

FIREICE SHIELD® CTP SYSTEM

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PRODUCT#: FI-CTP

OWNER'S MANUAL



This Owner's Manual is a guide to assist field personnel to inspect, operate and maintain the FireIce Shield® Communication Tower Protection System (the "CTP System"). No instruction manual can anticipate all possible malfunctions that may be encountered in the field. Accordingly, GelTech Solutions assumes no liability for service or maintenance by publishing this manual.

WARNING!




Read all safety instructions before using the product. Failure to follow all safety precautions and instructions may result in property damage, serious injury or death to you or others.

The FireIce Shield CTP System, including the pump, hoses, Spray Nozzle and Nozzle Gun operate under high pressure. **DO NOT SUBSTITUTE PARTS.** Substituting parts (or adding components such as quick connects) may cause overheating and damage the system as well as expose operators to injury. *Substituting parts voids all manufacturer's warranties.*

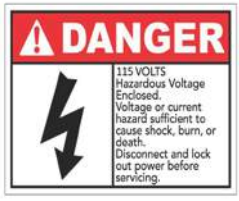
FIREICE SHIELD® CTP SYSTEM

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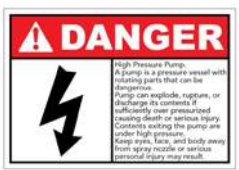
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	DANGER: Indicates an imminent hazard which, if not avoided, could result in serious injury or death.
	CAUTION: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
	IMPORTANT TIP: Follow these operating tips to help insure your FireIce Shield CTP System always operates at peak performance.

 Protect the FireIce Shield CTP System from freezing conditions.



The FireIce Shield CTP System operates on 115 volts, 20 amps. The pump system must be Earth-grounded to a specific reference point from which voltages are measured, a common return path for electric current, or a direct physical connection to the Earth. *The preferable location to ground the CTP System is at the generator itself.*



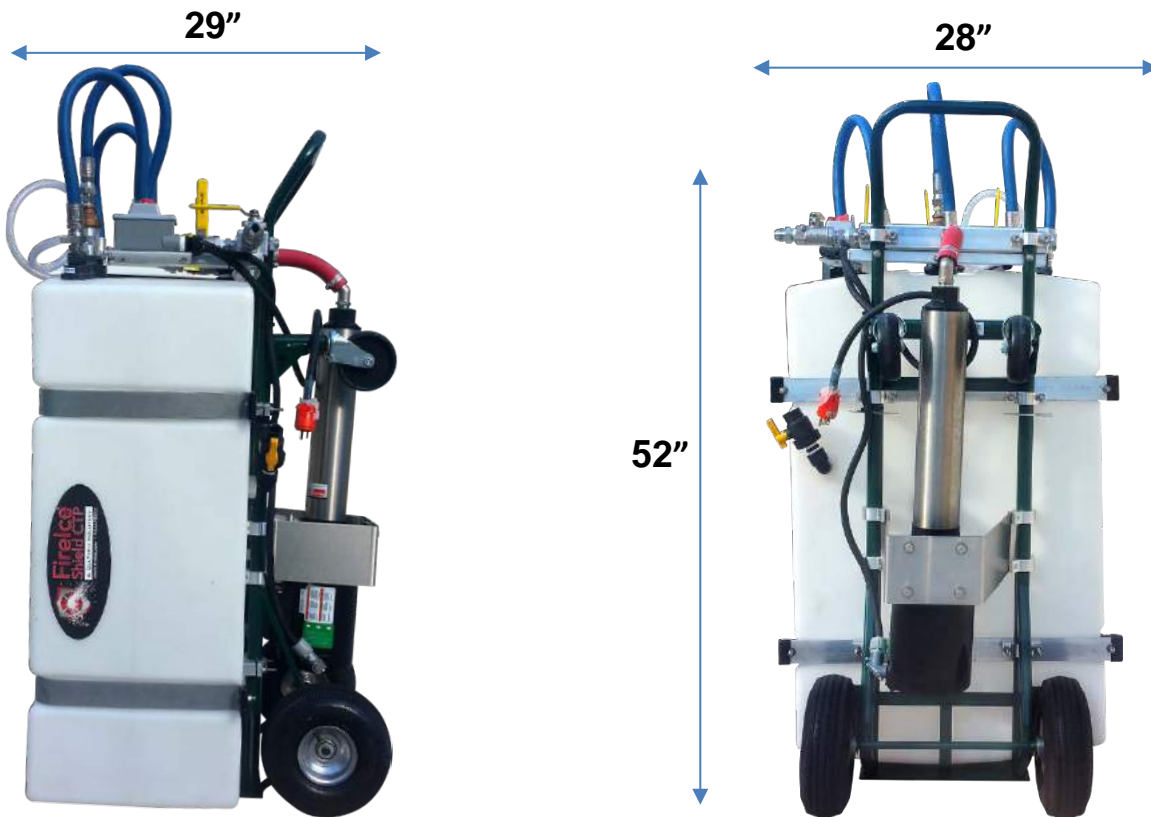
The FireIce Shield CTP System pump and hoses operate under high pressure and should be handled with care. All mechanical equipment requires periodic maintenance to ensure readiness as well as safe and proper operation. **ONLY USE COMPONENTS INCLUDED WITH THE CTP SYSTEM, INCLUDING HOSES, SPRAY NOZZLE AND NOZZLE GUN.** Substituting hoses or adding quick connects may cause pressure **DO NOT SUBSTITUTE PARTS.** *Substituting parts voids all manufacturer's warranties.*



FireIce Shield gel can be slippery on certain surfaces such as grass, tile and concrete. **DO NOT** spray FireIce Shield gel on any step pegs, safety cables, climbing faces or wave guide ladders or any other area that is used to climb or for safety fall protection. Take particular care while climbing or descending cell towers, especially if FireIce Shield gel accumulates on work boots or climbing posts. If FireIce Shield gel does accumulate, *simply wash away with water.*

FIREICE SHIELD® CTP SYSTEM

WEIGHT & DIMENSIONS



MAIN TANK – 60 GALLON CAPACITY

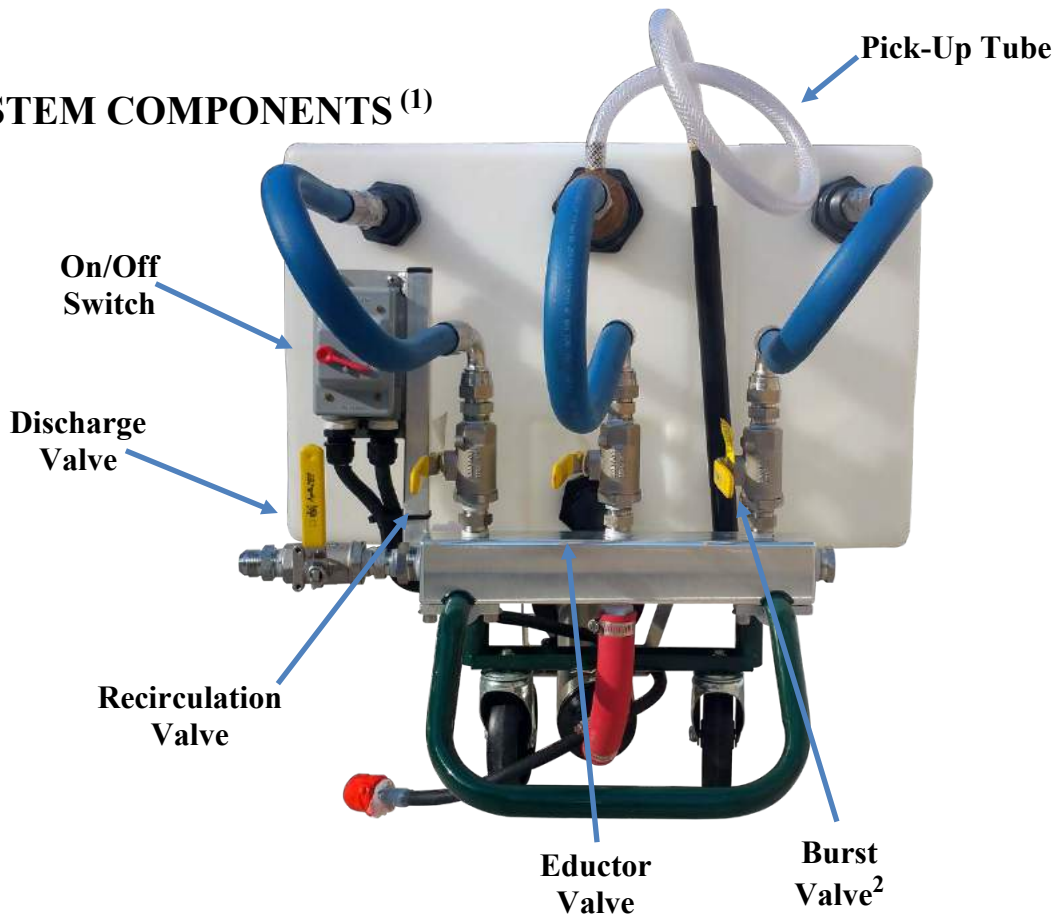


MAIN MOTOR/PUMP (115 volts, 20 amps)

The portable FireIce Shield CTP System is designed for easy maneuvering from storage to job site. A fully assembled CTP System (empty) weighs approximately 180 pounds.

FIREICE SHIELD® CTP SYSTEM

SYSTEM COMPONENTS (1)



! DO NOT OPERATE THE CTP SYSTEM WITH MORE THAN ONE VALVE OPEN AT A TIME



Nozzle Gun



Spray Nozzle



Marsh Funnel & Marsh Funnel Cup



Water Filter



Water Fill Opening



50' Hoses (Eight)



Clean-Out Kit (6 brushes)

(1) Equipment Warranties are available from Florida Sprayers of Central Florida (2) Blast Valve is set at the factory. Do not adjust.

MANIFOLD & VALVES

From left to right:

“**Discharge Valve**” connects to the Discharge Hose. The other end of the Discharge Hose will connect to either the Spray Nozzle or the Nozzle Gun.

“**Recirculation Valve**” is used to circulate FireIce Shield gel in the tank while allowing it to cure.

“**Eductor Valve**” is used to introduce FireIce Shield powder into the tank of water.

“**Dump Valve**” is used to empty the tank or to fill the Marsh Funnel Cup for viscosity testing.

“**Burst Valve**” is a failsafe valve designed to prevent the pump from overheating. The Burst Valve is set at the factory. **DO NOT** adjust this valve.

! **DO NOT** run the pump for more than 10 minutes without water or FireIce Shield gel circulating through the CTP System to prevent the pump from overheating.

If necessary to remove a hose from the tank, first loosen the nut on the manifold.

THE CTP SYSTEM PUMP

Do not allow the CTP System pump to get wet.

Ambient temperature around the CTP System should not exceed 145°F.

The CTP System pump has built in thermal protection. This overload protects the pump against burnout. The device is automatic and will reset once the temperature has dropped to a safe point. Frequent tripping of the overload indicates trouble in the pump or the power line and immediate attention is needed.



ALWAYS ASSURE GROUND IS CONNECTED

! Only use the power cord delivered with the FireIce Shield CTP System to power the pump. **DO NOT USE EXTENSION CORDS.** Connections should be made only in approved boxes.

The CTP System pump has pre-lubricated bearings. No lubrication is required.

STORAGE

For WINTER OPERATIONS, assure no water is left in the system when storing overnight. Freezing can damage many components within this system. For storage, you may use a safe, odorless antifreeze similar to the types used in camping vehicles. **NEVER** mix antifreeze with FireIce Shield gel.

Spray Nozzle



The FireIce Shield Spray Nozzle is for use inside a monopole tower. It has 360-degree coverage and a reach of (5) feet for maximum protection. The Spray Nozzle is capable of flowing approximately (2.1) gallons per minute.

The Spray Nozzle has an eye on the top to accommodate a carabiner or rope. When using the Spray Nozzle, attach a rope or carabiner to the eye after lowering the rope from the top of the tower. Once attached, raise the rope until the Spray Nozzle is just above the entry hatch.

When the Spray Nozzle is in position, open the Discharge Valve to begin the flow of FireIce Shield gel. Raise the rope at a rate of **1 foot per five second interval**.



A slower rate is acceptable, a faster rate is not.

Once the interior has been coated (to a minimum of 10 feet above the work area and down to the base of the tower), close the Discharge Valve and turn off the CTP System pump.

It is recommended that, after use, the Spray Nozzle be kept above the work area so that, in case of fire, you can then start flowing FireIce Shield gel through the Spray Nozzle.

CAUTION

Use only rated carabiners and ropes. Unrated ropes or carabiners can damage the FireIce Shield CTP System and potentially damage the inside of the tower.

Nozzle Gun



Attach the Nozzle Gun to the Discharge Hose and open the Discharge Valve.

To flow FireIce Shield gel through the Nozzle Gun, squeeze the trigger handle. For a narrow straight stream, turn the barrel clockwise. For a wider fog pattern, turn the barrel counter-clockwise.

The reach of the stream in the narrow straight pattern is over 25 feet. When using the Nozzle Gun in a wide fog pattern, be aware that you will be creating wind currents from behind you and you will be pushing the wind currents into the area where you are directing the stream.

The Nozzle Gun should be used primarily to apply FireIce Shield gel to all coax and coax blocks on the outside of the monopole or on the coax and coax blocks on guyed towers and self-support towers. On windy days, use the Nozzle Gun to apply FireIce Shield gel on any area that may be exposed to airborne slag, sparks or embers. The Nozzle Gun should be placed on the inside of a monopole or the outside of a GT or SST approximately 8' above the welded area and monitored by the fire watch so in the event of a fire, FireIce Shield can be dispensed immediately.

If fire is emanating from a hatch, using the Nozzle Gun in the fog position will allow you to “push” the fire back into the tower for extinguishment. Once the fire is “pushed” back into the tower, you can slowly move the barrel towards the straight stream position for final extinguishment.

INSPECTION

The FireIce Shield CTP System should be inspected at regular intervals and before each use.

The inspection should include a “*Quick Check*” of the system to confirm the following:

1. No obstructions to access or visibility
2. Owner’s Manual is accessible
3. All fittings and connections are tight
4. No obvious physical damage, corrosion, leakage or clogged nozzles
5. Pick-Up Hose is dry
6. Pump Manifold and Valves are operable
7. Pump system grounded to earth

A number of critical parts of this system contain machined surfaces and threads manufactured to exacting tolerances. O-rings, hoses, nozzles and all metal parts meet precise specifications and are subject to multiple in-house inspections and tests for acceptability. Authorized replacement parts are available from FL Sprayers. **DO NOT SUBSTITUTE PARTS.** Use of substitute parts releases GelTech and FL Sprayers of their respective warranty obligations.

OPERATION



(1)

1. Refer to “*Crown Castle Suggested Best Practices for Your Cutting and Welding Safety Plan*” (CWSP) for recommended safety procedures.
2. **DO NOT** add any products, such as emulsifiers or foam, to FireIce Shield gel.
3. Fill the tank with 45 gallons of water. **Always use the provided water filter when filling or cleaning the tank to catch any debris before it enters the tank.** Dirty water or debris can clog the CTP System and impair performance. To minimize the risk of slippage, replace the tank cap to prevent solution from accumulating on the tank surface and surrounding area.
4. Turn the sealed FireIce Shield CTP Bucket upside down and tap gently to loosen powder. Turn Bucket upright, open and place on top of CTP System.
5. **CLOSE ALL CTP SYSTEM VALVES.**
6. Turn on CTP System.
7. Open Eductor Valve.
8. **Make sure the Eductor Pick-Up Tube is dry** (if damp or wet, use alternate pick-up tube included with the system). Check for suction at the end of eductor pick-up tube.
9. Over a period of approximately five (5) minutes, introduce approximately one-half of the FireIce Shield bucket into the tank using the Eductor Pick-Up tube, moving in a slow circular motion around the bucket. **DO NOT** force powder into the system. **DO NOT** pour FireIce Shield into the water fill opening.

(1) www.vimeo.com/groups/372771/videos/155048663

OPERATION (*continued*)

10. When finished, close the Eductor Valve and remove water filter.
11. Open the Circulation Valve and circulate for five (5) to ten (10) minutes to allow the FireIce Shield gel to fully cure.
12. Periodically close and re-open the Circulation Valve to facilitate the mixing process.
13. Close the Circulation Valve.
14. Take a Marsh Funnel reading (see “Marsh Funnel Viscosity Testing” below). The target range for proper viscosity of the FireIce Shield gel is between 1:30 (90 seconds) and 1:40 (100 seconds).
15. If the Marsh Funnel reading is less than the target range, slowly add a small amount (a cup or less) of FireIce Shield into the Water Fill Opening. If the Marsh Funnel reading is greater than the target range, manually hold water filter above water fill opening and add more filtered water to the tank. Open the Circulation Valve, run for an additional five (5) to ten (10) minutes. Close the Circulation Valve and take another Marsh Funnel reading.
16. If the new result is not within the target range, return to Step 15 and repeat. You may need to take more frequent readings in colder climates.
17. While recirculating, attach Discharge Hose to Discharge Valve and Spray Nozzle (or Nozzle Gun if working at ground level) and hoist up the tower to the work area.
18. Close Circulation Valve.
19. Turn on Discharge Valve and **apply a minimum of 10 feet above the work area and down to the base of the tower.**
20. When coating the interior of the tower, raise/lower the Spray Nozzle at a rate **not exceeding 1 foot per 5 second interval** to achieve maximum coverage.
21. **Except in the event of a fire, DO NOT apply FireIce Shield® gel to any welding area until the welded area is cool to the touch.**
22. After the area has been coated, reposition the Spray Nozzle above the work area.
23. **CLOSE THE DISCHARGE VALVE AND TURN OFF THE CTP SYSTEM to avoid overheating the system.** Leaving the pump running for an extended period of time while not in use can overheat the pump and damage the FireIce Shield gel.
24. At least every three (3) hours (or more frequently in especially hot or low-humidity environments) periodically check the applied FireIce Shield for tackiness. If the gel is dry to the touch, re-apply or rehydrate as needed.
25. In the event of fire:
 - a. If the Discharge Hose is attached to the Spray Nozzle, turn on the CTP System, open the Discharge Valve and lower the spray nozzle to the area on fire.
 - b. If the Discharge Hose is attached to the Nozzle Gun, turn on the CTP System, open the Discharge Valve and extinguish the fire using the Nozzle Gun. The Nozzle Gun has a reach of approximately 25 feet. If working in the lower area of the tower, it is recommended that you attach the Nozzle Gun to the Discharge Hose line and keep it in proximity to the hatch.

Marsh Funnel Viscosity Testing

1. Using the Dump Valve, fill the Marsh Funnel Cup *twice*, emptying the FireIce Shield gel back into the tank. Do this *every time* a marsh funnel test is performed.
2. Fill the Marsh Funnel cup and, while holding your finger on the bottom of the Marsh Funnel (to prevent gel from leaking out), fill the Marsh Funnel to the Fill Line. **DO NOT OVER OR UNDER FILL THE MARSH FUNNEL.**
3. Position the Marsh Funnel cup below the Marsh Funnel. Simultaneously release your finger from the bottom of the Marsh Funnel and start your timer.
4. Record the time when the FireIce Shield gel reaches the Marsh Funnel Cup Fill Line.
5. **The correct mixture will fill the Marsh Funnel Cup to the Fill Line in 1:30 (90 seconds) to 1:40 (100 seconds).**
6. When viscosity testing is complete, rinse the Marsh Funnel and Marsh Funnel Cup thoroughly with water.



FIREICE SHIELD® CTP SYSTEM



CLEANING

1. Fill the tank with between ten (10) and twenty (20) gallons of filtered water and start the CTP System. To minimize the risk of slippage, replace the tank cap to prevent solution from accumulating on the tank surface and surrounding area.
 - a. Open the Recirculation Valve, run for one to two minutes, and then close the valve.
 - b. Open the Eductor Valve and, using the Pick-Up Hose and Tube, recirculate the water in the tank for one to two minutes, and then close the valve.
 - c. Open the Discharge Valve to flush the Spray Nozzle (and Nozzle Gun if used) for one to two minutes, and then close the valve.
 - d. Remove the Discharge Hose, open the Dump Valve and run until the tank is empty.
 - e. Turn the CTP System off.
2. If any FireIce Shield gel remains in the system, repeat Step 1 above.
3. After cleaning, the Pick-Up Tube and Hose **MUST BE DRIED. NEVER USE A WET PICK-UP TUBE OR HOSE** to introduce FireIce Shield into the eductor. Two Pick-Up Hoses come with the CTP System. Alternate hoses each day to allow a hose to dry before the next use. You may wish to use compressed air to help dry the Pick-Up Tube and Hose.
4. **DO NOT** use any solvents which could seriously damage the system. Only use filtered water for cleaning and flushing the system.
5. Perform all “Maintenance” procedures.

If FireIce Shield gel is left in any hose for an extended period of time (e.g., overnight), it can dehydrate and harden, causing the CTP System to malfunction. After work is complete, **ensure all hoses are completely clear of FireIce Shield gel or any other foreign material.**

Empty and clean the tank at the end of each day. **Do not let FireIce Shield gel sit in the CTP System tank overnight.**

MAINTENANCE



1. Inspect the system for corrosion, abrasion, dents, loose fittings or weld damage. If any of these conditions are found, or if you doubt the integrity of the system, **DO NOT** use or operate the CTP System and contact FL Sprayers for further instructions.
2. Inspect the system for missing or substitute parts. Only factory replacement parts are approved for use with the CTP System.
3. Check to make sure the Owner’s Manual is with the CTP System and all warning stickers are legible.
4. Remove Discharge Hose and inspect for damage. Replace if necessary. Flush Discharge Hose with filtered water to ensure passage is clear of foreign material.

MAINTENANCE (continued)

5. **DO NOT** use any solvents, which could seriously damage the system. Only use filtered water for cleaning and flushing the system.
6. Inspect the foot stand (wheels) of hand cart. If cracked or broken, replace with authorized parts.
7. Inspect valves for dirt or corrosion that might impair freedom of movement.
8. Inspect carrying handle for proper installation. If damaged or distorted, replace with authorized factory replacement parts.
9. Inspect pump and all valve assemblies for corrosion or damage to hose threads or connections. Replace valve assembly or component parts as necessary.

CONTACT:

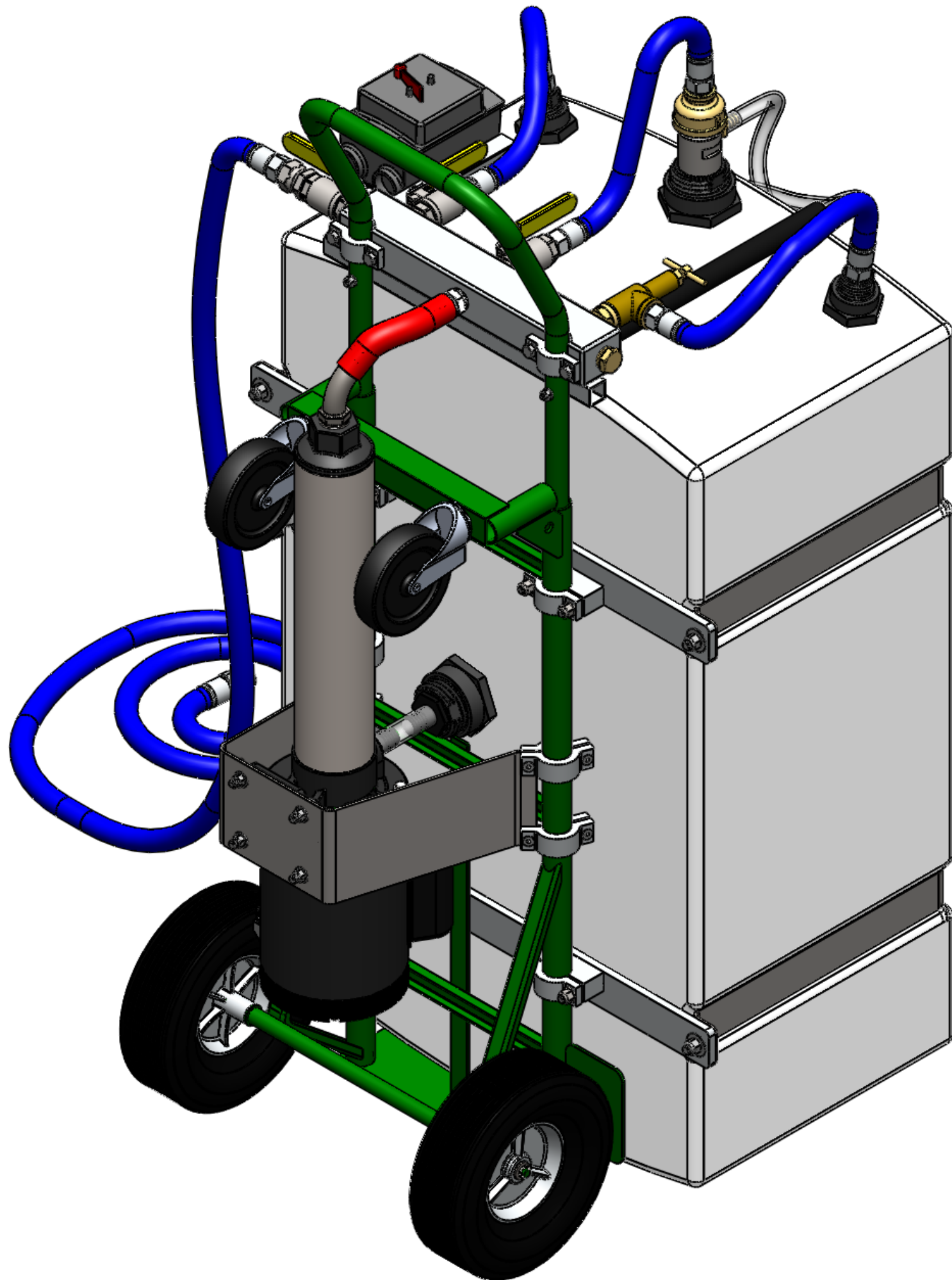
24/7 dedicated phone line for FireIce Shield[®] CTP System Customers: (866) 728-9772

If you are calling to place an order, inquire about the status of an order, or for questions about FireIce Shield[®] or operation of the FireIce Shield[®] CTP System, we will promptly connect you to:

GelTech Solutions, Inc.
1460 Park Lane South, Suite 1
Jupiter, FL 33458
(561) 427-6144 9 (direct)
www.geltechsolutions.com
E-mail: info@geltechsolutions.com
To Order: neworders@geltechsolutions.com

If you are calling about parts, service or warranty support, we will promptly connect you to:

Florida Sprayers of Central Florida
549 W 13th St, Apopka, FL 32703
www.flssprayers.com
info@flssprayers.com



GELTECH[®]
SOLUTIONS

CTP System

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	PART LOCATION
1	TA34	Bulk head fittings - 3/4 inch	2	PAGE 2
2	4429K746	1-1/2 x 3/4 Female Pipe Size, Reducing Coupling	1	PAGE 2
3	FI-CTP-E	Eductor Body	1	PAGE 2
4	FI-CTP-EBC	Nozzle Cone for Eductor	1	PAGE 2
5	410-1/2	Eductor dip tube suction hose -(to be cut to 4ft sec, in house)	1	PAGE 2
6	32-061	Barb fitting for eductor - 1/2"	1	PAGE 2
7	swgp2	Eductor dip tube nozzle - swgp2 ft	1	PAGE 2
8	TA112	Bulk head fittings - 1 1/2 inch	2	PAGE 2
9	RC1	Recirculation hoses (cut and fitted) - (3/4" x 24" MPTxSwivel)	3	PAGE 2
10	32-032	3/4" MPT X 3/4 Hose	8	PAGE 2
11	5152T42	Main Tank - Poly 65 gal.	1	PAGE 2
12	1069-211	Aluminum Tank Straps - 2" x 59" (2"x1/8" Flat Bar)	2	PAGE 2
13	1068-215	Aluminum Bars 1/4" in thick, 2" wide, 3ft length (Add L-Bracket)	2	PAGE 2
14	304SS	Main Bracket - stainless steel (run of 5) (Pump Bracket)	1	PAGE 2
15	JEDTK1935P	Dolly, Green - (Hand Cart)	1	PAGE 2
16	90201A316	3/8"-16 Fully Threaded, 1-1/4" Long, Zinc-Plated	4	PAGE 2
17	97135A220	Zinc Yellow-Chromate Plated, 5/16"-18 Thread Size	4	PAGE 2
18	98189A400	3/8" Screw Size, 0.438" ID, 1.000" OD	4	PAGE 2
19	90107A127	3/8" Screw Size, 0.406" ID, 0.750" OD	8	PAGE 2
20	RC3	Main hose - (400ft) cut and crimped (8-50ft sections)	1	PAGE 2
21	22W717	Booster pump CI 1 1/2 hp 115/230 - (Flint & Walling)	1	PAGE 2
22	48315K92	3/4 Pipe Size, 0.85" OD, Male Adapter	1	PAGE 2
23	BARBED FITTING		1	PAGE 2
24	Short Tube		1	PAGE 2
25	RC2	Hose	1	PAGE 2
26	45 DEGREE BARBED HOSE FITTING	Barbed Hose Fitting	1	PAGE 2
27	92916A365	1/4" Screw Size, 0.260" ID, 0.562" OD	4	PAGE 2
28	97135A210	Zinc Yellow-Chromate Plated, 1/4"-20 Thread Size	2	PAGE 2
29	93190A552	1/4"-20 Thread, 2-1/2" Long, Fully Threaded	2	PAGE 2
30	RK-GT100	Aluminum bracket for electrical switch	1	PAGE 2
31	138991	Toggle Switch Cover (Weather Tite)	1	PAGE 2
32	246432	20 AMP Toggle switch	1	PAGE 2
33	115867	Electrical box 3/4 inlets PVC	1	PAGE 2
34	SHC1023CR	3/4 Weather Tite connector	1	PAGE 2
35	6716	Stainless hose clamp 1"	4	PAGE 3
36	93190A687	7/16"-20 Thread, 1-1/4" Long, Fully Threaded	4	PAGE 3

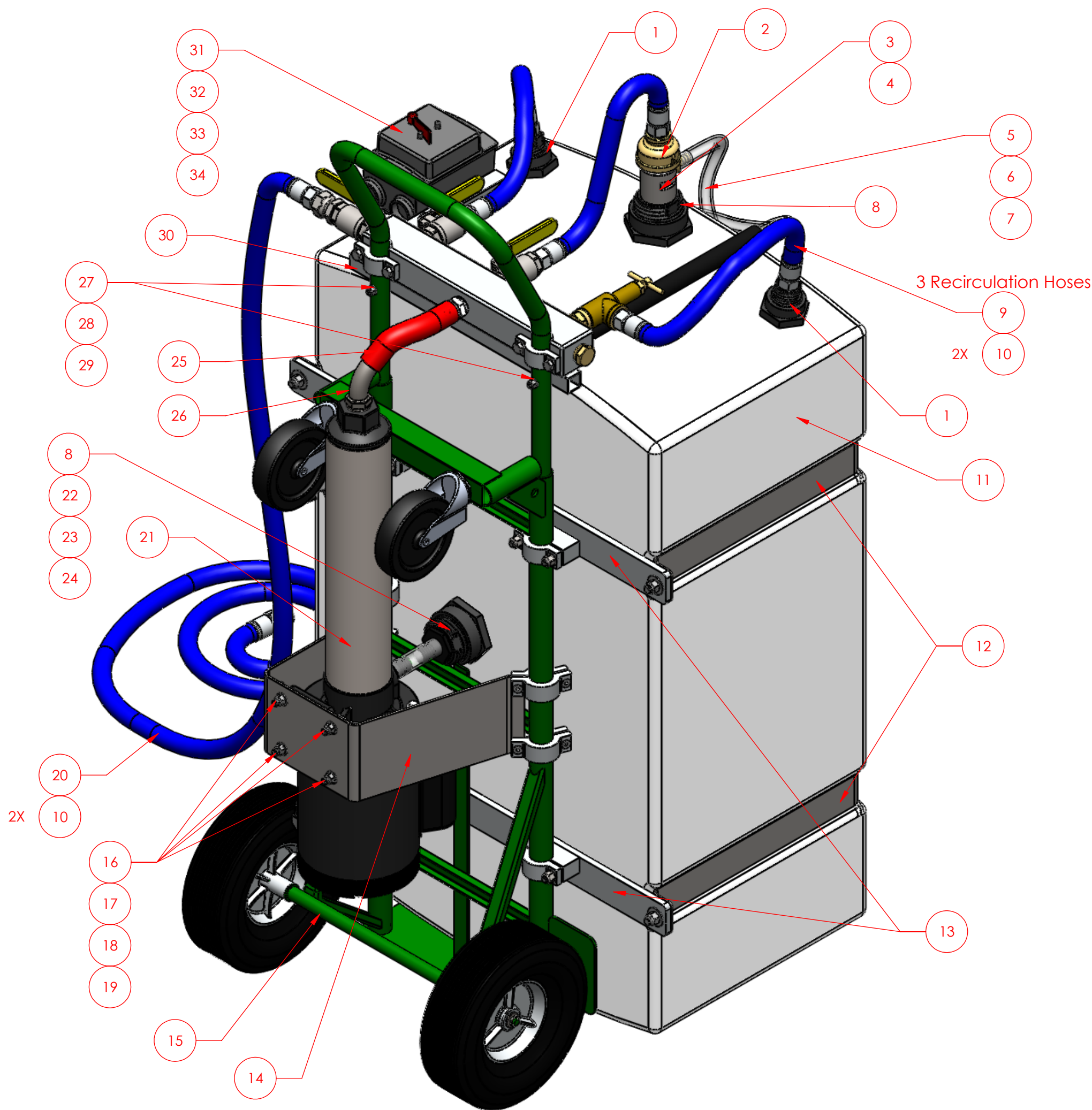
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	PART LOCATION
37	97135A245	Zinc Yellow-Chromate Plated, 7/16"-20 Thread Size	4	PAGE 3
38	90107A032	7/16" Screw Size, 0.500 ID, 1.125" OD	8	PAGE 3
39	TA4002	3/4 " spin weld fitting - drain	1	PAGE 3
40	TLR5036R	1-1/4 " Anti vortex fitting	1	PAGE 3
41	BUV075FP	3/4 Poly Valve	1	PAGE 3
42	FI-CTP-B2	FIREICE SHIELD CTP BRACKET 2	4	PAGE 3
43	90585A541	1/4"-20 Thread, 7/8" Long	8	PAGE 3
44	FI-CTP-B1	FIREICE SHIELD CTP BRACKET 1	4	PAGE 3
45	SCH227NY	1/2" SJ Type Poly Weather Tite Connector	1	PAGE 3
46	SHC1050LR	90 Degree - Weather Tite Connector - Motor	1	PAGE 3
47	90585A065	3/8"-16 Thread, 2-3/4" Long	8	PAGE 3
48	FI-CTP-B4	FIREICE SHIELD CTP BRACKET 4	4	PAGE 3
49	FI-CTP-B3	FIREICE SHIELD CTP BRACKET 3	4	PAGE 3
50	3/8LN	Fastners - 3/8" Stainless Lock Nuts	8	PAGE 3
51	3/8FW	Fastners - 3/8" Stainless Flat Washer	8	PAGE 3
52	FI-CTP-B5	FIREICE SHIELD CTP BRACKET 5	2	PAGE 4
53	93190A624	3/8"-16 Thread, 1" Long, Fully Threaded	4	PAGE 4
54	FI-CTP-M	MANIFOLD	1	PAGE 4
55	28-205	3/4 Plug	1	PAGE 4
56	BARBED FITTING	Barbed Fitting	1	PAGE 4
57	V161	Ball valve - 3/4 inch	3	PAGE 4
58	BNIP075-SH	3/4 close Nipple	3	PAGE 4
59	S6815-3/4-150	Relief valve - 3/4 inch	1	PAGE 4
60	W2018-12-12S	Flair to NPT adapters - 3/4 in male pipe to 3/4 in female JIC	1	PAGE 4
61	28-115	Bushings - 1" x 3/4" NPT - Brass	1	PAGE 4
62	82035N12	Carrying case (Husky brand) cloth Red and Black	1	PAGE 5
63	1252	Teflon tape (Oatey 1/2 in x 260) PTFE Thread seal tape	1	PAGE 5
64	4FLT5	Vacuum Gauge	1	PAGE 5
65	71775670	Pentair bag Filter - 16 - 1/2 in	1	PAGE 5
66	GG38505	Nozzle Gun	1	PAGE 5
67	82071812	Clean out kit - Air brush cleaning brushes	1 Set	PAGE 5
68	FANN 206884	Marsh funnel	1	PAGE 5
69	FANN 206889	Measuring cup for Marsh funnel	1	PAGE 5
70	FI-CTP-SSH	Spray Nozzle	1	Page 5



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CTP System

1460 Park Lane South, Suite 1
Jupiter, Florida 33458



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4	FI-CTP-EBC	Nozzle Cone for Eductor	1
5	410-1/2	Eductor dip tube suction hose -(to be cut to 4ft sec, in house)	1
6	32-061	Barb fitting for eductor - 1/2"	1
7	swgp2	Eductor dip tube nozzle - swgp2 ft	1
8	TAT12	Bulk head fittings - 1 1/2 inch	2
9	RC1	Recirculation hoses (cut and fitted) - (3/4" x 24" MPTxSwivel)	3
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24	SHORT TUBE		1
25	RC2	Hose	1
26	45 DEGREE BARBED HOSE FITTING	Barbed Hose Fitting	1
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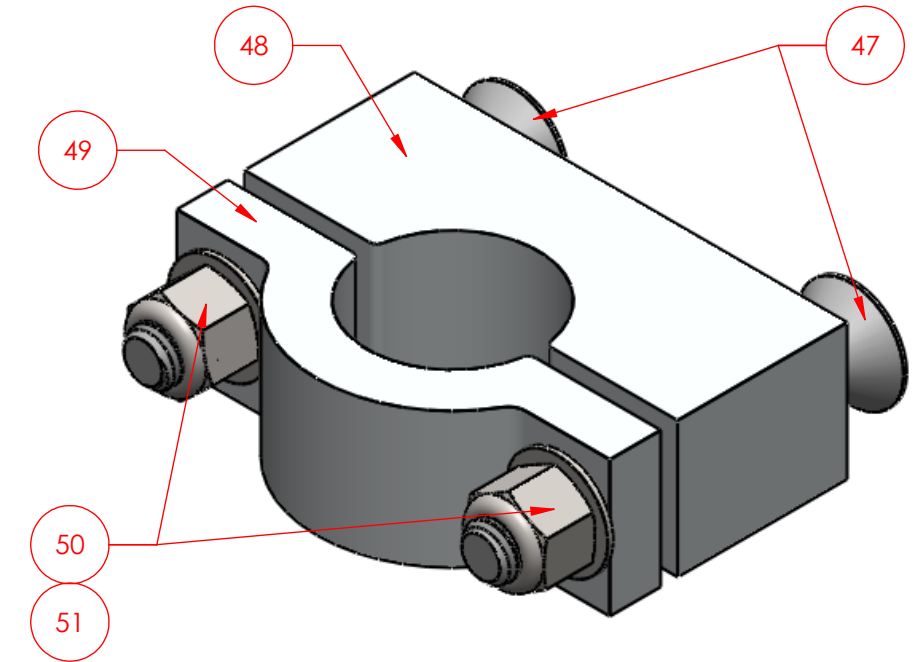
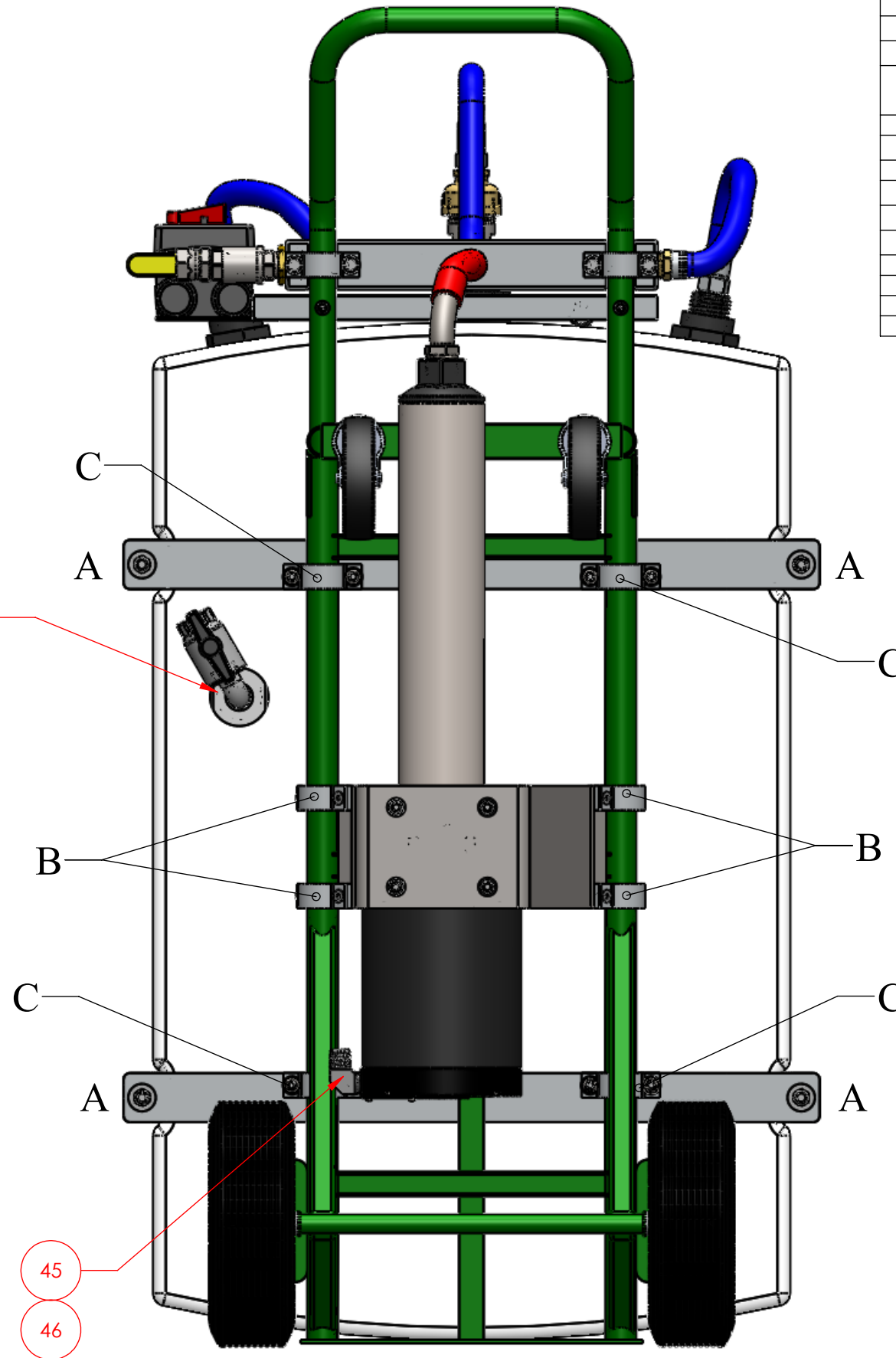
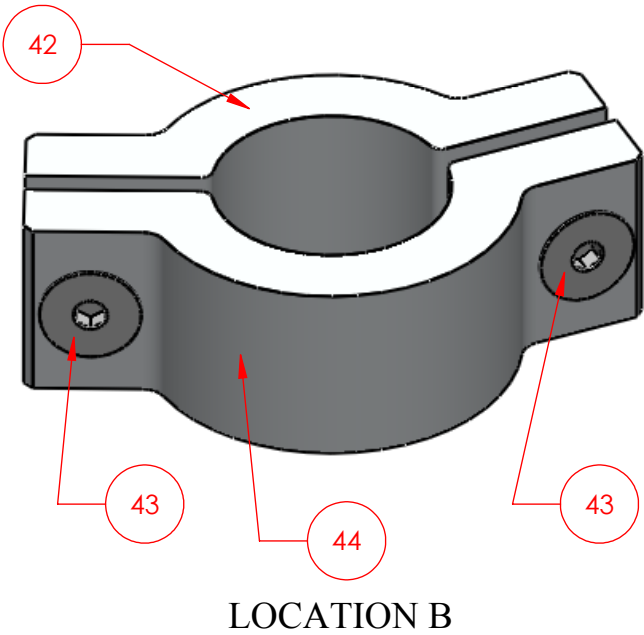
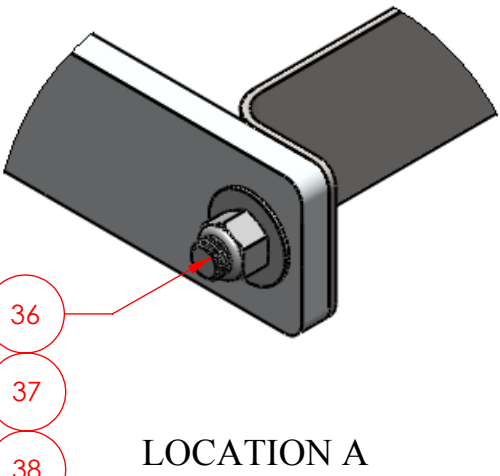
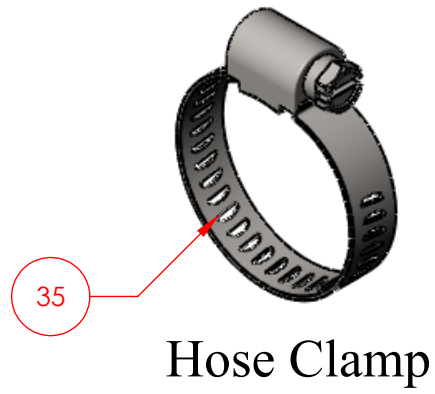


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CTP System

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
35	6716	Stainless hose clamp 1"	4
36	93190A687	7/16"-20 Thread, 1-1/4" Long, Fully Threaded	4
37	97135A245	Zinc Yellow-Chromate Plated, 7/16"-20 Thread Size	4
38	90107A032	7/16" Screw Size, 0.500 ID, 1.125" OD	8
39	TA4002	3/4" spin weld fitting - drain	1
40	TLR5036R	1-1/4" Anti vortex fitting	1
41	BUV075FP	3/4 Poly Valve	1
24	FI-CTP-B2	FIREICE SHIELD CTP BRACKET 2	4
43	90585A541	1/4"-20 Thread, 7/8" Long	8
44	FI-CTP-B1	FIREICE SHIELD CTP BRACKET 1	4
45	SCH227NY	1/2" SJ Type Poly Weather Tite Connector	1
46	SHC1050LR	90 Degree - Weather Tite Connector - Motor	1
47	90585A065	3/8"-16 Thread, 2-3/4" Long	8
48	FI-CTP-B4	FIREICE SHIELD CTP BRACKET 4	4
49	FI-CTP-B3	FIREICE SHIELD CTP BRACKET 3	4
50	3/8LN	Fasteners - 3/8" Stainless Lock Nuts	8
51	3/8FW	Fasteners - 3/8" Stainless Flat Washer	8



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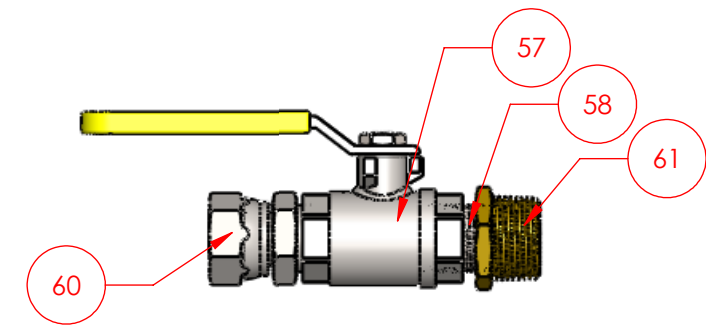
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CTP System

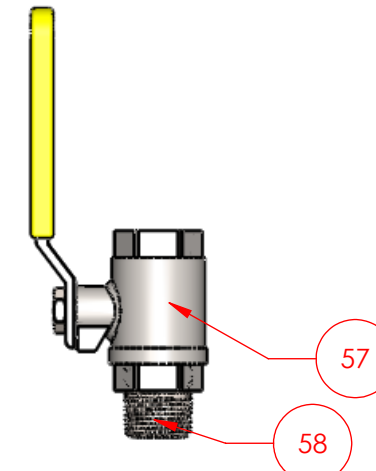
Letters correspond to locations

Numbers correspond to parts

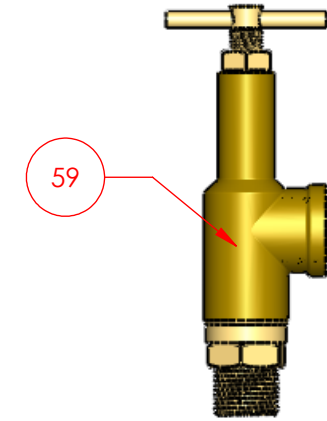
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
52	FI-CTP-B5	FIREICE SHIELD CTP BRACKET 5	2
53	93190A624	3/8"-16 THREAD, 1" LONG, FULLY THREADED	4
54	FI-CTP-M	MANIFOLD	1
55	28-205	3/4 Plug	1
56	BARBED FITTING	Barbed Fitting	1
57	V161	Ball valve - 3/4 inch	3
58	BNIP075-SH	3/4 close Nipple	3
59	S6815-3/4-150	Relief valve - 3/4 inch	1
60	W2018-12-12S	Flair to NPT adapters - 3/4 in male pipe to 3/4 in female JIC	1
61	28-115	Bushings - 1" x 3/4" NPT - Brass	1



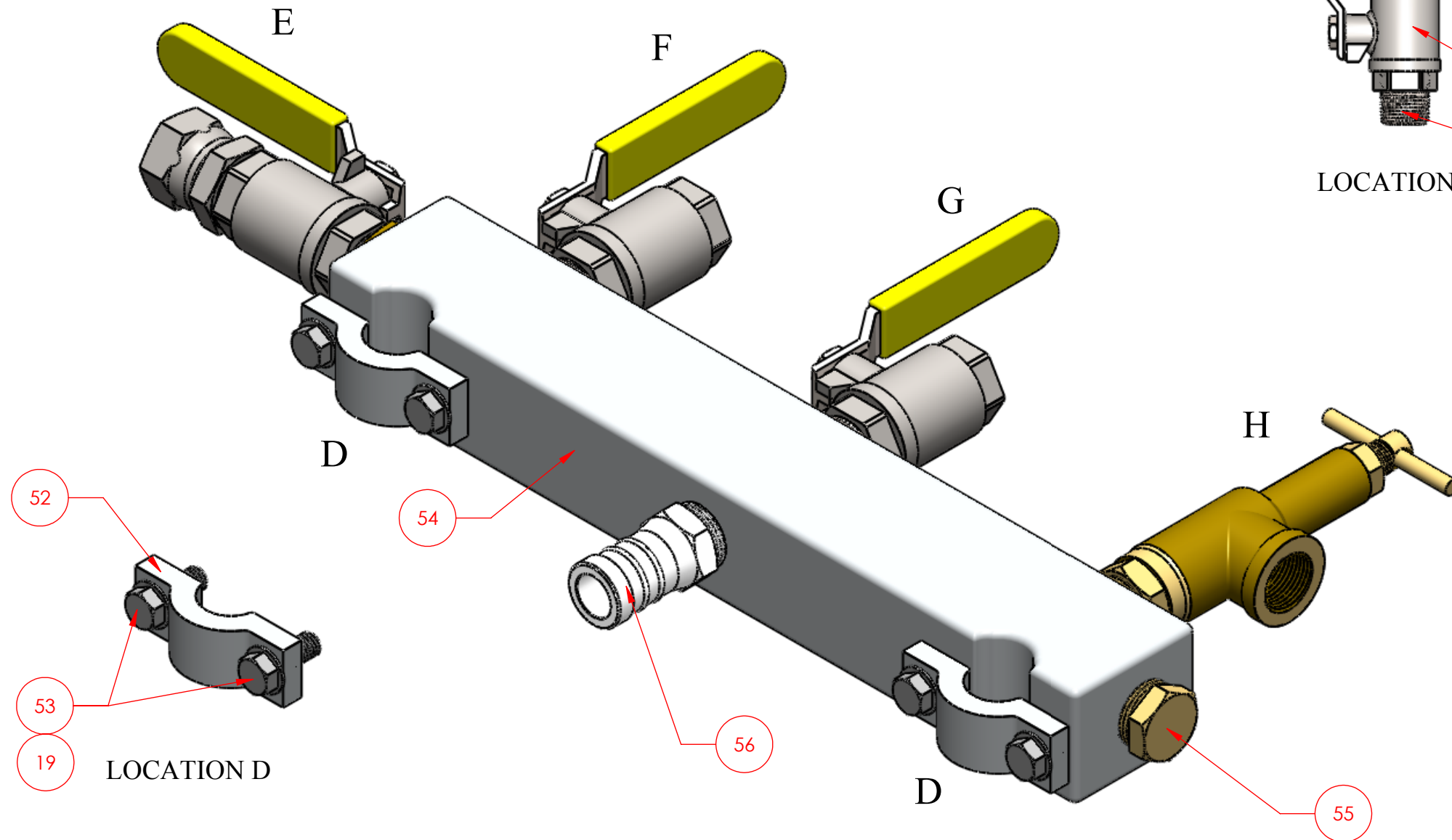
LOCATION E



LOCATION F & G



LOCATION H



LOCATION D

Letters correspond to locations

Numbers correspond to parts



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	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	62	82035N12	Carrying case (Husky brand) cloth Red and Black	1
	63	1252	Teflon tape (Oatey 1/2 in x 260) PTFE Thread seal tape	1
	64	4FLT5	Vacuum Gauge	1
	65	71775670	Pentair bag Filter - 16 - 1/2 in	2
	66	GG38505	Nozzle Gun	1
	67	82071812	Clean out kit - Air brush cleaning brushes	1 Set
	68	FANN 206884	Marsh funnel	1
	69	FANN 206889	Measuring cup for Marsh funnel	1
	70	FI-CTP-SSH	Spray Nozzle	1

Parts Stored In Carrying Case



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CTP System