

Pump Division

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PUMP & RINSE

PERISTALTIC PUMP OUT STATION WITH INTEGRATED PORTABLE TOILET WASH-DOWN STATION

Application:

- Marine / Recreational Pump-Out Stations
- Waste Oil Collection Stations

Features:

- Fiberglass and Stainless Models
- Modular For Easy Installation
- Self Priming
- 65ft Discharge and 27ft Suction
- Easy Maintenance



Pump Out With Integrated Wash-Down Station

Pump Assembly: fig.1

1. 2hp/1ph/115/230v/60hz/tefc motor close coupled to a helical gear reducer drives the 35 GPM peristaltic pump. All arranged on an aluminum frame.
2. Electrical controls enclosed in a water tight NEMA 4X fiberglass box .
3. The pump inlet is set up with two 2" ports, one for the pump out hose and the second for the wash-down sink.

fig.1



Pump Cover: fig.2

1. Brushed 14 gauge Stainless Steel or White Fiberglass .
2. A Green Start and a Red Stop switch installed in the front are used to start the pump when the pump out hose is used.
3. A non-resettable hour meter is installed to measure the pumps total run time.
4. The Start/Stop Switches and the hour meter are wired to the control panel with a set of long electrical cables that allows the cover to be lifted clear of the pump unit for maintenance and service.
5. Holes are cut in the cover, one on the left for connecting the pump out hose to the pump unit, one on the back right for connecting the wash-down station to the pump unit and one to the right front for connecting the wash-down station electrical cable to the control panel.

fig.2



Hose Stand & Pump Out Hose Assembly: fig.3

1. Hose Stands are stainless steel or white powder coated aluminum.
2. Pump Out Hose includes 1 1/2" Pump Out Hose, 90° Ball Valve, Sight Glass/Check Valve, Quick Clamp Adapter, Complete Set of Deck Adapters

fig.3



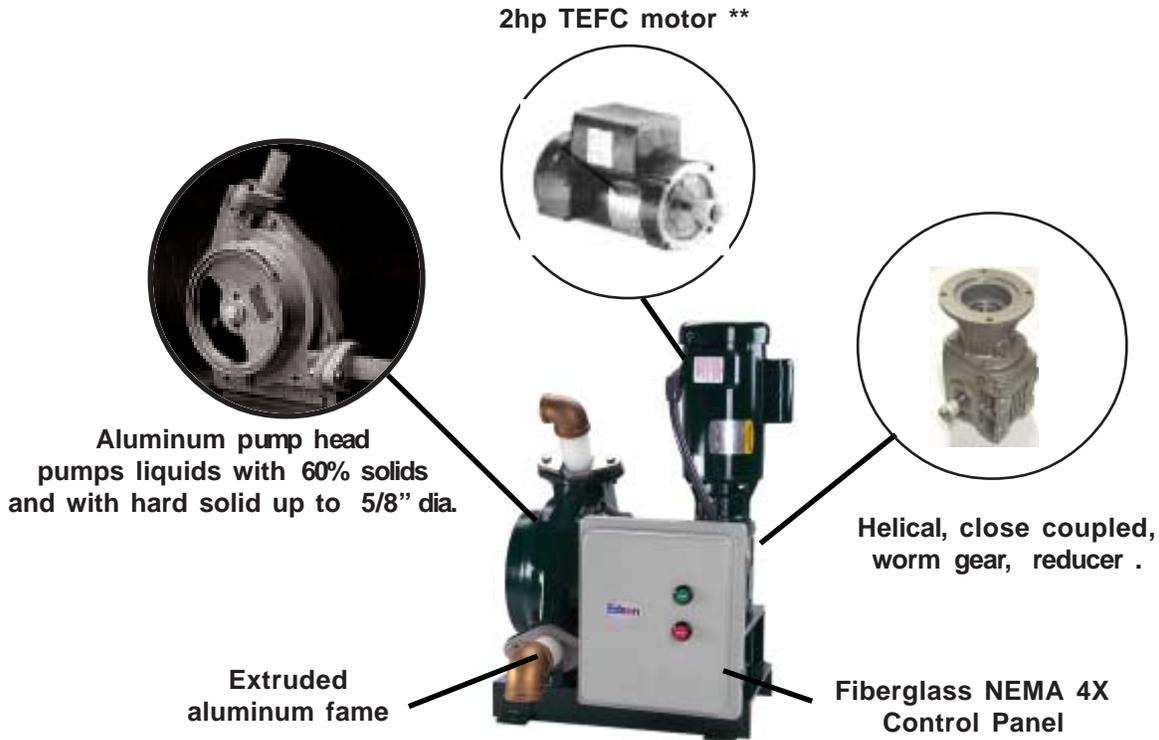
Portable Toilet Wash-Down Station: fig.4

1. Brushed 14 gauge Stainless Steel or White Fiberglass (Stainless Shown).
2. A Green Start and a Red Stop switch installed in the front are used to start the pump when the wash-down station is used.
3. The sink drain is connected to the pump unit.
4. A rinse hose and a sink flush spigot are connected to an electrical solenoid mounted inside the wash-down station on the right side. With a water line connected to the solenoid and the wash-down electrical cable connected to the control panel on the pump unit, when the start switch is pushed the pump comes on to the wash-down station and water flows into the sink and is available for the rinse hose.

fig.4

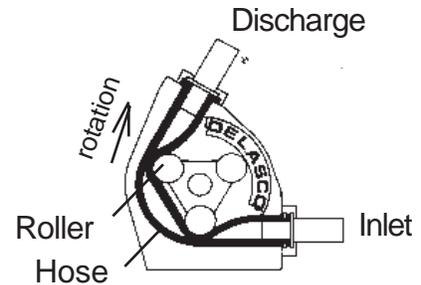


Pump Construction & Performance:



Advantages:

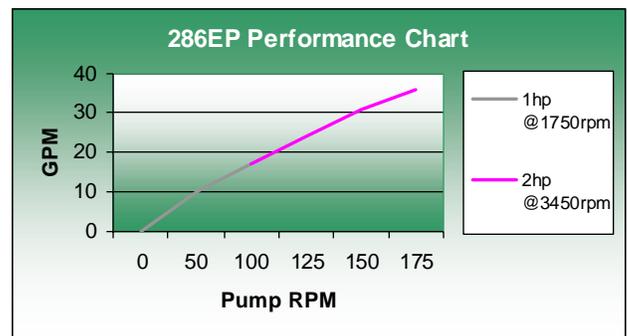
The advantages of this design are pumping suspended solids with no valves to clog, no solution contacting moving parts, run dry capability, and no seals to leak combined with high suction and discharge pressures.



Discharge Head: 65ft
Suction Head: 27 ft

Motor Options:

- 2 HP @3450rpm (Pump Out Stations)
120/220V 1ph
240/480V 3ph
12V DC
- 1 HP @1750rpm (Pump Out Carts)
120/220V 1ph
240/480V 3ph
12V DC



**Other motor options are available including special electrical requirements and gasoline powered units.

Wash-Down Station Construction

Fiberglass



CONSTRUCTION FEATURES:

- Attractive White Fiberglass with UV Inhibitors
- The One Piece Molded Enclosure and Funnel Shaped Sink, Smooth Surface, with Rounded Corners, and a Non-Skid Extra Wide 4" Rim
- The Cover Is Attached With A Stainless Strap Hinge And Supported When Opened By A Set of Stainless Gas Hinges.
- Stainless Steel Hasp Is Installed for Lock Out
- Dimensions 27" Deep x 27" Wide x 31" High

WASH-DOWN HOSE & NOZZLE:

- Standard Kitchen Sink Rinse Hose with Thumb Activated Automatic Shut-Off Nozzle

PLUMBING CONNECTIONS:

- Sink Drain - 3" Schedule 40 PVC Slip for
- 2" Drain Line Connected to A 2" Female Bulkhead Fitting Secured To The Back Corner of the Enclosure

Stainless

CONSTRUCTION FEATURES:

- Heavy Duty 14 Gauge 304 Stainless
- The Sink Section is 18" Wide Spun Cone of 304 Stainless Seamlessly Welded Into the Enclosure With No Corners, and a Non-Skid Extra Wide 4" Rim For Safe, Easy to Clean Use.
- The Cover Is Attached With A Stainless Strap Hinge And Supported When Opened By A Set of Stainless Gas Hinges.
- Stainless Steel Hasp Is Installed for Lock Out
- Dimensions 27" Deep x 27" Wide x 31" High

WASH-DOWN HOSE & NOZZLE:

- Heavy Duty Rinse Hose with Grip Activated Spray Nozzle

PLUMBING CONNECTIONS:

- Sink Drain - 3" Schedule Stainless NPT
- 2" Drain Line Connected to A 2" Female Bulkhead Fitting Secured To The Back Corner of the Enclosure

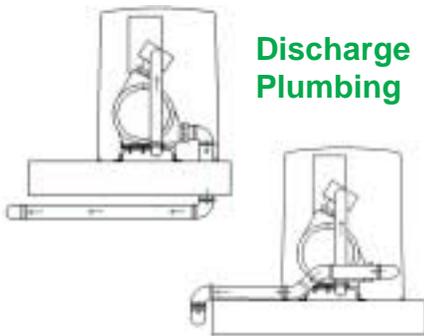
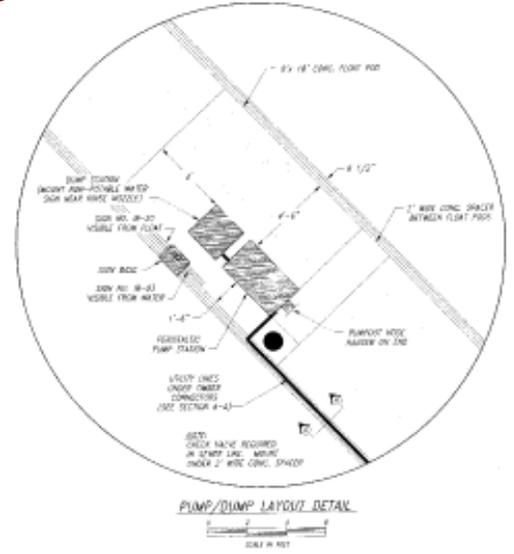
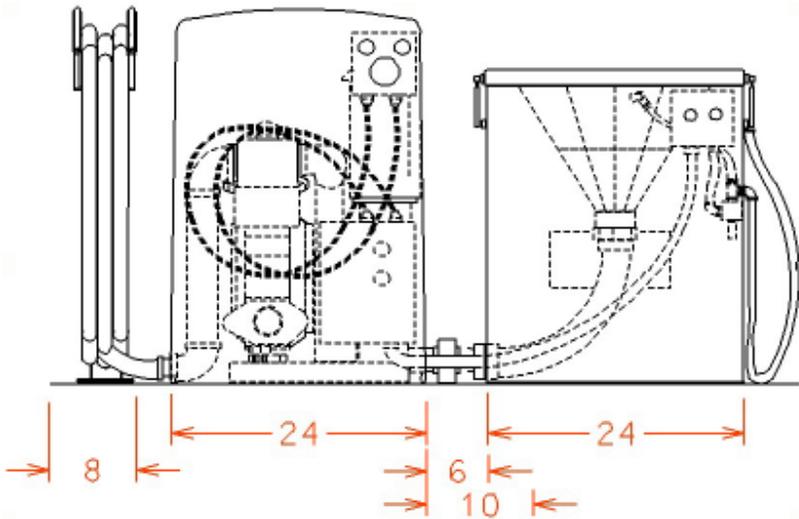


How The Pump And Rinse Works

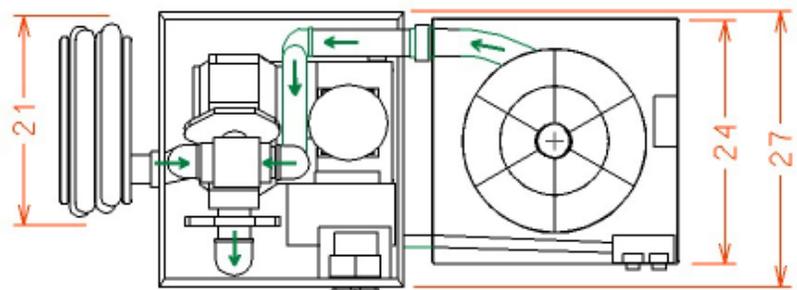
The sink drain is plumbed to the pump out pump and a kit is added to the wash-down that includes a start and stop button on the front of the sink frame. A 1/2 electric solenoid is packaged with the rinse hose and a flush line is added to the sink. A 3way electrical ball valve is added to the pump unit inlet. All are then tied electrically to the pump unit control panel so that when the start button on the sink is pushed the pump unit is started, the ball valve opens to the sink, the water line solenoid opens and the water flushes the sink and is available to the rinse hose. A programmable timer in the pump unit can be set for a predetermined run time before the unit is shut off or the operator can use the stop button to turn the unit off.

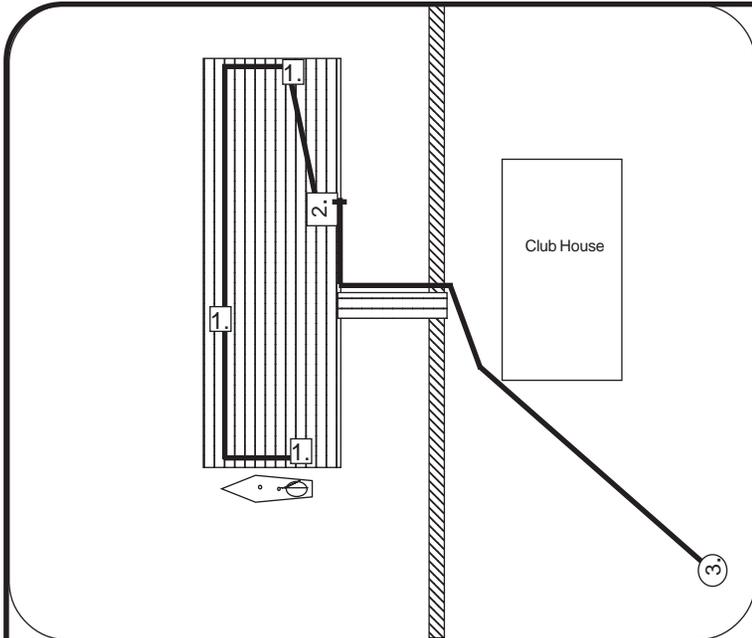
Dimensions

Front View



Top View





All dimensions are approximate.
Should **not** be used for Contractor estimating.

