Lab Sketchbook - 2nd Floor Biology
Science Building
Saddleback College
2011 December 08
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LABS ARE ORDERED WEST TO EAST

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This second draft of the Design Development Lab Design Sketchbook for the 2nd floor biology labs contains basic plan layouts of each different lab or lab support room. All electrical and plumbing outlets/fixtures are noted. This draft includes revisions based upon faculty review comments received on Dec 02, 2011.

A wood casework system with bamboo veneer is anticipated for the lab cabinets. Dark green epoxy resin tops in the teaching labs and black epoxy tops in the prep/store areas will be provided.

A third draft will be issued in the near future which will include interior section details and selected casework elevations.

Glen Berry, AIA NCARB
Principal
Design for Science
MICROBIOLOGY LABORATORY

ARCHITECTURAL
Occupancy: B; Number of students: 28
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10’ acoustic tile; Doors: 33”x8” with window
Acoustic Attenuation: NC 40 or less
Clerestory window at east (atrium) wall
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/‐ 2 deg. F
100% exhaust - no recirculation of air; Exhaust on emergency power supply
(6) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 50 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
(1) duplex per student at islands
Standby/dedicated outlets (s/d) at equipment spaces
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Infrared HW/CW faucet at one (1) sink
Purified water (PW) at 2 sinks
Natural gas at islands
Natural gas and vacuum at perimeter
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework - base cabinets, wall cabinets, tall cabinets
Ventilated tall storage cabinets- 100 c.f.m. per cabinet
Resin tops and sinks
Faucets & fittings
Writing board; Smart boards
Biological safety cabinet: Class II Type A2, VAV with thimble exhaust connection
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Refrigerators
Incubators

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MICROBIOLOGY

ARCHITECTURAL
Occupancy: B
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10' mylar acoustic tile
Doors: 3'x3' with window
Acoustic Attenuation: NC 40 or less
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air
Exhaust on emergency power supply
-6 air changes per (exhaust at ceiling) hour occupied
-4 air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat Gain: 50 btuh/ft²

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
208v/30a/1ph at equipment space
V/d = standby power, dedicated circuit
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
Task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Pure water (PW) at sinks
Gas, vacuum, at island
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework - base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Biological Safety Cabinet - Class II Type A, VAV with thimble exhaust connection

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Refrigerators
Incubators
PHYSIOLOGY LABORATORY 227

ARCHITECTURAL
Occupancy: B; Number of students: 28
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10' acoustic tile; Doors: 3'-0" with window
Acoustic Attenuation: NC 40 or less
Clerestory window at east (atrium) wall
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust - no recirculation of air
-6) air changes per (exhaust at ceiling) hour occupied
-4) air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 50 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
(1) duplex per student at islands
Standby/dedicated outlets at equipment spaces
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Infrared HW/CW faucet at one (1) sink
Pure water (PW) at 2 sinks
Natural gas at islands
Natural gas and vacuum at perimeter
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework - base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Writing board; Smart boards
Biological safety cabinet - Class II Type A2, VAV with thimble exhaust connection
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Podium

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**BIOCHEMISTRY LABORATORY 226**

**ARCHITECTURAL**
- Occupancy: B
- Number of students: 28
- Floor: rubber tile & base
- Walls: gypsum board and enamel paint
- Ceiling: 10' acoustic tile; Doors: 3'-0" with window
- Acoustic Attenuation: NC 40 or less
- Clerestory window at east (atrium) wall
- Security: key or card key access

**STRUCTURAL**
- Vibration attenuation: 4,000 micro inches/sec or less

**MECHANICAL**
- Hours of operation: 6 am to 11 pm
- Temperature: 68-72 deg. F, +/- 2 deg. F
- 100% exhaust-no recirculation of air; Exhaust on emergency power supply
- (-6) air changes per hour occupied
- (+4) air changes per hour unoccupied
- Provide night setback to (+4) air changes per hour from 11 pm to 6 am
- Pressure: Negative; Humidity: Ambient
- Heat gain: 25 btuh/sf

**ELECTRICAL**
- 110v fourplex and duplex outlets (maximum of four duplex per circuit)
- (-3) fourplex per island
- Standby/dedicated outlets (4/6) at equipment spaces
- Data & Wireless data
- Lighting: indirect fluorescent @ 60 f.c. with multi-level switching task lights below wall cabinets

**PLUMBING**
- Hot/Cold water (HW/CW) at sinks with vacuum breakers
- Infrared HW/CW faucet at one (1) sink
- Pure water (PW) at all sinks
- Natural gas at islands
- Natural gas and vacuum at perimeter
- Domestic water at safety shower/eyewash
- Emer. gas shut off

**CONTRACTOR FURNISHED EQUIPMENT**
- Wood casework: base cabinets, wall cabinets, tall cabinets
- Resin tops and sinks
- Faucets & fittings
- Writing boards; Smart boards
- Chemical Fume Hoods: VAV, 400 c.f.m. exhaust at each hood

**COLLEGE FURNISHED EQUIPMENT**
- Chairs
- Benchtop analytical instruments
- Scientific equipment
- Podium
- Incubator
MAJORS BIOLOGY LABORATORY 225

ARCHITECTURAL
Occupancy: B; Number of students: 28
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10’ acoustic tile; Doors: 3’x6’ with window
Acoustic Attenuation: NC 40 or less
Clerestory window at east (atrium) wall
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-70 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air; Exhaust on emergency power supply
-6) air changes per (exhaust at ceiling) hour occupied
-4) air changes per hour unoccupied
Provide night set back to (6) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 25 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
-3) fourplex per island
-3) Dedicated outlets (s/d) at equipment spaces
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
Task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Infrared HW/CW faucet at one (1) sink
Pure water (PW) at all sinks
Natural gas at islands
Natural gas and vacuum at perimeter
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework- base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Writing board; Smart boards
Chemical Fume Hoods; VAV: 400 c.f.m. exhaust at each hood
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Podium

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PREP ROOM 232

ARCHITECTURAL
Occupancy: B
Floor: rubber tile & base; also consider sealed, ground concrete
Walls: gypsum tile and enamel paint
Ceiling: 10' acoustic tile; Doors: 3'x8' with window
Acoustic Attenuation: NC 40 or less
Light Attenuation: at exterior windows
Clerestory window at exterior wall
Security: key access or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air; Exhaust on emergency power supply
-6 air changes per (exhaust at ceiling) hour occupied
-4 air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am Pressure: Negative; Humidity: Ambient
Heat gain: 25 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
208v/30a1ph at equipment space, dryer, and washer
S/d = standby, dedicated circuit
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING
Hot/Cold water (HW,CW) at sinks with vacuum breakers
Pure water (PW) at 2 sinks
Gas, vacuum, at bench
Cylinder gas manifold inert gas
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework: base cabinets, wall cabinets, tall cabinets
Lane vertebrate museum storage cabinets
Resin tops and sinks
Faucets & fittings
undercounter washer
dryer
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Benchtop analytical instruments
Scientific equipment
Refrigerators
Freezers
AUTOCLAVE ROOM 238

ARCHITECTURAL
Occupancy: B
Floor: sealed, ground concrete
Walls: gypsum board and epoxy paint
Ceiling: 10' gypsum board with epoxy paint
Doors: 3'x8' with window
Acoustic Attenuation: NC 40 or less
Light Attenuation: at exterior windows
Clerestory window at exterior wall
Security: key access or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg, F, +/- 2 deg, F
100% exhaust: no recirculation of air; Exhaust on emergency power supply
(12) air changes per (exhaust at ceiling) hour occupied
(4) air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 75 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
480v60a3ph at autoclaves
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING
Hot/Cold water (HW.CW) at sink with vacuum breakers
Pure water (PW) at sink

CONTRACTOR FURNISHED EQUIPMENT
Phenolic resin casework- base cabinets, wall cabinets
Resin tops and sinks
Faucets & fittings
(2) autoclaves

COLLEGE FURNISHED EQUIPMENT
None
**COLD ROOMS 237**

**ARCHITECTURAL**
Occupancy: B  
Floor: diamond tread stainless steel over 2" insulated panel  
Walls: epoxy powder coat metal insulated panels  
Ceiling: 8' egg crate below insulated panel  
Doors: 30x70 full glass panel  
Security: key access

**STRUCTURAL**
Vibration attenuation: 4,000 micro inches/sec or less

**MECHANICAL**
Hours of operation: 24/7  
Temperature: One room at 4 deg C; One room at 4-40 deg C  
Provide 50 c.f.m. fresh air supply at each room

**ELECTRICAL**
110v duplex outlets - prewired with room panels  
Single point junction box connection at top of insulated box  
standby power  
Wireless data  
Lighting: fluorescent @ 60 f.c. with multi-level switching  
Digital control panels

**PLUMBING**
Water cooled condensers unit at roof  
Condensate drain to floor drain at safety shower

**CONTRACTOR FURNISHED EQUIPMENT**
Cold room units with condensers, evaporators  
stainless steel casework, shelves  
metro shelf unit

**COLLEGE FURNISHED EQUIPMENT**
Benchtop analytical instruments  
Scientific equipment
ARCHITECTURAL

Occupancy: B
Floor: rubber tile & base; also consider sealed, ground concrete
Walls: gypsum board and enamel paint
Ceiling: 10' acoustic tile; Doors: 3'x6' pair with window
Acoustic Attenuation: NC 40 or less
Light Attenuation: at exterior windows
Security: key access or card reader access

STRUCTURAL

Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL

Hours of operation: am to pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air; Exhaust on emergency power supply
-6) air changes per hour at occupied
-4) air changes per hour unoccupied
Provide right set back to air changes per hour from pm to am
Pressure: Negative; Humidity: Ambient
Heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex and duplex outlets (maximum of four duplex per circuit)
208v30a1ph at equipment space
s/d = standby power, dedicated circuit
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING

Hot/Cold water (HW,CW) at sinks with vacuum breakers
Pure water (PW) at sinks
Cold water, gas, vacuum, at fume hood
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT

Wood casework- base cabinets, wall cabinets, tall cabinets
Resin tops and sinks; Faucets & fittings
Chemical Fume Hood- 450 c.f.m. at 4' hood;
All fume hoods VAV (Variable Air Volume)
Corrosive storage cabinets with exhaust per Div. 22
Flammable storage cabinets- no exhaust
task board
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT

Benchtop analytical instruments
Scientific equipment
GENERAL BIOLOGY LAB 221
MIRROR IMAGE FOR 222

ARCHITECTURAL
Occupancy: B; Number of students: 28
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10’ acoustic tile; Doors: 3’ x 8’ with window
Acoustic Attenuation: NC 40 or less
Clerestory window at west (atrium) wall
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air; Exhaust on emergency power supply
- air changes per (exhaust at ceiling) hour occupied
- (4) air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative
Humidity: Ambient

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
(3) fourplex per island
Standby/dedicated outlets (s/d) at equipment spaces
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Infrared HW/CW faucet at one (1) sink
Pure water (PW) at 2 sinks
Natural gas at islands
Natural gas and vacuum at perimeter
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework: base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Writing board; Smart boards
Chemical Fume Hood: VAV; 400 c.f.m. exhaust
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Podium
ANATOMY LABORATORY 223

ARCHITECTURAL
Occupancy: B; Number of students: 28
Floor: rubber tile & base
Walls: gypsum board and enamel paint
Ceiling: 10' mylar acoustic tile; Doors: 3' x 6' with window
Acoustic Attenuation: NC 40 or less
Clerestory window at west (atrium) wall
Security: key or card key access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust- no recirculation of air; Exhaust on emergency power supply
(12) air changes per (exhaust at ceiling) hour occupied
(4) air changes per hour unoccupied
300 c.f.m. low exhaust at each island; max velocity of 900 f.p.m.
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 25 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
(3) fourplex per island
Standby/dedicated outlets (s/d) at equipment spaces
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
Task lights below wall cabinets

PLUMBING
Hot/Cold water (HW/CW) at sinks with vacuum breakers
Infrared HW/CW faucet at one (1) sink
Pure water (PW) at 2 sinks
Natural gas at islands
Natural gas and vacuum at perimeter
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework- base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Writing board: Smart boards
Chemical Fume Hood- VAV; 400 c.f.m. exhaust
Fire extinguisher cabinet
(3) tall specimen storage cabinets- vented 150 c.f.m. per cabinet
Bone box storage base cabinets at perimeter

COLLEGE FURNISHED EQUIPMENT
Chairs
Benchtop analytical instruments
Scientific equipment
Podium
PREP/STORE 231
SPECIMEN 235

ARCHITECTURAL
Occupancy: B
Floor: rubber tile & base; also consider sealed, ground concrete
Walls: gypsum board and enamel paint
Ceiling: 10’ acoustic tile; Doors: 3’6”x8” with window
Acoustic Attenuation: NC 40 or less
Clerestory window at exterior wall
Light Attenuation: at exterior windows
Security: key access or card reader access

STRUCTURAL
Vibration attenuation: 4,000 micro inches/sec or less

MECHANICAL
Hours of operation: 6 am to 11 pm
Temperature: 68-72 deg. F, +/- 2 deg. F
100% exhaust: no recirculation of air: Exhaust on emergency power supply
-6) air changes per (exhaust at ceiling) hour occupied
-4) air changes per hour unoccupied
Provide night set back to (4) air changes per hour from 11 pm to 6 am
Pressure: Negative; Humidity: Ambient
Heat gain: 25 btuh/sf

ELECTRICAL
110v fourplex and duplex outlets (maximum of four duplex per circuit)
208v/30a/1ph outlets at equipment spaces, u.c. washer, and dryer
t/d = standby power, dedicated circuit
Data & Wireless data
Lighting: indirect fluorescent @ 60 f.c. with multi-level switching
Task lights below wall cabinets

PLUMBING
Hot/Cold water (HW,CW) at sinks with vacuum breakers
Pure water (PW) at sinks
Cold water, gas, vacuum at benches
Cylinder gas manifold supply inert gas
Domestic water at safety shower/eyewash
Emer. gas shut off

CONTRACTOR FURNISHED EQUIPMENT
Wood casework: base cabinets, wall cabinets, tall cabinets
Resin tops and sinks
Faucets & fittings
Fire extinguisher cabinet

COLLEGE FURNISHED EQUIPMENT
Benchtop analytical instruments
Refrigerators, freezers
Ice machine
FUME HOOD CUT SHEET

All fume hoods VAV

Org Chem and Inorganic Chem lab fume hoods to have distillation racks

Other acceptable manufacturers include ALC, Thermo Scientific, Kewaunee

**Protector XStream Laboratory Hoods**

All models conform to the following regulations and standards:
- SIRA 12002
- ASHE: 4-2000
- ASME 4-1-2001
- NFPA 1876
- ANSI Z25.5-1999
- UL 600-1988
- CCMC 222-42, 310:1
- UL 1950
- CE (Conformity) Marking for models only

**Characteristics of models**:
- Two in-plumbed service fixtures with large liquid valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water
- Components for connecting either or both fixtures to gas and water are provided
- Total tubing is not pre-pressurized
- One pre-wired 115 volt, 20 amp electrical duplex receptacle on lower right side

All models require (not included):
- Remote Blower. See back pocket
- Ductwork. See back pocket
- Work Surfaces. See pages 92-95
- Base Cabinets or Stand. See pages 96-97

Optional accessories for on-site installation includes:
- Service Entrance Kit. See page 99
- Electrical Duplex Kit. See page 99
- Distribution Grid Kit. See page 100
- Safety Store Kit. See page 101
- Smaller fire extinguishers. See page 101
- Ceiling Enclosure and Base Finish Panels. See page 100

**Ordering Information**

**Protector XStream Laboratory Hood**

**All Exposed CFM and Static Pressure @ 18" Sash Opening (80% open)**

<table>
<thead>
<tr>
<th>Width</th>
<th>sash opening</th>
<th>sash opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ft.</td>
<td>1000 sfc.</td>
<td>500 sfc.</td>
</tr>
<tr>
<td>6 ft.</td>
<td>1200 sfc.</td>
<td>600 sfc.</td>
</tr>
<tr>
<td>7 ft.</td>
<td>1400 sfc.</td>
<td>700 sfc.</td>
</tr>
<tr>
<td>8 ft.</td>
<td>1600 sfc.</td>
<td>800 sfc.</td>
</tr>
</tbody>
</table>

**Total Exposed CFM and Static Pressure @ 28" Sash Opening (100% open)**

<table>
<thead>
<tr>
<th>Width</th>
<th>sash opening</th>
<th>sash opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ft.</td>
<td>1500 sfc.</td>
<td>750 sfc.</td>
</tr>
<tr>
<td>6 ft.</td>
<td>1800 sfc.</td>
<td>900 sfc.</td>
</tr>
<tr>
<td>7 ft.</td>
<td>2100 sfc.</td>
<td>1050 sfc.</td>
</tr>
<tr>
<td>8 ft.</td>
<td>2400 sfc.</td>
<td>1200 sfc.</td>
</tr>
</tbody>
</table>
**Product Specifications**

- **Item Dimensions**: 54.3" w x 31.2" d x 61.4" h
- **Electrical Specification**: 115 volts, 60 Hz, 12 amps, Domestic
- **Protection Type**: Product and Personnel
- **Product Subcategory**: Class II, Type A2 Biological Safety Cabinets
- **Nominal Width**: 4'
- **Electrical Requirements**: Domestic
- **Sash Opening**: 10"
- **Power Cord & Plug**: 115 volts, 15 amps
- **Exhaust Volume**: 339-370 CFM
- **Thimble exhaust connection**
- **Lighting**: Fluorescent, Ultraviolet
- **Service Fixtures**: One
- **Compliance**: NSF, ETL, UL 61010-1, ADA
- **Listing**: NSF, ETL
- **Built In Options**: UV Light, 1 service fixture
**AUTOCLAVE CUT SHEET**

**WILL BE SPECIFIED WITH INTEGRAL ELECTRIC STEAM GENERATOR**

---

**Table 1:ภovement Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Width (in x ft)</th>
<th>Overall Height (in x ft)</th>
<th>Overall Length (in x ft)</th>
<th>Wall Opening Width (in)</th>
<th>Wall Opening Height (in)</th>
<th>Door Opening Width (in)</th>
<th>Door Opening Height (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
<td>12' x 8'</td>
</tr>
</tbody>
</table>

---

**Notes:**

- Right line control using left side mirror shown.
- Standard control location is opposite hinge. Opposite
  - **Rear View:**
  - **Side View:**
  - **Front View:**

- **Electrical:**
- **Drain:**
- **Water:**
- **Steam:**

- Alternative controller mounting options are available at no extra charge for installations into smaller wall openings. Contact the manufacturer to arrange installation.

- **Optional Vacuum Systems:**

- **Booster Pump:**

- **Power Supply:**

---

**Table 2: Water Flow Requirements, Current Steam Generator**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Required Condition</th>
<th>Maximum Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>140°F (60°C)</td>
<td>175°F (79°C)</td>
</tr>
<tr>
<td>Total Capacity</td>
<td>500 lb/hr</td>
<td>750 lb/hr</td>
</tr>
<tr>
<td>Pressure</td>
<td>0-100 psig</td>
<td>150 psig</td>
</tr>
<tr>
<td>Effluent Temperature</td>
<td>125°F (52°C)</td>
<td>150°F (66°C)</td>
</tr>
</tbody>
</table>

---

**Typical Utility Requirements**

- **General:**
  - **Inlet:**
  - **Outlet:**

- **Electrical:**
  - **110V AC:**
  - **220V AC:**

- **Waste Water:**
  - **Drain:**
  - **Pump:**

- **Steam:**
  - **Drain:**

---

**Additional Notes:**

- **Rear View:**
- **Side View:**
- **Front View:**

---

**Table 3: Shipping & Heat Loss Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Shipping Weight</th>
<th>Total Heat Loss (kW)</th>
<th>Heat Source</th>
<th>Max. Operating Weight</th>
<th>Heat Loss (kW)</th>
<th>Total Heat Loss (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12' x 8'</td>
<td>1500 lbs</td>
<td>1800 lbs</td>
<td>1500 lbs</td>
<td>1800 lbs</td>
<td>1800 lbs</td>
<td>1800 lbs</td>
</tr>
</tbody>
</table>

---

**Additional Notes:**

- **Rear View:**
- **Side View:**
- **Front View:**

---

**Table 4: Shipping & Heat Loss Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Shipping Weight</th>
<th>Total Heat Loss (kW)</th>
<th>Heat Source</th>
<th>Max. Operating Weight</th>
<th>Heat Loss (kW)</th>
<th>Total Heat Loss (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12' x 8'</td>
<td>1500 lbs</td>
<td>1800 lbs</td>
<td>1500 lbs</td>
<td>1800 lbs</td>
<td>1800 lbs</td>
<td>1800 lbs</td>
</tr>
</tbody>
</table>
SAFETY SHOWER/EYEWASH CUT SHEET

Requires drain connection at eyewash
Provide floor drain below each eyewash
INFRARED HOT/COLD WATER FAUCET CUT SHEET

PROVIDE 120V DUPLEX BELOW SINK

ONE INFRARED FAUCET PER LAB
PURE WATER FAUCET CUT SHEET

CT785SC-7110-LE
DECK MOUNTED FIXTURE FOR DISTILLED, DEIONIZED AND ULTRA-PURE WATER WITH
ALL-POLYPROPYLENE INTERIOR LINING, 8" RIGID GOOSENECK, SELF-CLOSING OPERATION,
POLYPROPYLENE VACUUM BREAKER AND LEVER HANDLE

3/8" IPS BRASS GOOSENECK WITH
POLYPROPYLENE LINING (SHOWN AS SIDE VIEW
FOR DIMENSIONS ONLY)

WHITE PLASTIC INDEX DISC

FORGED BRASS SELF-CLOSING LEVER HANDLE

3/8" IPS MOUNTING SHANK
WITH LOCKNUT AND WASHER

FORGED BRASS VALVE BODY
WITH POLYPROPYLENE INTERIOR

INLET BUSHING

3/8" O.D.
POLYPROPYLENE TUBE

INDICATED
1. ALL COMPONENTS IN CONTACT WITH
PURE WATER ARE POLYPROPYLENE.
2. FIXTURE INLET HAS 3/8" D.O.
POLYPROPYLENE TUBE, IF REQUIRED,
SPECIFY ADAPTOR WHEN ORDERING.
3. MAXIMUM WORKING PRESSURE 50 PSI.
4. FIXTURE IS FURNISHED WITH COLORETECH
EPOXY POWDER-COATED FINISH.

MEASUREMENTS MAY VARY 0.1/16".

Drawing Number: 090497-WK
### Standard Droplin® Sinks

<table>
<thead>
<tr>
<th>Sink No.</th>
<th>Order</th>
<th>Weight (lb)</th>
<th>Dimensions (in)</th>
<th>Outlet Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Center</td>
<td></td>
<td>Inside Bowl</td>
<td>Outlet Location</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>D9C</td>
<td>9</td>
<td>12</td>
<td>5.0</td>
<td>6.0</td>
</tr>
<tr>
<td>D9C</td>
<td>15</td>
<td>12</td>
<td>5.0</td>
<td>6.0</td>
</tr>
<tr>
<td>A9S</td>
<td>18</td>
<td>14.0</td>
<td>10.0</td>
<td>5.0</td>
</tr>
<tr>
<td>D95</td>
<td>22</td>
<td>14.0</td>
<td>10.0</td>
<td>6.0</td>
</tr>
<tr>
<td>D95C</td>
<td>24</td>
<td>14.0</td>
<td>10.0</td>
<td>6.2</td>
</tr>
<tr>
<td>D10</td>
<td>20</td>
<td>16.0</td>
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<td>8.0</td>
</tr>
<tr>
<td>D15</td>
<td>30</td>
<td>16.0</td>
<td>8.0</td>
<td>8.0</td>
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<tr>
<td>D15C</td>
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<td>12.0</td>
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<tr>
<td>D19</td>
<td>42</td>
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<td>16.0</td>
<td>9.0</td>
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<tr>
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<td>32</td>
<td>16.0</td>
<td>16.0</td>
<td>7.5</td>
</tr>
<tr>
<td>D22C</td>
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<td>16.0</td>
<td>9.0</td>
<td>6.0</td>
</tr>
<tr>
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<tr>
<td>A9S</td>
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<td>15.0</td>
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<td>D33E</td>
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<tr>
<td>D62</td>
<td>77</td>
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<td>15.0</td>
<td>11.0</td>
</tr>
<tr>
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<tr>
<td>D65</td>
<td>61</td>
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<td>10.0</td>
</tr>
<tr>
<td>C49</td>
<td>61</td>
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<td>11.8</td>
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<tr>
<td>DRS12</td>
<td>18</td>
<td>12</td>
<td>7.8</td>
<td>Center</td>
</tr>
</tbody>
</table>

### Special Order Droplin® Sinks

<table>
<thead>
<tr>
<th>Sink No.</th>
<th>Order</th>
<th>Weight (lb)</th>
<th>Dimensions (in)</th>
<th>Outlet Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Center</td>
<td></td>
<td>Inside Bowl</td>
<td>Outlet Location</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>D96</td>
<td>34</td>
<td>12.0</td>
<td>12.0</td>
<td>12.0</td>
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<tr>
<td>A96</td>
<td>34</td>
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<td>6.0</td>
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<tr>
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<td>8.0</td>
<td>6.0</td>
</tr>
<tr>
<td>D98C</td>
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<td>15.0</td>
<td>6.0</td>
</tr>
<tr>
<td>D31*</td>
<td>58</td>
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<td>15.0</td>
<td>15.0</td>
</tr>
<tr>
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<td>18.0</td>
<td>15.0</td>
<td>5.1</td>
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<tr>
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<td>15.0</td>
<td>10.5</td>
</tr>
<tr>
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<td>60</td>
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<td>16.0</td>
<td>9.0</td>
</tr>
<tr>
<td>D54*</td>
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<td>15.0</td>
<td>8.0</td>
</tr>
<tr>
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<tr>
<td>D81</td>
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<td>9.8</td>
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<tr>
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<td>5.0</td>
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<td>9.0</td>
<td>15.5</td>
</tr>
<tr>
<td>DRS15*</td>
<td>14</td>
<td>10.0</td>
<td>7.8</td>
<td>Round</td>
</tr>
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<td>DHC20*</td>
<td>81</td>
<td>30.0</td>
<td>7.0</td>
<td>Center</td>
</tr>
<tr>
<td>D95*</td>
<td>58</td>
<td>30.0</td>
<td>10.0</td>
<td>15.0</td>
</tr>
</tbody>
</table>

**Standard lab sinks: D52- 24"L x 18"W x 11"D**

**Accessible lab sinks: A26- 18"L x 15"W x 5/11"D**

---

**SINK CUT SHEET**

**PRODUCT DIMENSIONS**

**DOMESTIC SIZES**

**DURCON INCORPORATED**

205 Allston Drive • Taunton, MA 02780 • Phone: 508.824.3000 • Fax: 508.824.3000 • E-mail: sales@durcon.com

www.durcon.com

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GAS/VACUUM VALVE CUT SHEET

DOUBLE VALVE AT ISLANDS
SINGLE VALVE AT WALL

CT4200-232SWSA
DOCK MOUNTED TURRET BASE WITH TWO LABORATORY BALL VALVES AT 180° AND MOUNTING SHANK

NOTE:
1. VALVE IS FURNISHED WITH A BLACK NYLON LEVER HANDLE AS STANDARD. A COLORED NYLON HANDLE AND A CHROME PLATED FORGED BRASS HANDLE ARE ALSO AVAILABLE.
2. VALVE IN FACTORY ASSEMBLY AND TESTED AT 175 PS. MAXIMUM WORKING PRESSURE IS 75 PS.
4. FIXTURE IS FURNISHED WITH COLORTECH WHITE POWDER-COATED FINISH.

MEASUREMENTS MAY VARY ± 1/16".

Drawing Number: 082400-52/P
Revision Number:
UNDERCOUNTER WASHER CUT SHEET

Provide softened feed water

**FlaskScrubbers**

ORDERING INFORMATION

### Undercounter FlaskScrubbers

- **Catalog Number**: 41005
  - **Electrical Requirements**: 115v, 60Hz, 16amps
    - **Optims**: DEDICATED CIRCUIT
    - **Window**: 1-1/2" knock-out or din-rail

- **Catalog Number**: 41006
  - **Electrical Requirements**: 208/230v, 60Hz, 16amps
    - **Optims**: DEDICATED CIRCUIT
    - **Window**: 1-1/2" knock-out or din-rail

### Freestanding FlaskScrubbers

- **Catalog Number**: 41007
  - **Electrical Requirements**: 115v, 60Hz, 16amps
    - **Optims**: DEDICATED CIRCUIT
    - **Window**: 1-1/2" knock-out or din-rail

- **Catalog Number**: 41008
  - **Electrical Requirements**: 208/230v, 60Hz, 16amps
    - **Optims**: DEDICATED CIRCUIT
    - **Window**: 1-1/2" knock-out or din-rail

**Specifications**

- Dimensions: 24.5" x 28.7" x 9.13" (62 cm x 73 cm x 23 cm)
- Weight: 120 lbs (54 kg)
- Water flow: 12 gpm (45 l/min)
- Filtration: 0.2 micron cartridge
- Programmable timer

**Manufacturer**

Dougherty + Dougherty Architects

**Design for Science**

2011 Dec 08 - Page 28 of 33
DRYER CUT SHEET

CONSTRUCTION
Drier is fabricated to conform with specific building code requirements. Cabinet and drying chamber are constructed of 18 gauge stainless steel (No. 4 finish). Argon welded and polished. Bottom platform and three shelves are constructed of 316L perforated stainless steel (No. 4 finish). Welded stainless steel construction makes the drying chamber corrosion-resistant and easy-to-clean. Door is wall construction ensures quiet operation.

Top and sides of the drying chamber are insulated with 3" thick, mineral wool-type insulation to minimize heat loss to the work area.

Double-panel cabinet door is constructed of 1/4" stainless steel (No. 4 finish). Argon welded and polished. Door is hinged either left or right, according to customer specifications. Door closes against a rear-resistant gasket.

Recirculation blower is powered by a 1/2 HP motor and is rated at 400 cfm (113 m³/min). Electric controls are constructed of stainless steel and provide a total of 8.1 kW for 208 V unit and 10.8 kW for 240 V unit.

Two cooling fans are located in the service compartment to cool the recirculation blower and electronic components. Wiring and wire harnesses are high-temperature rated.

ACCESSORIES

Additional Interior Shelf — perforated, stainless steel shelf for inside of drying chamber.

Drier Wall Range Kit — includes two stainless-steel side flanges and one stainless-steel top flange to seal the opening between one end of a recirculated dryer and the wall.

PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections, parts, and adjustments to ensure low-cost peak performance. STERIS representatives can provide information regarding a specific maintenance package.

ENGINEERING DATA

Shipping Weight: 700 lbs (318 kg)
Shipping Dimensions: (W x H x D): 96-1/2 x 89 x 96-1/2 (2471 x 2211 x 2471 mm)
Ongnin Weight: 700 lbs (318 kg)
Heat Loss: 7200 BTU/hr (7600 BTU/hr)

* at 75°F (24°C), 40% RH ambient.

NOTES

1. Unit must stand on a non-combustible surface.
2. Discontinue switch with GFI protection located only on supplied by GFI/GDFC should be installed in exposed supply lines near the equipment.

The language of this document is ENGLISH. Any translations must be made from the three language document.

EAGLE Poly Acid/Corrosive Safety Storage Cabinet

Eagle's new non-metallic "Poly Acid Cabinets" are constructed of 100% polyethylene for excellent resistance to harmful acid vapours and spills, making those cabinets suitable for storing aggressive chemicals such as sulphuric, hydrochloric and nitric acids.

Independent upper and lower compartments allow for segregation of reactive chemicals. Includes two 3/8" threaded inserts on top sides for wall anchors. The base of the cabinet is flush to floor and sides. Bottom shelves remove for easy cleaning ofump areas. Available in blue, shown here, or white.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Door Specs</th>
<th>Shelves</th>
<th>Size (Wx Dx H)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRA P44</td>
<td>44 gal.</td>
<td>4 Manual Closing</td>
<td>8</td>
<td>36&quot; x 22&quot; x 66&quot;</td>
<td>130 lbs.</td>
</tr>
<tr>
<td>CRA-P44W</td>
<td>44 gal.</td>
<td>4 Manual Closing</td>
<td>8</td>
<td>35&quot; x 22&quot; x 65&quot;</td>
<td>130 lbs.</td>
</tr>
</tbody>
</table>

Home • About Us • C.L.A.W.S. • E-Mail
New Products • Safety Cans • Safety Cabinets • Spill Containment • Guards & Protectors
**MODEL 4510
SAFETY CABINET**

EAGLE Model 4510 Safety Cabinet

- Constructed of 18-gauge steel, alidca, top, bottom, and doors are doublu-walled with a 1 1/2" air space between walls. Both vents, with 2" threaded fittings, have fire baffle end caps. Cabinets come in yellow high gloss powder finish with red warning, plus grounding attachment, 3-point key lock, and 2" raised, leakproof door sill. Each shelf is adjustable, supported by 4 brackets, and can support 350 pounds. Features 2 self-closing doors. FM approved.

**SPECIFICATIONS**
- CAPACITY: 45 gallons
- SHELF DEPTH: 14.75"
- SHELVES: 2
- DIMENSIONS: 43" x 18" x 65"
- WEIGHT: 353 lbs.

---

**MODEL 1923/2310
SPACE SAVER SAFETY CABINET**

EAGLE Model 1923/2310 Space Saver Safety Cabinet

- Only 23" wide, this cabinet features a 24 gallon capacity that will fit places a conventional cabinet can’t - available in single door manual (Model 1923) and self-closing (Model 2310) models.
- Cabinets meet NFPA Code 30 and OSHA requirements.

**SPECIFICATIONS**
- CAPACITY: 24 gallons
- SHELF DEPTH: 14.75"
- SHELVES: 1
- DIMENSIONS: 23" x 18" x 65"
- WEIGHT: 270 lbs.
C0330 – 300 lb Cube Ice Machine

Prodigy® Modular Cube Ice Maker

Features

Prodigy™ cubes use significantly less energy and water than other cube ice machines, exceeding California and Federal energy efficiency regulations.

According to lab tests, Prodigy™ cubes are consistently more consistent in size and weight than other machines, and are easier to stack and store. The machine is also more energy efficient and produces less noise.

The patented WaterSense® technology reduces water usage by 50% compared to other machines, making it a great choice for laboratories.

Prodigy™ modular design allows for easy installation and maintenance, making it a popular choice for laboratories.

All external panel components are certified for optimal aesthetic appeal through superior fit and finish.

An optional Prodigy™ Gel-Cube™ provides NISTM moisture protected and adrenalized operational data that can be displayed on-screen or transmitted remotely, resulting in easy data collection and diagnostic troubleshooting.

An optional Prodigy™ Ice Reservoir allows you flexibility to preserve ice levels for up to 7 days, keeping the highest amount of fresh ice in the bin.

24 Hour Volume Production

<table>
<thead>
<tr>
<th>Model</th>
<th>Air-Cooled</th>
<th>Water-Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td>300/119</td>
<td>300/127</td>
<td>300/127</td>
</tr>
</tbody>
</table>

Modular Bin Options

<table>
<thead>
<tr>
<th>Bin Options</th>
<th>Dimensions (W x D x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 lb</td>
<td>40 x 48 x 55</td>
</tr>
<tr>
<td>300 lb</td>
<td>48 x 55 x 60</td>
</tr>
<tr>
<td>400 lb</td>
<td>55 x 60 x 60</td>
</tr>
</tbody>
</table>

CUT SHEET

ICE MACHINE CUT SHEET

OWNER FURNISHED

ICE MACHINE CUT SHEET

SPECIFICATIONS

Model Number: C0330W-01
Condition: New
Basic Electrical Specifications
- Voltage: 208V
- Phase: 1
- Frequency: 60Hz
- Amperage: 15A

Max. Power Draw
- Air: 1800W
- Water: 2400W

Circuit Breakers
- Air: 20A
- Water: 25A

Service Connections
- Air: 1/2" NPTF
- Water: 1/2" NPTF

Available Options
- Air: None
- Water: None

ACCESSORIES

- Ice Reservoir
- Ice Chest
- Ice Bin

Operating Requirements

Air Temperatures
- Max: 120°F
- Min: 30°F

Water Temperature
- Max: 120°F
- Min: 40°F

Remote Cond. Temp.
- Max: 115°F
- Min: 60°F

Water Pressure
- Max: 150 psi
- Min: 20 psi

Electrical Voltage
- Max: 220V
- Min: 110V

* Specifications are subject to change without notice. For complete installation, refer to the Installation Manual.
CADAVER REFRIGERATOR CUT SHEET
OWNER FURNISHED

MODEL 1036-R116 TWO BODY SIDE ACTING REFRIGERATOR

Standard Design Features

- Exterior: 118" x 30" x 84" galvanized steel with a No. 4 finish. Top, Sides, and Back - 20 gauge stainless steel embossed aluminum
- Interior Walls and Ceiling - 20 gauge stainless steel embossed aluminum
- Dimensions: Width 80" Height 40", I Depth 41" Height 41" Width 80"
- Insulation: 4.0 inch foam in place urethane (8" interior, 5" thick)
- Miscellaneous: Clear in plastic

Convenience Features

- Caddy Frame: (2) sliding and (4) quiet roll, slide rail using special stainless steel
- Sliding Door: Right hand sliding door using special stainless steel
- Stainless Steel

Lighting: (1) vapor proof light with switch

Refrigeration: Drop in self contained refrigeration system with digital thermometer and easy to adjust temperature controller

Operating Temperature: 38 degrees F

容积: 115 cu. ft. dry, 50 lb. salive or saline (other volume by request)

10-08
411 Norm Avenue, Azusa, CA 91702 • www.mortechmg.com
Tel (800) 410-0100 • (626) 334-1471 • Fax 962-934-1704