The Handler: a complete product guide

A WORLD-CLASS CHEMICAL HANDLING SYSTEM FOR BOTH GROUND AND AERIAL APPLICATORS:
LOAD YOUR SPRAYER FASTER AND GET BACK IN THE FIELD.

One of the biggest headaches in agricultural spraying is getting your crop protection products safely loaded, mixed and transported to the sprayer in as little time as possible, while minimizing product contact. The Handler accomplishes this.

The Handler is a proprietary line of chemical handling systems that enables quick, easy and safe mixing and loading of agricultural chemicals into sprayers, airplanes and hauling tank systems. Originally developed by a Canadian farmer who was tired of having to climb up onto his sprayer to dump 2 1/2 gallon jugs of chemical, only to have to fight with rinsing them, the Handler has evolved into a total crop protection management system.

Available in 20 different models, and loaded with innovative features, The Handler has been proven on tens of thousands of farms across the world to reduce the time that it takes to properly mix and load a sprayer. The key to a successful spraying operation is spending less time loading and more time spraying, without sacrificing safety. The Handler combines safety, speed and effectiveness into a unit which will become the lifeblood of any spraying operation.

- Increase in the size of the wash line connections from 3/4” to 1”.
- Possibility of leaks are reduced by the removal of threaded fittings on all wash, rinse and agitation lines.
- New bolted fitting in the bottom of the tank for improved drainage.
- Exclusive double venturi for easy emptying of bulk containers.
- Weatherproof, UV resistant black hose throughout.
- Dedicated, venturi powered bulk suction line.
- Fresh water rinse line for equipment cleanup and line rinsing.
- Newly updated 3” seamless Handler bypass offers the highest volume bypass flow over previous models.

25,000+ FARMERS CAN’T BE WRONG.
The Handler became the top selling specialty loading system in North America because of its ability to cut, empty and rinse a container in seconds. As spraying has changed, so has The Handler. In addition to The Handler knife, the system also mixes powders and dry products easily and quickly, draws from bulk containers using the Handler venturi on select models, and utilizes cone-bottom tanks to easily accommodate batch mixtures and bulk chemical metering.

THE HANDLER IS SUCH A GREAT INVESTMENT FOR YOUR SPRAYING OPERATION, YOU’LL WONDER WHY YOU DIDN’T BUY ONE BEFORE!

THE HANDLER COMES COMPLETE WITH:

- 2 or 3 inch camlocks for easy hook-up
- A proprietary, high-performance dual inlet venturi fitting, to empty your Handler in seconds using only the water flow from virtually any transfer pump (Handler I, II & III)
- Bulk adapter connections to draw chemical directly from bulk containers or totes without the need for a separate, slow chemical pump (Handler II, III and IV Models).
- A high-visibility, calibrated, cone-bottom tank that works on any terrain
- Optional frames that accommodate any 2 or 3 inch transfer pump (Handler II, III & IV)
- Optional recirculation packages to allow for batch mixing (Handler II, III & IV)

FEATURES & BENEFITS

1. Increased speed and the reduction of the bottlenecks normally associated with loading a sprayer are the keys to spending less time loading the sprayer and more time using it. The Handler EXCLUSIVE double venturi allows for easy and seamless suction between the Handler tank and an outside bulk container.

2. Each Handler II, III and IV is now bulk ready, allowing you to cut out low volume 12 volt pumps and utilize the proven speed of the Handler venturi to move chemical faster than ever.

3. Draw from bulk containers using your Handler II, III, IV and V. By adding a 1” or 2” Banjo magnetic flow meter, 1” GPI flow meter, or Dura Meter for optional metering, you use the Handler venturi to directly induct product into the fill line. This non-mechanical process eliminates the need for slow chemical pumps and simply won’t break down.

4. RotaCraft tank rinse nozzles come standard inside every Handler III, IV and V. These high capacity tank rinse nozzles prevent cross contamination, and quickly and easily rinses out the tank.

5. A newly updated plumbing system featuring Banjo Manifold threadless fittings on all wash, rinse, and agitation lines, is available with every Handler II, III and IV model. With the manifold system leaks are eliminated and parts are easier to repair or replace.

6. A “pump-less” kit is optional with the Handler II, III, and IV. The kit comes complete with a recirculation package (making it easy to batch mix virtually any chemical); a pump frame (Handler II and III only); and all of the assembly hardware needed to mount your own pump.

THE SECRET OF THE HANDLER KNIFE

The Handler uses the original knife system to cut plastic chemical containers, empty their contents for mixing, and fully rinsing the container for safe disposal. This all in less than 30 seconds while filling your sprayer! There is no waste or residue chemical left in the container once rinsed. Working in conjunction with a custom-made Handler venturi, the Handler can save you time and money, and decrease your risk of exposure to potentially harmful chemicals.

www.polywest.ca
# Handler Model Matrix

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<th>Handler ID</th>
<th>Volume (USG/L)</th>
<th>Calibration (US/IMP/L)</th>
<th>Fitting (2&quot;/3&quot;)</th>
<th>Venturi Size (1.5&quot;/2&quot;)</th>
<th>Rota Craft</th>
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www.polywest.ca
The H12 is the most compact Handler and is designed for direct induction of chemical into sprayers. This is the leanest model that will pierce, empty, and clean 10L and 20L jugs without slowing down your sprayer filling. Ideal for one man operations, those with limited space, and anyone looking to improve the jug-handling tanks that come with most new sprayers. The Handler I is a free standing unit and is a popular factory installed option with some of the top sprayers on the market today.

The Handler I also features a special venturi designed for sprayers with capacities of 500 gallons or less.

Quick Specifications
- 15 US GAL/59 L
- 2” CAMLOCK CONNECTIONS
- 16” THREADED LID
- 1.5” VENTURI

Features and Benefits
- Compact space saver.
- Comes with the original Handler knife.
- Capable of piercing, emptying and rinsing 10L/20L containers easily.
- Simple four-valve operation.

Interested in seeing more information on how The Handler works?

Check out our YouTube video!
The H22P55 is all of the functionality you need for sprayer filling in a compact and cost-effective platform. The integrated transfer pump performs sprayer filling along with all of your liquid and dry handling needs; closed loop recirculation and agitation, bulk chemical induction, 10L / 20L container emptying and rinsing, direct chemical induction to sprayer. The field tested valve arrangement allows you to use it whichever way suits your application; a venturi based system that keeps the water pump free of chemical at all times, or a closed loop recirculation system for aggressive agitation and even faster chemical handling.

The H22P55 comes standard with Polywest’s proprietary dual-inlet venturi. This allows the venturi to draw from the Handler tank or from a bulk chemical container without any extra plumbing or hoses.

**H22P55**

**Features and Benefits**

- Full 10L/20L container emptying and rinsing capabilities.
- Comes with The Handler knife.
- Closed loop recirculation.
- Venturi with Handler and bulk draw capabilities.
- Tank can be emptied via the venturi or via direct pump draw.

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**Similar Models**

- H22
- H22RK

**Quick Specifications**

- 42 US GAL/160L
- 2” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- 2” BANJO PUMP / GX160 HONDA
The H23 is the most compact model that still offers all the flow and functionality of the larger models. Suitable for everything from dry flowables, to 10L and 20L containers, to bulk containers, this is the most compact 3” inductor system on the market. Water is simply pumped to the inlet of the H23 which provides the flow to; agitate and fill the tank, empty and rinse containers, power the dual inlet venturi, rinse the tank, and of course transfer water to your sprayer tank.

The Polywest exclusive dual inlet venturi comes plumbed to draw from your choice of the Handler tank or your bulk containers, directly into your sprayer fill line.

The full 3” bypass line on the H23 is designed to handle the rigors of any pump with capacities of up to 280 GPM (1060 LPM) without any concern for pressure. Banjo’s exclusive sweep elbows are used to eliminate as much line turbulence as possible.

**QUICK SPECIFICATIONS**

- 42 US GAL/160L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI

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**FEATURES AND BENEFITS**

- Full 10L/20L container emptying and rinsing capabilities.
- Comes with the original Handler knife.
- Dual port venturi with Handler and bulk draw capabilities.
- Durable 3” bypass for flows up to 280 GPM.

**SIMILAR MODELS**

- H23RK
- H23P65
- H33
The H23P65 is the first model in the Handler line to utilize the one-piece bypass tube manufactured by Polywest. The one piece rotationally molded bypass tube has a perfectly smooth inner wall and eliminates the turbulence caused by wall irregularities found with flanged or threaded fitting connections.

In addition, the larger elliptical centre section acts as a turbulence dampener which further reduces flow losses. All together, testing has shown the exclusive Polywest bypass tube to improve bypass flow by 5% over similar plumbing made with threaded or flanged fittings.

Designed specifically to work with a Banjo 300PO pump powered by a GX200 Honda engine, the 3” bypass tube maximizes the possible flow from this pump. The bypass tube is available on all Handler models that are equipped with this pump.

### QUICK SPECIFICATIONS

- 42 US GAL/160L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- 3” BANJO PUMP/GX200 HONDA ENGINE

### SIMILAR MODELS

- H22P55
- H23RK
- H33P65

### FEATURES AND BENEFITS

- Full 10L/20L container emptying and rinsing capabilities.
- Comes with the original Handler knife.
- Dual port venturi with Handler and bulk draw capabilities.
- Polywest Exclusive 3” bypass to maximize pump flow and reduce tank fill time.
- Closed loop recirculation and agitation.

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After 20 years, the H32P55 remains one of the best selling models in the entire Handler lineup. A larger 70 US gallon tank allows for handling higher volumes of dry flowables and powders which can be easily mixed into solution with the integrated pump and closed loop recirculation. Full functionality includes: Handler tank filling and agitation, closed loop recirculation, dual inlet venturi draw from your choice of Handler tank or bulk containers, 10L & 20L container emptying and rinsing, tank rinsing, a wash line, and of course water transfer to the sprayer tank.

All the functionality with a larger tank, combined with cost effective 2” plumbing and pump, make the H32P55 a steady favourite on the farm.

**QUICK SPECIFICATIONS**

- 70 US GAL/275L
- 2” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- 2” BANJO PUMP/GX200 HONDA ENGINE
- ROTACRAFT TANK RINSING NOZZLE

**FEATURES AND BENEFITS**

- Full 10L/20L container emptying and rinsing capabilities.
- Dual port venturi with Handler and bulk draw capabilities.
- Integrated transfer pump.
- Comes with the original Handler knife.
- Closed loop recirculation and agitation.
- Tank emptying by venturi or direct pump draw.

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**SIMILAR MODELS**

- H22P55
- H32RK
- H32
The H33 is the super-sized version of the popular H23. With its larger tank it is perfect for handling everything from dry flowables, to 10L and 20L containers, to bulk containers. Water is simply pumped to the inlet of the H33 which provides the flow to: agitate and fill the tank, empty and rinse containers, power the dual inlet venturi, rinse the tank, and of course transfer water to your sprayer tank. The Polywest exclusive dual inlet venturi comes plumbed to draw from your choice of the Handler tank or your bulk containers, directly into your sprayer fill line.

The full 3” bypass line on the H23 is designed to handle the rigors of any pump with capacities of up to 280 GPM (1060 LPM) without concern for pressure. Banjo’s exclusive sweep elbows are used to eliminate as much line turbulence as possible. To ensure this larger tank size can be thoroughly cleaned, all H3 models incorporate the Rotacraft tank cleaning nozzle.

**QUICK SPECIFICATIONS**
- 70 US GAL/275L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE

**FEATURES AND BENEFITS**
- Dual port venturi with Handler and bulk draw capabilities.
- Full 10L/20L container emptying and rinsing capabilities.
- Durable 3” bypass for flows up to 280 GPM (1060 LPM).
- Comes with the original Handler knife.

**SIMILAR MODELS**
- H33RK
- H23
- H33P65
- H33HD

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The H33P65 is the largest model in the Handler line to utilize the one-piece bypass tube manufactured by Polywest. The one piece rotationally molded bypass tube has a perfectly smooth inner wall and eliminates the turbulence caused by wall irregularities found with flanged or threaded fitting connections. In addition, the larger elliptical centre section acts as a turbulence dampener which further reduces flow losses. All together, testing has shown the exclusive Polywest bypass tube to improve bypass flow by 5% over similar plumbing made with threaded or flanged fittings.

Designed specifically to work with a Banjo 300PO pump powered by a GX200 Honda engine, the 3” bypass tube maximizes the possible flow from this pump. The bypass tube is available on all Handler models that are equipped with this pump.

**FEATURES AND BENEFITS**

- Full 10L/20L container emptying and rinsing capabilities.
- Dual port venturi with Handler and bulk draw capabilities.
- Integrated transfer pump.
- Comes with the original Handler knife.
- Closed loop recirculation and agitation.
- Tank emptying by venturi or direct pump draw.

**SIMILAR MODELS**

- H33RK
- H33
- H23P65

**QUICK SPECIFICATIONS**

- 70 US GAL/275L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
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www.thehandler.ca
The H33HD has been designed specifically to work with new 3” pumps being made with flows in excess of 280 GPM (1060 LPM). At these flow rates, water in 3” plumbing moves in a fully turbulent motion and creates significant line pressures and risk of water hammer. Engine power requirements increase with these pumps and so does the need to match your chemical inductor properly.

With a re-designed bypass line free of directional changes, the H33HD takes full advantage of your pump’s flow potential. As a safety precaution against the higher operating pressures, the H33HD is also equipped with a pressure spike relief valve to prevent water hammer damage.

Maximize the performance of your high volume 3” pump without sacrificing safety by using the purpose built H33HD. Your Handler dealer will be glad to help determine when the H33HD is the right Handler for you.

**QUICK SPECIFICATIONS**
- 70 US GAL/275L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE

**FEATURES AND BENEFITS**
- Uni-directional bypass line for maximum flow.
- Pressure spike relief valve to prevent damage.
- Full 10L/20L container emptying and rinsing capabilities.
- Dual port venturi with Handler and bulk draw capabilities.
- Comes with the original Handler knife.

**SIMILAR MODELS**
- H33HDP13

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INCHES</th>
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<td>H33HD</td>
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www.polywest.ca
The H33HDP13 utilizes Hypro’s 3” polypropylene pump and the proven Honda GX390 (13HP) engine complete with electric start. Sprayer fill time is minimized with Handler bypass flow rates of 350 GPM (1325 LPM) thanks to the Hypro pump and our HD purpose built plumbing. 3” flow rates this high create higher operating pressures and the H33HDP13 is designed to handle them. The pressure spike relief valve eliminates any risk of water hammer which ensures operator safety along with protecting your equipment.

Even though the plumbing arrangement is different from other H2 and H3 Handlers, the H33HDP13 maintains all of the functionality you’ve come to expect in a Handler:

- Sprayer filling container emptying and rinsing
- Venturi based bulk chemical induction
- Tank emptying with venturi or direct pump draw
- Closed loop circulation and agitation
- Wash line.

### QUICK SPECIFICATIONS

- 70 US GAL/275L
- 3” CAMLOCK CONNECTIONS
- 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE
- 3” HYPRO PUMP/GX390 HONDA
- ELECTRIC START (12V POWER NOT INCLUDED)

### FEATURES AND BENEFITS

- Uni-directional bypass line for maximum flow.
- Pressure spike relief valve to prevent damage.
- Full 10L/20L container emptying and rinsing capabilities.
- Dual port venturi with Handler and bulk draw capabilities.
- Comes with the original Handler knife.
- 350 GPM (1325 LPM) bypass rates.

### SIMILAR MODELS

- H33HD

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The Handler IV is the king of batch induction systems with its larger liquid volume and incredible agitation capability. The H43P65V comes complete with a total drainage tank, Banjo 3” pump, a dual port venturi for bulk chemical induction, twin agitation lines, two 16” hinged lids (one with the Handler knife and one without), container and tank rinsing nozzles, a 4-way forkliftable steel frame, and a pump containment tray. Using closed loop recirculation through the exclusive dual port venturi, this model is able to induct bulk chemical into the Handler tank without your sprayer needing to be there! Whether it is high volumes of liquid pesticides or large amounts of dry flowables needing to be agitated, a Handler IV can do it all before your sprayer is back to be filled.

Dry AMS (ammonium sulfate) users may be interested in even more agitation. The similar model H43P65 replaces the venturi with a second 2” full port agitation line and provides agitation strong enough to dissolve even AMS that is not spray-grade.

**QUICK SPECIFICATIONS**

- 230 US GAL/870L
- 3” CAMLOCK CONNECTIONS
- TWO X 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE
- 3” BANJO/GX200 HONDA

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<td>H43 (ALL)</td>
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**SIMILAR MODELS**

- H43RK
- H43RKV
- H43P65
- H43P13V
Taking advantage of the new high-volume pumps available today, the H43P13V reduces sprayer fill time yet again. With bypass rates of 350 GPM made possible by the 3” Hypro polypropylene pump, this is the fastest Handler IV yet. In addition to the increased bypass speed, the pump provides higher pressures and creates even greater agitation than the H43P65V. Using closed loop recirculation through the exclusive dual port venturi, this model is able to induct bulk chemical into the Handler tank without your sprayer needing to be there! Whether it is high volumes of liquid pesticides or large amounts of dry flowables needing to be agitated, a Handler IV can do it all before your sprayer is back to be filled.

The Honda GX390 engine comes standard with an electric start. Instructions on proper cabling are included for connection to your own battery or 12V power source. Even if your power is down, Honda’s trademark easy-starting engines with built-in decompression can be started with the manual recoil.

**SIMILAR MODELS**
- H43P13
- H43P65V

**FEATURES AND BENEFITS**
- Dual port venturi for drawing bulk chemical into the Handler or direct to sprayer fill line.
- Full 10L/20L container emptying and rinsing capabilities.
- Comes with the original Handler knife.
- Twin agitation lines.
- Closed loop recirculation and agitation.
- 350 GPM (1325 LPM) bypass rates.

**QUICK SPECIFICATIONS**
- 230 US GAL/870L
- 3” CAMLOCK CONNECTIONS
- TWO X 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE
- 3” HYPRO/GX390 HONDA

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<tr>
<td>H43 (ALL)</td>
<td>72</td>
<td>47</td>
<td>50</td>
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The H53P65V takes all the functionality and versatility of the HandlerIV models and wraps the operator station in an ergonomic enclosure. Control valves for the most common HandlerV functions are brought up higher and are clearly labelled for function and position. The proprietary enclosure protects the pump and plumbing from the elements. Polywest’s exclusive dual inlet venturi is plumbed to 1” and 2” valved connections to make hooking up to bulk containers quick and easy.

Utilizing the HandlerV’s tank volume and closed loop recirculation through the venturi, you can induct chemical from bulk containers even while your sprayer is still in the field. Chemical batches can be metered, mixed, agitated and ready to go before the sprayer is back to fill.

QUICK SPECIFICATIONS

- 230 US GAL/870L
- 3” CAMLOCK CONNECTIONS
- TWO X 16” HINGED AND LOCKABLE LID
- 2” DUAL PORT VENTURI
- ROTACRAFT TANK RINSING NOZZLE
- 3” BANJO/GX200 HONDA

FEATURES AND BENEFITS

- Full 10L/20L container emptying and rinsing capabilities.
- Dual port venturi for driving bulk chemical into the Handler or direct to sprayer fill line.
- Closed loop recirculation and agitation.
- Comes with the original Handler knife.
- Twin agitation lines.

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SIMILAR MODELS

- H43P65V
ACCESSORIES

**CHEMICAL METER KITS:**
Ready to go metering kits that work with every model of The Handler II through The Handler IV. Kits are available with your choice of 1” flow meters from Dura Products, Banjo and GPI.

**WATER METER KITS:**
Ready to use high volume Banjo flow meters that won’t slow down tank filling. 2” and 3” kits are available.

**ELECTRIC START PUMPS:**
All Honda engines are available upon request with an electric start option.

**CHEM WASH EMERGENCY WASH KIT:**
Perfect for agricultural or industrial applications, the CHEM-WASH Emergency Wash Kit has a large 27 liter (7.15 US Gallon) reservoir to provide a source of fresh water on-site. It can be easily welded or bolted onto any applicator or piece of equipment using the heavy duty steel cradle. The included breakaway hose allows for fast, gravity-fed access to clean water for emergency rinsing, or use the spigot for controlled flow.

Each CHEM-WASH Emergency Wash Kit comes complete with spigot, breakaway hose, all fittings, powder coated steel mounting cradle and dust cover for glove/goggle compartment. Created using high-strength polyethylene, the CHEM-WASH Emergency Wash Kit will provide you with years of reliable and maintenance free use.

**THE SAFE FILL:**
Introducing The Safe-Fill, a unique and innovative product designed in house by our expert staff. The Safe-Fill is a patented and proprietary product designed specifically to meet water station and transfer requirements. Features include:

- Easy to install
- No lid to remove means faster fill time
- Made of durable and rust-proof polyethylene
- Air gap between inlet and tank protects water supply from siphoning and contamination.
At Polywest, we recognize that companies live, and die, by the quality of their customer service. We have made it our mission to offer the most responsive customer service possible to go along with our quality products, industry knowledge and vast reach.

When you partner with Polywest, you are getting a commitment not only as your liquid handling products supplier of choice, but also to be the industry’s top partner in terms of service, training, responsiveness and value.

Top manufacturers trust in Polywest to distribute their products. Along with that trust, we hope that our customers also trust us to be their source for liquid handling products.

We presently carry one of North America’s largest inventories of specialty, name brand liquid handling products in our growing network of locations.

Polywest has become a highly capable rotomolding facility, that when coupled with our other proprietary products, has enabled us to set ourselves apart by becoming a comprehensive provider of quality liquid handling products.

We are constantly on the lookout for new products and challenges, as well as new and innovative ways to make our existing products even more outstanding.

Polywest employees have a combined more than two centuries of experience in liquid handling. We have worked hard, through acquisition and organic growth, to become a key supplier of quality liquid handling products in Canada, the US and around the globe.