



KURT P. HENKE  
Fire Chief

# Sacramento Metropolitan Fire District

## Community Risk Reduction Division

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## REFRIGERATION SYSTEM CHECKLIST

California Fire Code Chapter 6

### Scope

An operational permit is required for mechanical refrigeration units or systems.

### Conditions:

- Access is provided to units or systems in excess of 220 pounds of Group A1 or 30 pounds of any other refrigerant group.
- Minimum 3 foot clear access is provided and maintained on 2 sides of refrigeration equipment at refrigerant machine room.
- Units or systems in excess of 220 pounds of Group A1 or 30 pounds of any other refrigerant group are tested and documentation is provided.
- Hazard identification (i.e. NFPA 704 placard) is provided on containers, tanks and building entrances where units or systems are in excess of 220 pounds of Group A1 or 30 pounds of any other refrigerant group.
- Exits at refrigeration machine room are equipped with panic hardware, accessible and maintained.
- Open flame devices are not located in refrigerant machine room.
- Refrigerant vapor detection and alarm system is installed and maintained.
- Refrigerant equipment and appliance remote control, emergency shut-off and ventilation control and purge is provided, accessible and maintained.
- Mechanical ventilation is provided and maintained.
- Mechanical ventilation exhaust discharge is located 20 feet from property lines or building openings.
- Emergency pressure control and automatic emergency stop is provided at systems with more than 6.6 pounds of ammonia or flammable, toxic or highly toxic refrigerant.
- Discharge system for units with more than 6.6 pounds of flammable, toxic or highly toxic refrigerant is provided and maintained.
- Refrigerant piping is approved, Underwriter's Laboratory (UL) listed for use with proposed refrigerant and supported every 15 feet, within 6 feet of the first bend and within 2 feet of subsequent bends.

- Refrigerant piping is protected from damage and marked with the content name and direction of flow at 20 foot intervals and at each valve, change of direction and at wall, floor, or ceiling penetrations.
- Flammable and combustible materials are not stored in refrigerant machine room.
- Class I, Division 1 electrical and electrical equipment is provided at Group A2, A3, B2 or B3 refrigerant machine rooms.
- 4A:80B:C rated fire extinguisher(s) is provided and travel distance does not exceed 50-feet.

Additional Requirements may apply.