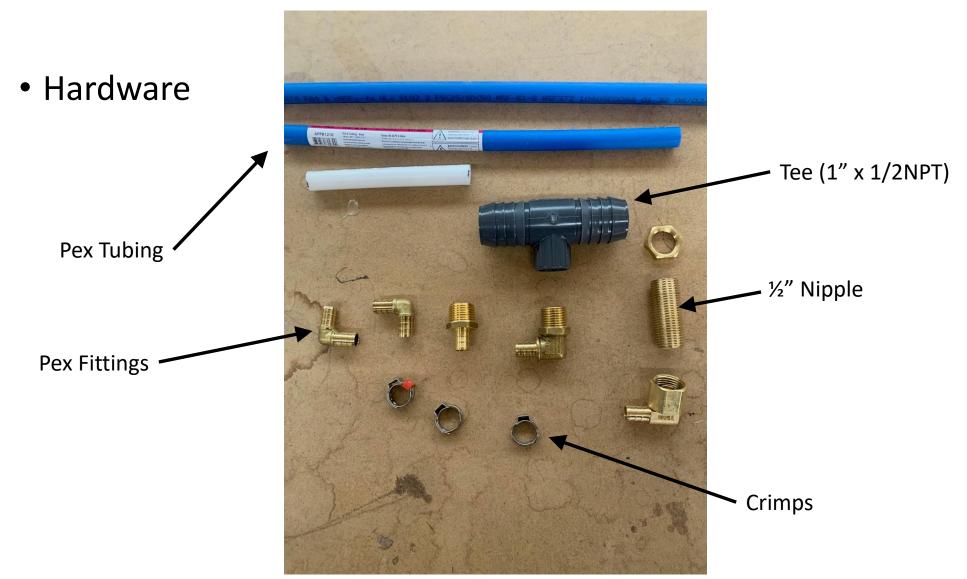


Recirculation

Valve

Plastic Temperature Button





Closet and Shower



Outside Closet



Inside Closet



Inside Shower

Before After Mixing Valve Shower Head Hose Hot Wate Cold Water **Recirculation Valve** Return to Fresh Tank

Return line running to the fresh water fill hose.



Closet Floor Removed



Parts List

PART DESCRIPTION	SUPPLIER	P/N	QTY
1 VALVE, DIVERTING	SINKMISER	SKC002	1
2 FITTING,INLINE BARB W/FEMALE THREADS	MCMASTER CARR	48315K118	1
3 MIP, BRASS NIPPLE EXTENSION, 1/2IN. X 2.0IN.	HARDWARE		1
4 PEX, 90 DEGREE ELBOW, BRASS 1/2IN.	HARDWARE		2
5 PEX, INLINE BRASS PEX-B BARB X 1/2IN x 1/2IN, MALE PIPE THREAD	HARDWARE		1
6 PEX, 90 DEGREE ELBOW, BRASS PEX-B BARB X 1/2IN X 1/2IN, MALE PIPE THREAD	HARDWARE		1
7 PIPE, 1/2IN. PEX, BLUE 10'	HARDWARE		1
8 CLAMP, HOSE, SS X ?	HARDWARE		2
9 1/2 IN. PEX CINCH RINGS	HARDWARE		~6

The End