



Colorado Springs Fire Department

LP Gas for Temporary Use

CONTRACTOR PERMIT APPLICATION



LP GAS / PROPANE

GENERAL REQUIREMENTS

- Emergency controls shall be conspicuously marked, and controls shall be located to be readily accessible in emergencies.
- Roads and other means of access for emergency equipment, such as fire department, shall be provided.
- Portable containers are allowed to be used inside buildings undergoing construction for temporary heat where such buildings are not occupied by the public.
- Containers shall be located to comply with IFC Table 3804.3 for clearance to other containers, buildings, public ways, or adjacent properties.
- NO SMOKING signs shall be posted on all tanks, and smoking shall be prohibited within 25 feet of cylinder storage locations.
- Weeds, grass, brush, trash and other combustible materials shall be kept at least 10 feet from LPG tanks or containers.
- Fire extinguishers with a minimum rating of 40BC shall be installed with 75 feet of all tank and container installations.
- When exposed to vehicular damage, LPG containers, regulators and piping shall be protected by guard posts. The post shall be constructed of 4 inch concrete filled posts, spaced not more than 4 feet between posts, set at least 3 feet deep in 15 inch diameter footers, extend at least 3 feet above the ground, and shall not be located less than 5 feet from the tank.
- Liquefied petroleum gas shall not be used for the purpose of operating devices or equipment unless such device or equipment is approved for use with LP-gas.
- Warning labels shall include information on the potential hazards of LP gas including but not limited to: "FLAMMABLE," "LP-GAS," "PROPANE," "NO SMOKING."
- Containers shall located with respect to special hazards such as above-ground flammable or combustible liquid tanks, oxygen or gaseous hydrogen containers, flooding or electric power lines as specified in NFPA 58, Section 3.2.2.6.

TENTS

- LP-gas containers shall be located outside. Safety release valves shall be pointed away from the tent, canopy or membrane structure.
- Portable LP-gas containers, piping, valves and fittings which are located outside and are being used to fuel equipment inside a tent, canopy or membrane structure shall be adequately protected to prevent tampering, damage by vehicles or other hazards and shall be located in an approved location.
- Portable LP-gas containers shall be securely fastened in place to prevent unauthorized movement.
- Portable LP-gas containers with a capacity of 500 gallons or less shall have a minimum separation between the container and structure not less than 10 feet.
- Portable LP-gas containers with a capacity of more than 500 gallons shall have a minimum separation between the container and structures not less than 25 feet.



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HEAT PRODUCING EQUIPMENT

- Open flame or other devices emitting flame, fire or heat or any flammable or combustible liquids, gas, charcoal or other cooking device or any other unapproved devices shall not be permitted inside or located within 20 feet of the tent, canopy or membrane structures while open to the public unless approved by the fire official.
- Cooking and heating equipment shall not be located within 10 feet of exits or combustible materials.
- Gas, liquid and solid fuel-burning equipment designed to be vented shall be vented to the outside air as specified in the International Fuel Gas Code and the International Mechanical Code. Vents shall be equipped with approved spark arresters when required. Where vents or flues are used, all portions of the tent, canopy or membrane structure shall be not less than 12 inches from the flue or vent.
- Heaters used for temporary heat shall remain at least 6 feet away from any cylinder.
- Blower type or radiant type units shall not be directed toward any cylinder within 20 feet.
- Heat producing equipment shall be installed with clearance to combustibles in accordance with the manufacturer's installation instructions and shall be located to minimize the potential of ignition of combustibles.

Portable Heaters:

- Shall be equipped with an approved automatic device to shut off the flow of gas to the main burner and to the pilot, if used, in the event of flame extinguishment or combustion failure.
- Shall be self supporting unless designed for cylinder mounting.
- Having an input of more than 50,000 Btu/hr shall be equipped with either a pilot that must be lighted and proved before the main burner can be turned on or an approved electric ignition system
- Shall NOT be installed using cylinders, cylinder components, regulators, connections, piping or tubing as structural supports.

SUBMITTAL CHECKLIST

- Completed LP Gas for Temporary Heat Permit Application form.
- Detailed site diagram showing: distances in feet and North arrow, tent(s), LPG containers, heaters, vehicle traffic/access, vehicle protection, security and protection of containers, distances of containers to tent(s) heaters, and other structures or exposures, fire extinguisher(s), signs and labeling.
- Provide heater manufacturer specifications; shall be listed or approved device.
- Permit application requires LP-Gas amounts reported in: number of containers, pounds per container and water capacity in gallons per container, and total aggregate water capacity in gallons. Greater than 125 gallons requires permit.
- A Permit inspection shall be conducted. Contact the CSFD @ (719) 385-5978 to schedule a permit inspection. Permit inspection fee is required.



Colorado Springs Fire Department Liquid Petroleum Gas (LP Gas) for Temporary Use CONTRACTOR PERMIT APPLICATION



CLIENT INFORMATION

Business Name: _____ Daytime Phone: _____
 Business Address: _____ After-hours Phone: _____
 City, State, Zip: _____ Fax Number: _____

INSTALLER INFORMATION

Business Name: _____ Daytime Phone: _____
 Business Address: _____ After-hours Phone: _____
 City, State, Zip: _____ Fax Number _____
 Contact Person: _____ After-hours Phone: _____

TEMPORARY LP GAS HEAT INSTALLATION LOCATION INFORMATION

Business Name: _____
 Installation Address: _____
 City, State, Zip: _____
 Location on Property: _____

SUBMIT DETAILED SITE DIAGRAM WITH LPG AND HEATERS; TO SCALE IN FEET

Number of Tanks or Cylinders	Size of Tanks or Cylinders (Pounds)	Size of Tanks or Cylinders (Gallons W.C.)	Total LPG (Gallons W.C)	Number of Heaters	BTU of Heaters

Date(s) planned for Temp LPG Heat **Installation:** _____
 Date(s) planned for Temp LPG Heat **Use:** _____
 Date(s) planned for Temp LPG Heat **Removal:** _____

For Office Use Only

Date: _____ Permit #(s) _____
 Permit Fee _____ Receipt # _____
 Plan Review No: _____



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REFERENCE LP-GAS CONVERSIONS

DOT CYLINDER CONVERSION

TYPE	POUNDS (Propane Capacity)	GALLONS (Propane Capacity)	POUNDS (Water Capacity)	GALLONS (Water Capacity)
Stationary	420	99	1000	119
Stationary	300	71	715	86
Stationary	200	47	477	57
Stationary	150	35	357	43
Exchange	100	24	239	29
Exchange	60	14	144	17
Motor Fuel	33.5	8	88	9.6
Portable	40	9.5	95	11
Portable	20	4.7	48	5.7
Portable	5	1.2	12	1.4

(source: NFPA 58, Table 5.1) Based on 80% fill limit