



*Draft water in shallows & weeds*

# Operating & Maintenance Booklet

**IMPORTANT: READ AND FOLLOW ALL INSTRUCTIONS**



*Note: Product may not be exactly as shown*



*We save pumps*

**BearsPaw ProtectaPump**

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## WARNINGS

Before using this product, read and follow all warning notices and instructions accompanying this Fire Ceptor. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage.

### Important Notice - Attention User

The Fire Ceptor O & M booklet contains operation and safe use of this product. This information should be given to the owner/operator of this equipment and made available to all new users.

**WARNING - EXTREME HAZARD - One-Way Valve (foot valve):** The valves are for single direction (suction) flow only. **Never apply reverse load to units fitted with foot valves - EXPLOSION RISK.** One-way valves installed in Fire Ceptors, designed **only** for use with **Portable Pumps. Do not use 'foot valve' equipped units with Truck Pumps.**

**IMPORTANT:** The Fire Ceptor is pre-assembled for your convenience and ease of installation. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied, as doing so may cause product failure.

**WARNING - DANGER:** Be sure that the working area is free from such hazards, and always use proper precautions.

**Notice:** BearsPaw ProtectaPump Ltd. products must be used in compliance with applicable federal, provincial, local, laws and regulations. Product selection should be based on physical specifications and limitations, compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Materials and specifications are subject to change, and models may be discontinued at any time, in either case, without notice or obligation.

**SAVE THESE INSTRUCTIONS AND SHARE WITH ALL USERS**

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## TECHNICAL DATA

**Suction Separator Diameter and Flow\* Rates** (\* Based on the results observed during various tests with numerous rural fire departments in Western Canada)

Fire Ceptor Model	Size	LPM	Imp. GPM	US GPM
2.3 HPC	2"	427	94	113
3.1	2.5"	850	187	224
3.1	3"	1150	253	304
4.1	4"	1750	385	462
4.1 H	4"	4318	950	1140
5.1	5"	4448	978	1175
6.1	6"	5110	1124	1350

## A. HOW YOUR 'SUCTION SEPARATOR' WORKS

Your Fire Ceptor is designed to protect suction pumps by separating particulate matter from water and operate for long periods with a minimum of maintenance when installed, operated, and maintained in accordance with these instructions.

**No flotation or suspension is required** as the Separator is designed to rest on the bottom in gravel & sand (in as little as 8 inches of water) while functioning at capacity and protecting the pump. During the suction process, sediment, sand, etc. are instantly separated from the water at source, allowing clean water to flow to the pump while returning the sediment, sand, etc. to nature.

After a period of time, biologics may accumulate in the Fire Ceptor causing a resistance to the flow of water. This resistance may result in a diminished flow of water. As such, the fabric Bio-belt must be removed\*, cleaned, and reattached\* following each use of the Fire Ceptor (\* *not applicable if Stainless, which is permanently attached*). **See Section F: Cleaning the Fire Ceptor, Bio-belt, and V-Guard.**

## B. READ FIRE CEPTOR SAFETY BOOKLET

## C. FIRE CEPTOR INSTALLATION

1. Verify that the Fire Ceptor Model is optimal for your environment and equipment.
2. Carefully remove the equipment from the carton and check for any evidence of damage due to rough handling or shipping. If any of the equipment is damaged, immediately notify the manufacturer.
3. Ensure the Bio-belt sits snug around the intake housing, secured to itself with Velcro\* (\* *not applicable if Stainless Bio-belt, which is permanently installed so, just requires flushing after use to remove biologics*). Securing the Bio-belt protects the pump should the Separator be flipped over accidentally or becomes submerged in mud or silt.
4. Prepare the site bed/base for the Fire Ceptor out of gravel/sand. The separator should be placed upright on its base in 8 or more inches of water depth on top of sand or gravel. The Fire Ceptor is **not** to be used as a shovel.
5. Attach the Fire Ceptor and pump connector assemblies together.

## D. INITIAL START-UP AND RESTART INSTRUCTIONS

1. Be sure all connections have been made and are secure.
2. Ensure the Bio-belt has been cleaned as per Section F: "Cleaning the Fire Ceptor, Bio-belt, and V-Guard" then carefully fasten it to the intake housing, secured to itself with Velcro\* (\* *fastening not applicable for Stainless Bio-belts which are permanently attached*).
3. For site preparation, create a site bed/base for the Ceptor out of gravel / sand.

## E. ONE PIECE V-GUARD - (OPTIONAL ATTACHMENT) - GUIDE TO REMOVE & REPLACE

1. **To Remove:** Rest the unit on a flat surface and apply **downward pressure** with one hand on the centre top of the Fire Ceptor while **quick upward pressure** to the V-Guard, with your other hand placed under the frame at the front end (adjacent to the BearsPaw Logo). This action will release the V-Guard from its catches, so it can then be easily removed (see images below). While removing the V-Guard note the obvious differences of the front and rear for easy reattachment. For reference, see images below:



Lift up to release



Tilt up to rear



Lift up & off

2. **To Replace:** Reverse the procedure... tip up the larger end of the V-Guard as you reposition it in place, starting at suction connector end (rear). Place under connector and then lower the front and align with the ball pins / connection points. When aligned, snap in place

with a sudden balanced downward pressure simultaneously with both hands on each side. You should immediately hear/feel the V-guard snap into position. Then inspect to make sure it is securely in place all around. **Note:** It is important to check for snugness so it will not unexpectedly separate during use. If you are unable to achieve a snug and secure fit, do not use the unit and seek help or contact BearsPaw ProtectaPump for assistance. For reference see images below:



Position under connector



Shift forward



Position & snap

## F. CLEANING FIRE CEPTOR, BIO-BELT, AND V-GUARD

### Notice - IMPORTANT Change: Bio-belts (2 types) and One piece V-Guard

<b>Stainless steel Bio-belt</b>	Permanently installed and can't be removed - Must be cleaned/flushed in place. To enable clear visibility for proper flushing and removal of biologics from the Bio-belt & unit, the optional V-Guard must be removed prior to flushing the Bio-belt.
<b>Fabric Bio-belt</b>	Removable and attached with Velcro - Must be removed to be cleaned/flushed after detaching the optional V-Guard.
<b>One piece V-Guard</b>	See <b>Section E</b> for removal and re-attachment instructions.

1. Cleaning frequency will vary from situation to situation with other factors such as contaminants.
2. Turn the pump off. Shut off any automatic controls to assure that the system is not inadvertently started during servicing.
3. Disconnect the Fire Ceptor safely and remove it from the environment.
4. Remove optional V-Guard to gain clear access to Bio-belt (sect. E).
5. Flush, steam, pressure wash, etc. the Fire Ceptor as required.
6. Remove\* fabric Bio-belt and clean it to remove biologics (\* **Removal not applicable to Stainless steel Bio-belt which is permanently installed. Only requires flushing after each use to remove biologics**). Then, assess if it needs to be replaced before reinstalling it.
7. Clean and remove debris from inside the body of the Fire Ceptor by rotating to an upside down position while flushing.
8. Secure the fabric Bio-belt around the intake housing, secured to itself with Velcro\* (\* *not applicable if Stainless Bio-Belt is installed*).
9. Follow Section D. **Initial Start-up and Restart Instructions.**

## G. LIMITED WARRANTY

BearsPaw ProtectaPump Ltd. warrants the original purchase of its Fire Ceptors to be free from manufacturing defects in material and workmanship for a period of five years from the date of shipment, subject to the limitations as numbered below. BearsPaw Separators are designed to operate sitting upright on their base at all times with the Bio-belt snug around the intake housing, secured to itself with Velcro\* (\* *not applicable for Stainless Bio-belt which is permanently attached*). After each use, the fabric Bio-belt is to be removed\* cleaned, and reattached to the Separator (\* *not applicable if a Stainless model, which is permanently attached but requires flushing after each use*). **Note: Failing to use the Bio-belt and/or failing to adequately clean the bio-belt between uses of the Separator constitute misuses of the Fire Ceptor, rendering the warranty void.** If the purchaser believes a product is defective, the purchaser shall:

1. Notify the manufacturer, state the alleged defect and request approval to return the product.

2. If approved, return the product. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product within 30 days.

Other than to repair or replace as described above, the purchaser agrees that the manufacturer shall not be liable for any losses, costs, expenses or damages of any kind arising out of the product's use, installation or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. This warranty is intended to cover defects in manufacturing and does not apply to any defects caused by negligence, misuse, wear, unauthorized repair, improper assembly or lack of or improper maintenance. No other warranties, written or oral, expressed or implied, including the warranties for fitness for particular purpose and merchantability, are made or authorized. No affirmation of fact, promise, and description, of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president or vice-president. These products are manufactured, sold and intended for fire use only.

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