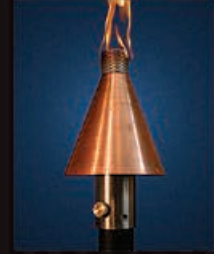




# TORCHES & EQUIPMENT

*In  
Business  
Since  
1959*



**FLAME ENGINEERING, INC.**  
*Manufacturing the Original Red Dragon® Torch Since 1959*



-  COMPLETE TORCH KITS
-  AGRICULTURAL EQUIPMENT
-  CONSTRUCTION HEATERS
-  PATIO LIGHTS
-  PROPANE FLARES
-  ROOFING TORCHES & EQUIP.
-  TORCHES
-  PARTS & ACCESSORIES
-  CYLINDER DOLLY
-  PROPANE INFORMATION

**FLAME ENGINEERING, INC. GENERAL PRODUCTS CATALOG**

*Catalog #1-23R*

**F**rom the development of a single, hand-held farm torch in 1959, to over 100 products which serve many industries today, Flame Engineering combines simplicity, function, practicality and affordability to create some of the most unique products available.

Our top priority has always been Red Dragon® Torches and flaming equipment. We are the first manufacturer ever to receive American Gas Association and Canadian Gas Association certification on hand-held torch kits used with a remote fuel supply. Throughout the years, Flame Engineering has been at the front lines, developing new products and listening to the people who use them. Our patented Liquid Propane Spray process, for example, provided more flame length, width and volume than vapor torches or the old coil-type liquid torches could offer. More recently, the Row Crop and Grapevine Berm Flamers are the only systems in the agricultural sector today which utilize our unique vaporizing liquid torch designs. No other manufacturer offers such a diverse line which serves the needs of all.

In addition to torches, Flame Engineering developed the highly successful and extremely durable Hot Box construction heater. Our Patio Lights are unique open flame lights which are copied by others, but never equaled. The elegance of the Patio Lights continue to delight homeowners, restaurants, resorts and outdoor enthusiasts.

On a grander scale, the propane flare used to evacuate liquid and vapor tanks for valve change-outs, re-certifications or emergency flare-offs, has been well received in Canada and the U.S. With flame sensing and complete safety shutdown in case of a flame-out, we combine high capacity flaring with convenience and safety, making it a very unique product in the propane and emergency industries.

In order to be successful, we believe that the product must be easy to sell at the distributor level and reliable at the customer level. In addition, we provide a good deal of advertising, internet information and toll free customer service to support our distributors and inform the end users. We welcome your comments and suggestions and look forward to hearing from you.

Call us at **800-255-2469!**

### **Members Of:**

- **National Propane Gas Association**
- **North American Retail Hardware Association**
- **Propane Marketers Association of Kansas**
- **National Association of Manufacturers**
- **Western Kansas Manufacturers Association**
- **Mid-American Manufacturing Technology**
- **National Roofing Contractors Association**
- **Western States Roofing Contractors Association**
- **Midwest Roofing Contractors Association**
  - **Organic Trade Association**
  - **US Poultry & Egg Association**
  - **Hemp Association of America**

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**Put A Red Dragon® Torch To Work For You – Hundreds of Uses Year Round**

**FLAME** weeds in your yard, garden, concrete cracks, rock gardens, driveways, and along fence lines. Perfect for controlling growth along the chainlink fence. Flaming reduces or eliminates spraying chemicals and is a lot more fun than pulling weeds.

**BURN** heavy weeds and brush, stumps, debris and more. Perfect to burn off irrigation and road ditches, fields, culverts, etc. Start charcoal, campfires, burn barrels and back fires.

**THAW** frozen water pipes. Melt snow and ice off steps, sidewalks, driveways and nonflammable surfaces.

**HEAT** metal castings, pipe and tubing, branding irons, pots, kettles, tar, asphalt and roofing materials.

**STERILIZE** bird and animal cages, pens and other nonflammable confinement areas.

**DRY** or thaw sand, dirt and other materials used in construction and excavation.

**REMOVE** paint, grease, oil, plastic and other residues from metal, concrete and other nonflammable objects.

**MUCH MORE!  
FIND OUT WHAT A  
RED DRAGON® TORCH  
CAN DO FOR YOU  
TODAY!**

**Flame Weeding 101: (Always read and follow Safety Instructions)  
A Quick Guide To Weed Control With A Red Dragon® Torch.  
Get There Early!**



*A quick pass with the torch is usually enough to damage leaves and ultimately kill weeds.*



*A quick thumb print test determines if significant cell damage has occurred.*



*Shortly after flaming, the weed turns a dark green and shows stress and wilting.*



*Days later, weed decay is obvious.  
FLAMING WORKS!*

When flame weeding, the most effective method is to catch weeds early, from 1-4 inches. At this small stage, flaming is very near 100% effective, whereas weeds over 4 inches are more difficult to kill without an extended dose of heat.

By destroying cell structure in the plant leaf, the weed will no longer put energy toward growth, so even on big weeds, you will see a stunting effect or even a kill, depending on how established the root system is and how long the plant was exposed to heat.

On smaller weeds a slow walk is usually the best pace – just a split second blast of heat should kill unwanted weeds and grasses – you don't need to burn them to a crisp. By nature some grasses will return following a flaming. Repeat applications, however, will usually do the trick. For best results, increase exposure to heat if weeds are wet from dew. Water on the leaves acts as insulation and decreases cell damage unless exposure time is increased.

It's important to remember when flaming in and around desirable plants that heating those leaves can cause damage as well, so be careful around flowers and shrubs – particularly evergreens. Conifers are very flammable and should be avoided.

Poison ivy should also be avoided – the smoke from burned leaves will cause a rash.

**VIDEO  
AVAILABLE  
ONLINE!**

**Which Red Dragon® Torch Kit Is Right For You?**

Most likely you want a Vapor Torch Kit. We offer these in a variety of BTU ratings and sizes to suit most job requirements. Vapor Torch Kits require a standard vapor withdrawal cylinder (like a gas grill bottle) and are sold in a variety of sizes.

If you plan on using your torch continuously for great lengths of time or if you plan on using it in sub-zero climates you will need to use a Liquid Torch Kit. Liquid

Torch Kits require a propane tank equipped with a liquid withdrawal valve. Talk to your local propane dealer for more information about this.

If you want something more like a flame thrower for hard to reach areas or heavy brush, check out our Jet Torches.

Jet Torches require a vapor withdrawal propane cylinder (we recommend no less than a 100 lb. cylinder).

*“I wish I had bought one sooner. Weed Control is so much easier. Thank you.”  
P.P., Mason, NV*

*“This colder than average December left our unloading augers in blocks of ice. I took the propane bottle from our gas grill, assembled my Red Dragon, and melted through the ice with no equipment damage and in less time than it took to go buy it.”  
S.L., Oakland City, IN*

*“Bought for burning brushpiles in wintertime and blueberries in spring.”  
L.L., Richmond, ME*

*“Last year, two of us spent half a day lying on frozen concrete under a hydro dam rake carriage draped with tarps shielding space heaters and hair dryers. This year, one person spent 1 1/2 hours with the Dragon and a hammer! YES!”  
J.B., Montpelier, VT*

*“This torch is one of the greatest ideas and handiest that has come along in a long time.”  
R.W.J., Washington, IL*

*“Great Products. Been using to burn fence lines, brush piles and leaf piles. Fantastic all purpose piece of equipment. Very Pleased. Should have had one years ago. Thank you.”  
B.C., Garwin, IA*

*“My husband and I don’t want to use weed sprays in our yard because we have two beloved dogs. The Weed Dragon allows us to have a beautiful lawn and healthy, happy pets!”  
J.T., Elk Park, NC*

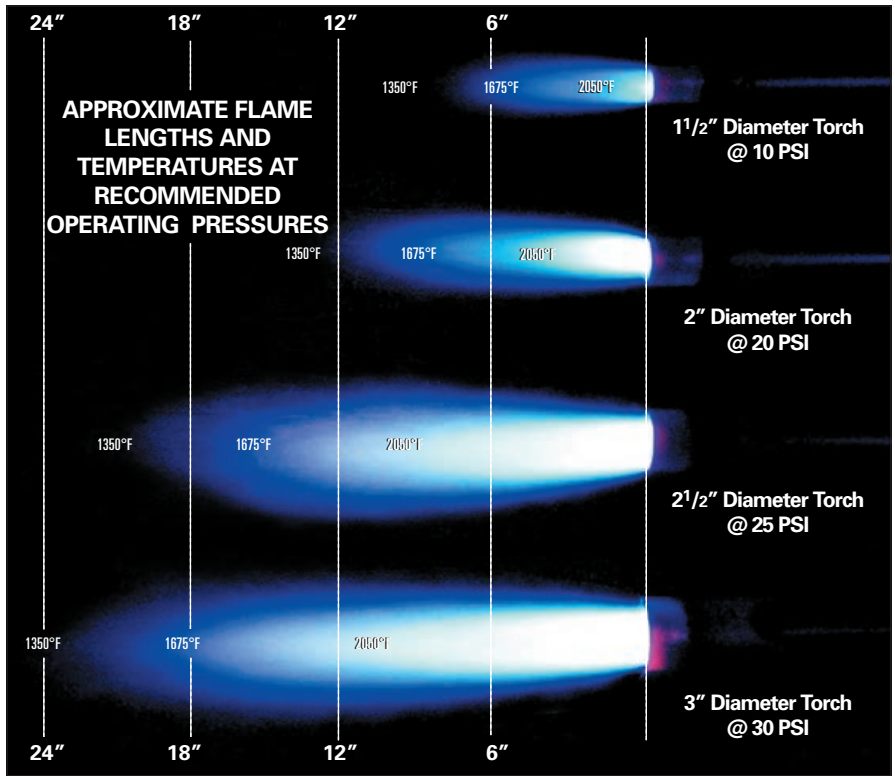
*“We have tried all kinds of things to control weeds on our 2 1/2 acres. This thing works great. Best of all, no harmful pesticides going into the ground.”  
S.C., Ely, NV*

*“Great torch. Used for the first time and I was simply amazed at its performance. Liked it so much, I hated to shut it off but it got dark.”  
D.G., Mertzown, PA*

- **Red Dragon® Torches are made of durable, lightweight steel and complete kits include all parts necessary for safe operation.**
- **BTU Capacities Ranging From 50,000 to 500,000**
- **Many Sizes and Lengths To Choose From – One Is Perfect For You**
- **Models For Farm & Ranch, Home and Garden, Manufacturing, Construction and More**
- **Individually Tested Before Leaving The Factory**

**Red Dragon® Vapor Torch Kits**

Red Dragon® Vapor Torches have been designed with you, the customer, in mind. High quality, rugged all steel construction assures that these torches will be around for many years. You may select from bell diameters of 3”, 2 1/2”, 2”, 1 1/2” and 1” with maximum BTU capacities ranging from 50,000 to 500,000.



This graphic illustrates flame temperatures and lengths at normal operating pressures. Flame length will vary depending on tank pressure and the flame adjusting valve setting. All Red Dragon® Vapor Torches emit flames up to 2050° F. When choosing a torch, keep in mind that optimum heat is not at the torch head, but beyond as illustrated here. By directing a 3 inch diameter torch at a weed from 12 inches away, for example, you’re using the torch at it’s utmost efficiency.



**VT3-30C & VT3-30SVC – 500,000 BTU**  
**The “Original” Red Dragon® Torch Kits**

**Simple, lightweight, easy to use and very effective:**

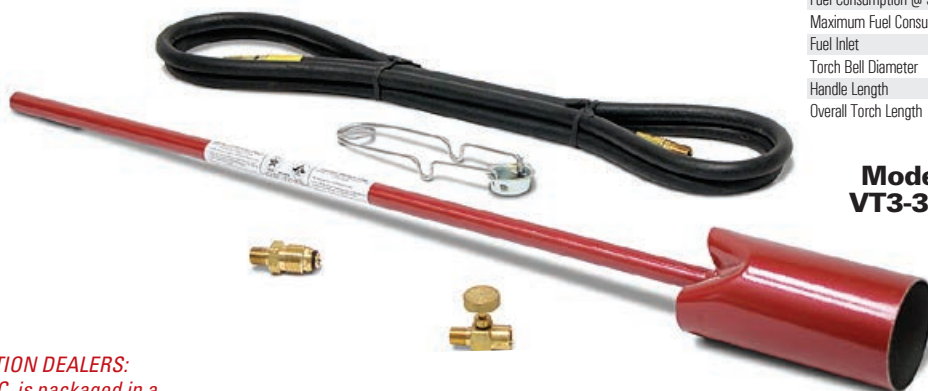
The VT3-30C is our most versatile “weed burner” and the most popular torch kit in America. At 500,000 BTU/hr, this kit really delivers the heat for weed burning, thawing, heating or whatever the job may require. A 28” handle and all-new flame adjusting valve make the VT3-30C our Deluxe Torch of choice for farmers, ranchers, construction professionals and property owners.

VT3-30C is also available with a flame control squeeze valve and handle! Perfect for spot weeding and instances where full flame is not continuously required. The valve will quickly pay for itself in propane savings! Order VT3-30SVC.

**Torch kits are CSA Certified for the United States and Canada on tank pressure and do not require the use of a regulator.**



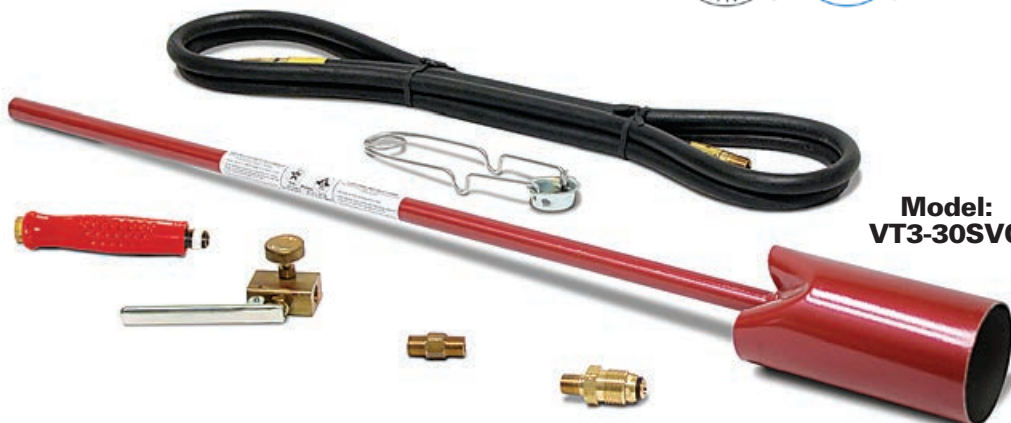
**ATTENTION DEALERS:**  
 VT3-30C is packaged in a NEW sturdy box, with full color graphics.



**VT3-30 Vapor Torch Specifications:**

Maximum Capacity	500,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 30 P.S.I.	10.13 lbs/hr
Maximum Fuel Consumption	23.3 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"
Handle Length	28"
Overall Torch Length	33 1/2"

**Model: VT3-30C**



**Model: VT3-30SVC**



**Kits Include:**

Part No.	Description
VT3-30	500,000 BTU Vapor Torch
HP10C	10' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L.Fitting
V-334	Flame Adjusting Needle Valve
V880P/H-1	Squeeze Valve & Handle w/Adjustable Pilot (SVC Model)
L2002*	Spark Lighter
	Pipe Thread Sealant

TORCH KIT ORDER INFORMATION			
Order SKU #	Wt Each	Case Qty	Case Wt
VT3-30C	4.5 lbs	6	27.0 lbs
VT3-30SVC	5.0 lbs	1	5.0 lbs

Visit us at [www.FlameEngineering.com](http://www.FlameEngineering.com) for special offerings!

**Complete Vapor Torch Kits – The Best Torch Kits For Weed Control, Heating, Thawing & More**



**VT2<sup>1</sup>/<sub>2</sub>-30C & VT2<sup>1</sup>/<sub>2</sub>-30SVC – 400,000 BTU**

**Simple, lightweight, easy to use and very effective:**

The VT2<sup>1</sup>/<sub>2</sub>-30C is a small step down from the VT3-30C with a 400,000 BTU/hr rating and a smaller diameter torch head creating a slightly more concentrated flame. It is a very effective kit and is a great choice for jobs which don't require the power of the VT3-30C.

VT2<sup>1</sup>/<sub>2</sub>-30C is also available with a flame control squeeze valve and handle! Perfect for spot weeding and instances where full flame is not continuously required. The valve will quickly pay for itself in propane savings! Order VT2<sup>1</sup>/<sub>2</sub>-30SVC.

**Torch kits are CSA Certified for the United States and Canada on tank pressure and do not require the use of a regulator.**

**ATTENTION DEALERS:**  
VT2<sup>1</sup>/<sub>2</sub>-30C are packaged in a sturdy, full color graphic box.

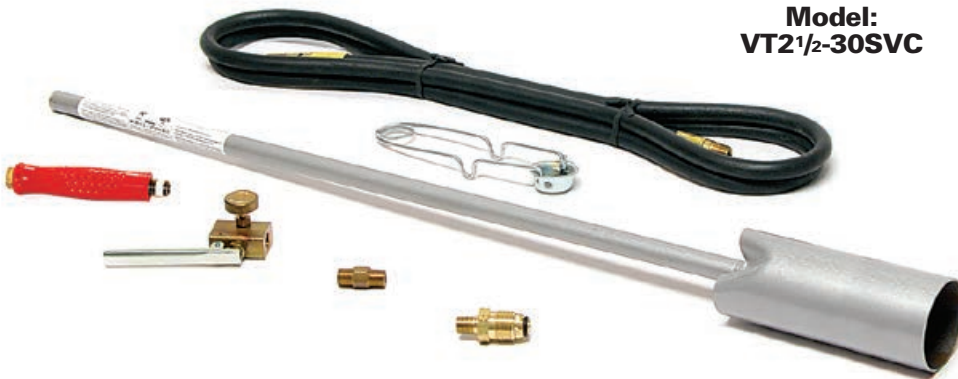


**VT2<sup>1</sup>/<sub>2</sub>-30 Vapor Torch Specifications:**

Maximum Capacity	400,000 BTU/hr
Normal Operating Pressure	25 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 25 P.S.I.	9.03 lbs/hr
Maximum Fuel Consumption	16 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2 1/2"
Handle Length	28"
Overall Torch Length	33"



**Model:  
VT2<sup>1</sup>/<sub>2</sub>-30C**



**Model:  
VT2<sup>1</sup>/<sub>2</sub>-30SVC**

TORCH KIT ORDER INFORMATION			
Order SKU #	Wt Each	Case Qty	Case Wt
VT2 <sup>1</sup> / <sub>2</sub> -30C	4.3 lbs	6	24.4 lbs
VT2 <sup>1</sup> / <sub>2</sub> -30SVC	5.0 lbs	1	5.0 lbs



**Kits Include:**

Part No.	Description
VT2 <sup>1</sup> / <sub>2</sub> -30	400,000 BTU Vapor Torch
HP10C	10' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L.Fitting
V-334	Flame Adjusting Needle Valve
V-880P/H-1	Squeeze Valve & Handle w/Adjustable Pilot (SVC Model)
L2002*	Spark Lighter
	Pipe Thread Sealant

Visit us at [www.FlameEngineering.com](http://www.FlameEngineering.com) for special offerings!



**VT2-23C – 100,000 BTU Torch Kit**  
**VT2-23SVC – 100,000 BTU Torch Kit w/Squeeze Valve**  
**America's Favorite Home & Garden Torch Kits**

Fully assembled and ready to go, the Weed Dragon® is great for around the home & garden. We've regulated the flame and BTU down for homeowners who don't need the power of a farm torch. A great way to reduce or eliminate herbicide use where children and pets could be exposed. Use with a large or small cylinder (not for use with a 1 lb. cylinder). And now this great kit is available with a flame control squeeze valve! Perfect for spot weeding and instances where full flame is not continuously required. The valve will quickly pay for itself in propane savings! **CSA Certified for the United States and Canada.**



**Model: VT2-23C**  
**Both Models Come Fully Assembled!**

**VT2-23 Vapor Torch Specifications:**

Maximum Capacity	100,000 BTU/hr
Normal Operating Pressure	18 P.S.I.
Operating Pressure Range	5-25 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 18 P.S.I.	2.25 lbs/hr
Maximum Fuel Consumption	4.6 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2"
Handle Length	23"
Overall Torch Length	27 1/2"



**ATTENTION DEALERS:**  
 VT2-23C Weed Dragon® kits are packaged in a sturdy, full color graphic box.

TORCH KIT ORDER INFORMATION				
Order SKU #	Wt Each	Case Qty	Case Wt	
VT2-23C	5.0 lbs	6	31.0 lbs	
VT2-23SVC	5.5 lbs	1	5.5 lbs	



**Model: VT2-23SVC**

**Weed Dragon® Kits Includes:**

Part No.	Description
VT2-23	Vapor Torch w/plastic grip
HP-10TMM	10' U.L. Listed LP Gas Hose
P-W795	Hand-Tighten U.L. Listed Excess Flow P.O.L.
V-334	Flame Adjusting Needle Valve (VT2-23C)
V-880P/H-1	Squeeze Valve w/Adjustable Pilot & Handle (VT2-23SVC)
R-700C	U.L. Listed Regulator
L2002*	Spark Lighter



*"No set up, no chemicals. Just light and go. Now after all these years, I am ahead of my weed problems, especially in sidewalk and curb cracks. Well worth the money. No more spraying for me!!!!"*  
**M.G. – Paulsboro, NJ**

Visit us at [www.FlameEngineering.com](http://www.FlameEngineering.com)  
 for special offerings!

**Complete Vapor Torch Kits – The Best Torch Kits For Weed Control, Heating, Thawing & More**



**BP223C & BP223SVC**  
**100,000 BTU Back Pack Torch Kit**

Our #1 Selling Torch Kits For Home & Garden Use are Now Available In Back Pack Kits! These kits are the same as the Weed Dragon® Kits

shown on page 5 only now we've packaged them with a durable back pack and 10 lb. cylinder to make your weed flaming even easier. Torch kit and back pack soft pack are fully assembled and the tank quickly fastens to the frame once filled. **CSA Certified for the United States and Canada.**



**Model:  
BP223C**

**Ideal for  
Remote  
Areas**



**Both Models Come  
Fully Assembled  
And Include a 10  
Pound Cylinder!**



**Model:  
BP223SVC**



*"I own a house in Sonora, California where I have weeds growing in my rock driveway. The Weed Dragon® took care of doing away with the weeds and protecting my back from pain I would have by removing the weeds by hand. It was fun getting rid of weeds this way."  
A.B. – Tulare, CA*

**Weed Dragon® Back Pack Kits Include:**

Part No.	Description
VT2-23	Vapor Torch
HP5	5' U.L. Listed LP Gas Hose
P-W795	Hand-Tighten U.L. Listed Excess Flow P.O.L.
V-334	Flame Adjusting Needle Valve
V-880P/H-1	Squeeze Valve & Handle w/Adjustable Pilot (BP223SVC)
BP2512SC	Back Pack Soft Pack
R-700C	U.L. Listed Regulator
C-11	10 lb Fuel Cylinder (2.5 gal. capacity)
L2002*	Spark Lighter

See VT2-23 Torch Specifications on page 5.

Order SKU #	Wt Each	Case Qty
BP223C	22 lbs	1
BP223SVC	22.5 lbs	1

Each kit ships in one carton.





**BP2512C & BP2512SVC – 400,000 BTU Back Pack Torch Kit**

This kit includes the VT2<sup>1</sup>/<sub>2</sub>-30 Torch Kit (page 4) packaged with a soft pack back pack and 10 lb. cylinder. A great kit for forest service, fire protection (to set backfires), farm, garden and municipalities – this back pack torch kit is versatile and easy to use! And now this great kit is also available with a flame control squeeze valve! Perfect for spot weeding and instances where full flame is not continuously required. The valve will quickly pay for itself in propane savings! Why pull weeds when you can flame them? **These kits are CSA Certified for the United States and Canada on tank pressure and do not require the use of a regulator.**



*“I had such a problem with weeds growing up in my driveway – tried everything – then found your weed burner and ZAP! The weeds are gone. We also got rid of lots of ice – being from the Midwest this is a common problem. Thank you for your wonderful product.”*  
P.M. – Waukon, IA



**Both Models Include a 10 Pound Cylinder!**

**Ideal for Remote Areas**



Each kit ships in one carton.

**BP2512C & BP2512SVC Kits Include:**

Part No.	Description
VT2 <sup>1</sup> / <sub>2</sub> -30	Vapor Torch
HP5C	5' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L. Fitting
V-334	Flame Adjusting Needle Valve
V-880P/H-1	Squeeze Valve & Handle w/Adjustable Pilot (BP2512SVC)
BP2512SC	Back Pack Soft Pack
C-11	10 lb. Fuel Cylinder (2.5 gal. capacity)
L2002*	Spark Lighter
	Pipe Thread Sealant

See VT2<sup>1</sup>/<sub>2</sub>-30 Torch Specifications on Page 4.

Order SKU #	Wt Each	Case Qty
BP2512C	22 lbs	1
BP2512SVC	22.5 lbs	1



**Have an extra cylinder ready to go!**

**C-11  
10 lb. Vapor Withdrawal Propane Cylinder**

This 10 lb. vapor withdrawal cylinder is opd equipped and meets all safety standards. Holds 2.5 gallons of propane when full and is the cylinder included with all our back pack torch kits. Has an overall height of 17.4 inches and a diameter of 8.9 inches. Features a durable powder coat finish.

Order SKU #	Wt Each	Case Qty
C-11	16.0	1

**FOR YOUR PROTECTION :**

CSA Certified Torch Kits include this safety P.O.L. which allows the safe flow of gas so long as the tank valve is turned on slowly. If you turn on the valve quickly, the P.O.L. will check (you may hear a click) just as it would if the hose ruptured. **REMEMBER – always turn the cylinder valve on slowly!**



**Safety Excess Flow P.O.L. Fitting**

# Complete Vapor Torch Kits – The Best Torch Kits For Weed Control, Heating, Thawing & More

## VT3-60C 500,000 BTU

**VT3-60C Kit Includes:**

Part No.	Description
VT3-60	65" Vapor Torch
HP25	25' U.L. Listed LP Gas Hose
P-1685	U.L. Listed P.O.L. Fitting
V-334	Flame Adjusting Valve
F-322	1/4" FPT x 1/4" FPT Hex Coupling
567RC	U.L. Listed Regulator
L2002*	Spark Lighter
	Pipe Thread Sealant

With a 5' handle, this kit allows a good deal more in reach. Popular for paving repairs, ditch burning and general use, the VT3-60C comes with a 25' hose and an adjustable regulator for more consistency when using for long periods of road repair or weed burning. Used by municipalities, highway departments and farmers.

**VT3-60 Vapor Torch Specifications:**

Maximum Capacity	500,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	5-90 P.S.I. Approximate
Flame Temperature	2050°F
Fuel Consumption @ 30 P.S.I.	10.13 lbs/hr
Maximum Fuel Consumption	23.2 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"
Handle Length	59"
Overall Torch Length	65"
Regulator	0-60 P.S.I.



Order SKU #	Wt Each	Case Qty
VT3-60C	8.0 lbs	1

*Ships in two boxes.*

*"Works Great! Should have bought one sooner. Will be put to great use. Thanks for a great product"  
J.B., Anchorage, AK*

## VT2<sup>1</sup>/<sub>2</sub>-24CE & VT2<sup>1</sup>/<sub>2</sub>-24SVC Torch Kit – 500,000 BTU

This kit has a great low price and really delivers at 500,000 BTU/hr. For you dealers and distributors, there is no Co-op advertising allowance or other discounts. This is a net item.

***This kit is CSA Certified for the United States and Canada on tank pressure and does not require the use of a regulator.***

**VT2<sup>1</sup>/<sub>2</sub>-24 Vapor Torch Specifications:**

Maximum Capacity	500,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 25 P.S.I.	10.13 lbs/hr
Maximum Fuel Consumption	23.2 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2 1/2"
Handle Length	23"
Overall Torch Length	27 1/2"



**TORCH KIT ORDER INFORMATION**

Order SKU #	Wt Each	Case Qty	Case Wt
VT2 <sup>1</sup> / <sub>2</sub> -24CE	3.5	8	28.0 lbs
VT2 <sup>1</sup> / <sub>2</sub> -24SVC	4	8	32.0 lbs

*Distributors: Order 24 Kits For Best Price.*



**Kits Include:**

Part No.	Description
VT2 <sup>1</sup> / <sub>2</sub> -24	Vapor Torch
HP10T	10' U.L. Listed Thermoplastic LP Hose
P-3200W	U.L. Listed Excess Flow P.O.L. Fitting
V-334	Flame Adjusting Needle Valve
	Pipe Thread Compound
V-880P/H-1	Squeeze Valve & Handle w/Adjustable Pilot (SVC Model)
L2002*	Spark Lighter





The HT torch is great for heating flat iron or metal tubing.

## HT1<sup>1/2</sup>-10CR – 50,000 BTU

Our “Shop Torch”, the HT1<sup>1/2</sup>-10CR is our most popular, small torch kit. Great for small jobs and detail work like removing paint and preheating metal. The 45° bend allows comfort and ease while doing close work. A very nice kit with plastic grip, preset regulator, spark lighter and torch stand.

**CSA Certified for the United States and Canada.**

### HT1<sup>1/2</sup>-10CR Kit Includes:

Part No.	Description
HT1 <sup>1/2</sup> -10	Vapor Hand Torch w/plastic grip
HP-10TMM	10' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L.Fitting
V-334	Flame Adjusting Needle Valve
R-700C	U.L. Listed Regulator
TB-4	Torch Stand
L2002*	Spark Lighter
	Pipe Thread Sealant

### HT1<sup>1/2</sup>-10 Vapor Torch Specifications:

Maximum Capacity	50,000 BTU/hr
Normal Operating Pressure	18 P.S.I.
Operating Pressure Range	5-25 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 25 P.S.I.	1.25 lbs/hr
Maximum Fuel Consumption	2.5 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	1 1/2"
Handle Length	10 1/2"
Overall Torch Length	15"



The torch stand safely directs flame upward while not in use.



Order SKU #	Wt Each	Case Qty	Case Wt
HT1 <sup>1/2</sup> -10CR	4.5 lbs	6	27.0 lbs



## VT1<sup>1/2</sup>-12C – 50,000 BTU

A few dollars less than the HT1<sup>1/2</sup>-10CR, the VT1<sup>1/2</sup>-12C is a very basic kit. Use where other torches prove to be too big or awkward. Perfect for starting campfires and charcoal, thawing pipes and more. The 15" overall length makes this our most compact kit. Use with a large or small tank (not for use with a disposable cylinder).



### VT1<sup>1/2</sup>-12 Vapor Torch Specifications:

Maximum Capacity	50,000 BTU/hr
Normal Operating Pressure	10 P.S.I.
Operating Pressure Range	5-25 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 10 P.S.I.	1.25 lbs/hr
Maximum Fuel Consumption	2.5 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	1 1/2"
Handle Length	10 1/2"
Overall Torch Length	15"

### VT1<sup>1/2</sup>-12C Kit Includes:

Part No.	Description
VT1 <sup>1/2</sup> -12	Vapor Torch
HP10C	10' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L.Fitting
V-334	Flame Adjusting Needle Valve
	Pipe Thread Sealant
L2002*	Spark Lighter

Order SKU #	Wt Each	Case Qty	Case Wt
VT1 <sup>1/2</sup> -12C	2.9 lbs	6	20.0 lbs

### FOR YOUR PROTECTION . . .



All Red Dragon® Vapor Torch Kits include a capsule of pipe thread sealant. Always apply this at all connections (except the P.O.L. to tank) when assembling your torch kit. Always leak check your torch before lighting by spraying soapy water on all connections. If you have a leak, turn off the tank, and correct the leak before proceeding.

### Vapor Torch Flame Comparison

Please see the graphic and information on page 2 for more detailed information about Red Dragon® Torches.



### Add a Squeeze Valve and Handle!

The V-880P/H-1 kit is the perfect addition to a Red Dragon® Torch Kit for spot weeding and instances where full flame is not continuously required. This kit will quickly pay for itself in propane savings. Find out more about this kit on page 37.





# Complete Liquid Torch Kit – For Continuous Use Applications and Sub-Zero Climates

• **Red Dragon® Liquid Torch Features A Patented Vaporizing System**

• **250,000 BTU/hr**

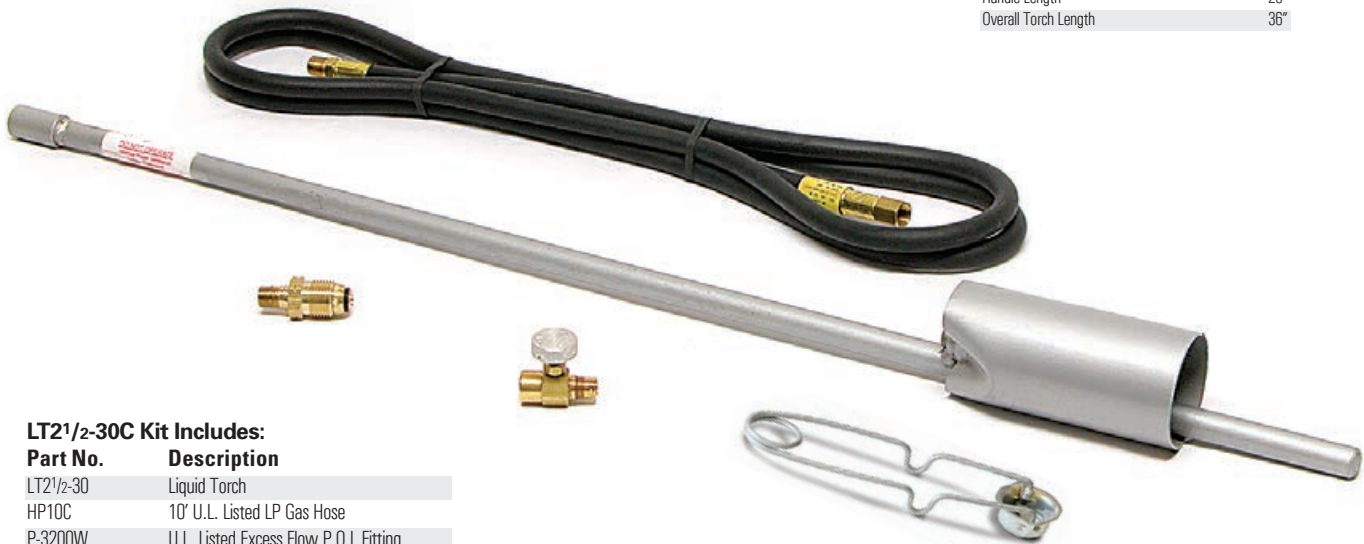
*Red Dragon® Liquid Torches require use with a liquid withdrawal cylinder.*

## LT2<sup>1</sup>/<sub>2</sub>-30C – 250,000 BTU

Use the Red Dragon® LT2<sup>1</sup>/<sub>2</sub>-30C liquid torch kit in sub-zero temperatures or continuous use situations. The self-vaporizing torch is 36" in length and capable of producing up to 250,000 BTU/hr. This is an excellent kit for road repair, surface drying, preheating castings for welding, weed burning, and many other jobs.

### LT2<sup>1</sup>/<sub>2</sub>-30 Liquid Torch Specifications:

Maximum Capacity	250,000 BTU/hr
Normal Operating Pressure	40 P.S.I.
Operating Pressure Range	5-70 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	11.6 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2 1/2"
Handle Length	26"
Overall Torch Length	36"



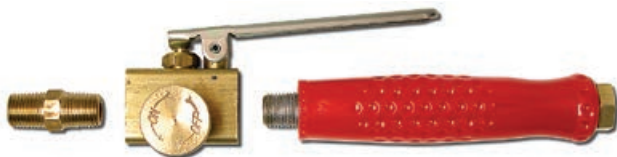
### LT2<sup>1</sup>/<sub>2</sub>-30C Kit Includes:

Part No.	Description
LT2 <sup>1</sup> / <sub>2</sub> -30	Liquid Torch
HP10C	10' U.L. Listed LP Gas Hose
P-3200W	U.L. Listed Excess Flow P.O.L. Fitting
V-334	Flame Adjusting Valve
Pipe Thread Sealant	
L2002*	Spark Lighter

Order SKU #	Wt Each	Case Qty	Case Wt
LT2 <sup>1</sup> / <sub>2</sub> -30C	5.6 lbs	6	35.2 lbs

### ADD A SQUEEZE VALVE AND HANDLE!

THE V-880P/H-1 KIT IS THE PERFECT ADDITION TO A RED DRAGON® TORCH KIT FOR SPOT WEEDING AND INSTANCES WHERE FULL FLAME IS NOT CONTINUOUSLY REQUIRED. THIS KIT WILL QUICKLY PAY FOR ITSELF IN PROPANE SAVINGS. FIND OUT MORE ABOUT THIS KIT ON PAGE 37.



**Complete Jet Torch Kits – “Pear Burners” – For Heavy-duty Flaming of Large Weeds & Dense Brush**

- **Red Dragon® Jet Torches Produce Flames Up To 6’ In Length • Up To 2,000,000 BTU/hr**
- **As Close To A Flame Thrower As We Make**

Red Dragon® Jet Torches operate on vapor propane.

We recommend no less than a 100 lb. cylinder due to the high capacity of these torches.



**JET8C – 2,000,000 BTU**



Use high capacity Red Dragon® Jet Torch Kits to knock down heavy weeds and brush fast and easy.

Jet Torches are perfect for flaming road ditches, fence rows, culverts and more. These torches are especially suitable as “pear burners” in the Southwest, where spines are flamed to make cactus edible for livestock.

Jet Torches maintain a pilot flame and are triggered to full flame with a convenient squeeze valve at the handle. Both feature a plastic grip and are easy to operate. JET8C and JET4C come with a 25’ hose.

**JET8C Kit Includes:**

Part No.	Description
JET8	84” Jet Torch w/Squeeze Valve
HP25	25’ U.L. Listed LP Gas Hose
P-1685	U.L. Listed P.O.L.Fitting
567RD	U.L. Listed Regulator
V-314-2	Squeeze Valve
Pipe Thread Sealant	
L2002*	Spark Lighter

**JET8 Torch Specifications:**

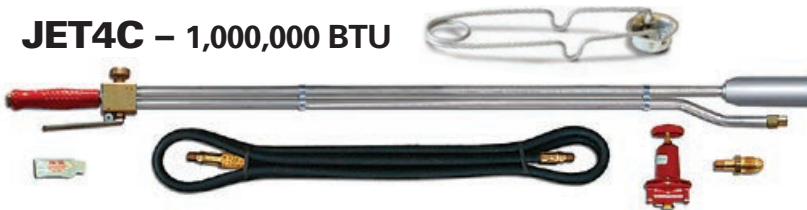
Maximum Capacity	2,000,000 BTU/hr
Normal Operating Pressure	80 P.S.I.
Operating Pressure Range	30 P.S.I. - Tank Press
Max Flame Length	6’
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	80 lbs/hr
Fuel Inlet	1/4” NPT
Overall Torch Length	84”

**COMPLETE JET TORCH KIT ORDER INFORMATION**

Order SKU #	Description	Wt Each	Case Qty	Case Wt
JET8C	84” Jet Torch w/25’ Hose	9.5 lbs	1	
JET4C	40 1/2” Jet Torch w/25’ hose	8.0 lbs	1	

*JET8C ships in two boxes.*

**JET4C – 1,000,000 BTU**



**JET4C**

Part No.	Description
JET4	40 1/2” Jet Torch w/Squeeze Valve
HP25	25’ U.L. Listed LP Gas Hose
P-1685	U.L. Listed P.O.L.Fitting
567RD	U.L. Listed Regulator
V-314-2	Squeeze Valve
Pipe Thread Sealant	
L2002*	Spark Lighter

**JET4 Torch Specifications:**

Maximum Capacity	1,000,000 BTU/hr
Normal Operating Pressure	60 P.S.I.
Operating Pressure Range	30 P.S.I. - Tank Press
Max Flame Length	5’
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	40 lbs/hr.
Fuel Inlet	1/4” NPT
Overall Torch Length	40 1/2”

**JET TORCH ONLY ORDER INFORMATION**

Order SKU #	Description	Wt Each	Case Qty
JET8	Overall Length 84”	6.0 lbs	1
JET4	Overall Length 40 1/2”	2.5 lbs	1

**Have additional questions about Red Dragon® Torch Kits?**

**Please feel free to contact us at 1-800-255-2469.**

**One of our customer service representatives will be glad to help you.**

- *Kills Weeds, Grasses and Weevil*
- *Effectively Treats Field Dodder*
- *Produce More Weed Free Alfalfa*
- *Burns Clean, Efficient Propane*
- *Safe For The Environment*  
– *No Runoff or Ground Water Contamination*
- *Adds Productive Years To Your Alfalfa Stand*
- *Durable and Low Maintenance*
- *Great for Organic & Conventional Producers with USDA Approval for Organic Growers*



*The sample to the left came from an un-flamed patch. The sample on the right came from a flamed field.*



*You can clearly see where the flame application ended on this test plot. The flamed plot was thick, healthy and free of wild mustard.*



*The Liquid Spray Process In Action!*

*“The Alfalfa Flamer wiped out the mustard and really did a job on grasses. It made a believer out of me.”*

*B.L. - Ransom, KS*

**Red Dragon® Alfalfa Flamers**

offer producers a single solution for what is usually a two part problem. One flame application replaces insecticide treatment for weevil and replaces herbicide treatment for unwanted weeds and grasses.

Due to the fact that weevil lay eggs all winter, flaming is normally done in late winter or early spring, just before or during greenup. Flaming usually takes between 20 - 30 gallons (75 - 114 liters) of propane per acre, depending on the out-side temperature when flaming. A second application can be applied, if necessary,

immediately following the first cutting. This will not hurt the alfalfa but may delay the second cutting by a few days.

**Flame Engineering's Patented**

liquid propane spray process was developed in the 1960s and still works today. By directing the spray at ground level, all plants and insects are subjected to high temperature thus burning out old growth, making way for new and eliminating weevils. Tall stubble will require slower ground speeds and higher pressures, however, it takes just a split second to kill weeds, grasses and insects.

**Red Dragon® Alfalfa Flamers Are Safe And Easy To Use.**

TD12LPS Flamers are designed to skid behind the tank cart (tank & cart are not included) and come standard with electronic solenoid and cab controls allowing the operator to control the liquid spray from the driver's seat. Each unit is 12' in width – to connect two or more, call for advisement on pressures, ground speeds and capabilities.

**TD-12 LPS Alfalfa Flaming Units Include:**

- Complete Control Head Assembly with electronic solenoid valve
- Cab Control Box with master shut-off switch (solenoid units)
- (2) LT 3-12 T Liquid Pilot Torches
- All necessary hoses cut to length with brass fittings.
- Valve Protector
- Red Dragon® Vapor Torch Kit for lighting



*Operator control box, allowing electronic control and shutdown at the operator's fingertips.*

**IMPORTANT NOTE: Please call Flame Engineering, Inc. at 1-800-255-2469 for tank specifications and requirements.**

Order SKU #	Description	Wt Each
TD12LPS	Alfalfa Field Flamer	153.0 lbs



**Ships Unassembled.**

## NEW Multi-Purpose Flamer – Great For Larger Flaming Jobs

Flame Engineering, Inc. is always making efforts to improve and expand it's Earth Friendly product line. Now we are happy to introduce the new Multi-purpose Flamer. This great new tool is perfect for small acreages, large scale gardening and commercial landscape use when a hand torch is too small.

The five burner unit easily rolls where you want it and makes quick work of a multitude of flame applications. Perfect for pre-emergent treatments of garden seed beds and pre-seeding treatments of lawns. Also great for larger flame weeding projects such as driveways and long stretches of sidewalk or walkways. Also use for melting and drying thin layers of dangerous ice off sidewalks and driveways in the winter.

### GF-2011 Units Include:

Part No.	Description
VT2 1/2-0	5 - 400,000 BTU Vapor Heads
2 - 3/4" Axles	24" in length (allows for versatility to adjust wheel width)
V-334	Adjusting Needle Valve
HP65T	65" Rubber LP Gas Hose
HP48HG	48" Rubber LP Gas Hose
G-25	Liquid Gauge
567RC	U.L. Listed Regulator
P-3200W	U.L. Listed P.O.L. Fitting
GFW-24	1 Set - 24" Diameter Solid Wheels
1" x 1" Steel Square Tube	L Shaped Handle (which can be placed on either side with adjustable height)

Order SKU #	Ship Wt Each	Case Qty
GF-2011	115.0 lbs	1

*Ships Unassembled.*



*Propane Cylinder  
Not Included*

*As pictured:  
Adjustable inside wheel to wheel  
distance 24" - 48"  
Torch manifold width 27"  
Flaming area range 30" to 36"*



## NEW Multi-Purpose Flamer – Great For Larger Flaming Jobs



### ***GREAT REASONS TO CHOOSE RED DRAGON® TORCHES & EQUIPMENT:***

- ***CUSTOMER SERVICE second to none! Our Customer Service Representatives handle each call personally.***
- ***STABILITY: In this day and age, you never know which of your manufacturers will be here tomorrow or who will own them. We're not going anywhere!***
- ***IN BUSINESS SINCE 1959!***

**Poultry House Flame Sanitizer – The Natural Solution for Commercial Poultry Confinement Areas.**

- **Effective – Intense Heat Kills Pathogens & Flares Off Ammonia Vapors**
- **Safe & Easy to Operate with Complete Control from the Tractor Seat**
- **Economical – Less Expensive Than Chemical with Immediate Results**
- **Environmentally Sound – No Run-off, Residues or Water Contamination**
- **Great for Organic & Conventional Producers with USDA Approval for Organic Growers**
- **Proven Success By Producers**



**The Key To Sustainability is Natural Proven Techniques!**

**See This Equipment In Action!**  
 Ask About Our DVD & Video or Download it from our Website!  
 FlameEngineering.com



**Patented Design**

*“Since using the Poultry House Sanitizer, I have seen eliminations to my mortality rate. I am now finishing in the top 3rd in the company. I am happy with the results overall. I wouldn’t do with out one. I bought this equipment for the disease problems and it has worked.”*  
**J.L.-Linden, TX**

*“I’ve had a noticeable reduction in ammonia after treating with The Poultry House Sanitizer. I think this process is a great idea. I recommend this process to others because I believe it will take care of the bacteria problems.”*  
**M.T.-Duback, LA**

*“I’ve been very happy with the ammonia control. The mortality has been less the last two or three weeks of the flock. Also I have noticed more weight gain. Another reason to use The Poultry House Sanitizer is that its one less chemical in the litter. I would recommend it to other chicken house owners.”*  
**R.F.-Linden, TX**

*“This process has lowered my mortality rate a percent. I am now finishing 5th in the company compared to before in 15th. I have increased my settlement payments by \$10,000. I am happy with the overall results and highly recommend this process to others.”*  
**B.B.-Cookville, TX**

**Dimensions:**  
**87” W x 60” L**  
**(2.21 meters x 1.27 meters)**

**Unit will weigh approximately 1700 lbs (760 Kilos) with a full tank of fuel.**

**Poultry House Flame Sanitizer – The Natural Solution for Commercial Poultry Confinement Areas.**

**The Red Dragon® Poultry House Flame Sanitizer** is the fast, easy and effective way to sanitize poultry houses. The Red Dragon® is designed to flame bare floors and litter. For best results flame bare floors after clean out and after each de-caking.

The flamer utilizes six LT2x8 Liquid Propane torches that project intense, sweeping flames under a sturdy enclosed steel hood. The unit produces heat over 2000° F (1094° C) and maintains heat approximately 1400° F (761° C).

The sanitizer is a snap to use. Connect the unit to your tractor using the three point hitch and connect the 12 volt wires to the tractor battery and you are ready to go. The flamer is designed to hold a standard 120 gallon (454 liter) propane tank. In field testing, fuel consumption was approximately 25 gallons (95 liters) when flaming a 40' x 500' (12.2 meters x 152.43 meters) house moving at 0.5 mph (0.8 Kph). Fuel consumption will vary depending upon ambient temperature.



*"I've had a noticeable reduction in ammonia after treating with The Poultry House Sanitizer. It has lowered my mortality rate. I have seen an increase in bird weight. I have increased my ranking in the growers group up 2 places since using this process. I have increased my settlement payments. I am happy with overall results of this process and the benefits are great!"*  
**B.M.-Bunker, AR**



**Complete assembly includes 120 gallon tank.**

*Operator control box, allowing electronic control and shutdown at the operator's fingertips.*



**Cab Control Box**

**Complete Unit Includes:**

- Category 1 or 2 - 3 point hitch connection
- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- All Torches Needed
- All necessary hose assemblies
- Fuel Strainer
- Red Dragon® Vapor Torch Kit for lighting torches & sterilizing corners and edges
- 120 gallon tank

Order SKU #	Description	Wt Each
PL8750	Poultry House Flame Sanitizer	1380.0 lbs



**Each unit comes complete with 12 volt solenoids which allow the operator to go from pilot to full flame with the flip of a switch.**

**IMPORTANT NOTE:**  
 Please call Flame Engineering, Inc. at 1-800-255-2469 for tank specifications and requirements.

**For More Information About Red Dragon® Flaming Equipment please call 800-255-2469 or visit our website at [www.FlameEngineering.com](http://www.FlameEngineering.com)**

**Vineyard & Orchard Complete Unit & Flaming Kits – The Best Solution For Weeds, Grasses, Insects and More!**

- *Kills Weeds, Grasses and Destroys Insect Habitat On Vineyard & Orchard Berms*
- *Lower Cost Than Herbicide*
- *Burns Clean, Efficient Propane*
- *Safe For The Environment – No Runoff or Ground Water Contamination*
- *Break-away Boom Arms Save Wear & Tear*
- *Save Time & Money Over Manual & Mechanical Weed Control Methods*
- *Repeat Applications At A Low Cost*
- *Complete Units & Kits To Fit Your Needs*
- *Great For Organic & conventional producers with USDA Approval for Organic Growers.*



**Red Dragon® GP-Series Flamers** offer producers many options for weed & pest control while reducing or eliminating pesticide usage. Flamers burn clean, efficient propane, so there is no residue, run-off or contamination to worry about. GP-Series flamers use between 3 - 6 gallons (11 - 23 liters) of fuel per acre, reducing input cost over other weed control methods.

By applying a quick blast of intense heat from specially designed propane torches, weeds and grasses soon disappear. You DO NOT have to burn weeds to a crisp! Flaming has no adverse effects on vines and trees and is safe to use around irrigation lines, sprinklers and protective vine covers as long as you are moving and there is no dry residue.



*Flaming applies intense heat to weeds and grass causing the cell structure of the plant to be destroyed. You do not have to burn weeds to a crisp.*

Flaming can be done at regular intervals to maintain weed free berms while the weeds are small and vulnerable. Flaming at slower speeds also works great for fall and winter clean-up, removing debris and eliminating vital cover for insect habitat.

**All GP-Series Equipment feature the operator control box, allowing electronic control and shutdown at the operator's fingertips.**



**Red Dragon® GP-Series Flamers Are Safe And Easy To Use. Cab Control Box**

All GP Complete Kits come with electronic solenoids and operator control box, allowing safety and reliability. Use one side only or both sides, all controlled from the operator's fingertips.

**The Red Dragon® GP750**

*See The Equipment Specifications Chart on Page 19 For More Details.*

The GP750 is perfect for smaller vineyard and orchard operations or for those who need a smaller unit to get in and out of tight rows. The compact size and lightweight but durable construction make it easy to pull behind any ATV or small tractor. The GP750 features an all steel, heavy duty trailer with a 2" ball hitch and a 120 gallon (454 liter) tank capacity. Boom arms are adjustable in length and height and feature a spring loaded break-away system. Pin boom arms vertically for safe and easy transport.

**Boom Arm Extension Span: 6'4" to 10' Outside Wheel Width: 4'6"**



**Standard Wheel Shown**  
27.75" H • 8" W • 5 Bolt



# Vineyard & Orchard Complete Unit & Flaming Kits – *The Best Solution For Weeds, Grasses, Insects and More!*

## Red Dragon® GP1000

Valve Guard ↓



The GP1000 is our most popular berm flamer due to the NEW Super Duty LT6x18 Torches which allow faster ground speeds. The GP1000 features an all steel, heavy duty trailer with 120 (454 liter) tank capacity making it ideal for vineyards and orchards over 40 acres. It is easily pulled behind a small tractor and comes equipped with a 2" ball hitch. The boom arms can be adjusted in length and in height and feature a spring loaded break-away system, to save wear and tear on equipment. The boom arms also pin vertically for safe and easy transport.

**GPK1054 Boom Arm Extension Span:**  
8'10" to 13'10"

**Outside Wheel Width: 4' 6"**

*See The Equipment Specifications Chart Below For More Details.*

## The Red Dragon® GP-Series Berm Flaming Kits and Alley Attachments



The GPK1054 Kit includes the same break-away boom arms and torches as on the GP1000 Complete Unit. Kit also includes boom arm mast, electronic solenoid controls, control box, fuel strainer, fittings, hoses, torch kit and valve guard.



The GPK454 Kit includes the same break-away boom arms and torches as on the GP750 Complete Unit. Kit also includes boom arm mast, electronic solenoid controls, control box, fuel strainer, fittings, hoses and valve guard.



The GP020 Alley Attachment mounts on the back of Trailer and includes six LT2x8 Torches allowing up to 7.5' of coverage. The GP010 includes four LT2x8 Torches allowing up to 5' of coverage. Both kits include mounting rack, electronic solenoid controls, operator control box, fittings and hoses.

### GP-Series Equipment Specifications

Part No.	Description	Tank Carrying Capacity	Standard Burners	Maximum BTU/hr per torch	Average Gal/Acre	Maximum Application Speed	Shipping Weight
GPT1000	Trailer	C-185 or C-120					432 lbs.
GPK1054	Berm Flaming Kit	N/A	(2) LT6x18 Liquid Torches	3,000,000	4-6	5 m.p.h.	144 lbs.
GPK454	Berm Flaming Kit	N/A	(4) LT2x8 Liquid Torches	1,150,000	3-5	3 m.p.h.	79 lbs.
GP020	Alley Flaming Attachment	N/A	(6) LT2x8 Liquid Torches	1,150,000	4-6	3 m.p.h.	66 lbs.
GP010	Alley Flaming Attachment	N/A	(4) LT2x8 Liquid Torches	1,150,000	3-5	3 m.p.h.	46 lbs.
GP1000	Complete Unit	C-120	(2) LT6x18 Liquid Torches	3,000,000	4-6	5 m.p.h.	835 lbs.
GP750	Complete Unit	C-120	(4) LT2x8 Liquid Torches	1,150,000	3-5	3 m.p.h.	675 lbs.

### GP-Series Tank Requirements

All GP-Series Flaming Equipment require propane tanks equipped with a liquid propane withdrawal valve. It is also very important that you start with a clean, purged tank.  
**IMPORTANT NOTE: Please Contact Flame Engineering, Inc. for the tank specifications and requirements.**

## C-120 - 120 Gallon (454 Liter) Liquid Withdrawal Horizontal Propane Tank

This is the tank we recommend for use with the Berm Flaming Unit. Conforms to the latest edition and addenda of the ASME Code for Pressure Vessels, Section VIII Division I. Complies with NFPA 58 and is listed by Underwriters Laboratories, Inc. Comes pre-purged and ready to be filled. Features a durable powder coat finish. Rated at 250 psig from -20° F. to 125° F. Tank may be evacuated to a full (14.7 psi) vacuum. Tank is 66 inches long and has a diameter of 24 inches.



**Tank Size Requirement For GP-1000**  
120 gallon tank with a max length of 70" and max diameter of 24".

**IMPORTANT NOTE:**  
*Please call FlameEngineering, Inc. at 1-800-255-2469 for tank specifications and requirements.*

Order SKU #	Wt Each	Case Qty
C-120	250 lbs	1

**ROW CROP FLAMERS** – Effective, Economical and Chemical Free Weed Control In The Row

- Propane Torches Kill Weeds, Grasses And Destroy Insect Habitat In The Row Without Risk To The Crop
- Save Up To 50% Over Chemical Applications
- Burn Clean, Efficient Propane
- Safe For The Environment – No Runoff or Ground Water Contamination
- Safe For The Operator: Electronic Shutdown From The Driver's Seat
- Flame Applications Can Be Applied When It's Too Wet To Cultivate
- Complete Units and Kits To Fit Your Needs
- Great For Organic & conventional producers with USDA Approval for Organic Growers.



**Red Dragon® Row Crop Flamers**

offer producers many options for weed control while reducing or eliminating herbicide usage. Flamers burn clean, efficient propane, so there is no residue, run-off or contamination to worry about. Row crop flamers use 4 - 7 gallons (15 - 27 Liters) of propane per acre, making the application roughly half the cost of herbicides in a normal year. Flaming can be done pre-emerge and post emergence and has been proven effective on a wide variety of crops, including corn, milo, sorghum, soy-beans, cotton, carrots and more.

By staggering torches and directing torches at the base of the crop, the crop leaves are not exposed and each plant stalk receives only a split second of intense heat. Small weeds and grasses die almost instantly. Larger weeds die or are stunted, allowing the row crop to shade out competitive weeds and grasses. In addition, repeat applications pick up stragglers with no adverse effects on the crop, all at a lower cost than chemical.



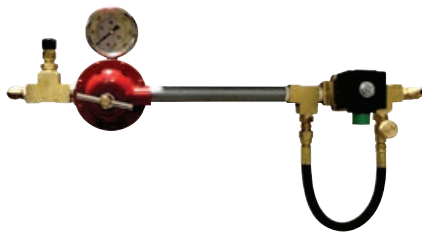
*“... the target pests of grass and small velvet leaf were virtually eliminated. The results were amazing! ... I will definitely be using this as one of the weapons in my war on weeds.”*

*S.M. – Gothenburg, NE*

*Used a Red Dragon® Row Crop Flamer on Popcorn*



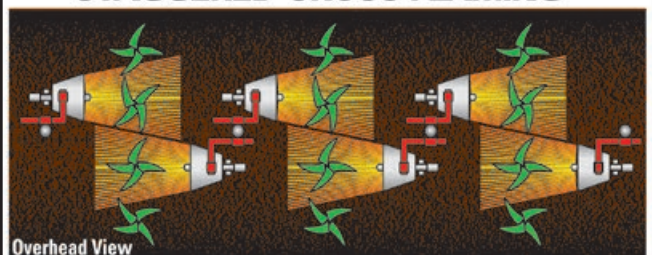
**Cab Control Box**



**Electronic Control Valves**

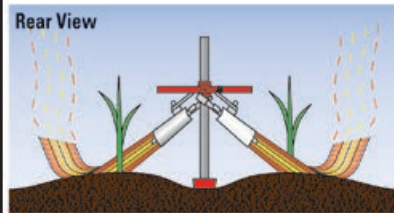
Each Row Crop Flamer Unit and Kit comes complete with 12 volt solenoids and controls which are easily operated from the tractor seat.

**STAGGERED CROSS FLAMING**



**Overhead View**

Generally torches are staggered when moving through the row so as not to collide with the flame from the opposite torch. By directing flame into the crop row from both sides, more complete coverage and faster ground speeds are possible.



**Rear View**

Torches are initially set at an angle of 30 to 60 degrees from horizontal and 4 to 10 inches from the crop.

# ROW CROP FLAMERS – Complete Units and Kits Available To Fit Your Needs

## Red Dragon® Complete Row Crop Flaming Units

come with everything you need to get started. Available in 2, 4, 6 and 8 row models, featuring skid style tool bar legs.

### Complete Units Include:

- Complete roll cage protection for tank & control heads
- Tank straps with valve guard assembly
- Category 2 - 3 point hitch connection
- Tool bar complete with skid leg mounting brackets
- Hydraulics for tool bar (standard on 8-RU and 6-RU)
- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- Skid Style Tool bar Leg Assemblies
- All Torches Needed
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Red Dragon Vapor Torch Kit for lighting of torches



**6-RU Shown Here w/ Hydraulic Tool bar.  
250 Gallon (946 Liter) Tank Shown Here.**

**IMPORTANT NOTE:  
Please call Flame Engineering, Inc.  
at 1-800-255-2469 for  
tank specifications  
and requirements.**

### Choose From 2 Torch Styles Depending on your Row Spacing

#### LT1<sup>1</sup>/2x8D



*This optional Row Crop Torch projects a sweeping flame up to 10" wide and 30" long. The recommended burner for 30" row spacing.*

#### LT2x8



*This optional Row Crop Torch projects a sweeping flame up to 18" wide and 36" long. The suggested burner for 36" row spacing.*



## Red Dragon® Row Crop Flaming Kits

are available in a skid leg style to be mounted on your tool bar and are available in 2, 4, 6, 8, 12 and 16 row models with skid style legs. You will be responsible for devising your own safe tank mounting system and control protection. Kits include everything else you need to connect to your tank, including custom mounting brackets for the tool bar legs - just let us know the dimensions of your tool bar.

### All Kits Include:

- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- Skid bar Leg Assemblies
- Custom Tool Bar Leg Brackets
- All Torches Needed
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Valve Guard



**4 Row Skid Leg Kit (4-RKS) Shown Here.  
RKS kits feature the same tool bar legs as  
our complete units and allow the torches to  
remain at a consistent height while flaming.**

**When ordering kits, please indicate tool bar size and configuration.**

**Detail of an assembled skid leg (left). Note how the torches are staggered and how torch height and angle can be easily adjusted.**

COMPLETE ROW CROP UNITS		
Order SKU #	Description	Wt Each
2-RU	2 Row Unit	1360 lbs
4-RU	4 Row Unit	1560 lbs
6-RU	6 Row Unit	1810 lbs
8-RU	8 Row Unit	2010 lbs

SKID LEG ROW CROP KITS		
Order SKU #	Description	Wt Each
2-RKS	2 Row Kit	220 lbs
4-RKS	4 Row Kit	312 lbs
6-RKS	6 Row Kit	450 lbs
8-RKS	8 Row Kit	560 lbs
12-RKS	12 Row Kit	900 lbs
16-RKS	16 Row Kit	1120 lbs

## Potato Flamers – Chemical Free Potato Desiccation

- One Application Desiccation
- Effective & Affordable Treatment of Blight Spore
- Preemergence weed control
- Burn Clean, Efficient Propane
- Safe For The Environment – No Runoff, Soil or Ground Water Contamination
- Great for Organic & Conventional Producers with USDA Approval for Organic Growers

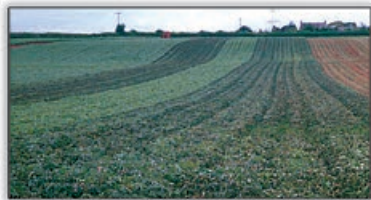


*The patented liquid spray flaming process in action.*

### POTATO FLAMING



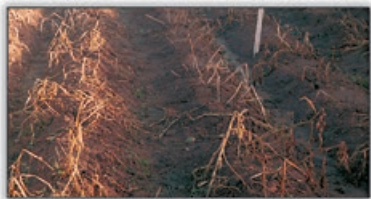
*Flaming in action in chopped potato vines.*



*The dark rows were flamed 10 minutes prior to the photograph.*



*5 days after flaming the results are obvious.*



*12 days after flaming.*



**IMPORTANT NOTE:**  
Please call Flame Engineering, Inc.  
at 1-800-255-2469 for tank  
specifications and requirements.

### Red Dragon® Potato Vine Flamers

offer producers a totally organic way to desiccate potato vines to stop the growth and set the skins of potatoes. Flamers burn clean, efficient propane, so there is no residue, run-off or contamination to worry about due to chemical or acid use.

This flaming process uses our patented liquid spray torches which are specially designed to spray liquid propane into the vines where combustion takes place. The canopy of vines and foliage help hold the heat helping to make more efficient use of the fuel. The intense heat thermally shocks the green vines and destroys cell tissues in the leaves, destroying the plant's ability to conduct photosynthesis.

Flaming is also a very effective weapon for blight control. Chemical treatments are expensive, and not an option for organic growers. Flaming to desiccate or renovation will help control blight spores. Fuel consumption averages 20 to 30

gallons (75 - 114 liters) per acre and is affected by both the pressure supplied to the spray nozzles and by the ground speed. Ground speeds range from 3 to 5 m.p.h. Heavy foliage must be desiccated at a higher pressure and a slower speed and light foliage can be flamed at a higher speed and lower fuel pressure. This allows the operator to gauge the LP gas used to the amount of foliage, thus conserving fuel and reducing costs.

### Safe And Easy To Use.

All Red Dragon® Potato Vine Flamers come with electronic solenoids allowing flame control and immediate shut down from the driver's seat.



*Cab Control Box*

### PVF Potato Flaming Units Include:

- Complete roll cage protection for tank & control heads
- Tank straps with valve guard assembly
- Category 2 - 3 point hitch
- Tool bar complete with leg mounting brackets
- Hydraulics for tool bar (standard on 8PVF and 6PVF)
- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- All Torches Needed
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Red Dragon® Vapor Torch Kit for lighting torches
- 250 Gallon LP Tank

FLAMING UNITS		
Order SKU #	Description	Wt Each
2PVF	5 ft. Unit	1360 lbs
4PVF	10 ft. Unit	1560 lbs
6PVF	15 ft. Unit	1810 lbs
8PVF	20 ft. Unit	2010 lbs

### Potato flaming kits include (PVFC):

- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- Toolbar leg assemblies
- All torches required for your configuration
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Custom Mounting Brackets for the Toolbar legs
- Valve Protector
- Red Dragon® Vapor Torch Kit for lighting torches

Complete Units and Kits available in widths 5' - 20'



## Vegetable Bed Flamers – Chemical Free Weed Control

- **Great For Sterile Seed Bed & Pre-emergent Flaming.**
- **Units Designed for 5' up to 20' Widths.**
- **Flaming Kills Weed, Grasses, Insects and Insect Habitat.**
- **Uses Clean Efficient Propane.**
- **Safe For the Environment - No Runoff or Water Contamination.**
- **Safe For the Operator: Electronic Shutdown from the Drivers Seat.**
- **Flame Applications Can Be Done Directly Ahead of the Planter. No Need To Wait Unlike Spraying.**
- **Flame Applications Can Be Done When It Is Too Wet To Cultivate.**
- **Great For Conventional and Organic Growers.**
- **USDA Approved Organic Method.**



### Red Dragon® Vegetable Bed Flamers

offer producers many options for weed control while reducing or eliminating herbicide usage. Flamers burn clean, efficient propane, so there is no residue, run-off or contamination to worry about. Row crop flamers use 4 - 7 gallons (15 - 27 Liters) of propane per acre, making the application roughly half the cost of herbicides in a normal year. Flaming can be done pre-emerge and post emergence and has been proven effective on a wide variety of crops, including corn, milo, sorghum, soy-beans, cotton, carrots and more.

The Red Dragon® Vegetable Bed Flamer can be used on all crops pre-planting to produce a sterile seed bed. Crops like corn and soybeans can be flamed a second time as the crop emerges to kill weeds that emerge with the crop. Potatoes can be flamed at 2-3 leaf stage

to kill weeds and Colorado Potato Beetle. Carrots and other raised bed crops can be flamed pre-plant and again before plant emergence. Any flaming where a broadcast type application is required. It is also a great tool for strawberry renovation.

Red Dragon® Vegetable Bed Flaming Units come with everything you need to get started. Available in 2, 4, 6 and 8 row models.

### Safe And Easy To Use.

All Red Dragon® Vegetable Bed Flamers come with electronic solenoids allowing flame control and immediate shut down from the driver's seat.



**Cab Control Box**

### VBFC Units Include:

- Complete roll cage protection for tank & control heads
- Tank straps with valve guard assembly
- Category 2 - 3 point hitch connection
- Tool bar complete with leg mounting brackets
- Hydraulics for tool bar (standard on 8VBF - Optional on 6VBF)
- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- All Torches Needed
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Red Dragon® Vapor Torch Kit for lighting torches

### IMPORTANT NOTE:

**Please call Flame Engineering, Inc. at 1-800-255-2469 for tank specifications and requirements.**

## Videos & Instruction Manuals Available Online

Product Videos as well as Instruction Manuals for Red Dragon® Products are available from our web-site at [www.flameengineering.com](http://www.flameengineering.com)

VEGETABLE BED FLAMING UNITS		
Order SKU #	Description	Wt Each
2-VBF	5 ft. Unit	1360 lbs
4-VBF	10 ft. Unit	1560 lbs
6-VBF	15 ft. Unit	1810 lbs
8-VBF	20 ft. Unit	2010 lbs

### Vegetable bed flaming kits include (VBFC):

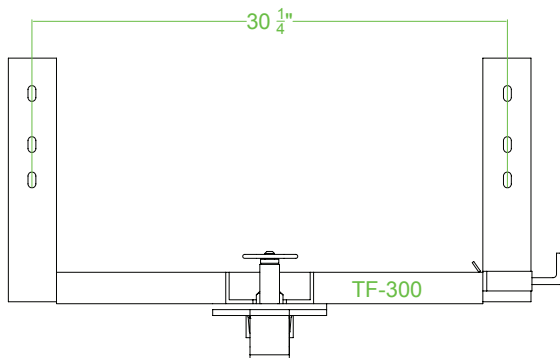
- Complete Manifold Assemblies with electronic solenoids
- Cab Control Box with master shut-off switch
- Toolbar leg assemblies
- All burners required for your configuration
- All necessary hoses cut to length with brass fittings
- Fuel Strainer
- Custom Mounting Brackets for the Toolbar legs
- Valve Protector
- Red Dragon® Vapor Torch Kit for lighting torches
- Kits available in widths 5' - 30'





- **Red Dragon® Hitches Make Field Work A One Man Job**
- **Three Great Styles To Choose From • Mount on Pickups, Light Trucks and Jeeps**
- **Rugged, All Steel Construction for Years of Dependable Service**
- **Durable Powder Coat Finish**

**TF-300 Turntable Tow Hitch – Hooks up anywhere in a 7<sup>1</sup>/<sub>2</sub> square foot radius.**



Order SKU #	Description	Wt Each	Std Qty
TF-300	Frame Mount Turntable Hitch	60.0 lbs	1

*Packaged One Per Carton*

The Red Dragon® Turntable Hitch features an easy-to-use design which allows the tow bar to be adjusted in length and rotate on an axis making hook-up troubles a thing of the past. Just get it close! The TF-300 features heavy duty steel construction for years of dependable service and is a favorite among farmers and ranchers.

The Turntable Hitch is designed to mount directly to the vehicle frame and folds up and locks securely in front of the grill when not in use. A heavy duty, one inch hitch pin is included and is ideal for towing behind large implements and tractors.

Turn Table Hitch comes complete with instructions, mounting bolts and hitch pin. Maximum draw weight is 6,000 pounds. Tow length is 49.”

**IMPORTANT INFORMATION ABOUT THE RED DRAGON® HITCH:**

**CAUTION:** Always use a safety chain and comply with local ordinances when towing a vehicle.

**NOTE:** The Red Dragon® Frame Mount Hitch comes complete with a universal mounting bracket. Due to the wide variances in vehicle frames, it may be necessary to adapt the hitch to the pickup. The Red Dragon® Hitch is NOT vehicle specific.

**NOTE:** The Red Dragon® Hitch is designed expressly for agricultural towing and is not intended for high speed use. Maximum draw weight is 6,000 pounds.

# CH-220-QC Series "Hot Box" – The Original Red Dragon® Construction Heater – Strong, Stackable & Stable

*Don't Try  
This With  
Just Any  
Heater!*



- Perfect for temporary indoor heating of warehouses, buildings under construction, garages, shop areas, machine sheds and remodeling areas.
- Unique & efficient design forces heat downward to keep the work area warmer
  - Heavy gauge steel construction – built to last
  - Low profile prevents tipping • Full safety features
  - Hose Attaches to Heater with Quick Connect Fittings
  - One bolt removes burner and controls
- Nest & stack for easy storage – perfect for the rental industry!
  - Burns clean efficient propane
- 100 lb. Cylinder Required • 5-8 Hour Run Time • Clearance 4' each side, 8' above
- Call for Area Distributors • Ships 12 per Pallet • Minimum 12



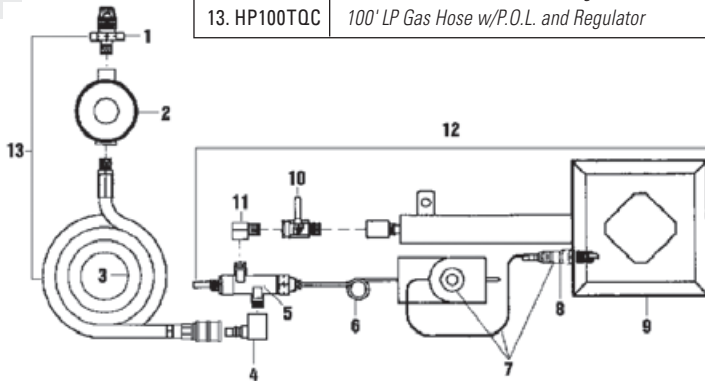
CH-220-QC Shown Here  
Dimensions: 16 1/2" H  
x 22 1/2" W x 26" D

**Built To Last!**

**CH220-QC Heaters Include:**

- Thermocouple Safety Control
- Push Button Piezo Ignition
- Safety Excess Flow P.O.L Fitting
  - Preset Regulator
- U.L. Listed Hose w/Quick Connect

Part No.	Description
1. P-W795	Hand Tighten Excess Flow P.O.L.
2. R-700C	18 P.S.I. Regulator
3. HP10TQ	10' LP Gas Hose w/Quick Connect
3. HP50TQ	50' LP Gas Hose w/Quick Connect
3. HP100TQ	100' LP Gas Hose w/Quick Connect
4. HN-7	3/8" Female Flare x Male Quick Connect Elbow
5. H-19H	Safety Control Valve
6. M3012	12" Thermocouple
7. Model21C	Ignitor with Lead Wire (3309) and Spark Plug
7. 3309	Lead Wire with Connector Ends Only
8. 332	Spark Plug Only
9. 101-CH221	Heater Burner
10. V-326	Flame Control Valve
11. F-422STS	1/4" Elbow
12. CH221QC	Complete Burner/Control Assembly (Includes everything except hose, regulator & P.O.L.)
13. HP10TQC	10' LP Gas Hose w/P.O.L. and Regulator
13. HP50TQC	50' LP Gas Hose w/P.O.L. and Regulator
13. HP100TQC	100' LP Gas Hose w/P.O.L. and Regulator



**CH220-QC – 200,000 BTU**

Connect the CH220-QC to a minimum 100 lb. cylinder and you're all set. Takes the chill out of the air and will get you out of your jacket. There is no hotter or tougher unit on the market! Three hose lengths to choose from. All heaters feature a quick connection fitting for easy hose connection/disconnection.

**For use on noncombustible surfaces and well ventilated areas only. Not designed for home heating.**

Order SKU #	Description	Wt Ea.	Std Qty
CH220-QC	Heater w/10' Hose & Quick Connect	49.3 lbs	12
CH250-QC	Heater w/50' Hose & Quick Connect	54.1 lbs	12
CH2100-QC	Heater w/100' Hose & Quick Connect	60 lbs	12
HP10TQC	10' QC Hose w/Regulator & POL	2.2 lbs	1
HP50TQC	50' QC Hose w/Regulator & POL	5.0 lbs	1
HP100TQC	100' QC Hose w/Regulator & POL	9.2 lbs	1

Packed One Per Carton – Ships 12 Per Pallet  
Please call for quote on orders exceeding 72 units.  
No UPS Shipments.  
Minimum order 12.

**How Much Heat Do You Need?**

CUBIC FEET OF SPACE TO BE HEATED**	TEMPERATURE RISE REQUIRED (°F)*			
	20°	30°	40°	50°
5,000	14,000	20,000	27,000	34,000
7,000	19,000	28,000	38,000	47,000
10,000	27,000	40,000	54,000	67,000
15,000	40,000	60,000	80,000	100,000
20,000	54,000	80,000	107,000	133,000
30,000	80,000	120,000	160,000	200,000
50,000	133,000	200,000	266,000	333,000

BTU CAPACITY REQUIRED

\* Temperature rise required is the difference between the actual temperature and the desired temperature.  
\*\* To determine cubic footage: length x width x height of structure.  
Note: This chart is only a guide. Buildings vary according to construction materials, insulation, humidity, etc.

**For more information about Red Dragon® Construction Heaters, special truck load pricing or to place an order, call 800-255-2469.**



# PATIO LIGHTS

**Red Dragon® Patio Lights** provide a soft, golden glow, enhancing any outdoor setting. NO oily mess or fragile mantles, just the soothing, romantic light from an open flame.

Now available in three decorative head styles and featuring durable, light-weight, all steel construction. Portable Patio Lights assemble in just minutes. Simply attach a 20 lb. propane cylinder

(not included) and enjoy hours of natural, open flame. Each Patio Light includes a sturdy cylinder cart which makes relocating the light a snap.

Patio Lights are also available in permanent mount kits which operate on either propane or natural gas. Each comes complete with an 18" pole base to be mounted in the ground. All Patio Lights are rated up to 49,000 BTU/hr and stand 7 1/2 - 8 feet tall.

**Features:**

- **Soft, Golden, Adjustable Flame**
- **Quick, Easy Set Up**
- **Lightweight Steel Construction**
- **Durable Powder Coated™ Finish**
- **No Oily Mess or Fragile Mantles**
- **Burns Clean Efficient Propane or Natural Gas**



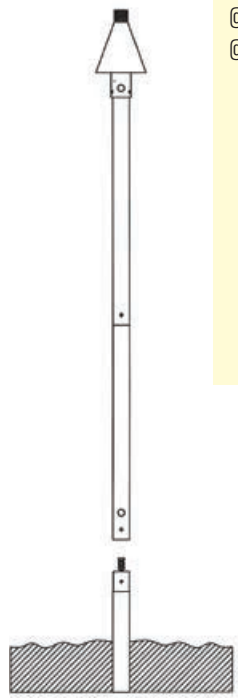
**PATIO LIGHT SPECIFICATIONS:**

LP Gas Usage (11 wc)		Natural Gas Usage (6.5 wc)	
@49,000 BTU (max)	.5 gal./hr.	@49,000 BTU (max)	49 cu. ft./hr.
@18,000 BTU (min)	.2 gal./hr.	@18,000 BTU (min)	18 cu. ft./hr.

**Patio Light Head Clearance Requirements**  
3 Feet Radius 6 Feet Height

- Patio Light Pole Dimensions**
- All Poles are 2 1/2" in Diameter
  - Portable Poles Approx. 73 3/4" Tall
  - Permanent Poles Approx. 82 1/4" Tall

**Permanent Patio Light Pressure Requirements at the Base of the Light**  
LP Gas - 11 wc • Natural Gas - 6.5 wc



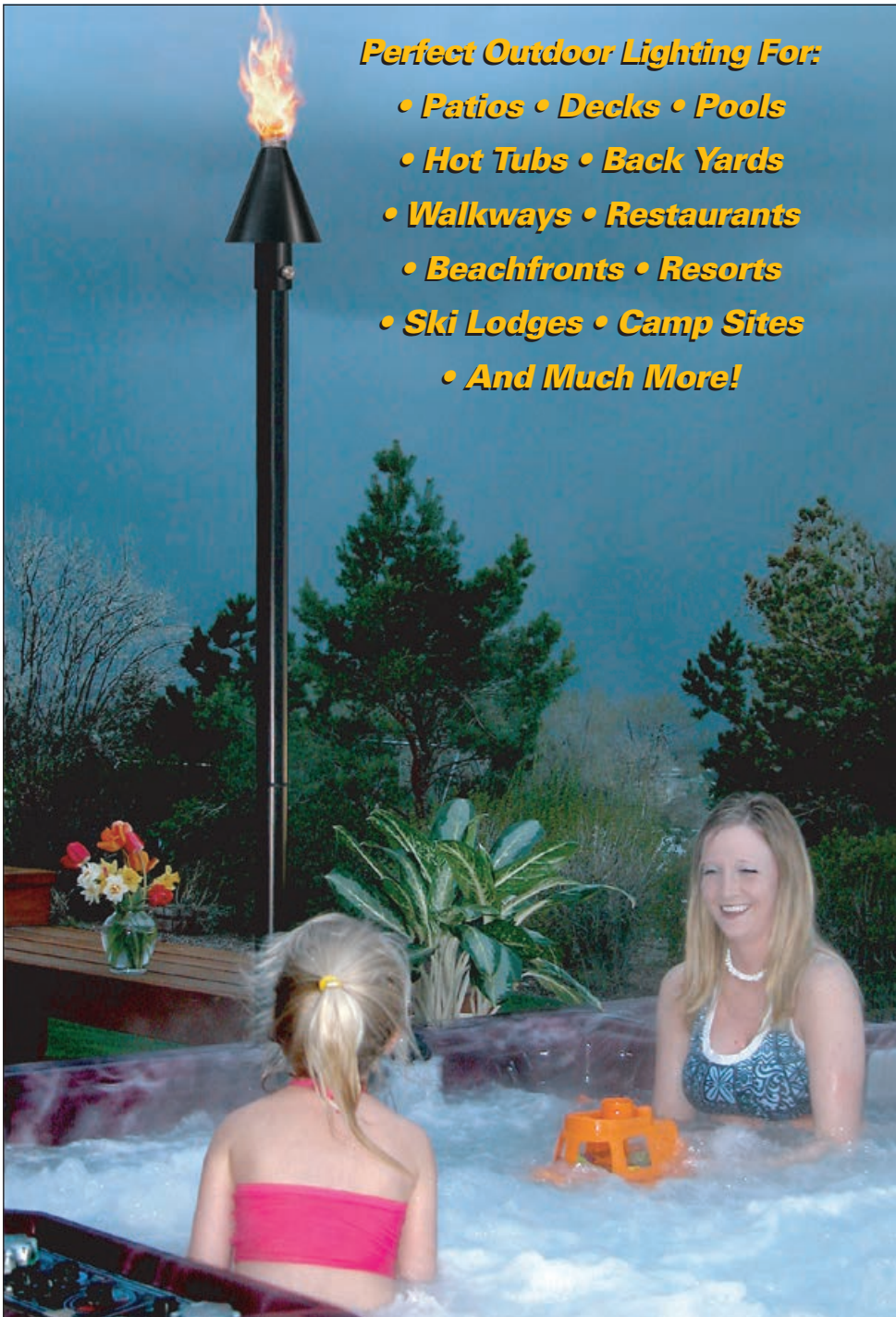
**PATIO LIGHTS ARE FOR OUTDOOR USE ONLY.**

**Not EU/UL/CSA Certified**

**Installation Information Available Online:**  
[www.FlameEngineering.com](http://www.FlameEngineering.com)

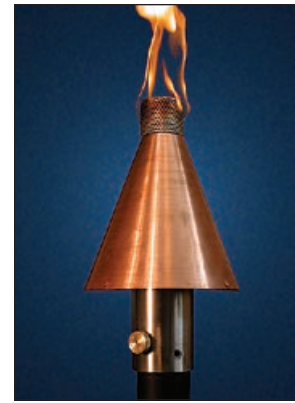
**Outdoor Patio Lights  
Patio Light Setup Instruction**

NOTE: We strongly recommend Professional Installation of all Permanent Mount Patio Lights.

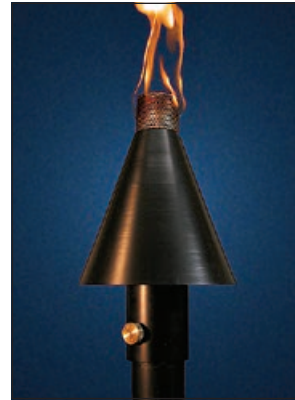


**Perfect Outdoor Lighting For:**

- Patios • Decks • Pools
- Hot Tubs • Back Yards
- Walkways • Restaurants
- Beachfronts • Resorts
- Ski Lodges • Camp Sites
- And Much More!



**Copper Cone Style Head**  
Head Dimensions:  
13" Tall x 7 1/2" Diameter



**Cone Style Head**  
Head Dimensions:  
13" Tall x 7 1/2" Diameter



**Fin Style Head**  
Head Dimensions:  
16 1/4" Tall x 10" Diameter

**Red Dragon® Patio Lights provide hours of enjoyment for the whole family and enhance any outdoor setting.**

PORTABLE PATIO LIGHTS				
Order SKU #	Head Style	Wt Each	Total Height	Std Qty
PT302-6C	Fin	30.0 lbs	89 1/2"	1
PT311-6C	Cone	30.0 lbs	85 1/2"	1
PT411-6C	Copper Cone	30.0 lbs	85 1/2"	1
PERMANENT MOUNT PATIO LIGHTS				
<small>(NOTE: Pressure Requirement At Base of Light is 11 wc for LP Gas and 6.5 wc for Natural Gas)</small>				
Order SKU #	Head Style	Wt Each	Approx. Installed Height	Std Qty
PT302-6PM	Fin	21.0 lbs	89 1/2"	1
PT311-6PM	Cone	21.0 lbs	85 1/2"	1
PT411-6PM	Copper Cone	21.0 lbs	85 1/2"	1

**NOTE:**  
We strongly recommend Professional Installation of all Permanent Mount Patio Lights.

**Manual Propane Flares – Make Evacuating Propane Tanks Quick, Safe and Easy**

- Flare Up To 529 Gallons/Hr
- No Electricity Required
- Compact & Portable Design
- Quick & Easy Setup
- Simple To Use
- Great For Emergency Evacuation Situations
- Stable & Sturdy Construction



**The Red Dragon® Manual Propane Flare**

allows you to evacuate bulk tanks, bobtails and other tanks anywhere quickly, safely and without venting raw propane into the atmosphere. This compact, durable unit is quick to set up, very simple to use and requires no electricity making it perfect for emergency crews, hazmat teams and fire departments who need to act fast and in remote locations. Keep one on hand in case emergency flare-off is necessary. Also great for propane distributors and dealers flaring off tanks so that valves and gauges may be changed out, saving you time and money. Comes with everything necessary except the vapor cylinder for pilot torch operation.

**FEATURES OF ALL MANUAL FLARES**

- Flares liquid or vapor propane
- Telescoping flare tower sets up fast & stands 9' above the ground keeping the flame at a safe distance
- Convenient valve box & simple design featuring quick connectors & flared fittings make set up quick & easy
- 25' U.L. listed evacuation hose with bulk adaptor
- 10' U.L. listed pilot hose & regulator
- Stable triangular base & ground stakes for set up on any terrain
- Quick, easy setup & operation

*Another Great Red Dragon® Product For The LP Industry!*

*According To The NFPA (3-2.4.8 and 4-3.1), you must NOT vent LP Gas into the atmosphere.*



*All components fit neatly into a durable carry bag. The valve box features quick connections and flared fittings making set up fast & easy.*



**PFM-31 Fittings Kit Available!**

Kit comes complete with 6 fittings shown and canvas carry bag. Fittings are:

- 2 1/4" Female ACME
- 1 3/4" ACME Equalizer
- 1 1/4" Female ACME
- 1 1/4" ACME Lift Truck Tank Connection
- Full Flow P.O.L.
- Full Flow Red TYPE 1

*Pilot Cylinder Not Included.*



**FLARE SPECIFICATIONS:**

**1/2" Flare**  
48,300,000 BTU/hr Max  
Flares up to 529 gal/hr



*25' Extension Hose Kit is available. Comes complete with durable carry bag.*

Order SKU #	Description	Wt Each	Std Qty
PFM-16LPS	1/2" Manual Flare	96 lbs	1
PFM-25	25' Hose Extension Kit	12.5 lbs	1
PFM-31	Flare Fittings Kit	4.5 lbs	1

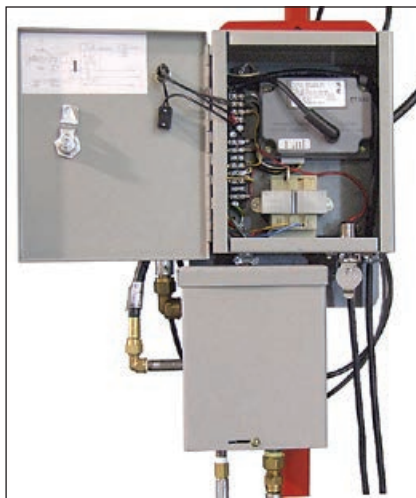
*Ships as an over-size package.*

*Parts list for Red Dragon® Flare Towers is available on our website.*

- Flare Up To 529 Gallons/Hr • Full Safety Features
- Quick & Easy Setup • Stable & Sturdy Construction
- Use Prior To Installing OPD Valves



**According To The NFPA (3-2.4.8 and 4-3.1), you must NOT vent LP Gas into the atmosphere.**



**The Control Box Comes Fully Assembled And Provides Numerous Features Making This The Safest Way To Evacuate Propane Tanks.**

**Red Dragon® Electronic Propane Flares**

allow you to evacuate bulk tanks, bobtails and other tanks quickly, safely and without venting raw propane into the atmosphere. The full-safety control features provide propane flare-off without worry. Great for flaring off tanks so you can change out valves and gauges, saving you time and money. Keep one on hand in case emergency flare-off is necessary. A must for propane distributors and dealers. Burns up to 48,300,000 BTU/hr. Comes with everything necessary except the vapor cylinder for pilot torch operation.

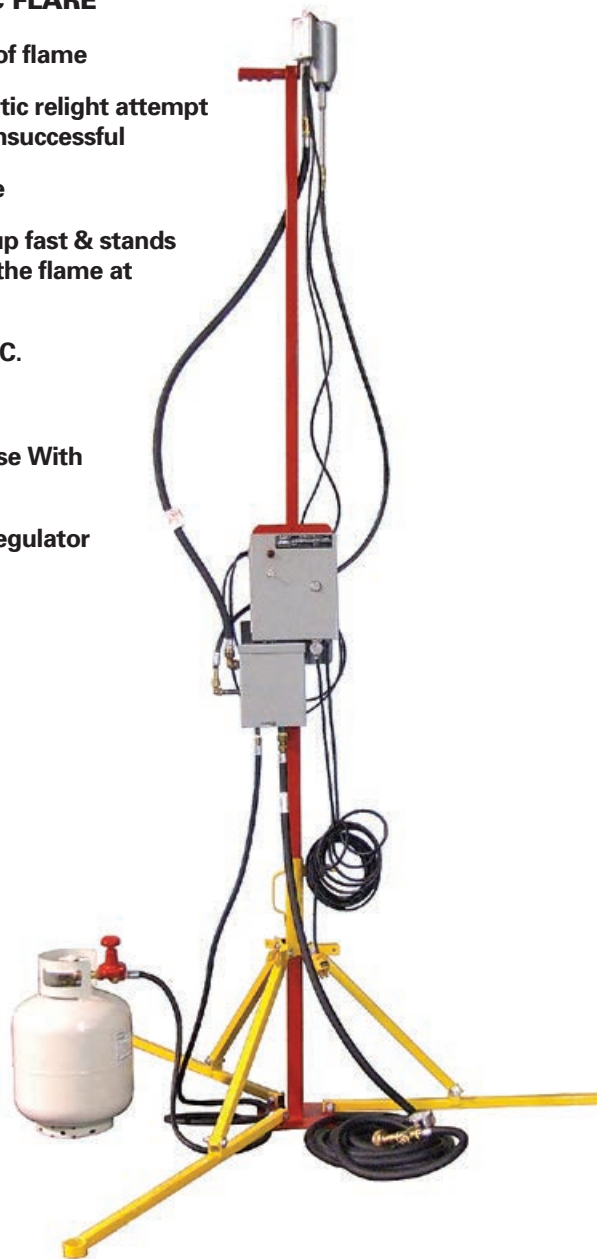
**FEATURES OF ELECTRONIC FLARE**

- Electronic ignition and proof of flame
- Safety feature allows automatic relight attempt with complete shutdown if unsuccessful
- Flares liquid or vapor propane
- Telescoping flare tower sets up fast & stands 9' above the ground keeping the flame at a safe distance
- 12' power cord for 115 volt A.C.
- 20' remote switch cord
- 25' U.L. Listed Evacuation Hose With Bulk Adaptor
- 10' U.L. Listed Pilot Hose & Regulator
- Stable Triangular Base
- Quick and Easy Setup

**FLARE SPECIFICATIONS:**

**1/2" Flare**  
 48,300,000 BTU/hr Max  
 Flares up to 529 gal/hr

**IMPORTANT NOTE:**  
**Not for use with portable generators.**



Order SKU #	Description	Wt Each	Std Qty
PF-16LPS	1/2" Flare	108 lbs	1

*Ships as an over-size package.*

**Parts list for Red Dragon® Flare Towers is available on our website.**

**Complete Roofing Torch Kits – Red Dragon® . . . The Best Tools For The Trade**

**RTCOMBO – 400,000 BTU/50,000 BTU**



This combination field and detail torch kit is our most popular model. The handy quick connect feature enables the operator to switch from a stand-up to detail torch in a snap – without tools and while still using the same LP gas hose, regulator and tank. **Also available in a Lightweight Model – RTCOMBOLW. CSA Certified for the United States and Canada.**

Order SKU #	Wt Each	Case Qty	Case Wt
RTCOMBO	9.3 lbs	4	39.0 lbs
RTCOMBOLW	9.0 lbs	4	37.8 lbs

**RTCOMBO Kit Includes:**

Part No.	Description
RT2 <sup>1</sup> / <sub>2</sub> -20	400,000 BTU Field Torch w/Male Quick Connect
or RT2 <sup>1</sup> / <sub>2</sub> -20LW	400,000 BTU Field Torch w/Male Quick Connect
RT1 <sup>1</sup> / <sub>2</sub> -10	50,000 BTU Detail Torch w/Male Quick Connect
HN-5	Female Quick Connect
HP25	25' U.L. Listed LP Gas Hose
567RC	U.L. Listed Regulator
P-W795	U.L. Listed Hand Tighten P.O.L. Fitting
G-23	Pressure Gauge
(2) TB-4	Welded Torch Stands
L2001	Spark Lighter and Flints
	Pipe Thread Sealant



**The QUICK CONNECT makes switching from stand-up to detail torch a snap!**



**In recent tests, the RT2<sup>1</sup>/<sub>2</sub>-20 proved to be as hot or hotter than any competitive brand and capable of exceeding 400,000 BTU!**

**RT2<sup>1</sup>/<sub>2</sub>-20C – 400,000 BTU**



The work horse of all Red Dragon® Roofing Torch Kits, the RT2<sup>1</sup>/<sub>2</sub>-20C performs stand-up work with ease and is noted for durability and efficiency on the job. This kit excels in balance and flame control and has an overall length of 29." **Also available in a Lightweight Model – RT2<sup>1</sup>/<sub>2</sub>-20LWC. CSA Certified for the United States and Canada.**

Order SKU #	Wt Each	Case Qty	Case Wt
RT2 <sup>1</sup> / <sub>2</sub> -20C	8.5 lbs	4	35.0 lbs
RT2 <sup>1</sup> / <sub>2</sub> -20LWC	8.2 lbs	4	33.8 lbs

**RT2<sup>1</sup>/<sub>2</sub>-20C Kit Includes:**

Part No.	Description
RT2 <sup>1</sup> / <sub>2</sub> -20	400,000 BTU Field Torch
or RT2 <sup>1</sup> / <sub>2</sub> -20LW	400,000 BTU Field Torch
HP25	25' U.L. Listed LP Gas Hose
567RC	U.L. Listed Regulator
P-W795	U.L. Listed Hand Tighten P.O.L. Fitting
G-23	Pressure Gauge
TB-4	Welded Torch Stand
L2001	Spark Lighter and Flints
	Pipe Thread Sealant



**Roofers ask for Red Dragon® Torches by name!**



# Modified Bitumen Applicators & Roof Dryers

## SPA1000 Modified Bitumen Applicator

### SPA1000 INCLUDES:

Qty	Part #	Description
2	VT2 1/2-0	400,000 BTU Vapor Torch Head
5	VT2-0	100,000 BTU Vapor Torch Head
7	V-334	Flame Adjusting Needle Valve
1	HP50	U.L. Listed 50' LP Gas Hose
1	R-499	U.L. Listed Regulator
1	P-1685	U.L. Listed POL
1	V-880P/H-1	Squeeze Valve/Handle Assembly
1	G-23	Pressure Gauge

By customer request, we are now offering a two handle wagon design modernized by Red Dragon® technology. Features include a stainless steel manifold and framework and 7 durable vapor torches. Each torch has a flame adjusting needle valve for total flame control and the manifold easily moves to and from the roll. Light weight and American made. For use by professional roofing contractors.



Order SKU #	Wt Each	Case Qty
SPA1000	54.0 lbs	1

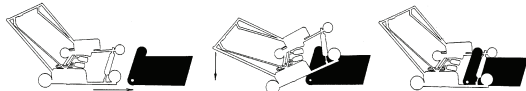
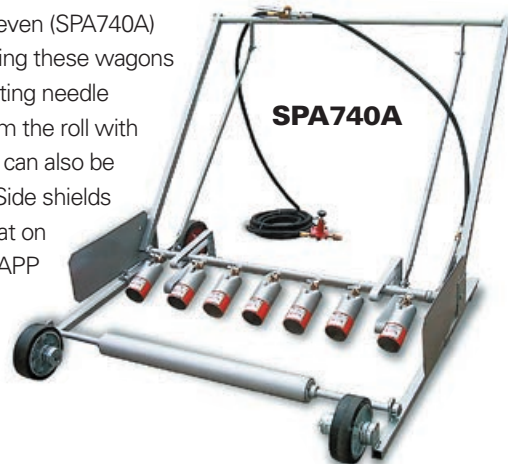
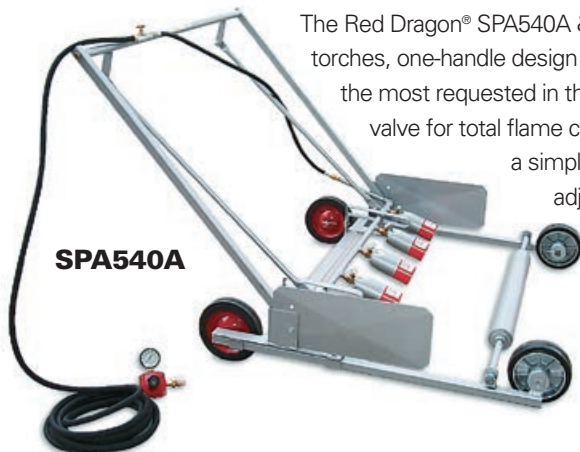
## SPA540A & SPA740A Modified Bitumen Applicators

The Red Dragon® SPA540A & SPA740A feature five (SPA540A) and seven (SPA740A) torches, one-handle design and complete manifold adjustability, making these wagons the most requested in the business. Each torch has a flame adjusting needle valve for total flame control and the manifold moves to and from the roll with a simple twist of the handle. The manifold angle can also be adjusted to allow the proper flaming angle. Side shields and superior design concentrate the heat on the material – not the operator. Use on APP and SBS systems.

**Reduce Application Time  
Up To 75%**

### SPA540A & SPA740A Include:

Part No.	Description
VT2 1/2-0 (5 or 7)	400,000 BTU Vapor Heads
V-334 (5 or 7)	Adjusting Needle Valves
HP50	50' U.L. Listed LP Gas Hose
R-499	U.L. Listed Regulator
P-1685	U.L. Listed P.O.L. Fitting
V-880P	Squeeze Valve
G-23	Pressure Gauge



**Red Dragon® Modified Bitumen Applicators Feature Our Easy Roll Mount System.**

Order SKU #	Wt Each	Std Qty
SPA540A	90.0 lbs	1
SPA740A	83.0 lbs	1

*Ships in two packages – UPS or Truck.*

## RD6009 Roof Dryer

The Red Dragon® Roof Dryer defrosts, dries and gets you back on the job with minimum effort. The rugged design and user friendly features make the Red Dragon® Roof Dryer the perfect choice for professional contractors. Use to dry surfaces after ponding water has been removed or to remove morning dew, frost, or light debris.

The Roof Dryer combines high heat (up to 350°F) and a 153 MPH airstream to facilitate quick drying and reduce costly downtime. There are no electrical cords or danger of electrical shock. Rely on a Red Dragon® when mother nature tries to delay your work day.

**Red Dragon® Roof Dryers are safe, easy to use and get you back to work fast.**



### RD6009 Blower Specifications

NEW 6.5 HP Kohler motor. Powerful 153 MPH airstream.

### Heating System Specifications

VT3-12S burner, up to 250,000 BTU/hr, mixes with air to provide the desired drying effect up to 350°F.

### Roof Dryers Also Include:

Part No.	Description
VT3-12S	Vapor Torch Head
HP25	25' U.L. Listed LP Gas Hose
R-700C	18 P.S.I. Regulator
P-3200W	U.L. Listed P.O.L. Fitting
V-880P	Squeeze Valve

Order SKU #	Wt Each	Std Qty
RD6009	125.0 lbs	1

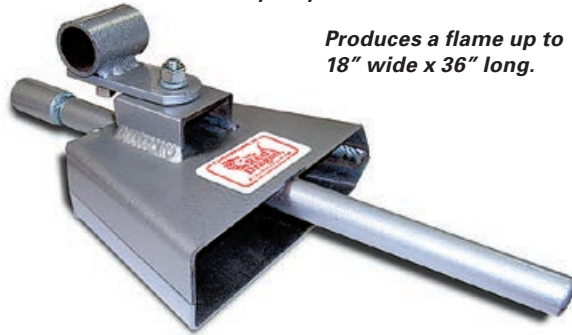
**Ships in one package – Truck Only.**

**For a complete catalog of all Red Dragon® Roofing Torch Kits & Equipment, please call 800-255-2469 or visit our website at [www.FlameEngineering.com](http://www.FlameEngineering.com)**

**Liquid Torches – For Continuous Use Applications, Sub-Zero Climates & Agricultural Flaming**

*The following three V-shaped liquid torches are designed to project wide sweeping flames and are used for agricultural applications such as row crop flaming, vineyard and orchard flaming and flaming fencelines. All models include a mounting bracket with 3/8" set screw to mount to a 1" OD bar.*

**LT2x8 Liquid Torch**  
1,150,000 BTU



*Produces a flame up to 18" wide x 36" long.*

Bracket Fits 1" Outside Diameter Tool Bars.

This high out-put torch is standard on the GPK454 berm flamer and alley attachment (see pages 18 & 19). The LT2x8 works well in orchards, vineyards, nutgroves, hops fields and along fence rows.

**LT2x8 Specifications:**

Maximum Capacity	1,150,000 BTU/hr
Normal Operating Pressure	50 P.S.I.
Operating Pressure Range	20-90 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	53.3 lbs/hr
Fuel Inlet	1/4" NPT
Overall Length	14 1/4"

Order SKU #	Wt Each	Case Qty
LT2x8	4.9 lbs	1

**LT1 1/2x8D Liquid Torch**  
480,000 BTU



*Produces a flame up to 10" wide x 33" long.*

Bracket Fits 1" Outside Diameter Tool Bars.

This is our standard row crop flaming torch designed for in-the-row weed control on corn, cotton, soybeans, milo and a variety of vegetables.

**LT1 1/2x8D Specifications:**

Maximum Capacity	480,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	20-50 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	21 lbs/hr
Fuel Inlet	1/4" NPT
Overall Length	8"

Order SKU #	Wt Each	Case Qty
LT1 1/2x8D	4.0 lbs	1

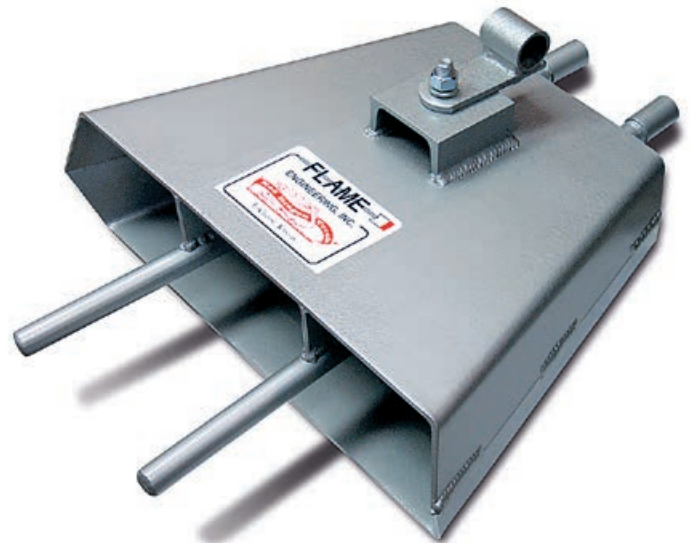
**LT6x18 Liquid Torch – 3,000,000 BTU**

This is the standard torch on our GPK1054 berm flamer (see page 19) and is the highest rated liquid torch we manufacture. The torch produces a much larger flame and allows for coverage of greater surface area and faster ground speeds. Includes a mounting bracket with 3/8" set screw to mount to a 1" OD round bar.

**LT6x18 Specifications:**

Maximum Capacity	3,000,000 BTU/hr	Approximate Flame Temperature	2050°F
Normal Operating Pressure	50 P.S.I.	Maximum Fuel Consumption	110 lbs/hr
Operating Pressure Range	20-90 P.S.I.	Fuel Inlet	1/4" NPT
		Overall Length	21 1/2"

Order SKU #	Wt Each	Case Qty
LT6x18	34.0 lbs	1



*Produces a flame up to 24" wide x 48" long!*

Bracket Fits 1" Outside Diameter Tool Bars.

- **Solid, All Steel Torches are Built To Last**
- **BTU Capacities Ranging From 49,000 to 5,000,000**
- **Individually Tested Before Leaving The Factory**

**3 Inch Diameter Liquid Torches – 750,000 BTU**



**LT3-12**

The LT3-12 torch only is great for heaters, road oil distributors, furnaces, roofing tar vats, etc. May be disassembled for cleaning.



**LT3-12T**

The LT3-12T has a 1 inch diameter tool bar mounting bracket and is the replacement pilot torch for the TD12LPS Alfalfa Field Flamer on page 13.

Bracket Fits 1" Outside Diameter Tool Bars.

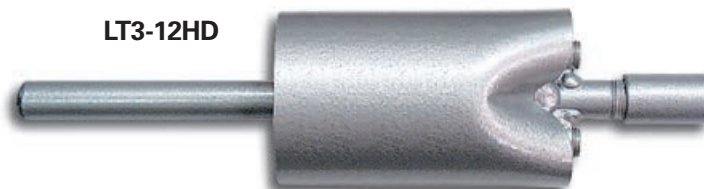
Order SKU #	Description	Wt Each	Case Qty
LT3-12	Torch Head – Overall Length 14 <sup>1</sup> / <sub>4</sub> "	2.0 lbs	1
LT3-12T	Torch Head w/bracket – Overall Length 14 <sup>1</sup> / <sub>2</sub> "	2.6 lbs	1

**3" Liquid Torch Specifications:**

Maximum Capacity	750,000 BTU/hr
Normal Operating Pressure	50 P.S.I.
Operating Pressure Range	10-90 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	34.7 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"

**LT3-12HD Liquid Torch – 1,000,000 BTU**

A heavy-duty, high capacity torch designed for road oil distributors, roofing tar vats, mounting into a flue and many other uses. Torch is easily dis-assembled for cleaning.



**LT3-12HD**

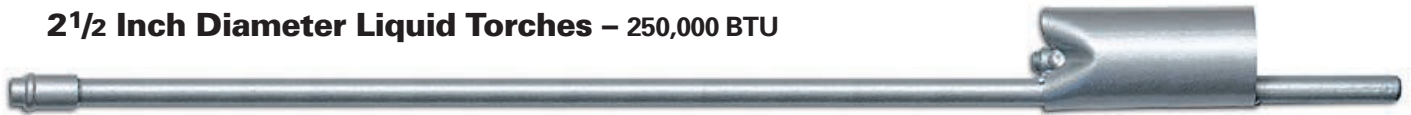
**LT3-12HD Torch Specifications:**

Maximum Capacity	1,000,000 BTU/hr
Normal Operating Pressure	50 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	46.3 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"
Overall Length	12"

Order SKU #	Wt Each	Case Qty
LT3-12HD	2.4 lbs	1

**Liquid Torches – For Continuous Use Applications, Sub-Zero Climates & Agricultural Flaming**

**2 1/2 Inch Diameter Liquid Torches – 250,000 BTU**



Our 250,000 BTU, 2 1/2 inch diameter liquid torches are great for a number of uses where you still need a high output torch, but not as high as our 3" diameter liquid torches.

**LT2 1/2-30**

See Page 11 for Complete Kit

The heavy-duty LT2 1/2-30 comes with a 26" handle and is a great torch for cold climate snow/ice melting, road repair or extended weed burning.



**LT2 1/2-12**

The LT2 1/2-12 is the torch head only version and is used for heating road oil or tar pots, firebrick flues and road repair.

**2 1/2" Liquid Torch Specifications:**

Maximum Capacity	250,000 BTU/hr
Normal Operating Pressure	40 P.S.I.
Operating Pressure Range	5-70 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	11.6 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2 1/2"

Order SKU #	Description	Wt Each	Case Qty
LT2 1/2-30	26" Handle – Overall Length 35"	3.9 lbs	10
LT2 1/2-12	Torch Head – Overall Length 11"	1.75 lbs	1

**LT2-12 Liquid Torch – 49,000 BTU**

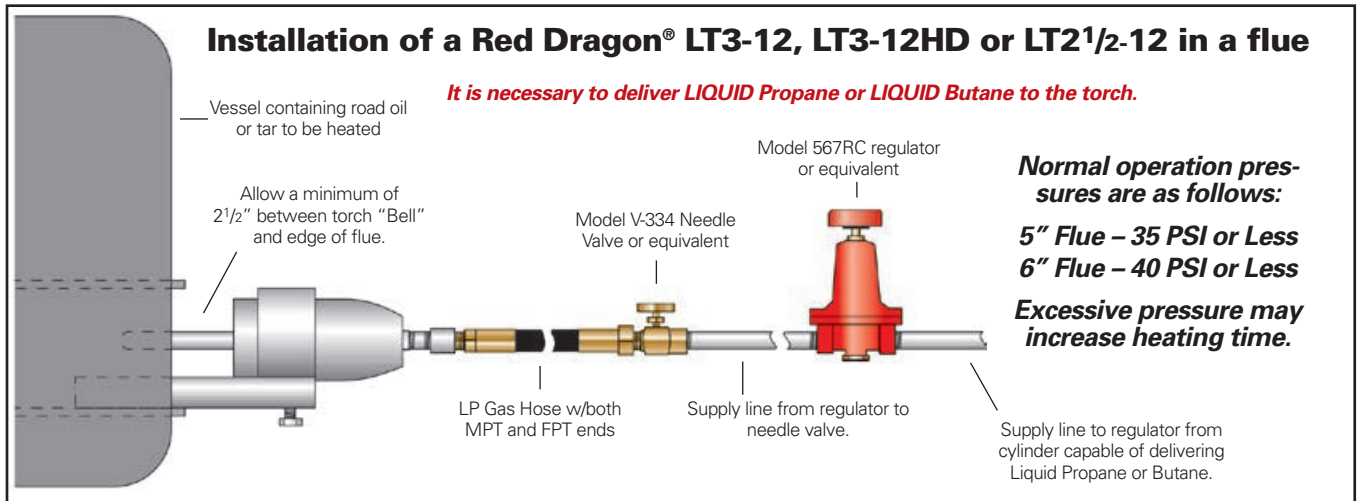


The LT2-12 is a compact torch for use where a high capacity liquid torch is required but space is limited. Uses include heating road oils, de-icing, heating kilns, and other applications.

**2" Liquid Torch Specifications:**

Maximum Capacity	49,000 BTU/hr
Normal Operating Pressure	25 P.S.I.
Operating Pressure Range	5-60 P.S.I.
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	2.3 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2"
Overall Length	11"

Order SKU #	Wt Each	Case Qty
LT2-12	1.5 lbs	1

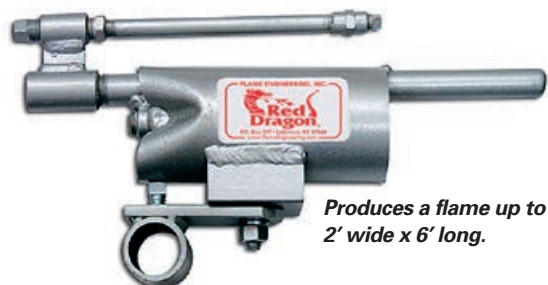


## Liquid Spray Torches – For Dense, Heavy Brush, Potato Vine Desiccation and Hard-To-Reach Areas

- **Red Dragon® Liquid Spray Torches Produce Flames Up To 6' wide and 12' long**
- **Flame At Speeds Up To 10 M.P.H.** • **Save Money By Getting The Job Done Fast**

Liquid Spray Torches must be attached to a cylinder or tank capable of withdrawing liquid propane or butane. **We recommend no less than a 100 lb. cylinder.**

### LT2<sup>1</sup>/<sub>2</sub>-12LPS



Produces a flame up to 2' wide x 6' long.

Patented Red Dragon® Liquid Spray Torches operate by spraying liquid propane or butane from a special nozzle which is then ignited by a self-vaporizing liquid torch. As liquid propane is directed toward the ground it ignites and produces a tremendous amount of heat that destroys the base of the vegetation. The spray pattern may be altered by changing spray nozzle and/or input pressure.

The LT2<sup>1</sup>/<sub>2</sub>-12LPS has a single spray nozzle and can be attached to a boom for flaming fence lines or a manifold for potato vine flaming. LT2<sup>1</sup>/<sub>2</sub>-12LPS is the standard torch on all Red Dragon® Potato Vine Flamers (see page 22).

The LT3-12LPS is a high capacity torch featuring twin spray nozzles and is ideal for boom mounting for flaming ditches, setting backfires and large weeds. This powerful torch is capable of producing a spectacular flame and allows for ground speeds in excess of 10 m.p.h.

Both models include a mounting bracket with 3/8" set screw to mount to a 1" OD round bar.

**LT3-12LPS**  
Produces a flame up to 6' wide x 12' long.



Order SKU #	Description	Wt Each	Case Qty
LT2 <sup>1</sup> / <sub>2</sub> -12LPS	Torch w/single spray nozzle	2.9 lbs	1
LT3-12LPS	Torch w/twin spray nozzles	4.8 lbs	1

#### LT2<sup>1</sup>/<sub>2</sub>-12LPS Torch Specifications:

Normal Operating Pressure	
Spray Nozzle	.35 PSI
Torch	10 PSI
Operating Pressure Range	
Spray Nozzle	5 PSI to full tank pressure
Torch	5-25 PSI
Max Flame Length	Approximately 6'
Approximate Flame Temperature	2050°F
*Maximum Fuel Consumption	See note below
Fuel Inlet	1/4" NPT
Bell Diameter	2 1/2"
Overall Torch Length	11 1/4"

#### LT3-12LPS Torch Specifications:

Normal Operating Pressure	
Spray Nozzle	.50 PSI
Torch	15 PSI
Operating Pressure Range	
Spray Nozzle	5 PSI to full tank pressure
Torch	5-30 PSI
Max Flame Length	Approximately 12'
Approximate Flame Temperature	2050°F
*Maximum Fuel Consumption	See note below
Fuel Inlet	1/4" NPT
Bell Diameter	3"
Overall Torch Length	15"

\* Limited only by maximum tank pressure and nozzle size

## Jet Torches – "Pear Burners" – Flame Large Weeds, Dense Brush and Hard To Reach Areas

- **Red Dragon® Jet Torches Produce Flames Up To 6' In Length**
- **Up To 2,000,000 BTU/hr**

Red Dragon® Jet Torches operate on vapor propane up to tank pressures. **We recommend no less than a 100 lb. cylinder due to the high capacity of these torches.** As close to a flame thrower as we make.

### JET8 – 2,000,000 BTU See Page 12 for Complete Kit



Use high capacity Red Dragon® Jet Torches to knock down heavy weeds and brush fast and easy.

Jet Torches are perfect for flaming road ditches, fence rows, culverts and more. These torches are especially suitable as "pear burners" in the Southwest, where spines are flamed to make cactus edible for livestock.

Jet Torches maintain a pilot flame and are triggered to full flame with a convenient squeeze valve at the handle. Both feature a plastic grip and are easy to operate.

#### JET8 Torch Specifications:

Maximum Capacity	2,000,000 BTU/hr
Normal Operating Pressure	80 P.S.I.
Operating Pressure Range	30 P.S.I. - tank press
Max Flame Length	6'
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	80 lbs/hr
Fuel Inlet	1/4" NPT
Overall Torch Length	84"

#### JET4 Torch Specifications:

Maximum Capacity	1,000,000 BTU/hr
Normal Operating Pressure	80 P.S.I.
Operating Pressure Range	30 P.S.I. - tank press
Max Flame Length	5'
Approximate Flame Temperature	2050°F
Maximum Fuel Consumption	40 lbs/hr
Fuel Inlet	1/4" NPT
Overall Torch Length	40 1/2"

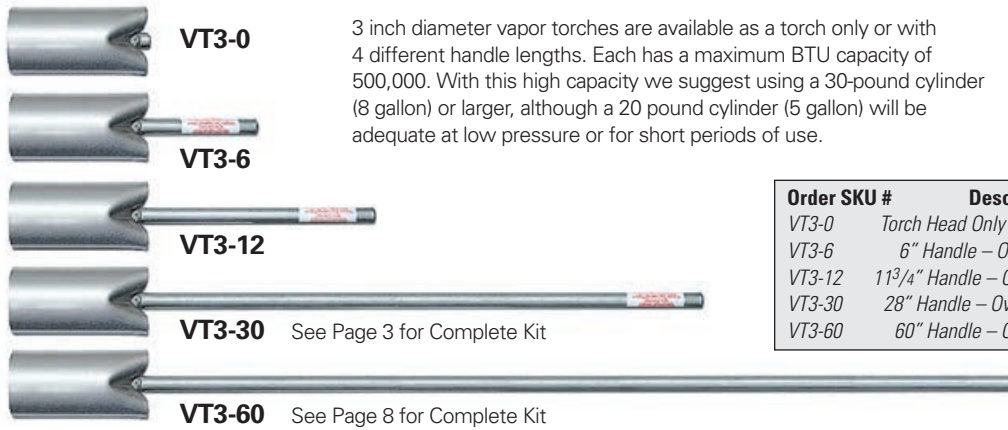
### JET4 – 1,000,000 BTU See Page 12 for Complete Kit



Order SKU #	Description	Wt Each	Case Qty
JET8	Overall Length 84"	6.0 lbs	1
JET4	Overall Length 40 1/2"	2.5 lbs	1

# Vapor Torches – The Best Torches For Weed Burning, Heating, Thawing & More

## 3 Inch Diameter Vapor Torches – 500,000 BTU



3 inch diameter vapor torches are available as a torch only or with 4 different handle lengths. Each has a maximum BTU capacity of 500,000. With this high capacity we suggest using a 30-pound cylinder (8 gallon) or larger, although a 20 pound cylinder (5 gallon) will be adequate at low pressure or for short periods of use.

### 3" Vapor Torch Specifications:

Maximum Capacity	500,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 30 P.S.I.	10.13 lbs/hr
Maximum Fuel Consumption	23.2 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"

Order SKU #	Description	Wt Each	Case Qty
VT3-0	Torch Head Only – Overall Length 6"	1.2 lbs	6
VT3-6	6" Handle – Overall Length 11"	1.4 lbs	6
VT3-12	11 <sup>3</sup> / <sub>4</sub> " Handle – Overall Length 16 <sup>1</sup> / <sub>2</sub> "	1.4 lbs	6
VT3-30	28" Handle – Overall Length 33 <sup>1</sup> / <sub>2</sub> "	1.9 lbs	10
VT3-60	60" Handle – Overall Length 65"	3.4 lbs	1

## VT3-12S High Capacity Vapor Torch – 750,000 BTU



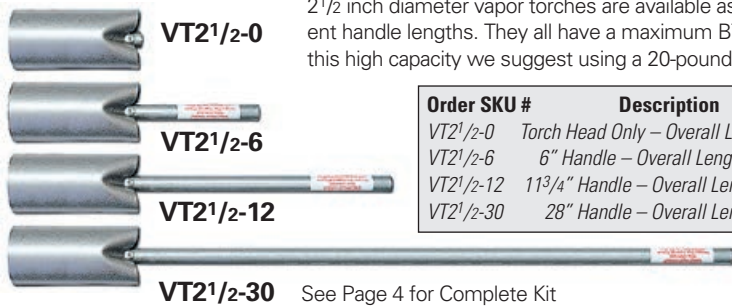
A high capacity, 3" diameter vapor torch. Use this torch on special applications such as preheating large castings prior to welding. Torch head only. Overall length 8."

### VT3-12S Specifications:

Maximum Capacity	750,000 BTU/hr
Normal Operating Pressure	30 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 30 P.S.I.	5.8 lbs/hr
Maximum Fuel Consumption	34.8 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	3"

Order SKU	Description	Wt Each	Case Qty
VT3-12S	Torch Head Only - Overall Length 8"	1.5 lbs	6

## 2<sup>1</sup>/<sub>2</sub> Inch Diameter Vapor Torches – 400,000 BTU



2<sup>1</sup>/<sub>2</sub> inch diameter vapor torches are available as a torch only or with 3 different handle lengths. They all have a maximum BTU capacity of 400,000. With this high capacity we suggest using a 20-pound cylinder (5 gallon) or larger.

Order SKU #	Description	Wt Each	Case Qty
VT2 <sup>1</sup> / <sub>2</sub> -0	Torch Head Only – Overall Length 5 <sup>1</sup> / <sub>2</sub> "	0.9 lbs	6
VT2 <sup>1</sup> / <sub>2</sub> -6	6" Handle – Overall Length 10 <sup>1</sup> / <sub>4</sub> "	1.0 lbs	6
VT2 <sup>1</sup> / <sub>2</sub> -12	11 <sup>3</sup> / <sub>4</sub> " Handle – Overall Length 15 <sup>1</sup> / <sub>2</sub> "	1.1 lbs	6
VT2 <sup>1</sup> / <sub>2</sub> -30	28" Handle – Overall Length 33"	1.6 lbs	10

### 2<sup>1</sup>/<sub>2</sub>" Vapor Torch Specifications:

Maximum Capacity	400,000 BTU/hr
Normal Operating Pressure	25 P.S.I.
Operating Pressure Range	5-90 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 25 P.S.I.	9.3 lbs/hr
Maximum Fuel Consumption	16 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2 <sup>1</sup> / <sub>2</sub> "

## 2 Inch Diameter Vapor Torches – 100,000 BTU



Two inch diameter vapor torches are available in three lengths. Each has a maximum capacity of 100,000 BTU/hr. making them excellent medium-duty torches. We recommend an operating pressure of 20 PSI and a 12 lb. (3 gallon) or larger fuel cylinder.

Order SKU #	Description	Wt Each	Case Qty
VT2-0	Torch Head Only – Overall Length 5 <sup>1</sup> / <sub>2</sub> "	0.75 lbs	6
VT2-6	6" Handle – Overall Length 10 <sup>1</sup> / <sub>2</sub> "	0.8 lbs	6
VT2-12	11 <sup>3</sup> / <sub>4</sub> " Handle – Overall Length 15 <sup>1</sup> / <sub>2</sub> "	0.9 lbs	6

### 2" Vapor Torch Specifications:

Maximum Capacity	100,000 BTU/hr
Normal Operating Pressure	20 P.S.I.
Operating Pressure Range	5-40 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 20 P.S.I.	2.5 lbs/hr
Maximum Fuel Consumption	4.7 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	2"

## 1<sup>1</sup>/<sub>2</sub> Inch Diameter Vapor Torches – 50,000 BTU

1<sup>1</sup>/<sub>2</sub> inch diameter vapor torches are available in 4 different lengths. Although small, they still have a 50,000 BTU capacity and are perfect for close, detail work. We recommend an operating pressure of 10 PSI and a 6 lb. (1.5 gallon) or larger fuel cylinder.

The HT1<sup>1</sup>/<sub>2</sub>-10 is our deluxe "little torch" and features a plastic grip, flame adjusting valve, torch stand and an angled 10<sup>1</sup>/<sub>2</sub>" handle. Perfect for dozens of uses. A favorite of hobbyists, farmers, mechanics and plumbers.



### 1<sup>1</sup>/<sub>2</sub>" Vapor Torch Specifications:

Maximum Capacity	50,000 BTU/hr
Normal Operating Pressure	10 P.S.I.
Operating Pressure Range	5-40 P.S.I.
Approximate Flame Temperature	2050°F
Fuel Consumption @ 10 P.S.I.	1.25 lbs/hr
Maximum Fuel Consumption	2.5 lbs/hr
Fuel Inlet	1/4" NPT
Torch Bell Diameter	1 <sup>1</sup> / <sub>2</sub> "

Order SKU #	Description	Wt Each	Case Qty
VT1 <sup>1</sup> / <sub>2</sub> -0	Torch Head Only – Overall Length 4 <sup>1</sup> / <sub>2</sub> "	0.5 lbs	6
VT1 <sup>1</sup> / <sub>2</sub> -6	6" Handle – Overall Length 10"	0.6 lbs	6
VT1 <sup>1</sup> / <sub>2</sub> -12	11 <sup>3</sup> / <sub>4</sub> " Handle – Overall Length 15"	0.7 lbs	6
HT1 <sup>1</sup> / <sub>2</sub> -10	10 <sup>1</sup> / <sub>2</sub> " Bent Handle – Overall Length 15"	1.1 lbs	6

### HT1<sup>1</sup>/<sub>2</sub>-10

See Page 9 for Complete Kit



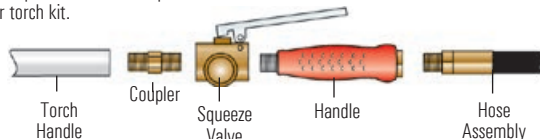
# Squeeze Valves, Needle Valves, Ball Valve and Handle

## V-880P/H-1 – Squeeze Valve with Adjustable Pilot & Torch Handle Kit

The Red Dragon® V-880P/H-1 allows you to add a squeeze valve and handle to any Red Dragon® Vapor Torch Kit. (excluding mini Dragon™ and HT1 1/2-10CR Kit) Perfect for those who use a Red Dragon® Torch Kit for spot weeding and instances where full flame is not continuously required. This kit will quickly pay for itself in propane savings if this is how you will primarily use the torch kit. The all-brass squeeze valve has an adjustable pilot feature. The adjustable pilot is a needle valve assembly similar to the Red Dragon® V-334. This is a high pressure valve tested to 350 lbs working pressure.

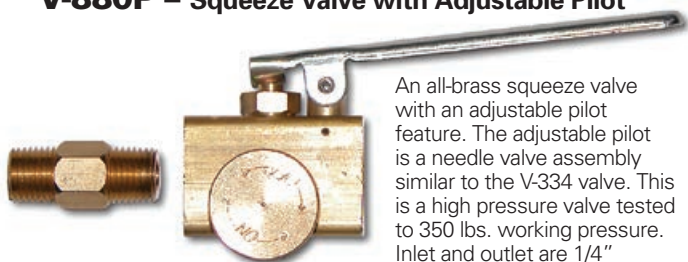


Use Pipe Thread Compound or Teflon® Tape at all connections and follow all instructions included with your torch kit.



Order SKU #	Wt Each	Case Qty
V-880P/H-1	0.5 lbs	10

## V-880P – Squeeze Valve with Adjustable Pilot



An all-brass squeeze valve with an adjustable pilot feature. The adjustable pilot is a needle valve assembly similar to the V-334 valve. This is a high pressure valve tested to 350 lbs. working pressure. Inlet and outlet are 1/4" female pipe thread.

## V-334 – Needle Valve



This heavy-duty needle valve has been tested in excess of 350 lbs. and incorporates a thumb wheel for easy open or close. Both inlet (female end) and outlet (male end) are 1/4" standard pipe thread.

Order SKU #	Wt Each	Case Qty
V-334	0.25 lbs	10

## V-880P Valve Repair Kits & Lever Assembly



TJP-123 – Pilot Valve Repair Kit

TSTE131-2 – Lever Assembly Kit

TC-42-7 – Main Valve Repair Kit

These three kits will allow you to repair either the pilot valve, the main valve or the lever assembly on any V-880P Squeeze Valve.

Order SKU #	Description	Wt Each	Case Qty
V-880P	Squeeze Valve w/Adjustable Pilot	0.2 lbs	10
TJP-123	Pilot Valve Repair Kit	0.1 lbs	1
TC-42-7	Main Valve Repair Kit	0.1 lbs	1
TSTE131-2	Lever Assembly Kit	0.1 lbs	1

## V-326 – 1/4" MPT x 1/4" FPT Inlet Ball Valve



This 1/4 turn, single direction flow ball valve has a maximum operating temp of 180° F. Features a plated metal handle and plated brass ball with a Teflon seat and Buna-N seals. Approved for Natural and LP Gas. Used on Red Dragon® Construction heaters.

Order SKU #	Wt Each	Case Qty
V-326	0.25 lbs	10

## V-6591 – Squeeze Valve



A brass-bodied valve that provides positive shut-off for any of the Red Dragon® torches. The trigger must be depressed for any fuel to flow. This provides an added safety feature where needed. Inlet and outlet are 1/4" pipe thread. For use on all liquid and vapor Red Dragon® torches. The H-1 Handle (Shown Below) is a great addition in many cases.

Order SKU #	Wt Each	Case Qty
V-6591	0.2 lbs	10

## H-1 – Torch Handle



A replacement handle for Red Dragon® Torches with squeeze valves. A must if you want to add a squeeze valve to a torch. 1/4" male pipe thread x 1/4" female pipe thread.

Order SKU #	Wt Each	Case Qty
H-1	0.25 lbs	10

**Questions? Please feel free to contact us at 1-800-255-2469. One of our customer service representatives will be glad to help you.**

# Regulators, Pressure Gauges & Quick Connector Sets

## 567RC & 567RD

### 1/4" Medium Capacity – Liquid or Vapor

2.5 Million BTU/hr Capacity

U.L. Listed



**567RC:** A medium capacity regulator with precise regulating characteristics, designed for cylinder systems in liquid or vapor service. Both the inlet and outlet of this regulator are 1/4" female pipe thread. The 567RC is suitable for tar pot heaters, weed burners and other applications using either liquid or vapor cylinders. Delivery pressures are adjustable from 0 to 60 PSI. Plugged gauge port.

**567RD:** The same characteristics and specifications as the 567RC except the delivery pressures are adjustable from 0-100 PSI.

Order SKU #	Description	Wt Each	Case Qty
567RC	Regulator for 0-60 PSI Delivery	1.2 lbs	6
567RD	Regulator for 0-100 PSI Delivery	1.2 lbs	6

## R-700C

### 1/4" High Pressure – Liquid or Vapor

U.L. Listed



**R-700C:** This regulator is ideal for use with our larger capacity construction heaters, the Weed Dragon® and more. The R-700C has the capacity to deliver nearly 500,000 BTU/hr. and can be used as the first stage regulator of a two stage system. Straight-through flow. Inlet and outlet connections are 1/4" female pipe thread. Delivery pressure is 18 PSI.

Order SKU #	Description	Wt Each	Case Qty
R-700C	Regulator for 18 PSI Delivery	0.5 lbs	10

## RSL-1 – 1/4" x 3/8" Low Pressure – Vapor Only



U.L. Listed

This low pressure (11" WC) regulator is the type used on Patio Lights, stock tank heaters, campers and gas grills. The inlet port is 1/4" female pipe thread and the outlet is 3/8" female pipe thread. Capacity: 125,000 BTU/hr. at 25 PSI inlet pressure. Use P-3200W P.O.L. fitting to connect to LP-gas cylinder. For vapor use only. Not for use on torches or high pressure equipment.

SKU #	Wt Each	Case Qty
RSL-1	0.5 lbs	10



## G-23 – Pressure Gauge

**G-23:** A rugged steel cased gauge showing pressures from 0-100 PSI. The 1/4" male pipe stem allows it to be mounted on the 567RC, 567RD and R-499 regulators. Dial diameter is two inches.

Order SKU #	Description	Wt Each	Case Qty
G-23	Pressure gauge for 0-100 PSI	0.2 lbs	10

## R-499 – 1/4" High Capacity – Liquid or Vapor

4 Million BTU/hr Capacity

U.L. Listed



This regulator is used on the Red Dragon® Row Crop Flamer, Berm Flamers, tar pot kettles and weed burners. Known as a pound to pound regulator, the R-499 controls propane at elevated pressures. Inlet and outlet connections are 1/4" female pipe thread. Recommended delivery pressure range is from 40-100 PSI. Plugged gauge port.

Order SKU #	Wt Each	Case Qty
R-499	1.0 lbs	1

## R-1584H – 1/2" High Capacity – Liquid or Vapor

8 Million BTU/hr Capacity

U.L. Listed



Precision built with a multi-million BTU capacity, these high quality regulators are perfect for big, tough jobs; crop dryers, alfalfa flammers, row crop flammers, asphalt batch mixing plants, ditch flammers, and other large industrial and commercial loads. Straight-through flow provides high capacities and maximum resistance to freeze up. Inlet and outlet connection are 1/2" female pipe thread. Delivery pressure is from 45 to 125 PSI. Plugged gauge port.

Order SKU #	Wt Each	Case Qty
R-1584H	1.6 lbs	1

## QUICK CONNECTOR SETS U.L. Listed



HK-8



HK-7



HN-5



HN-6

This brass set allows connection and disconnection of the LP-Gas line to the torch without the use of tools. The unique design of the HK-7 set makes coupling under pressure possible with minimal loss of fuel. Both pieces are 1/4" pipe thread (HN-5 female & HN-6 male). For use up to 250 PSI.

Order SKU #	Description	Wt Each	Case Qty
HK-8	complete set (2)HN-6 male (1)HN-5 female	0.53 lbs	10
HK-7	complete set (1)HN-6 male (1)HN-5 female	0.44 lbs	10
HN-5	female adaptor	0.25 lbs	10
HN-6	male adaptor	0.07 lbs	10



## G-25 – Liquid Filled Pressure Gauge

A rugged liquid filled, steel cased gauge showing pressures from 0-300 PSI. The 1/4" male pipe stem allows it to be mounted on the 567RC, 567RD, R-1584H and R-499 regulators. Replacement gauge for all Red Dragon® Agricultural Flaming Equipment. Dial diameter is 2 1/2 inches.

SKU #	Wt Each	Case Qty
G-25	0.5 lbs	10



# LP Hose Assemblies, P.O.L. Fittings & Cylinder Connectors

## HP-Series LP-Gas Hose – Liquid or Vapor



HP-series hose is U.L. Listed for use with either vapor or liquid LP-gas and is available in 5', 10', 25' and 50' lengths. Each hose is coupled with 1/4" male pipe thread fittings on both ends\*. Maximum working pressure of this hose is 350 PSI with a burst test of 1750 PSI. Hose I.D. is 1/4".

\*HP5C & HP10C come with one female end and one male end.

\*HP25 & HP50 include a 1/4 female brass coupling.

Order SKU #	Description	Wt Each	Case Qty
HP5	5' Hose w/1/4" MPT on both ends	1.0 lbs	10
HP5C	5' Hose w/1/4" MPT & 1/4"FPT	1.0 lbs	10
HP10	10' Hose w/1/4" MPT on both ends	1.5 lbs	10
HP10C	10' Hose w/1/4" MPT & 1/4"FPT	1.5 lbs	10
HP25	25' Hose w/1/4" MPT on both ends	4.0 lbs	6
HP50	50' Hose w/1/4" MPT on both ends	6.1 lbs	4

## Replacement O Rings for P.O.L. Fittings

Replacement O ring seals for P-1685, P-3200W and P-W795 P.O.L. fittings shown above.

Order SKU #	Case Wt	Case Qty
100-303-080	0.2 lbs	100



## P-1685 – Standard P.O.L.

U.L. Listed



The fitting that adapts most LP cylinders to regulators and other fittings. The P.O.L. nut is the left hand fitting that threads into nearly all butane/propane cylinders and the other end of this connection is standard 1/4" male pipe thread. This is a straight through flow design - **No excess flow safety device installed in this P.O.L.**

Order SKU #	Wt Each	Case Qty
P-1685	0.2 lbs	10

## P-3200W – Excess Flow P.O.L.

U.L. Listed



A soft-nose P.O.L. connector incorporating an excess flow safety device and hex nut for positive tightening. The outlet on this fitting is 1/4" male pipe thread. Flow rate is 1.8 gallons per minute.

Order SKU #	Wt Each	Case Qty
P-3200W	0.2 lbs	10

## P-W795 – Hand Tighten Excess Flow P.O.L.

U.L. Listed



No wrenches needed with this soft nose P.O.L. This all-brass P.O.L. can be hand-tightened for easy connection to any LP-gas cylinder. Includes excess flow device for added safety. Outlet is 1/4" male pipe thread. Flow rate is 1.8 gallons per minute.

Order SKU #	Wt Each	Case Qty
P-W795	0.3 lbs	10

# Electric Solenoid Control Valves, Safety Valves & Thermocouples

## 12 Volt D.C. Solenoid Valves



Electric control valves for use with LP-gas or natural gas at working pressures up to 312 PSI. A large orifice allows adequate flow on both liquid and vapor LP-gas. 1.1 amp nominal draw on 12 volts D.C. Inlet and outlet are female pipe threads.

Order SKU #	Description	Wt Each	Case Qty
S-121-A	1/4" FPT inlet & outlet	0.7 lbs	1
S-122	1/2" FPT inlet & outlet	2.3 lbs	1
S-119	3/4" FPT inlet & outlet	2.6 lbs	1

## 115 Volt A.C. Solenoid Valves



Electronic control valves using 115 volt A.C. current. Control pressures up to 300 PSI with an operating differential of 0-60 PSI. Inlet and outlet are female pipe threads.

Order SKU #	Description	Wt Each	Case Qty
S-117	1/2" FPT inlet & outlet	2.5 lbs	1

## 24 Volt A.C. Solenoid Valves



Electronic control valves for use with LP-gas or natural gas at working pressures up to 312 PSI. Used on the Red Dragon® Propane Flare and in custom ignition systems for eternal flames.

Order SKU #	Description	Wt Each	Case Qty
S-124	1/4" FPT inlet & outlet	1.6 lbs	1
S-126	1/2" FPT inlet & outlet	2.1 lbs	1

## Replacement Piezo Ignitors

Replacement ignitors for Red Dragon® Construction Heaters. Complete with items listed.



Order SKU #	Description	Wt Each	Case Qty
Model21	Piezo Ignitor Only	0.2 lbs	1
Model21C	Piezo ignitor, lead wire, spark plug & spark plug connector for CH-220 Heaters	0.3 lbs	1

## Thermocouple



Order SKU #	Description	Wt Each	Case Qty
M3012	12" Thermocouple	0.2 lbs	1
M3031	24" Thermocouple	0.3 lbs	1
M3032	36" Thermocouple	0.3 lbs	1
M3036	36" Heavy Duty Thermocouple	0.4 lbs	1

# Brass Fittings, Cylinder Adaptors & Ignitors

## FPT Tees



Order SKU #	Description	Wt Each	Case Qty
F-522*	1/4" FPT x 1/4" FPT x 1/4" FPT	.15 lbs	10
F-533*	3/8" FPT x 3/8" FPT x 3/8" FPT	.3 lbs	10
F-544*	1/2" FPT x 1/2" FPT x 1/2" FPT	.45 lbs	10

## 1/4" FPT 90° Elbow



Order SKU #	Description	Wt Each	Case Qty
F-422*	1/4" FPT x 1/4" FPT	.2 lbs	10

## MPT x MPT Hex Nipples



Order SKU #	Description	Wt Each	Case Qty
F-222	1/4" MPT x 1/4" MPT	.1 lbs	10
F-233*	3/8" MPT x 3/8" MPT	.1 lbs	10

## F-140 – Cylinder Adaptor



Use to connect standard cylinders to small appliances such as lanterns & camp stoves, which normally connect to disposable cylinders. Hose and P.O.L. fitting required. Inlet is 1/4" female pipe thread and outlet is 1"-20 male thread.

Order SKU #	Wt Each	Case Qty
F-140*	0.2 lbs	10

## MPT x Male Flared Adapters



Order SKU #	Description	Wt Each	Case Qty
F-726*	1/4" MPT x 3/8" Flare	.1 lbs	10
F-736*	3/8" MPT x 3/8" Flare	.1 lbs	10

## 9/16" Left Hand Adapters

## 1/4" FPT x 1/4" FPT Hex Coupling



Order SKU #	Description	Wt Each	Case Qty
F-322	1/4" FPT x 1/4" FPT	.1 lbs	10

## L2001– Spark Lighter w/Flints



The convenient and safe way to light Red Dragon® Torches, welders and cutting torches. The L2001 Spark Lighter produces up to 1,500 ignitions per flint. The perfect tool when you need dependability, ease of operation and lightweight convenience. Pack of 5 FREE replacement flints included.

Order SKU #	Description	Wt Each	Case Qty
L2001	Spark Lighter w/5 flints	0.2 lbs	10
L2012	Pack of 5 flints	0.03 lbs	24

# Red Dragon® Cylinder Dolly & LP Gas Cylinders

## CD-505 Cylinder Dolly

The Red Dragon® CD-505 Cylinder Dolly is specifically designed for transporting 100 pound cylinders. The ergonomic design features handles that are set wide and angled outward, making it easy to push, pull, or turn.

The CD-505 is constructed of heavy gauge square tubing. It features removable, two-ply pneumatic tires mounted on steel wheels with heavy duty roller bearings on a 1" steel axle.

Order SKU #	Wt Each	Std Qty
CD-505	43.0 lbs	1



**CD-505**

## C-11 10 lb. Vapor Withdrawal Propane Cylinder

This 10 lb. vapor withdrawal cylinder is opd equiped and meets all safety standards. Holds 2.5 gallons of propane when full and is the cylinder included with all our back pack torch kits. Has an overall height of 17.4 inches and a diameter of 8.9 inches. Features a durable powder coat finish.



**C-11**

## C-120 120 Gallon Liquid Withdrawal Horizontal Propane Tank

This is the tank we recommend for use with the GP-750 Bern Flaming Unit. Conforms to the latest edition and addenda of the ASME Code for Pressure Vessels, Section VIII Division I. Complies with NFPA 58 and is listed by Underwriters Laboratories, Inc. Comes pre-purged and ready to be filled. Features a durable powder coat finish. Rated at 250 psig from -20° F. to 125° F. Tank may be evacuated to a full (14.7 psi) vacuum. Tank is 66 inches long and has a diameter of 24 inches.

Order SKU #	Description	Wt Each	Case Qty
C-11	10 lb. Propane Cylinder	16.0 lbs	1
C-120	120 Gallon Tank	---	1



**C-120**

**Questions? Please feel free to contact us at 1-800-255-2469.  
One of our customer service representatives will be glad to help you.**

## Propane Vapor Pressure Chart, PSI

	OUTSIDE TEMPERATURE, DEGREES FAHRENHEIT														
	-30°	-20°	-10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	110°
100% Propane	6.8	11.5	17.5	24.5	34	42	53	65	78	93	110	128	150	177	204

**VAPOR PRESSURE, PSI**

## Vaporization Rate – 100 lb. Propane Cylinders (Approximate)

Pounds of propane in cylinder	Maximum continuous draw in BTU/hr at various temperatures in degrees F.				
	0°	20°	40°	60°	70°
100	113,000	167,000	214,000	277,000	300,000
90	104,000	152,000	200,000	247,000	277,000
80	94,000	137,000	180,000	214,000	236,000
70	83,000	122,000	160,000	199,000	214,000
60	75,000	109,000	140,000	176,000	192,000
50	64,000	94,000	125,000	154,000	167,000
40	55,000	79,000	105,000	131,000	141,000
30	45,000	66,000	85,000	107,000	118,000
20	36,000	51,000	68,000	83,000	92,000
10	28,000	38,000	49,000	60,000	66,000

This chart shows the vaporization rate of containers in terms of the temperature of the liquid and the wet surface area of the container. When the temperature is lower or if the container has less liquid in it, the vaporization rate of the container is a lower value.

## Safety Information

### Check List For Safe LP-Gas Use

- DO NOT use torches on or near combustible materials.
- Inspect equipment daily.
- Secure cylinders in a level, upright position. DO NOT invert or lay cylinders on their sides.
- Use only vapor equipment on cylinders equipped with vapor withdrawal valves. Use only liquid equipment on cylinders designed for liquid withdrawal. DO NOT invert vapor cylinders to dispense liquid.
- DO NOT apply flame to cylinders to increase pressure.
- DO NOT operate torches or any equipment if the odor of LP Gas (butane/propane) is evident. Immediately shut off all valves and, using soapy water, check all equipment for leaks.
- LP Gas (butane/propane) is heavier than air which causes it to accumulate in low areas. Check low areas for accumulation and ventilate. Be certain all work areas are well ventilated.
- Keep torches, open flame, and sources of ignition away from cylinders, regulators, and hose.
- Cylinder valves must be protected. DO NOT hoist cylinder by the valve.
- Gloves should be used at all times. Long sleeves, long pants, and boots are recommended.
- Never leave a lighted torch unattended.
- For more detailed information, consult your local LP dealer, Flame Engineering, NPGA, NRCA, or NFPA Pamphlet 58. This information is provided as a general guide for safe LP-Gas use and in no way constitutes a complete safety program.

### Daily Equipment Check List

- Be sure you have a fire extinguisher (type ABC) on the job, easily accessible to each worker.
- Check LP cylinders for dents, damage to collar, damage to valve or corroded footing. Never hoist a cylinder by the valve. Secure cylinders in an upright position. Know whether you are using LIQUID or VAPOR WITHDRAWAL.
- Visually inspect all parts for damage and wear.
- Using soapy water, check all connections and fittings for leaks. DO NOT use match or open flame.
- Ignite torch. Check operation of valve and other adjustable parts.

## PROPANE DATA

### Properties of Propane:

Chemical Formula	C <sub>3</sub> H <sub>8</sub>
BTU per Gallon (Vaporized)	91,690
BTU per Pound	21,591
Weight per Gallon of Liquid	4.23
Vaporization Temperature	-44°F
Specific Gravity - Vapor (Air=1)	1.53
Specific Gravity - Liquid (Water=1)	0.51
Vaporization Rate (Liquid to Vapor)	272:1

### Combustion Data

Limits of Flammability, % of Gas in Air	2.3% to 9.5%
Air required to burn 1 Cu Ft Vapor	23.5 Cu Ft
Oxygen required to burn 1 Cu Ft Vapor	4.9 Cu Ft
Ignition Temperature	920-1020°F
Optimum Flame Temperature	3500°F
Vapor Pressure at 0° F	28 PSI
Vapor Pressure at 70° F	122 PSI
Vapor Pressure at 100° F	190 PSI

## SAFETY NOTES:

- When extinguishing a torch, shut off cylinder valve and allow gas to burn out of lines.
- Be certain to comply with all safety guidelines and local ordinances regarding the use of an open flame.
- Please contact Flame Engineering, your local LP-Gas dealer or fire officials if you have questions regarding proper operating procedures & safety guidelines.

## CAUTION:

- Propane is heavier than air which causes it to accumulate in low areas. Be certain all areas are well ventilated.**
- Propane has a distinct odor. If you smell it, immediately discontinue work, extinguish all flames, find the leak and correct it.**

## WARNING:

**Use extreme caution at all times. You are using an intense open flame. Disregard of safe practices can result in severe fire damage, serious personal injury or death.**

### DO NOT OPERATE THIS EQUIPMENT IF:

- You are subject to seizures, loss of consciousness, or fainting.
- You have been drinking alcohol, using illicit drugs, or prescription drugs that might effect your judgment or balance.
- You have not read or do not understand the operator's manual.
- You are not capable of safely operating this type of equipment.

**DO NOT ALLOW CHILDREN TO OPERATE THIS EQUIPMENT.**

## Additional Information for Distributors, Dealers and Customers

Dear Customer,

Within this catalog you'll find the most complete line of propane torches, heaters, agricultural flammers and leisure products to be found anywhere. Whether your needs are vapor or liquid, big or small, conventional or unconventional, we've got the products, staff and experience to assist you. This is our general line catalog. We also offer a separate roofing catalog. In addition, we now have full color brochures which include the agricultural equipment, construction heaters and leisure products. These brochures are very good sales tools so please don't hesitate to call if you need them. In addition, we encourage our distributors to take advantage of our co-op advertising program and extensive photography file available. Need a custom printed sales piece? Just give us a call. Thank you for choosing Red Dragon® Products.



### CSA Certified Products

Many Red Dragon® Products are CSA Certified. CSA International (formerly the American Gas Association and Canadian Gas Association) is an independent testing laboratory specializing in LP and Natural Gas Equipment for the United States and Canada. Flame Engineering was the first torch manufacturer to receive both American Gas Association and Canadian Gas Association certifications.



### OUR MISSION:

Flame Engineering, Inc. will provide safe, durable, American made quality products with support prior to and after the sale from our highly knowledgeable staff. We will create and maintain positive relationships while setting the standard for the industry as a visionary, with dedication and loyalty at every level of the organization.



### Green Statement:

Flame Engineering, Inc. actively provides and promotes safe, sustainable products produced in an environmentally conscious work place supporting healthy surroundings by conserving, recycling and maintaining stewardship to the planet for the well-being of current and future generations.

[www.FlameEngineering.com](http://www.FlameEngineering.com)

Be sure to visit our web site and find much more information, download video demos, download product instruction manuals, order Red Dragon® Torches and Equipment from our secure shopping cart and much more.

## Order Information, Terms and Conditions

### PRICING POLICY

Prices are subject to change without notice. Prices charged will be those in effect at the time of order. Please call for a current price sheet.

### SELLING POLICY:

Possession of our price list or discount sheet is not an offer to sell. All orders are subject to acceptance by the home office at LaCrosse, Kansas.

### WARRANTY:

We warrant all goods to be free of defects in material and workmanship. We repair or replace defective merchandise returned upon authorization. DO NOT return goods without consent. Warranty does not apply to items altered or subjected to misuse or negligence.

### PRODUCT CHANGES:

Flame Engineering, Inc. is constantly at work improving products. Therefore, in order to incorporate new engineering advances, we reserve the right to alter model designs and to change weights and specifications. Flame Engineering, Inc. shall not be required to modify equipment already sold or in service.

### FREIGHT POLICY:

See current price lists for freight policy. Customers from Alaska, Hawaii and foreign countries will be allowed full freight only to the embarkation point and only if other requirements are fulfilled. We reserve the right to ship the most economical way.

### RESTOCKING CHARGES:

No merchandise may be returned for credit without the sellers prior approval, and only with transportation charges prepaid. A 15% minimum restocking charge will be deducted from any credit issued.

### PAYMENTS:

See current price list for payment terms and conditions. The seller reserves the right to ship C.O.D. while credit is being confirmed. Payment to be made only in U.S. currency.

### PAST DUE ACCOUNT:

No shipments will be made to past due accounts. A service charge will be made on all past due invoices. Please refer to current price list for specific rate.

### CLAIMS, SHORTAGES, AND DAMAGE:

Any claims for shortages or goods damaged in transit must be made within 10 days after receipt of the merchandise. All claims should be made to the delivering carrier by the consignee.

### IMPORTANT NOTICE:

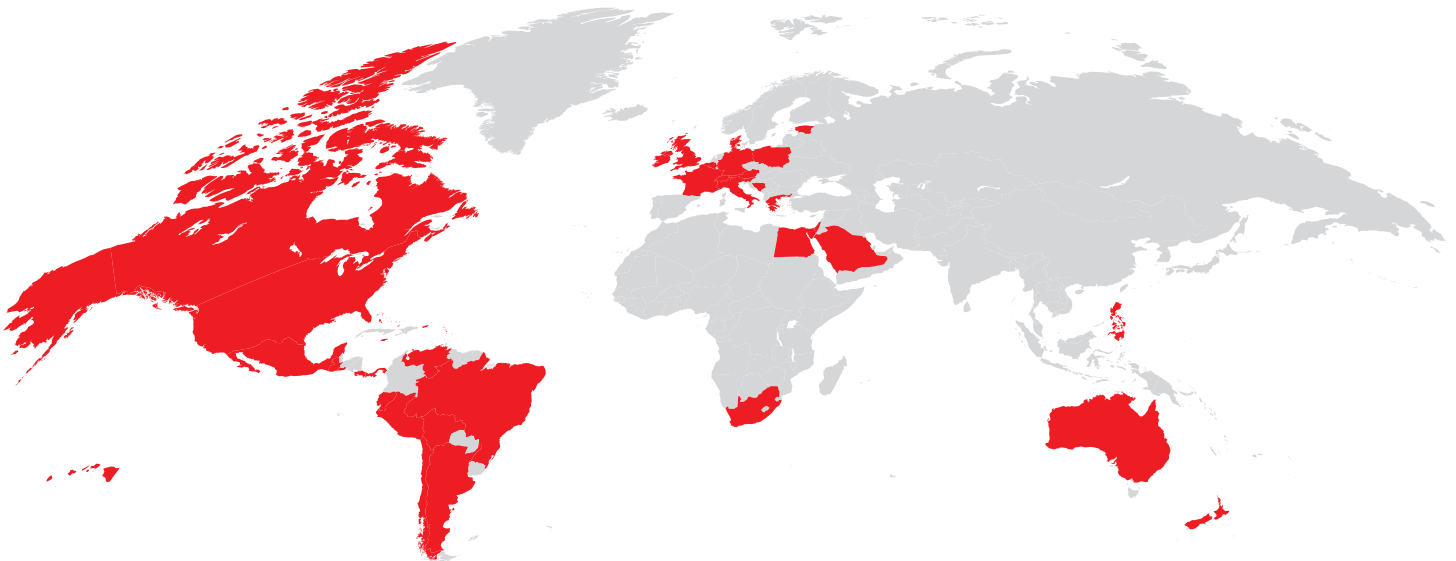
Should a product prove to be defective or unsuitable in any way, it is understood that Seller's and Manufacturer's limit of liability for all damages, including but not limited to incidental or consequential damages, shall be to repair defective product, to provide equivalent quantity of replacement product, or to refund the purchase price.

**By placing an order with FLAME ENGINEERING, INC. for Red Dragon® Products, you accept these terms and conditions.**

**Flame Engineering products are sold in every state.**



**Countries that we currently service are highlighted in red.**



- |            |             |             |                      |
|------------|-------------|-------------|----------------------|
| Argentina  | Denmark     | Ireland     | Puerto Rico          |
| Australia  | Ecuador     | Israel      | Saudia Arabia        |
| Austria    | Egypt       | Italy       | Scotland             |
| Bahamas    | El Salvador | Jamaica     | Serbia               |
| Barbados   | Estonia     | Mexico      | Slovenia             |
| Belgium    | France      | New Zealand | South Africa         |
| Bolivia    | Germany     | Panama      | Switzerland          |
| Brazil     | Greece      | Peru        | United Arab Emirates |
| Canada     | Guam        | Philippines | United Kingdom       |
| Chile      | Guatemala   | Poland      | Venezuela            |
| Costa Rica |             |             |                      |



*Flame Engineering is celebrating nearly two decades of safety and health performance with continued recognition in OSHA's Safety and Health Achievement Recognition Program!*

## **We Stand Behind Our Products 100%!**

*At Flame Engineering, Inc., we take pride in the quality and craftsmanship which becomes part of each and every product we manufacture. All torches are individually tested before leaving the facility to ensure safe and dependable use. In the unlikely event that you are unsatisfied with a product, for any reason, please call our toll-free number immediately and receive prompt assistance and satisfaction.*

*Thank you for choosing Red Dragon® Products.*

**1-800-255-2469**

**[www.FlameEngineering.com](http://www.FlameEngineering.com)**



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