



Operator's Manual

For Technical Support Please Call:

620-491-0461



Parts Included List:

Greenleaf easyFlow (Coupler and two Adaptors)	(X6) 3/4" Hose Clamp(Large)	(X2) 3/8" x 2 1/2" Hex Head Bolts
3 Way Ball Valve	(X2) 3/8" Hose Clamp(Small)	(X2) 3/8" Flat Washer
2" Stubby Ball Valve	Stainless Steel Tank Assembly	(X4) 3/8" Flange Lock Nuts
220 Venturi(Optional)	Breather Vent	3/4" Clear Braided Hose (Main Rinse Supply)
220/100 Tee	Stand Post	3/4" Black Hose/Long (Greenleaf Rinse Supply)
(X3)220 Clamp	Stand Rear Foot	3/4" Black Hose/Short (Tank Rinse Supply)
(X3)220 Gasket	(X6) 5mm Button Head screws	3/8" Black Hose (Sight Gauge Purge Supply)
(X4)100 Clamp	(X6) 5mm Lock Washers	
(X4)100 Gasket	(X6) 5mm Washers	
	(X2) 3/8" x 3/4" Flange Head Bolts	

Tools Required for Assembly: 3mm Allen Wrench (1/4 Ratchet with extension/socket helps)

5/16" Socket Driver (For Clamps)

1/4" Socket Driver (For Clamps)

9/16" Wrench & Socket for Stand/Tank Assembly

Level

Parts NOT Included:

(X3) 3/8" Fasteners for hard mounting system to work platform

(Possible) Shims for leveling system on uneven mounting surface



Assembly Instructions:

- 1-Unpackage and account for all items from Parts Included List.
- 2-Using (2) 3/8-16 x 2 1/2" Hex bolts, washers, and lock nuts, fasten Stand Rear Foot to Stand Post. Do not torque down as later adjustment may be needed for leveling tank.
- 3-Using (2) 3/8-16 x 3/4" Flange Bolts and lock nuts, fasten Tank to Stand Post. (First Page of Pictures)
- 4-Using 220 Clamp/Gasket attach Stubby Ball Valve to bottom of tank with Yellow Handle facing directly away from Stand Post. Make sure to orient clamp to where opening is aligned with lower sight gauge barb, if not the clamp will not be able to close properly.

(((Figure 1)))



(((Figure 1)))

(((Figure 2)))



(((Figure 2)))

- 5-Install Banjo Venturi to bottom of Stubby Valve. **(((Figure 1)))**

There are many venturi setup options that are compatible with the Chem-Blade Caddy. For proper functionality the rinse supply must be on the venturi inlet or pressure side. Banjo Part# MIS200 & MIS300 are directly compatible as they have integrated 3/4" NPT plugs to install rinse supply to.

- 6-Using Clamps & Gasket install Tee to inlet side of Venturi. Via 100 Clamp/Gasket install 100 Flange to 3/4" Barb onto Tee. **(((Figure 2)))**

- 7-Remove (2) Nuts/Lock Washers from 3-Way 100 valve, Install onto Tank's valve mount. Install 100 Flange 3/4" Barb Straight to bottom/center port of 3-Way Valve. Use Clear braided hose with hose clamps to make connection between valve and lower Tee in front of Venturi. **(((Figure 2)))**

- 8-Install lock washer and flat washers to 5mm Socket Head Screws. Apply screws through mounting holes of Greenleaf easyFlow then press black gasket onto screws **(((Figure 3)))**. This will help align gaskets and screws when installing to tank. **IMPORTANT** Orient Greenleaf easyFlow onto tank with

RED TAB directly over Upper Sight Gauge Pipe. Use 3mm Allen Wrench to first gently start each screw then proceed to tightening down in a star pattern until gasket squishes effectively. Caution DO NOT OVERTIGHTEN (((Figure 3A)))

(((Figure 3)))



(((Figure 3A)))



(((Figure 3)))

(((Figure 3A)))

9-Lubricate and install O-Ring into Brass Barb Fitting then thread onto easyFlow Rinse Port.

10-Install $\frac{3}{4}$ " Barb Elbow to 3-Way Valve port pointing straight down. (((Figure 4))) Correct port location is IMPORTANT for correlation to Operation Instructions. Connect via Black Hose/Long to Brass Barb easyFlow inlet with clamps.

(((Figure 4)))



(((Figure 4)))

(((Figure 5)))



(((Figure 5)))

11-Install 3/4" Barb Elbow to remaining 3-Way Valve port. Make connection via Black Hose/Short with clamps to Stainless Barb exiting top of tank. (((Figure 5)))

12-Using Small Hose Clamps, install 3/8" Black Hose from previous Stainless Barb Tee (((Figure 5))) to Barb Elbow exiting Sight Gauge. (((Figure 6)))

(((Figure 6)))



13-Thread the Breather Vent into street elbow at top of tank.

14-Confirm plumbing into and out of Caddy is configured and finalized before advancing to Further Tank Mounting Steps.

Tank Permanent Mounting Steps:

Mobile--- 3/8-16 Fasteners are recommended. Grade 5 bolts for wood deck applications. Additional support or heavy fender washers are recommended for expanded metal truck/trailer surfaces. Attempt to install with vehicle on level surface for highest accuracy of sight gauge.

Stationary--- 3/8-16 Concrete Fasteners are recommended. Note: Adjustment of stand hardware may aid in leveling the tank. Composite shims are recommended for uneven mounting surfaces.

Precautionary Statements

Warning! Residues of Plant Protection Products can cause the following:

-Breathing difficulties, poisoning, loss of consciousness or other life-threatening conditions due to inhalation or swallowing!

-Allergies and skin irritations due to skin contact!

Alert!

-When using the easyFlow with Plant Protection Products wear standard personal protective equipment that is recommended during mixing and loading of PPP, such protective gloves, long sleeved shirts and trousers, shoes, face shield, and full respirator.

Maximum operating pressure 90 psi (6 Bar)!

Minimum operating pressure 30 psi (2 Bar), for adequate rinsing!

Banjo Venturi Models-Minimum 70GPM Main Supply Flow

1" Venturi Models-Minimum 20 GPM Main Supply Flow

Steps for Successful Jug Contents; Measure, Transfer, and Clean

---Read and Understand all Safety Labeling before Operating! ---

1-Remove Jug Cap and install Jug Adaptor(extended).

2-Ensure TANK OUTLET VALVE and **YELLOW VALVE** are closed.

3-Push in **RED HOOP HANDLE**, remove Coupler Plug.

4-Lower Jug/Adaptor down into Coupler, once seated pull **RED HOOP HANDLE**. (Lock mechanism will only engage with full seating of adaptor.)

5-Apply downward pressure on Jug to collapse Adaptor and thus cut the jug's foil seal open.



Jug Adaptor Extended/Closed



Jug Adaptor Compressed/Open

6-Rotate **RED HOOP HANDLE** clockwise to open valve and release jug contents into tank. Intermittently feather the valve open/closed to release finite amounts for precision measuring.

7-Fill tank to desired level. Roll O-Rings to set predetermined fill amounts on sight gauge. Wetting and twisting the O-Rings allow for smaller adjustments.

8-Once desired tank fill level is met, rotate **RED HOOP HANDLE** counterclockwise to the closed position. With pump/supply flow pressurized, Open TANK OUTLET VALVE to allow venturi suction to empty tank contents.

9-To perform JUG INTERIOR RINSE. Rotate **YELLOW VALVE** clockwise, then rotate **RED HOOP HANDLE**, allowing it to automatically press the Red Tab. Directional rinse will spray into container, rotate jug by hand to clean from various angles. Allow rinse to perform for at least 30 seconds. (Viscosity of chemical and water supply pressure/flow determine duration of rinse for complete cleaning action. Required time may vary)

10-To perform Adaptor rinse at this time. Rotate YELLOW VALVE clockwise, with **RED HOOP HANDLE** closed, manually press **RED TAB** to perform Adaptor Rinse. Hold for 10-20 seconds

11-To perform TANK RINSE, **TANK OUTLET VALVE MUST BE FULLY OPEN!** Rotate **YELLOW VALVE** counterclockwise, use for short intervals, watching sight gauge to ensure tank does not overfill. (WARNING-Sight Gauge is purged with TANK RINSE, only with rinse OFF can operator see Tank Fill Level. 20-30 seconds of rinse time is recommended for standard rinse. WARNING, IT IS CRITICAL THAT THE TANK RINSE IS PERFORMED AFTER EACH APPLICATION TO AVOID CROSS CONTAMINATION OF CHEMICALS. Manufacture is not responsible for cross contamination of chemicals that may cause damage to property, persons, crops or animals.

12-To achieve the fastest jug empty times by releasing contents without measuring and immediately inducing the **YELLOW VALVE** must be clockwise. This allows air to travel through the Caddy's jug interior rinse system and help the pressurization equal. If the **YELLOW VALVE** is not open during direct release/induction of chemical the plastic jug's walls will collapse and the interior will vacuum lock thus greatly reducing flow.

If you have any questions regarding the assembly or operation of the Chem-Blade Caddy we urge you to call us direct. We would be glad to quickly help so that you can get back to spraying!

Basic Operating Instructions

[Please read and understand the OWNER'S MANUAL before operating. Do not transport system with liquid fill or container coupled.]

YELLOW VALVE CENTERED = Closed and ready for Jug Content Release/Measure.

YELLOW VALVE CLOCKWISE = Jug Interior and Jug Coupler Rinse Supply - Must use **RED TAB** to activate.

YELLOW VALVE COUNTERCLOCKWISE = Tank Rinse ON. DO NOT OPERATE UNLESS **TANK OUTLET VALVE** IS OPEN!

RED HOOP HANDLE

Pushed IN = Jug Coupler Unlocked.

Pulled OUT = Jug Coupler Locked.

COUNTERCLOCKWISE = Coupler Valve CLOSED.

CLOCKWISE = Coupler Valve OPEN.

RED TAB

- Manually pressed with **RED HOOP HANDLE** closed, activates Jug Coupler Rinse.

- Automatically pressed with **RED HOOP HANDLE** opened, activates Jug Interior Rinse.

*[**YELLOW VALVE** must be clockwise/ON for both **RED TAB** functions.]*

JUG CONTENT DIRECT RELEASE

For direct release of jug contents with **TANK OUTLET VALVE** open and under suction; **YELLOW VALVE** must be clockwise/Jug Interior Rinse ON to prevent Jug's interior from vacuum locking.

Warranty Information:

Eck Fabrication LLC takes no liability or responsibility for any crop, seed, property, or bodily damage or harm created by the Chem-Blade Caddy System. Please operate with focus and care as the chemical products used can be very hazardous. Comply with all PPE requirements on container labels. Only persons licensed and properly trained in the application of chemicals should operate the Chem-Blade Caddy System. Any person who undertakes the use of this system assumes the inherent risks associated with the handling and application of chemical products and should only do so in accordance with container labels and applicable local, state and federal laws and regulations. Any operator of the Chem-Blade Caddy System agrees to defend and hold Eck Fabrication LLC harmless from any damages, suits, claims or causes of actions due to improper use of its product.

One Year Warranty from date of purchase covering the Tank, Stand, and easyFlow system from faulty components or defects in workmanship. All hardware & plumbing are not included in warranty. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

Note!

Any use of the Caddy, not explicitly indicated by this manual, is strictly prohibited.

Non-compliance will result in a partial or total loss of the product warranty.

Modifications or changes to the machine are only permitted after consultation with, and agreement from, the manufacturer. Original spare parts and accessories authorized by the manufacturer ensure safety. The use of other parts may exempt the manufacturer from liability for the resulting consequences.

Eck Fabrication LLC assumes no liability for damages resulting from the improper use of the Chem-Blade Caddy

Product. SIGHT GAUGE ACCURACY GARAUNTEE: We guarantee the factory installed Sight Gauge to an accuracy of +/- 2 US fl oz.

FREE WARNING/INSTRUCTION LABEL REPLACEMENT: If your warning or instruction labels become illegible or are missing, call 620-491-0461 for a free replacement.

The Chem-Blade Caddy is Proudly Manufactured in the U.S.A. by



525 NW 20TH AVE.

KINGMAN, KS 67068

620-491-0461

WWW.ECKFAB.COM

ALL RIGHTS RESERVED COPYRIGHT BY ECK FAB LLC