



## **Eco-Pro 360 Cart**

### **Operation & Maintenance Manual**

**Warning: Read instructions carefully before attempting to install, operate or service. Retain instructions for future reference.**

## Introduction

The Eco-Pro 360 Cart is a pump and filter combination that can be used with 5 to 30 gallons of material. The seals are chemical resistant, so they won't break down. It operates on compressed air, no electrical is needed.

When used in conjunction with Eco-Pro 360 solution, it removes rust, calcium, and limescale within cooling passages, heat exchangers, chill rolls, portable chillers, and other water lines. The built-in filter function allows the Eco-Pro 360 solution to remain at peak performance for optimal reusability.

## Specifications

**Pump:** Air-Operated Diaphragm  
Max Flow Rate: 13.5 GPM  
Air Supply: 20-100 PSI  
Material: Polypropylene, PTFE seals

**Fittings (2 each):** 1/2", 3/4", 1", 1 1/4", 1 1/2" – NPT Polypropylene

**Hose:** 50' of 1/2" ID Clear PVC (25' supply, 25' return)

**Operating capacity:** 5 to 30 Gallons

**Dimensions:** 35" Length x 26 1/2" Wide x 35" Height

**Weight:** 140 Lbs

## Safety Features

**Pressure Relief Valve:** Allows chemical to be safely returned to container/drum when blockage is present

**Air Diaphragm Pump:** Senses pressure feedback and ceases operation at specific pressures (Shut Off PSI). In most cases the Shut Off PSI is approx. 10 psi less than air supply being used.

Examples:

Operating PSI	Shut Off PSI	Output PSI (at 25')
80	70	25
100	90	30
120	110	35

## Before First Use

**!!! IMPORTANT !!!**

For first time set up, you will need to remove the cellophane from the filter. Once completed, be sure to tighten the filter housing unit using the wrench provided.

## Operation

### Instructions for Flushing Cooling Passages with iD Eco-Pro 360

- 1) Attach appropriate couplings to both the “Inlet” & “Outlet” main lines (reference Fig. 1)
- 2) Connect the “Inlet” & “Outlet” lines to their respective connections on your mold. (reference Fig. 1)
- 3) Place the “Filter Out” line in a bucket or other receptacle to collect water (reference Fig. 6)
- 4) Bypass the filter by turning the knob on top of the filter housing counterclockwise. It will be perpendicular to the housing (reference Fig. 2)
- 5) Connect air supply to “Blow Out Air” fitting (reference Fig. 1)
- 6) Turn valve on top of cart to “Blow out” (reference Fig. 7)
- 7) Slowly turn air valve labeled “Blow Out Air” until air starts to flush the water from your Mold (reference Fig. 1)
- 8) Disconnect your air
- 9) Direct flow through the filter by turning the knob on top of the filter housing clockwise to align with tubing (reference Fig. 3)
- 10) Turn valve on top of cart to “Pump” (reference Fig. 7)
- 11) Insert “Eco Inlet” tube into drum containing material (reference Fig. 2 & 5)
- 12) Connect “Filter Out” to opposite side of drum containing material (reference Fig. 2 & 6)
- 13) Connect air supply to “Pump Air” (reference Fig. 1)
- 14) Slowly turn air valve labeled “Pump Air” until pump starts pumping (reference Fig. 1)
- 15) It is recommended that you flush for a minimum of one hour. Times will vary based on condition of passages

16) Once done flushing, connect air supply to “Blow Out Air”, turn valve to “Blow Out” and blow out any excess Eco-Pro 360, so it returns to tank. (reference Fig. 1 & 7)

17) Continue to air dry

**NOTE:** If flushing a mold with aluminum lines, or a closed mold with brass inserts (or any other non-ferrous metal) and/or rubber O-rings, you will need to back flush with water to break the chemical residue down. Be sure to blow out as much chemical as you can, bypassing the filter as described in step 4, and flush with water.

### Notes for Flushing Heat Exchangers with iD Eco-Pro 360

- **Important:** If you are running oil on either shell or tube side of your heat exchanger, Eco-Pro 360 chemical will not remove it. Only use the chemical for sides running water.
- The same steps above can be followed for flushing out heat exchangers
- If you want to leave your heat exchanger on the machine, install a T-Valve with shut off, so you can plug into the heat exchanger. You would need to do this for the supply and return side for any/all sides you wish to run the chemical through.
- Most heat exchangers have copper in them. You will need to back flush with water following the same steps as above, just be sure to blow out all chemical, bypassing the filter, so that the water will not break down any remaining chemical in the filter housing unit.

**Photo References for Operation**



Fig. 1



Fig. 2



Fig. 5



Fig. 6



Fig. 3



Fig. 7

Fig. 2

## Maintenance

Replace filter cartridge as needed

## Parts

Tuskin #	Description
80012	Filter
80013	Replacement Filter Cartridge
80014	Pump
80028	Caster, Rigid
80030	Caster, Swivel
80044	3-Way Ball Valve
80046	Check Valve
P2702-EC	Dip Tube
ECD15	Drum Adapter Kit

## Warranty and Factory Service

Tuskin Equipment Corporation warrants its products against defects in materials and workmanship. If a failure results from such defects within One (1) year of Customer delivery, Tuskin will, at its option, repair or replace the defective unit free of all charges except for special shipping charges (UPS ground is standard).

All in-warranty and service returns must be accompanied with a Tuskin Return Authorization. For questions or to obtain a Return Authorization, contact:

**Tuskin Equipment Corp.**  
**1-800-887-5461**

**[www.tuskin.com](http://www.tuskin.com)**

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