

110000 – EQUIPMENT

I. DESIGN

A. Clothes Washers and Dryers



1. Specify **electric** clothes dryers, subject to using Agency concurrence. Voltage for clothes dryers shall be 208/277.
2. Coordinate voltages for washing machines and dryers between electrical plans, specifications, schedules, and disconnects.
3. Commercial washing machines and dryers must be bolted to a minimum of a 4” level concrete pad; and must be provided with vibration isolators, as required. Any washing machines which are to be located on an elevated, structural slab must be analyzed for harmonic impacts in conjunction with the structural plans, and the appropriate vibration isolation or dampening provided.
4. Coordinate design of fresh air intake and exhaust flues for dryers with dryer manufacturer.



5. **All dryer vents shall be located no higher than 8 feet from the access level (ground or flat roof surface) and have clear access (no trees or shrubs blocking access).**

B. Direct exhaust fumes away from air conditioning intakes.

C. Kitchen Equipment



1. Equipment plans for any kitchen equipment must be closely coordinated with electrical power drawings to ensure consistency between power requirements and power provided. Use **electric** kitchen appliances, subject to using Agency concurrence.

D. Ranges



1. **When gas fired range is required**, they shall use an electric spark ignition – no standing pilot lights.
2. Provide 30” ADA pull-in access adjacent to range.

E. Type I Kitchen Hoods

1. A heat sensor shall serve as an interlock between the kitchen hood exhaust fan and the cooking appliances to automatically activate the exhaust hood system whenever cooking operations occur.

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2. Any make-up air systems that are required for the hood exhaust system shall be interlocked with the kitchen hood exhaust fan to automatically operate whenever the exhaust fan is energized.



3. **When gas fired appliances are required**, a solenoid valve shall serve as an interlock between the gas piping supplying the cooking appliances below the kitchen exhaust hood and the hood fire suppression system, to automatically activate gas shutoff in the event of a fire. The valve installation shall meet the Fire Marshal requirements.

4. Electric ranges shall comply with similar ventilation requirements as noted for gas ranges.

F. All fixed equipment and appliances shall be high-energy efficiency and carry the Energy Star® label, where available.

G. Dividing Partitions

1. Design of dividing partitions in meeting rooms must be carefully reviewed to accommodate life safety requirements for exiting from all areas as required.

2. Use of automatically operated partitions is acceptable however, must be reviewed with the using agency based on the room conditions to determine if necessary for the size and height of the room. The physical convenience of the day-to-day users/operating staff usually determines the need for automatically operated partitions in lieu of the manually operated ones.

a. Police Facilities

There is no strong intention to use automatic partition for police facilities. Police staff are physically capable of operating manual ones.

b. Library

There is a desire for automatic partition since some users might have difficulties manually open/close them.

c. NCS/Community Center

There is a desire for automatic partition since some users might have difficulties manually open/close them.

d. Stormwater/Wastewater

There is a desire for automatic partition since some users might have difficulties manually open/close them.

3. Safety Features of Automatically Operated Partitions

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- a. Control Stations
Provide two (2) single-key-operated, constant-pressure control stations or two (2) Code Protected Touch Pads, with one at opposite end of the partition, which shall be simultaneously activated in order to operate the partition.
- b. Pressure Sensitive Leading Edge
Provide contact pressure sensitive safety edge along partition's leading edge so that as little as 9 lbf of force applied to the leading edge will stop the forward motion.
- c. Obstruction Detection Devices
Provide obstruction detection devices such as Infrared obstruction detectors, at each side of the partition to stop the partition movement if people or objects are detected in the path of the partition.
- d. Weight Sensitive Floor Mat
Provide weight sensitive floor mat in the storage/stacking area to stop partition movement with as little as 5 lbs of weight applied to the mat.
- e. Signage
Post a laminated sign on how to safely and properly operate that particular partition. The sign must be posted at all electric operating stations, along with a strong warning of injury or possible death on the sign as well as the inspection certificate.



H. ~~Security Systems~~ - *Moved to new section 280000 Electronic Security and Safety*

II. PRODUCTS



A. *Electronic Security products moved to new section 280000 Electronic Security and Safety*