

Manifold / Recoil Hose Combination Flush Station



Model No. CIS-301
Part No. 7300-2400

Description

The Manifold/Recoil Hose Combination Flush Station is used in automated watering systems for laboratory animals and is a dual purpose, panel mount assembly designed to internally flush both detachable recoil hoses and mobile rack manifolds. The station is ideally suited for a smaller facility with less than 50 to 75 rack connection points.

The Manifold/Recoil Hose Combination Flush Station can flush up to two recoil hoses simultaneously or one rack manifold. This station is manually operated.

During normal use of animal rack manifolds, the flow of water through recoil hoses is low and intermittent, creating stagnant conditions and biofilm that allow microorganisms to multiply and become a potential source of contamination. Regular high pressure flushing with untreated water provides a means of internal cleaning. For more effective cleaning and sanitization, 10 to 20 ppm chlorinated water supplied by the chlorine injector station should be used during the flushing process.

Features & Benefits

- Flushes and sanitizes both manifolds and detachable recoil hoses.
- Compact wall mounted panel assembly.
- 316 stainless steel piping/component construction with other wetted parts of plastic.
- Adapts readily to the Edstrom Chlorine Injector Station for sanitizing option.
- Includes 15 feet of stainless steel drain piping [4572 mm].
- Suitable for potable and/or chlorinated water.
- Dual-purpose station ideal for small facility, low volume applications.
- Two applications can be serviced by one Chlorine Injection Station for treated water option.
- Easy, effective method for internally flushing and sanitizing both manifolds and recoil hoses.
- Reduces the potential for microorganism contamination of animal drinking water.
- Low operating costs.

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Specifications

HARDWARE

- Dimensions: 22 in. W x 18 in. H x 7 in. D [559 mm W x 457 mm H x 178 mm D].
- Back Panel: 16 GA stainless steel (SS).
- Quick Disconnects - Universal Style:
 - 316 SS (wetted parts).
 - Ball Check in QD plug.
- Ball and Check Valves: 316 SS.
- Plumbing Connections:
 - Inlet: Flange/swivel nut for 1/2 in. (13 mm) MPT adapter.
 - Outlet: 1/2 in. (13 mm) OD compression for drain line.
- Filter Housing/Mixing Chamber: Polypropylene.
- Recoil Hose: Kynar (PVDF) 10 foot [3050 mm] reach.

UTILITY REQUIREMENTS

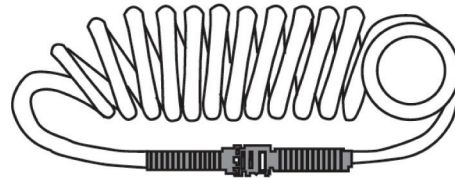
- Water: Potable or Chlorinated
 - 1.5 gpm at 60 psi max [5.7 lpm at 4.14 bar].
 - 1.5 gpm at 40 psi min [5.7 lpm at 2.76 bar].
- Temperature: 40°F to 120°F [15°C to 49°C].
- Compressed air: Clean, oil free
 - 4 cfm [113 lpm] at 60 psi [414 kPa, 4.14 bar] max.
 - 4 cfm [113 lpm] at 15 psi [103 kPa, 1.03 bar] min.

All specifications are subject to change without notice.

Operation

The Manifold/Recoil Hose Combination Flush Station should be mounted on the clean side of the rack wash area so the recoil hoses and rack manifolds can be sanitized externally before the internal flushing process is initiated. A location near the rack washer exit is needed for the 10 foot [3050 mm] reach recoil hose connection to the rack manifolds. If necessary, regulators should be installed in both supply lines to limit the pressures.

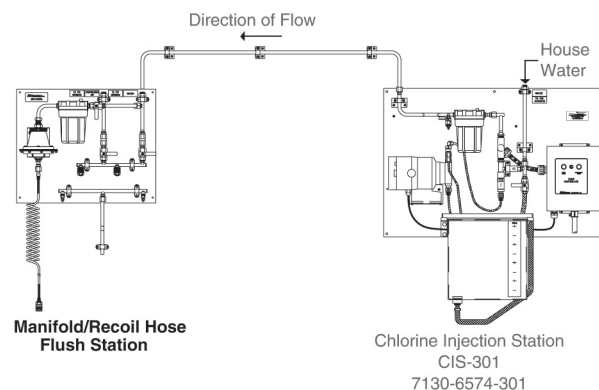
The Manifold/Recoil Hose Combination Flush Station flushes recoil hoses and rack manifolds independently. For recoil hose flushing, simply connect the hoses to be sanitized to the quick disconnect ports of the station and open the water valve for a 1 to 2 minute flush. Follow that with a compressed air flush or 20 to 30 seconds to completely evacuate the water. When finished, connect the ends of the recoil hoses to form a closed loop (as below).



When the flush station is used with a Chlorine Injection station for sanitizing purposes, the initial flush should be followed with a 30 minute minimum exposure period and then followed with a second, short, potable or chlorinated water flush before the final air flush of the hoses. For rack manifolds, disconnect and drain each manifold after the exposure period. Note: The compressed air is only used with recoil hose flushing.

For manifolds, the flushing begins when the station recoil hose is connected to the manifold inlet and continues until the manifold drain valves are closed or the manifold is disconnected.

After a manifold is flushed, it should be drained, the quick disconnect plug covered, and vents and drains closed. A rack should never be stored with the manifold filled with water. Racks stored for extended periods of time should be sanitized again before use.



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