



Sacramento Metropolitan Fire District

Community Risk Reduction Division

www.metrofire.ca.gov

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REFRIGERATION SYSTEM CHECKLIST

California Fire Code Chapter 6 Section 606
California Mechanical Code Chapter 11

Scope

An operational permit is required to operate a mechanical refrigeration unit or system.

Mechanical Refrigeration

Conditions:

- Access is provided to units or systems in excess of 220 pounds of Group A1 or 30 pounds of any other refrigerant group. (CFC 606.5)
- 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. (CFC 606.6)
- 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. (CFC 606.7)
- Refrigerant vapor detection and alarm system is installed and maintained. (CMC 1105.3.1)
- Refrigerant equipment and appliance remote control, emergency shut-off and ventilation control and purge is provided, accessible and maintained. (CFC 606.9)
- Mechanical ventilation is provided and maintained at machinery rooms (CMC 1108.2)
- Mechanical ventilation exhaust discharge is located 20 feet from property lines or building openings. (CMC 1108.7)
- 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. (CFC 606.10/606.10.2)
- Discharge system for units with more than 6.6 pounds of flammable, toxic or highly toxic refrigerant is provided and maintained. (CFC 606.12)

- Refrigerant piping is approved for use with proposed refrigerant and supported every 15 feet, within 6 feet of the first bend and within 2 feet of subsequent bends. (CMC 1110/1111)
- 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. (CMC 1111.3/1111.8)
- Flammable and combustible materials are not stored in refrigerant machine room. (CFC 606.11)
- Class I, Division 1 electrical and electrical equipment is provided at Group A2, A3, B2 or B3 refrigerant machine rooms. (CFC 606.16)
- 4A:80B:C rated fire extinguisher(s) is provided and travel distance does not exceed 50-feet. (CFC 906)

Additional Requirements may apply.