# Foaming Tire & Engine Cleaner System

## DUTC1 – DUTC8



| Owner's Manual #0785 V2 02.01.24 | |
|---|---|
| **Serial Number:** | **Installation Date:** |

**IMPORTANT**



**Please read and understand this manual. Store in safe location for future reference.**

**Everyone who operates this unit should understand basic operations and safety precautions!** The time you take to fully understand the proper installation, maintenance and use of the machine will prolong its service life, and assure you of trouble free operation.

When unpacking, check to make sure all the parts shown on the Parts Breakdown near the end of this manual are included. If any parts are missing or broken, please call Dultmeier Sales as soon as possible.

Consumers should notice that this manual may differ slightly from the actual product as more improvements are made to our products. Some of the pictures in this manual may differ slightly from the actual product as well. Dultmeier Sales reserves the right to update designs and / or change the specifications at any time without incurring any obligation to install them on units previously sold.

***If you have any questions or suggestions about this manual, please contact us at:***

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**To avoid serious or fatal personal injury or major property damage, read and follow all safety and operation instructions in the manual.**

This is a **Safety Alert Symbol** -
When you see this symbol in the manual, look for the following signal words & be alert to the potential for personal injury or property damage.

**DANGER** Warns of potential hazards that **WILL** cause serious personal injury, death or property damage.

**WARNING** Warns of potential hazards that **CAN** cause serious personal injury, death or property damage.

**CAUTION** Warns of potential hazards that **WILL** or **CAN** cause minor personal injury, death or property damage.

**IMPORTANT** Indicates special instructions that **MUST** be followed but not related to hazards.

**This manual is intended to assist in the installation and operation of this unit.**
**Do not attempt to operate this unit without reading and understanding this manual.**

## General Safety

*To avoid the risk of serious bodily injury and property damage, read safety instructions carefully before installing this system. Follow all local and/or national plumbing and electrical codes when installing.*

**IMPORTANT**

**Do Not Allow System or Components to Freeze.**
To do so may damage the system and will void the warranty.

**WARNING**

**Never Run the System Dry.**
Running the unit dry (without fluid) can damage internal parts, overheat pump (which can cause burns to people handling or servicing the pump), and will void the warranty.

**WARNING**



Hazardous voltage can shock, burn or cause death.

**Risk of Electric Shock.**
Keep the unit dry at all times -
Do not wash the motor or electrical panel or allow the unit to sit in standing water.

Use only Ground Fault Circuit Interrupter (GFCI) protected grounded outlet for the cord plug.
If you must use an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords. The cord must be rated to support amp draw. Do not allow any part of cord or receptacle ends to sit in water.

*To avoid fatal shocks, proceed as follows if service is needed:*

A. Turn off water to the system.
B. Disconnect the power at main electrical service before unplugging the unit.
C. Ground the electrical outlet box.
D. Take extreme care when changing fuses.




Do not run the unit with discharge shut off, as hose may burst or damage may occur.




Modern motors can operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shutdown before handling.

## Tire Cleaner System Specifications

| | |
|---|---|
| Model(s) | **DUTC_** |
| Style | Centrifugal Pump |
| Motor | 3/4 HP, 1 PH |
| Pump | EA70-17DE |
| Capacity | 17 GPM* |
| PSI | 30* |
| Dimensions | Approx. 50”H x 32”W x 14”D |
| Shipping Weight | Approx. 85 lbs. |

* Rates based on unrestricted pump outlet. Not through solenoid, bay hose, etc.

## System Features

Easily adapts to existing wash equipment. Simply spice into your high pressure discharge lines & tire cleaner product can be applied through a standard spray gun. All fittings and tubing are supplied for chemical and air lines. These systems are designed to “Foam” the tire cleaner product onto the surface of the tire. An air compressor is required but is not included with these units. All Tire & Engine Cleaner Systems are Pre-Wired, Pre-Plumbed and tested prior to shipment.

**Standard Components Include:**

Stainless Steel Close-coupled Centrifugal Transfer Pump

Start-Up Chemicals/Whitewall Cleaner

Stainless Steel Automatic Mixing Tank with Hydrominder Valve

Automatic Stainless Steel Holding Tank

Hydrominder Mixing Valve

Stainless Steel Solenoids with Metering Screws

Pre-Wired Electrical Panel

Stainless Steel Support Frame with Leveler Legs

High Pressure Stainless Steel Check Valves for each bay

Foam Modules for each bay

Bay Instruction Signs

Stainless Steel Wall Booms

All necessary Tubing and Fittings

## Placement

1. Place system where it will be easily accessible for service. To level the unit: Screw the threaded feet provided into the female threads on the bottom of each stand leg. **(Fig. 1)**



*figure 1*

## Electrical

1. Run the signal wire from the bay meter to the appropriate terminal block in the electrical panel in the equipment room. Electrician to run 2 wire 18 gauge stranded wire cable from Tire Cleaner and Common Terminals in Electrical Panel of each Pump Station to Terminal Block in Electrical Panel for Tire Cleaner System.

2. Electrician to size 110 volt circuit requirement to amperage information on motor nameplate. Plug unit into standard of GFI receptacle as dictated by local regulations.

IMPORTANT

## Plumbing

1. Run city pressure line to 3/4” inlet on tank assembly with the hose and fittings provided. **(Fig. 2)**

2. Place manifolds provided as close as possible to high pressure booms. Manifolds must tee into high pressure run lines from Pump Stations.

3. Run 1/4” tubing provided from air and chemical solenoids for each bay to manifolds. **(Fig. 3)**

4. Run air supply line to inlet of air regulator.

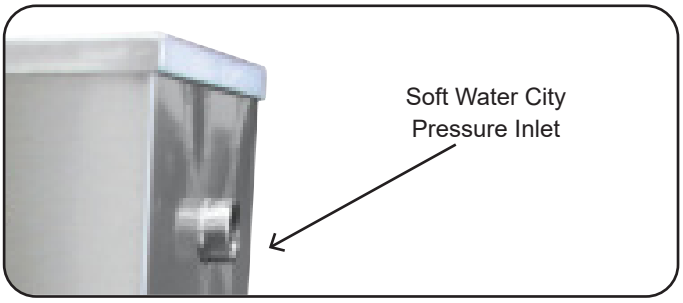



*figure 2*

IMPORTANT **2 CFM is required.**

IMPORTANT **It is recommended that soft water supply is used if available.**

IMPORTANT **Water supply pressure should not exceed 60 PSI. Plumber to supply pressure regulator if required.**

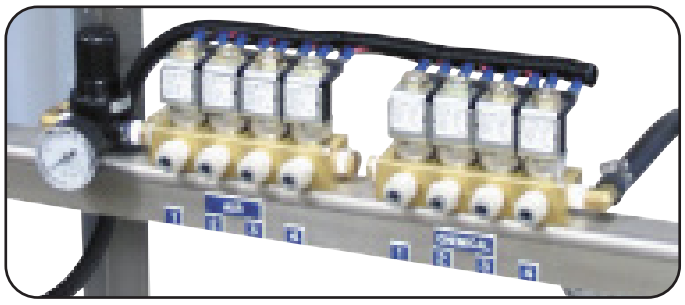


*figure 3*

## Chemical Setup

1. Select the proper mix tip for chemical and screw into chemical inlet port on Hydrominder. **(Fig. 4)**

   ***Consult Hydrominder instructions and chemical product label for further dilution information.***

2. Attach chemical pickup tubing to chemical inlet port on Hydrominder and place other end with foot valve strainer and weight into bulk soap container.

3. Fill tank to 2/3 capacity. Level is set by changing the length of the chain for the float.

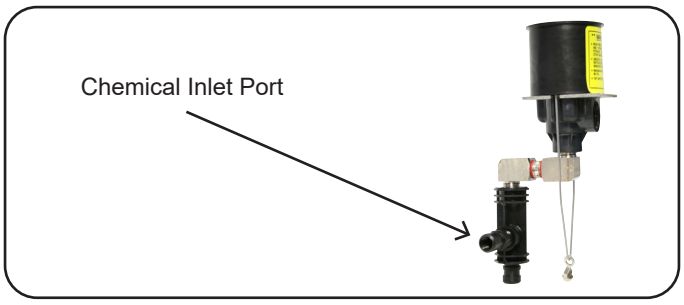



***figure 4***

## Testing & Operation

1. Open ball valve on discharge of tank and turn on power to motor. This system was designed with isolating relays for each bay to power main relay for pump motor.

2. Turn the menu switch in first bay to Tire Cleaner and ensure that chemical appears in bay.

3. Air pressure is set at factory. If regulation is needed, turn handle on air regulator clockwise for more pressure, and counterclockwise for less pressure. **(Fig. 5)**

IMPORTANT ***Refer to Chemical Setup section above if Foam is not adequate.***

4. Check for proper flow in all bays.

IMPORTANT **Pump pressure is set at factory with no regulation required.**

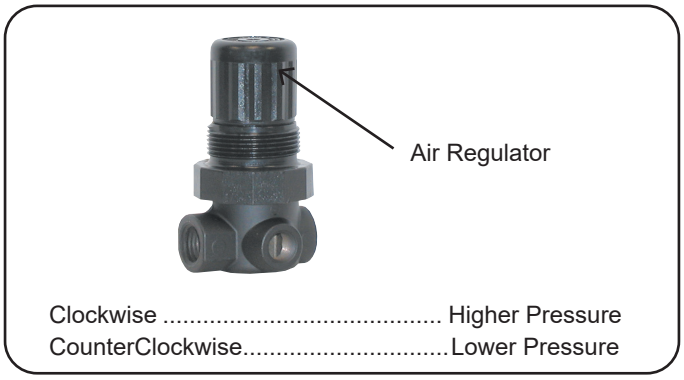
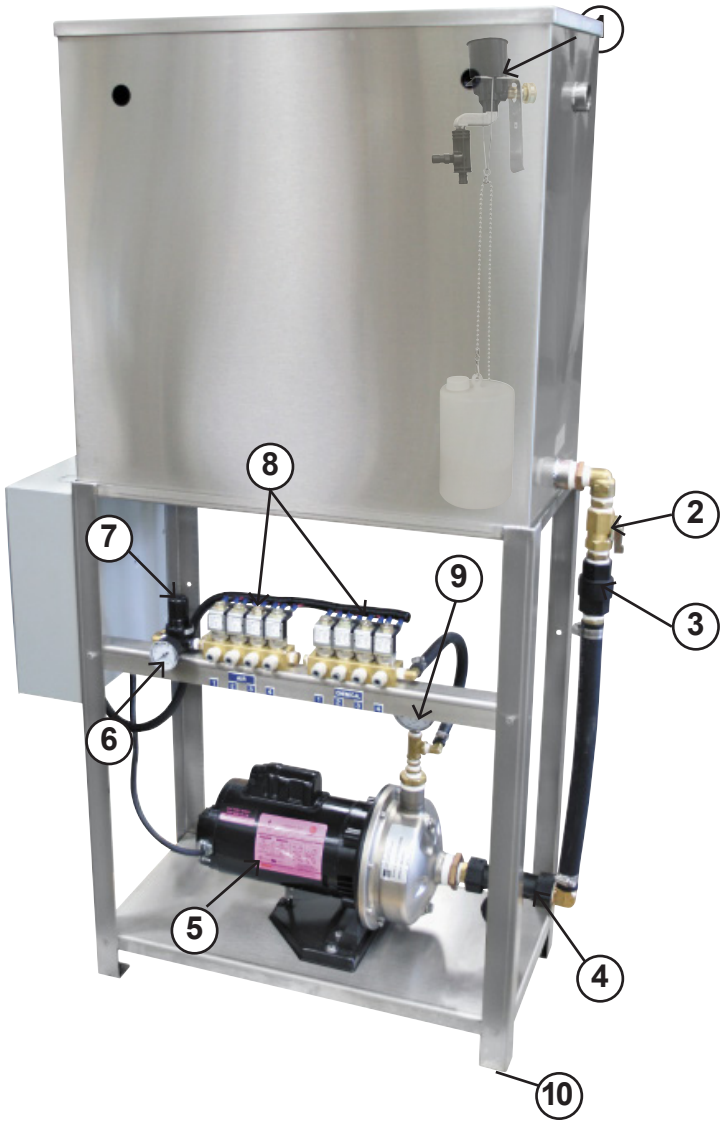



***figure 5***

## Parts Breakdown: DUTC4




| Item | Part Number | Description |
|---|---|---|
| 1 | HR507 | Hydrominder |
| 2 | SM3306-305 | Ball Valve, Brass 3/4” |
| 3 | SM687-12E | Check Valve, 3/4” |
| 4 | IPFY34 | Y-Line Strainer |
| 5 | EA70-17DE | Pump/Motor Unit :: 3/4 HP, 1 PH |
| 6 | AHJ508 | 100# Air Pressure Gauge |
| 7 | PA14R113FC | Air Regulator |
| 8 | KI2X911VM4 | Air & Chemical Solenoids |
| | *KI2X911-24* | *Replacement Plunger (Not Shown)* |
| 9 | AH1DP100 | 100# Fluid Pressure Gauge |
| 10 | *UL K175* | *Threaded Foot (4 Included - Not Shown)* |
| | *AA7450* | *High Pressure Check Valve (In Bay Manifold - Not Shown)* |
| | *GE1CV-250* | *Low Pressure Check Valve (In Bay Manifold - Not Shown)* |
| | *TUEQ383* | *Holding Tank w/ Lid, 15 gallon (Not Shown)* |
| | TUHP78-5 | Tire and Wheel Cleaner, 5 Gallon Pail |

# Notice Regarding Manufacturer's Limited Warranty

Dultmeier Sales Limited Liability Company (hereinafter Dultmeier), notifies you that component part(s) carry a manufacturer's limited warranty provided by the manufacturer of said component part(s). These warranties do not pertain to normal wear of component part(s) that may occur within any specified period. While Dultmeier is not the manufacturer of any of the component part(s), Dultmeier will assist you in processing any and all manufacturer's warranty claim if applicable and available. Any and all manufacturer's claims must be submitted in writing to the manufacturer within the warranty periods provided by the manufacturer.

Defective component part(s) that are to be considered for manufacturer's limited warranty must be returned to the manufacturer by prepaid shipment with the applicable manufacturer's limited warranty period. If the component part(s) are deemed to be defective under the manufacturer's warranty, Dultmeier will assist in obtaining a replacement or repair of the component part(s). Said component part(s) will be returned F.O.B. Omaha, Nebraska. Replacement or repair shall be the exclusive remedy for any breach of warranty. Labor for installation, either with respect to original or replacement part or components, is not covered under the manufacturer's limited warranty.

Neither the manufacturer nor Dultmeier warrants loss of income or consequential damages for injury or commercial loss resulting from any breach of warranty or warranties stated above.

The manufacturer's limited warranty as stated does not apply to component part(s) which have been improperly installed, misused, altered, neglected, abused or not installed, adjusted, maintained, or used in accordance with applicable codes and ordinances and in accordance with the manufacturer's specifications as to such factors.

Notwithstanding Dultmeier's willingness to assist in the processing of the manufacturer's limited warranty, Dultmeier makes no warranty against infringement of the like, makes no warranty of merchantability, makes no warranty of fitness for a particular purpose, and makes no other warranty, express or implied, including implied warranty arising from the course of dealing or usage of trade.

Compliance with all local, state and federal codes regarding the installation and operation of said equipment, parts and components shall be the responsibility of the purchaser. The rights and obligations of the parties shall be governed by the laws of the State of Nebraska.

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