




**CONTROLLED**  
FLAME TECHNOLOGIES



2023 PRODUCT CATALOG





**Proception Limited** is bringing the highly successful Pulsefire lineup of long range torches sold in the United States to the global market under the brand Controlled Flame Technologies.

Manufactured by the same team to the same standards, you can be confident in getting the same high quality products delivered anywhere in the world it's legal to do so.

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**Pulsefire LRT**  
SKU: CFT-LRT

When you press the trigger, the fuel pump draws gasoline from the non-pressurized reservoir and forces it through the nozzle, where it passes through an arc of plasma, producing an 8 meter stream of fire.\*

We've sold numerous systems to firefighters, farmers, and controlled burn prescribers - they love using an efficient, portable, long range torch for work. The Pulsefire is the safest and most effective way to apply fire at a distance.

**WHAT FUEL DOES IT USE?**

**Gasoline** (unleaded, any octane) will produce a bright hot flashy flame and produces the most reliable and brilliant results.

A **gasoline-diesel** mixture (up to 50% diesel) is what you want to use for burning foliage. The heat from the burning gasoline will keep the diesel above its flash point, and the oily diesel fuel will keep the fire going until whatever you're burning is toast.

**HOW LONG DOES THE BATTERY LAST?**

Fully charged, it should power the system for at least 15 full tanks of fuel, or 2 full backpacks before requiring charging. Environmental conditions as well as variations in manufacturing can affect this capacity. At about 10.8 volts, the system will cut power to the trigger to alert you that it's time to change or charge the battery.



**8 METER RANGE**

Send a stream of fuel and flames up to 8 meters\* with the press of a button.



**ARC IGNITION**

Ready when you need it with continuous electric arc ignition. Press button, receive flames.



**LOW POWER PROTECTION**

When you approach 10.5 volts, the system will temporarily disable the trigger, letting you know it's time to charge or change the battery.



**LIGHTWEIGHT**

Constructed primarily of aluminum, the Pulsefire is compact and easy to handle - only 2.7 kg empty.



**QUICK CHANGE BATTERY**

Easy thumbscrew access to the battery compartment lets you charge or swap out your battery in seconds.



**OVER 4 MINUTES OF FIRE**

available with the optional 12.5 liter Backpack Kit; 27 second standard capacity.

<b>Length</b>	65.3 cm
<b>Width</b>	21.6 cm
<b>Height</b>	25.4 cm
<b>Weight</b>	2.72 kg
<b>Ignition</b>	High frequency electric spark
<b>Default Nozzle</b>	1.8 mm solid stream
<b>Typical Reach</b>	≥ 8 m*
<b>Fuel Capacity</b>	1.6 L
<b>Compatible Fuel</b>	Gasoline, gasoline-diesel mixture
<b>Primary Materials</b>	Aluminum, Viton, brass
<b>Finish</b>	Powder coat
<b>Battery</b>	2200 mAh 3-cell rechargeable lithium



**Includes:** Long range torch, user manual, rechargeable battery, and charger.  
\*under ideal conditions





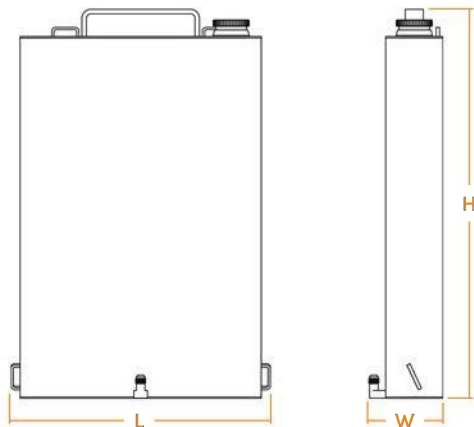


# INCREASE FUEL CAPACITY TO SUPPORT OVER 4 MINUTES

This 12.5 liter backpack kit transforms the handheld **Pulsefire** torch into a professional controlled burn system. Slim design keeps the 12 kg (filled) weight close and comfortable.



**Backpack Kit**  
SKU: CFT-BACKPACK



<b>Length</b>	36 cm
<b>Width</b>	10 cm
<b>Height</b>	55 cm
<b>Weight</b>	2.8 kg
<b>Fuel Capacity</b>	12.5 L
<b>Compatible fuel</b>	Gasoline, gasoline-diesel mixture
<b>Primary Materials</b>	Aluminum, Viton
<b>Finish</b>	Powder coat
<b>Hose Assembly</b>	2 m PTFE core, SS304 braid, SS304 37° JIC fittings
<b>Reservoir Outlet</b>	Male 37° JIC

**Includes:** Reservoir, shoulder straps, hose assembly, fittings, and user manual.









### Spare Battery

SKU: CFT-BATTERY

Type	Lithium polymer
Capacity	2200 mAh
Number of Cells	3
Voltage (nominal)	11.1
Discharge Rate	25C (up to 55 amps)
Output Connector	XT60
Charging Connector	JST-XH 4-pin
Rechargeable	Yes



### Battery Charger

SKU: CFT-CHARGER

Includes necessary plug to fit AC outlet in each customer's country.

AC Input	100-240 V, 50-60 Hz
Battery Type	LiPo
Cells	2-3
Charge Current	1.5 A $\pm$ 10%
Cell Voltage	4.2 V $\pm$ 0.02 V
Power	11 W $\pm$ 10%
Dimensions	88 x 57 x 35 mm
Weight	103 g



### Carry Bag

SKU: CFT-BAG

This carry bag is designed to hold the **Pulsefire LRT** with (or without) the **Backpack Kit** installed/attached.

The backpack lays on the bottom and is padded on all sides, then a middle layer is placed which allows pass-through of the hose still connected to the backpack, and the LRT is placed onto that layer.

3 cutouts in the foam for batteries, 1 cutout for the battery charger, and multiple pouches on the outside of the bag for extra items.









# REPLACEMENT PARTS

## SKU

HVT-KIT  
PART-37JIC-M10-ADAPTER  
PART-BPHOSE-ASM  
PART-BP-STRAP  
PART-CLAMP-PUMP  
PART-CLAMP-SPRING  
PART-COPPERWASHER-M10  
PART-CV-CAP  
PART-CV-PUMP  
PART-FUELCAP-ODG  
PART-FUELPUMP  
PART-FUSE  
PART-FUSEHOLDER  
PART-GROMMET  
PART-HOSE-VITON  
PART-LRT-HEATSHIELD-ODG  
PART-LRT-IBP  
PART-LRT-LID-ODG  
PART-LRT-WELDEDBODY-ODG  
PART-NOZ-SHIELD  
PART-NOZZLE  
PART-NUT-ELECTRODE  
PART-NUT-NOZZLE  
PART-ORING-FUELCAP  
PART-PCBA  
PART-PCBA-COVER  
PART-SCREW-FUELTANK  
PART-SCREW-HEATSHIELD  
PART-SCREW-HVT  
PART-SCREW-IBP  
PART-SNAPRING-FUELCAP  
PART-SW-4WP  
PART-SW-COVER  
PART-SW-TRIG  
PART-TANK-BP-ODG  
PART-TANK-STD-ODG  
PART-TERMINAL-CONNECTOR  
PART-TERMINAL-COVER  
PART-VOLT-GAUGE-ASM  
PART-WASHER-FUELTANK  
PART-WASHER-HEATSHIELD  
THUMBSCREW-TETHER

## DESCRIPTION

Arc Ignition Kit  
37° JIC -6 x M10 Stainless Fitting  
Backpack Hose Assembly  
Backpack shoulder strap set  
Hose Clamp (Fuel Pump Mounting)  
Hose Clamp (Fuel Hose)  
M10 Copper Sealing Washer  
Check Valve (Fuel Cap)  
Check Valve (Fuel Pump)  
Fuel cap (OD Green)  
Fuel Pump  
Fuse  
Fuse holder  
Rubber Grommet  
Fluoroelastomer Hose (0.5 meter)  
LRT Heat Shield (OD Green)  
Internal Body Plate  
LRT Lid (OD Green)  
Welded LRT body assembly (OD Green)  
Nozzle Shield (LRT)  
Nozzle Assembly  
Nut (Electrodes)  
Nut (Nozzle/shield)  
O-Ring for Fuel Cap  
Circuit Board  
Circuit Board Plastic Backer/Cover  
Screw (LRT Fuel Tank)  
Screw (Heat Shield Mounting)  
Screw (HVT Mounting)  
Screw (Internal Body Plate)  
Internal Retaining Ring for Fuel Cap  
Power Switch  
Flip-up Switch Cover  
Trigger Switch  
Fuel Tank, Backpack (OD Green)  
Fuel Tank, Standard (OD Green)  
Female crimp spade connector  
Plastic insulating sleeve  
Voltage Gauge with wires  
Washer (LRT Fuel Tank)  
Lock Washer (Heat Shield Mounting)  
Thumbscrew & Tether





**Controlled Flame Technologies** by Proception Limited.

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