



HOMOGENIZER WATER RECYCLING

SUMMARY

Every year, companies lose millions of gallons of water through homogenizer processes. On average, a single homogenizer sends over 2 million gallons (7.5 million liters) of cooling water to the drain.* This waste creates increased production expenses and undermines sustainability initiatives.

The Homogenizer Water Recycling System (HWRS) was developed to remediate this loss. Through integration with a homogenizer, the HWRS is designed and proven to monitor, treat, cool, and recycle water at up to 10GPM (37.85LPM) with a 97% recapture rate.

The HWRS consists of two primary components: the Sanitation Skid (Fig.1) and the Tank Skid (Fig. 2). Water from a homogenizer first travels through the Tank Skid, where it is continuously monitored, preliminarily treated, and collected. The Tank Skid then pumps to the Sanitation Skid, which may be installed at a line distance of up to 75FT (22.85M). Water travels through the Sanitation Skid and is continuously monitored, sanitized, cooled, and returned to the homogenizer.

The HWRS features redundant water quality monitoring and safety protocols that ensure pure, cool water is delivered to the homogenizer at all times, without the use of chemicals.

HWRS enables facilities to reduce water consumption and decrease supply (municipal) and sewer expenses, providing a sustainable and cost effective solution to conserve one of the world's most important natural resources.

* Based on homogenizer water flow of 6GPM, 18 hours a day, 6 days a week, 52 weeks a year.

FIGURES

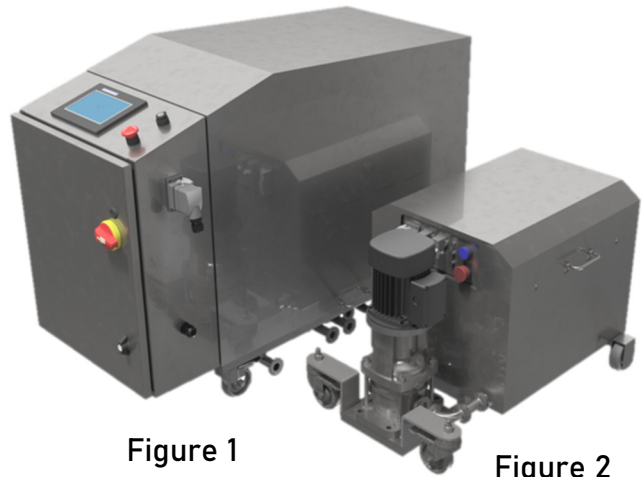


Figure 1

Figure 2

STANDARD FEATURES

- Plug-and-Play with Automatic Functionality
- Homogenizer Leak Detection and Notification
- Washdown Construction
- Modular and Mobile
- HMI with Remote Access and Control Capability
- Ethernet Port for Status and Quality Parameters
- Exceeds all Pasteurized Milk Ordinance (PMO) Specifications for Category I Water
- Redundant Water Quality Safety Protocols
- Sanitary Quick Fittings for Plumbing Connections
- Variable Temperature Output
- Glycol or Chill Water Capability
- 480V or 240V (3 Phase) Power Capability



SANITATION SKID (HWRS-S+)

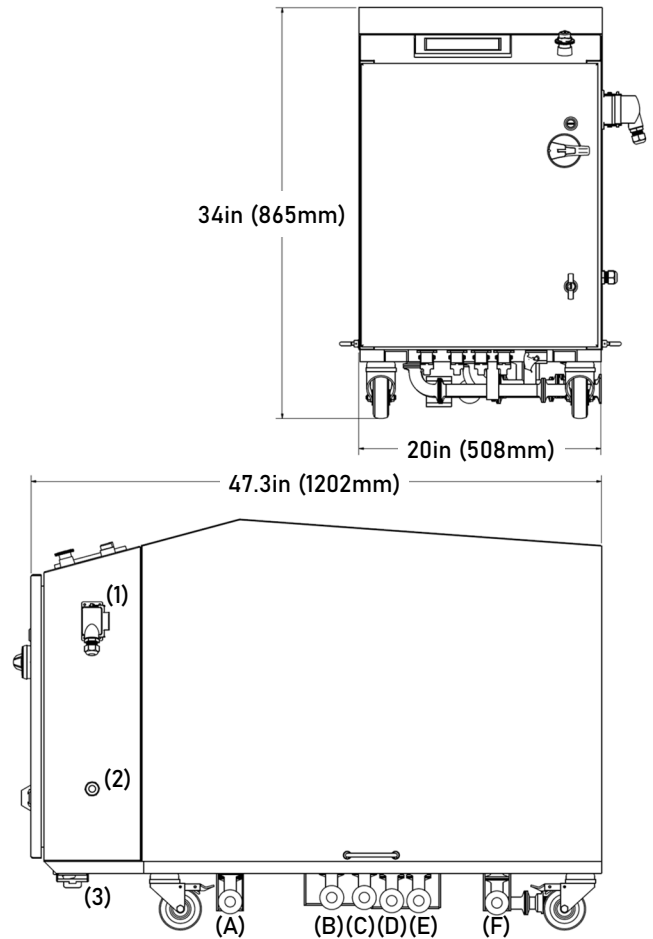
CONNECTION REQUIREMENTS

PLUMBING:

- (A) SUPPLY—City/Municipal Water
- (B) SUPPLY—Recycle Water (Temp. Output 01)
- (C) SUPPLY—Recycle Water (Temp. Output 02)
- (D) SUPPLY—Cooling Medium (glycol or chill water)
- (E) RETURN—Cooling Medium (glycol or chill water)
- (F) RETURN— Recycle Water from Tank Skid

ELECTRICAL:

- (1) SUPPLY—480V/240V 3 Phase at 5A/10A Breaker
- (2) NETWORK—PLC Network Connection
- (2) NETWORK—External Network Connection
- (3) SUPPLY— Supplied Cables to Tank Skid



TANK SKID (HWRS-TK)

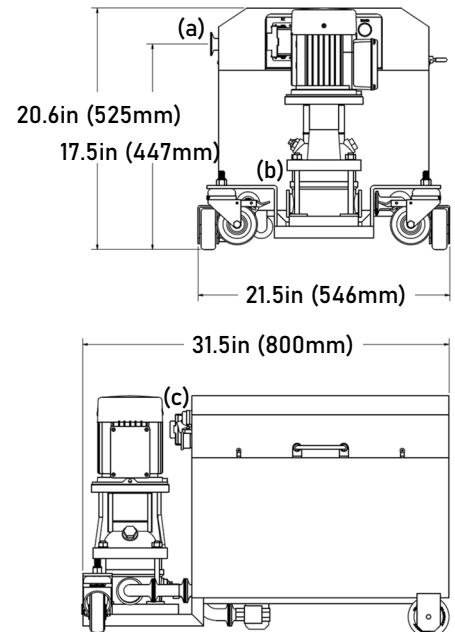
CONNECTION REQUIREMENTS

PLUMBING:

- (a) SUPPLY— Water from Homogenizer
- (b) RETURN—Recycle Water to Sanitation Skid

ELECTRICAL:

- (c) SUPPLY— Supplied Cables from Sanitation Skid



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