PART 1  GENERAL

1.01  SECTION INCLUDES

A. Lab Equipment:
   1. Fume Hoods
   2. Ice Maker
   3. Lab Glassware Washers
   4. Acid Storage Cabinet
   5. Flammable Storage Cabinet
   6. Goggle Cabinet

1.02  QUALITY ASSURANCE

A. All equipment shall be UL rated. Provide each type of equipment from a single manufacturer, and to the extent possible, provide all equipment by a single manufacturer.

PART 2  PRODUCTS

2.01  MATERIALS

A. Fume Hoods
   1. Labconco (or equivalent) pass through, with Air, Gas, Hot and Cold water and built in cup sink.
   2. Pre-wired and plumbed for gas, hot/cold water, compressed air, electrical outlets and vapor sealed light fixture and switch.
   3. Back-flow prevention device shall be installed on the outside of the cabinet.
   4. Base cabinet must have ADA forward approach on classroom side.
   5. All power outlets and switches shall be located on the exterior face of the hood (not internal).
   6. Internal hood lights shall be fitted with vapor seal lenses.
   7. Minimum velocity – 100 fpm, maximum velocity - 120 fpm
   8. Locate 10 feet from building air intake or building openings.
   9. Vertical sash design.

B. Ice Maker

C. Lab Glassware Washers

D. Acid Storage Cabinets:
   1. 15 gallon minimum acid cabinet.
   2. All steel construction with integral reservoir base.
      a) Chemical resistant, baked-on enamel coating
      b) Interior polypropylene lining
   3. Locking doors
   4. Chemical spill reservoir
   5. Acid resistant shelving
   6. Self-closing doors
   7. OSHA and NFPA-30 approved
8. Separate poly cube to be provided for nitric acid storage.

E. Flammable Storage Cabinets:
   1. 43” x 18” x 44”
   2. 30 gallon minimum size flammable cabinet.
   3. 4-gallon flammable cabinet to be provided where ammonia nitrate is used (typically high schools)
   4. All steel construction with integral reservoir base.
   5. Self-Closing locking doors.
   6. Spill reservoir.
   7. OSHA and NFPA-30 Approved.

F. Goggle Cabinets:
   1. 28½" H × 26¼" W × 10¼" D
   2. Store minimum of 36 pairs of goggles.
   3. Wall mounted.
   4. 15 minute timer.
   5. OSHA and NFPA-30 Approved.

PART 3 EXECUTION

3.01 INSTALLATION

A. Laboratory equipment shall be installed in accordance with manufacturer’s instructions.

END OF SECTION 11 53 00