

MPRO FLARE TIP

SMOKELESS TIP

START



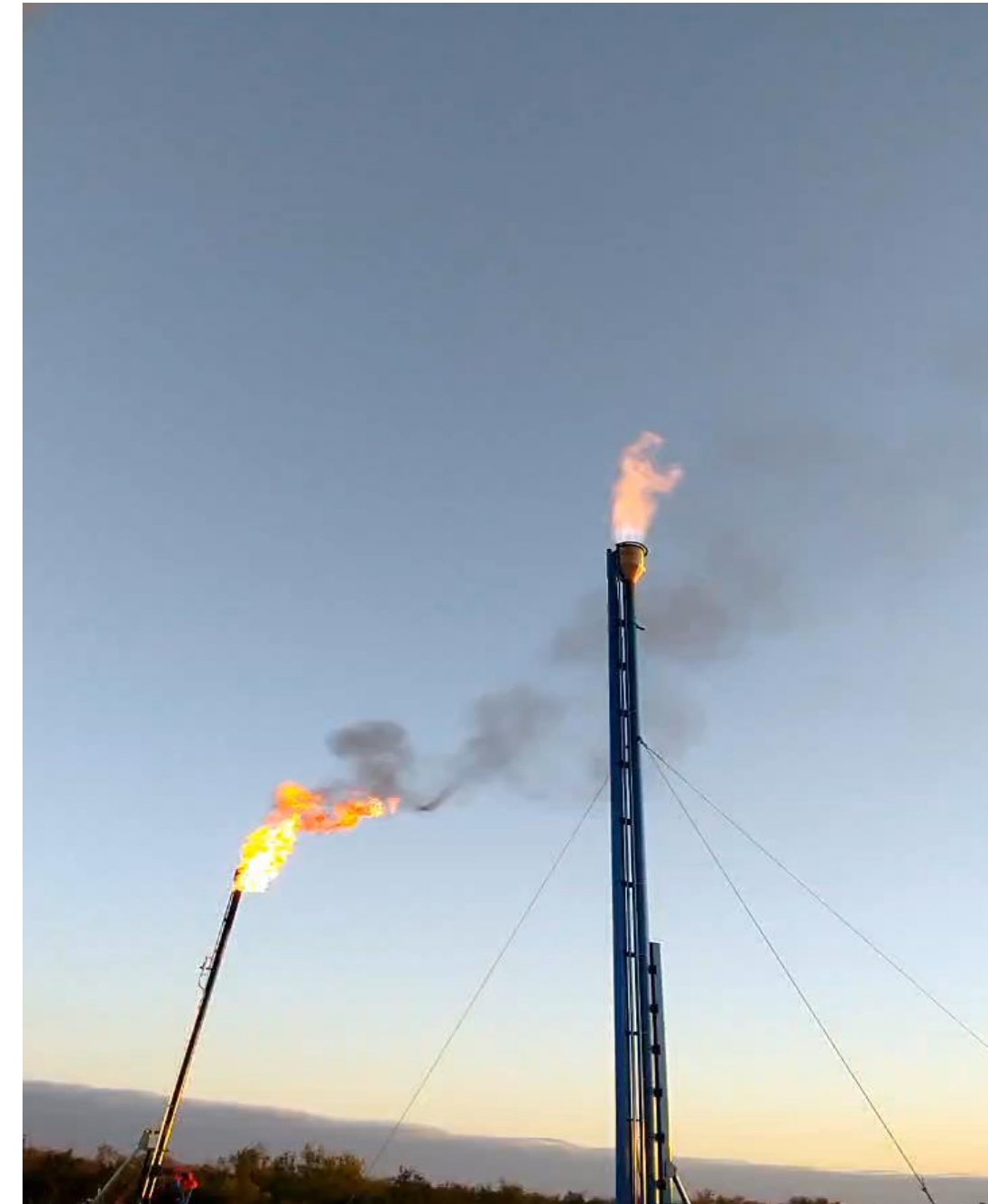
THE CLEAN BURNING SOLUTION

Liberty's patented flare tip design enhances combustion zone efficiency and optimizes air/fuel mixing to refine flame geometry and eliminate smoke formation.

"No smoke, No raining down fire."

Comparing two flames

The other guys



Liberty MPRO

RETROFIT OPTIONS

Flare System Retrofit Services

Liberty Combustion Technologies offers comprehensive retrofit services designed to optimize existing flare systems, ensuring compliance, safety, and efficiency.

Our retrofit solutions include

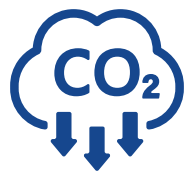
-  Flare System Assessment
-  Flare and Pilot Upgrades
-  Piping and PSV Evaluation
-  Customized Solutions
-  Cost-Effective Compliance
-  Future Expansion Planning

Contact us today to schedule your on-site assessment and learn how LCT's retrofit services can enhance the safety and efficiency of your combustion systems.



MPRO FLARE TIP DESIGN

ENVIRONMENTAL IMPACT



Reduced Carbo Emissions

Improved combustion zone efficiency for both dry gas and liquid service.



Reduces & Eliminates Smoke

Enhanced air/fuel mixing effectively reduces and eliminates smoke formation.



Reduced Radiant Heat

Reduces radiant ground heat by 50%.*



Less Ambient Noise

Reduces ambient noise levels by 40%.*



Space Efficiency

Eliminates the need for additional equipment, such as knockout drums or separators.

*when compared to traditional flare tips

KEY FEATURES OF THE MPRO FLARE TIP DESIGN



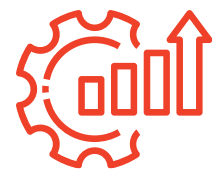
Environmental Statement

Liberty Combustion’s Standard HV-6 Model is Quad-O and designed in compliance with 40 CFR 60.18 and 30 TAC 106.492, and when operated according to PSS’ operation procedures, will achieve the listed destruction efficiencies.

Flare Tip Height	36"
Flare Tip Diameters	38"-46"
Main Riser	4", 6", 8" & 10"
Forced Air	8"
Assist Gas	1" 2" 3"
Max Flow Capacity (Gas) Max Flow (Liquid)	6" 50 mmscf/d 6" 3.8 bbls/pm
Air Blower Capacity	5,000 - 15,000 scf/pm
Pilot Flow Gas Rate	25 SCF/HR 28,950 btu/hr *assuming propane as fuel
Exit Velocity at Max Flow Rate	165 - 225 ft/s
Destruction Efficiency Ethylene and Propylene Other Products:	99.5% 98.9%
Propane or LPG Pilot with Control Panel, Thermocouple with Temperature Read Out	

FLARING LIQUID BUTANE

Flaring Liquid Butane @ 3.5 bpm



MPRO Tip Advantages for Flaring Liquid Butane

The MPRO tip flares liquid butane safely and cleanly by vaporizing any liquid before it exits, eliminating carry-over and fire hazards to the surrounding area.



BENEFITS OF THE MPRO TIP FOR FLARING NATURAL GAS



Reduced Radiant Heat

The flare tip and shroud design decrease radiant ground heat by 40% compared to traditional flare tips.



Lower Noise Levels

The flare tip reduces ambient noise levels by 40% compared to traditional flare tips.



MPRO @ 90 MMSCF/D



MPRO @ 30 MMSCF/D

FLARING SOUR WET GAS

Flare tip/shroud design reduces radiant ground heat by **40%** as opposed to traditional flare tips.

Flare tip reduces ambient noise levels by **40%** as opposed to traditional flare tips.



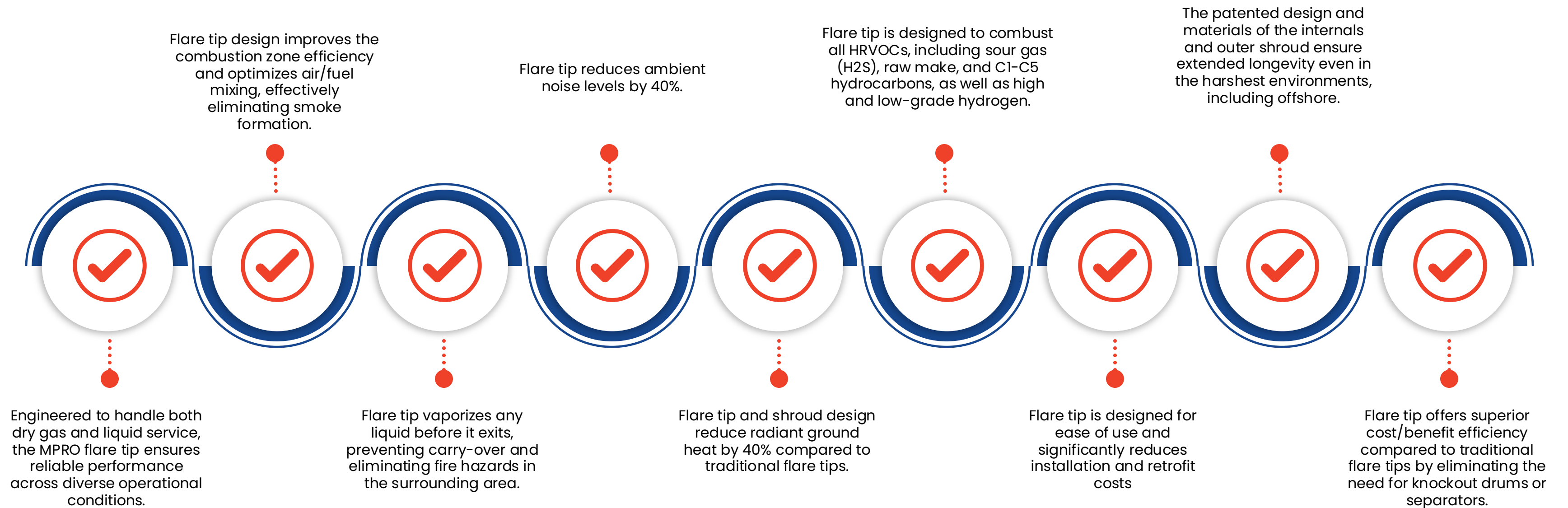
FLARING LIQUID PROPANE

Flaring Liquid Propane @ 2 bpm

The MPRO tip flares liquid propane safely and cleanly.



ADVANTAGES OF THE MPRO FLARE TIP DESIGN





SERVICE UNITS



Safe Delivery

Our flare service units are transported safely and securely, with thorough inspections conducted prior to every installation and job to ensure optimal performance.



Quality Installation

Our flare service unit installations meet stringent quality standards and are performed by trained, qualified technicians with all necessary certifications and approvals.



Controlled Performance

Unlike traditional gas flares that produce a large open flame, our flares utilize a patented combustion process, burning gas and liquid with improved flame geometry.

Fully insured ASME-certified third-party contractors handle installations, with Liberty personnel providing oversight.

All MPRO Flare Tips Custom Designed for Your Project

Schedule a meeting or a demonstration to learn more about how we can bring your sites up to EPA compliance levels.

Explore Our Retrofit and Lease Purchase Options

Contact us to discuss retrofit and lease purchase options tailored to your specific conditions.

Access Our Independent CE/DRE Test Results Here

www.lctflare.com/hsse

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