

December 28, 2010

# Sample

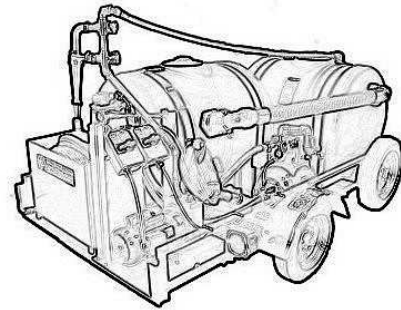
Thank you for the opportunity to quote a boat pressure-wash filtration system for recycling wastewater. We are pleased to quote the following systems:

## **OPTION #1 – Complete Recycling System – Dual Tanks**

*For filtering smaller sump(s) used with a sump pump feeding the dirty tank mounted on the trailer*

**Model No. 651SP-MWTT** (Trailer Mounted) or  
**Model No. 651SP-MWTTs** (Skid Mounted)

ENCYCLON, Inc. transportable cyclonic filtration system for pressure washer waste water recycling, with 20 GPM flow rate, and 5-micron filtration includes the following components assembled as a complete system:



### **Plumbing Configuration**

Included are hoses and valves for operation to supply clean water to hose faucet. The customer's sump pump supplies dirty water to the trailer mounted dirty water tank.

### **FILTER**

One - ENCYCLON Cyclone assembly complete with (1) Type # 65 cyclone for 5-micron filtration and (1) manifold assembly with pressure gauges.

### **FILTER SUPPLY PUMP & MOTOR**

One - 2 H.P. self prime pump, rated at 20 GPM, 15 feet maximum head, with a 3450 RPM, 120 / 1 / 60 cycle (17 amp) totally enclosed electric motor. This pump will use silicon carbide vs. silicon carbide with a viton hard face seal.

### **SWARF CONTAINER**

One - Swarf container, with baffled overflow allows easy removal of sludge material. The container overflow has a 90 degree fitting with a hose to be attached to tank. Swarf container will slide out to allow sludge removal and cleaning.

CLEAN TANK

One - 125 gallon roto-molded poly tank with bulkhead and cam lock fittings, mounted with (2) powder coated 2" steel straps.

DIRTY TANK

One - 125 gallon roto-molded poly tank with bulkhead and cam lock fittings, mounted with (2) powder coated 2" steel straps. The tank includes a 1"Ø cam lock bulkhead fitting for (customer supplied) sump pump discharge line.

ELECTRICAL CONTROL

Two - Waterproof rotary ON / OFF switch boxes. For control of cyclone pump and clean water pump. Electrical is wired to an attached 50 foot standard 30 amp marine shore power cord to supply power.

CLEAN WATER SUPPLY PUMP

One - 1 H.P. Shallow Well Pump, Northern Industrial, Model#JGP12001CHT, Stainless steel pump housing, with 15 gpm flow at 5 feet head, self starting pump with pressure switch and gauge, includes 4.4 gallon pressure tank with bladder, with a 3,400 rpm 120V/1ph/60hz (6 amp) motor that includes auto reset thermal protection. Installation includes mounting, electrical, and piping and valve from clean water tank.

CLEAN WATER STRAINER

One - Stainless Steel Screen Spin-Down Strainer, Rusco, Model 3/4-100SS-F, 100 Mesh, 20 GPM Max flow, and the screen is easily cleanable by opening a ball valve to flush debris into swarf tank. Installation includes brackets, mounting, and piping. This secondary screen captures biological debris in water that may not have been filtered by cyclone.

PIPING AND HOSES WITH CAM-LOC FITTINGS

Set - Suction piping from dirty tank to cyclone pump, Cyclone discharge piping from hydro-cyclone to clean tank. Tank overflow piping from clean tank to dirty tank, Drain Hose, 1"Ø x 4', Cam lock fitting 1" Ø for customer sump pump attachment, AND Swarf Overflow Hose, 1" Ø x 9'

TRAILER #651SP-MWTT OR SKID MOUNTED #651SP-MWTTS

One - The system is mounted on a 4 x 8 foot steel trailer (designed to eliminate the need for a dedicated heated space for winterization). Trailer includes spare tire and tongue jack. This unit can also be mounted on a 4 x 6 steel skid, wash primed and coated with industrial grade enamel tank paint. Please specify either 651SP-MWTT or 651SP-MWTTS mounting platform when ordering.

The above system comes complete with all valves and piping assembled and is tested prior to shipping. The unit includes an operating manual.

**Total for the 651SP-MWTT or 651SP-MWTTS system ..... \$ 13,111.00**

**Other Accessories:**

**Optional 5"Ø urethane casters-installed** under #651SP-MWTS for moving steel skid into position. .... **\$ 200.00**

**Optional 18"Ø oil wheel skimmer #954-013-installed** – removes oil from wastewater in the swarf container and includes 115VAC, 60Hz wiring and mounting on system. Useful when washing bilges. Requires quiet water for best operation. .... **\$ 759.00**

**Delivery 3 - 5 weeks after receipt of order**

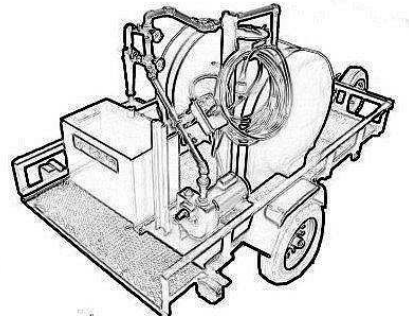
**OPTION #2 – Complete Recycling System – Single Tank**

*For filtering a single larger sump that is used as the dirty tank*

**Model No. 651SP-MWT** (Trailer Mounted) or

**Model No. 651SP-MWTS** (Skid Mounted)

ENCYCLON, Inc. transportable cyclonic filtration system for pressure washer waste water recycling, with 20 GPM flow rate, and 5-micron filtration includes the following components assembled as a complete system:



**Plumbing Configuration**

Included hoses and valves for operation to remove dirty water from sump pit and supply clean water to hose faucet.

**FILTER**

One - ENCYCLON Cyclone assembly complete with (1) Type # 65 cyclone for 5-micron filtration and (1) manifold assembly with pressure gauges.

**FILTER SUPPLY PUMP & MOTOR**

One - 2 H.P. self prime pump, rated at 20 GPM, 15 feet maximum head, with a 3450 RPM, 120 / 1 / 60 cycle (17 amp) totally enclosed electric motor. This pump will use silicon carbide vs. silicon carbide with a viton hard face seal.

**SWARF CONTAINER**

One - Swarf container, with baffled overflow allows easy removal of sludge material. The container overflow has a 90 degree fitting with a hose to be attached to tank. Swarf container will slide out to allow sludge removal and cleaning.

**CLEAN TANK**

One - 125 gallon roto-molded poly tank with bulkhead and cam lock fittings, mounted with (2) powder coated 2" steel straps.

**ELECTRICAL CONTROL**

Two - Waterproof rotary ON / OFF switch boxes. For control of cyclone pump and clean water pump. Electrical is wired to an attached 50 foot standard 30 amp marine shore power cord to supply power.

**CLEAN WATER SUPPLY PUMP**

One - 1 H.P. Shallow Well Pump, Northern Industrial, Model#JGP12001CHT, Stainless steel pump housing, with 15 gpm flow at 5 feet head, self starting pump with pressure switch and gauge, includes 4.4 gallon pressure tank with bladder, with a 3,400 rpm 120V/1ph/60hz (6 amp) motor that includes auto reset thermal protection. Installation includes mounting, electrical, and piping and valve from clean water tank.

**CLEAN WATER STRAINER**

One - Stainless Steel Screen Spin-Down Strainer, Rusco, Model 3/4-100SS-F, 100 Mesh, 20 GPM Max flow, and the screen is easily cleanable by opening a ball valve to flush debris into swarf tank. Installation includes brackets, mounting, and piping. This secondary screen captures biological debris in water that may not have been filtered by cyclone.

**PIPING AND HOSES WITH CAM-LOC FITTINGS**

Set - Cyclone discharge piping from hydro-cyclone to clean tank. Suction Hose, 1-1/2"Ø x 12', Tank Overflow Hose, 2"Ø x 14', Drain Hose, 1"Ø x 4', AND Swarf Overflow Hose, 1" Ø x 9'

**TRAILER #651SP-MWT OR SKID MOUNTED #651SP-MWTS**

One - The system is mounted on a 4 x 8 foot steel trailer (designed to eliminate the need for a dedicated heated space for winterization). Trailer includes spare tire and tongue jack. This unit can also be mounted on a 4 x 6 steel skid, wash primed and coated with industrial grade enamel tank paint. Please specify either 651SP-MWT or 651SP-MWTS mounting platform when ordering.

The above system comes complete with all valves and piping assembled and is tested prior to shipping. The unit includes an operating manual.

**Total for the 651SP-MWT or 651SP-MWTS system ..... \$ 11,911.00**

**Other Accessories:**

**Optional 5"Ø urethane casters-installed** under #651SP-MWTS for moving steel skid into position. .... **\$ 200.00**

**Optional 18"Ø oil wheel skimmer #954-013-installed** – removes oil from wastewater in the swarf container and includes 115VAC, 60Hz wiring and mounting on system. Useful when washing bilges. Requires quiet water for best operation. .... **\$ 759.00**

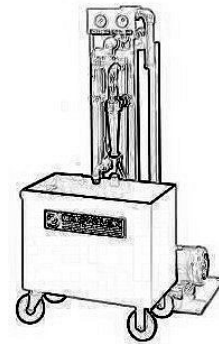
**Delivery 2 - 4 weeks after receipt of order**

**OPTION #3 – Cyclonic Filtration Unit Only – No Tanks**

*Module for filtering with customer designed system and supplied components*

**Model No. 651SPW-MW** (Steel base with casters) or  
**Model No. 651SP-MW** (Steel base without casters)

Encyclon Cyclonic Filtration unit with (1) Type # 65 cyclone plumbed to a self priming cast iron centrifugal pump rated at 20 GPM, 15 feet maximum head, with a Silicon Carbide vs. Silicon Carbide w/ Viton hard face mechanical seal close-coupled to a 2 H.P., 3450 RPM, 120 / 1 / 60 Hz T.E.F.C. electric motor. A waterproof On/Off rotary switch and box with a 50 foot shore cord attached will be supplied and all will be mounted on a steel base. The unit includes a swarf container with baffled overflow. **No clean or dirty tank, hoses, cam-lock fittings, valves, clean water pump, strainer, mounting brackets, or trailer/skid is included with this option.** Please specify either 651SPW-MW or 651SP-MW model when ordering.



**Total for the above unit 651SPW-MW** (Steel base with casters) ..... **\$ 5,335.00**  
**Total for the above unit 651SP-MW** (Steel base without casters) ..... **\$ 5,135.00**

**Other Accessories:**

**Optional 18"Ø oil wheel skimmer #954-013** – removes oil from wastewater and can be used in the swarf container. Useful when washing bilges. Requires quiet water for best operation. Includes power cord with plug for 115VAC, 60Hz operation – **Not installed** ..... **\$ 245.00**

**Delivery 2 - 4 weeks after receipt of order**

**Terms:**

Credit Card (Visa/MasterCard) or  
Net 30 days (with approved credit) from date of shipment  
F.O.B. Encyclon plant, Kenosha, Wisconsin  
Prices are in effect for 30 days from the above date. We reserve the right to make changes in  
above specifications to improve system performance.

**Items required for operation but not included or provided with this quote:**

1. No Installation at the marina is included for system.
2. Non-permeable wash pad surface for collecting boat washing water run-off is required.
3. Sump pit to hold dirty water from wash pad is required.
4. Strainer basket or grate (with 1/8"Ø max perforations) to collect larger debris before sump is required.
5. Electrical service 120V/1 ph/60 hz/30 amp with standard marina female plug is required to operate.
6. This unit must be filled with water prior to use and will periodically require additional water to replace water lost from evaporation.
7. A marina supplied sump pump will be required (unless Option #2 - single tank system is ordered) to supply dirty water from the small sump to the dirty tank mounted on the Encyclon unit.

Please give me a call if you have any questions.

Cordially,



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