

LABORATORY DESIGN SKETCHBOOK
CLINICAL LABORATORY RENOVATION • VA HOSPITAL LONG BEACH • GKKWORKS • DESIGN FOR SCIENCE • 2012 JAN 02 • PAGE 2

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Summary

This is the third draft of the laboratory sketchbook for the proposed renovation of the Clinical Laboratory at the VA Hospital in Long Beach, California. It contains revisions based upon lab personnel review comments received on 2011 Dec 14, and interior laboratory elevations of the lab casework system.

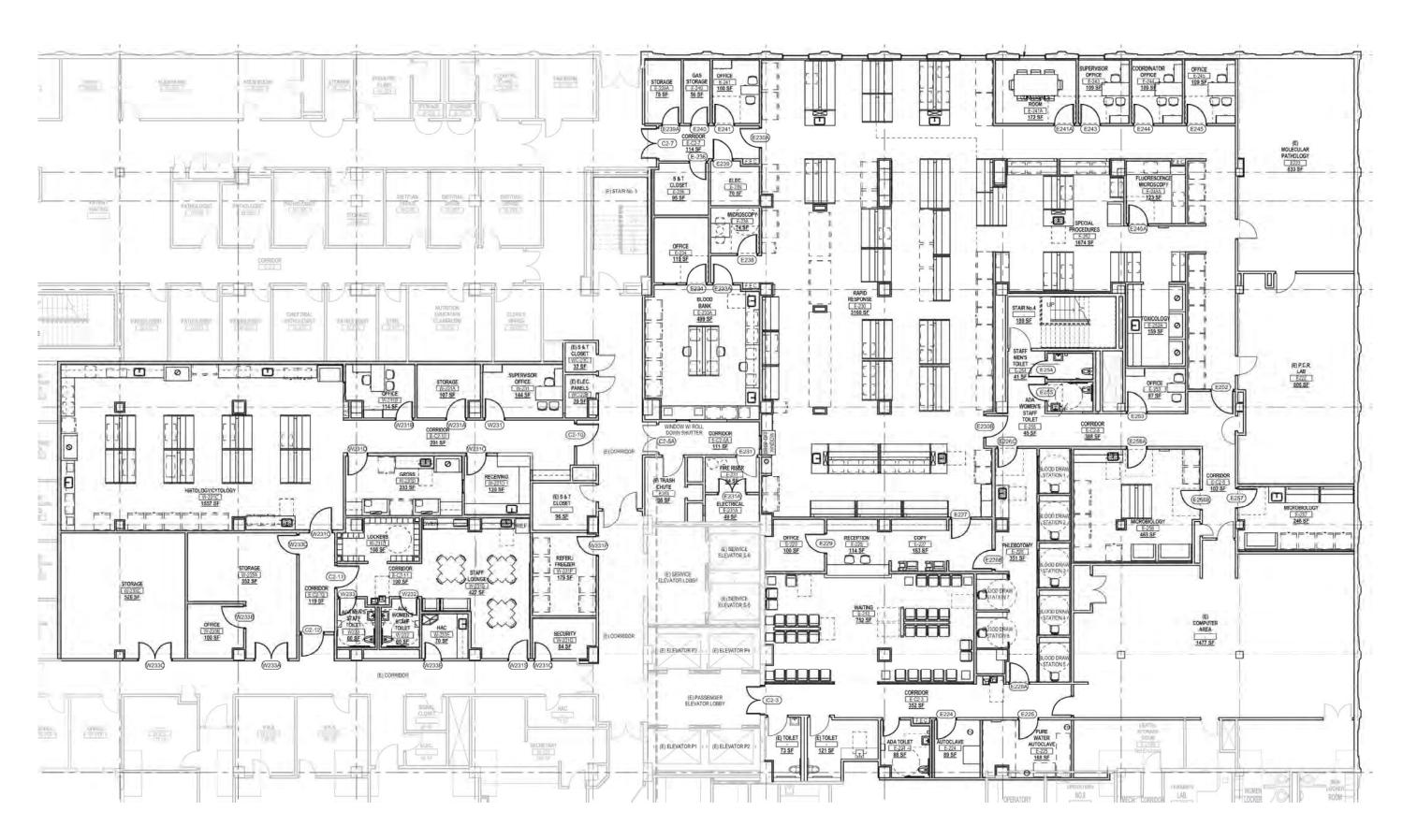
It contains plan diagrams of each laboratory room or area, equipment schedules, and manufacturers cut sheets for contractor furnished and owner furnished equipment.

All architectural, mechanical, electrical, and plumbing requirements are noted.

GLA

Glen Berry, AIA
Design for Science
Laboratory Consultant to GKK Works

COMPOSITE PLAN



Modular Lab Casework System

The Hamilton Max casework system will be used as the basis of design for the lab casework system. Features of the system include:

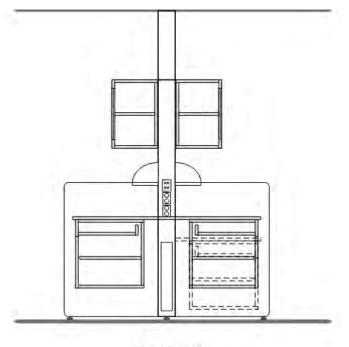
- 6" core for conduit and piping
- adjustable height work surfacescantiliver
- Perimeter benches can be fixed

Herman Miller Co/Struc and Kewaunee Alpha brands will be listed as acceptable manufacturers in the Division 11 casework specification.

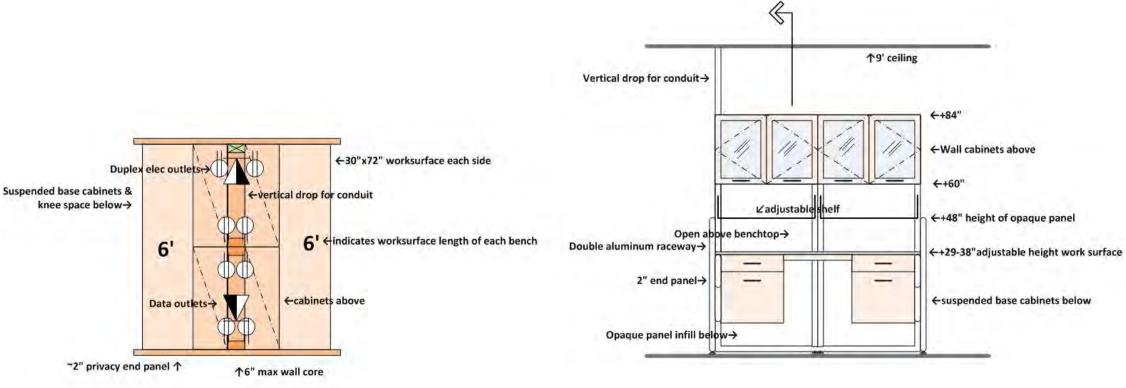




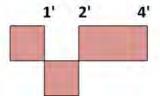




Section



Plan



Elevation

Typical Lab Bench

and drawer fronts

• 6" center core

• No plastic drawers

• 150 lb. accuride drawer glides

simulated wood plam frame

column Max Wall frame

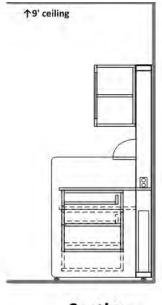
Adjustable height work surfacePower and data outlets at face of 6"

Basis of Design: Hamilton Max Wall
 White epoxy powder coat metal frame
 Suspended metal base cabinets with simulated wood plam front

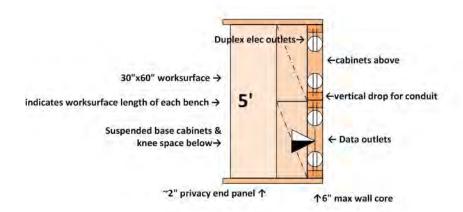
3mm PVC hot glue edge banding at all exposed door and drawer front edges
 Combination core plywood/MDF for door

Wall cabinets above with glass doors,

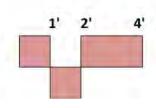
5' Wall Bench Special Procedure Area

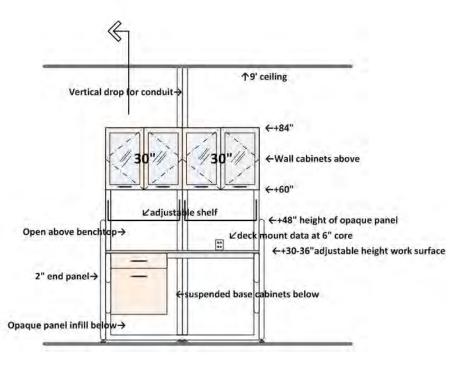


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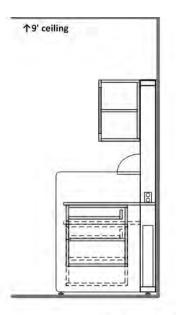




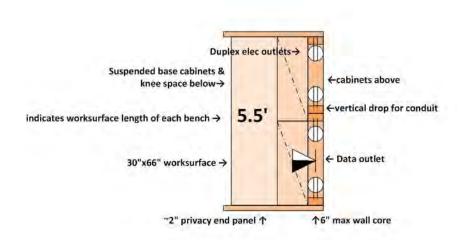


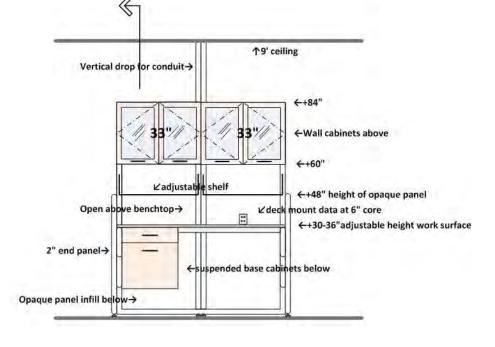
Elevation

5.5' Wall BenchSpecial Procedure Area

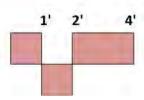


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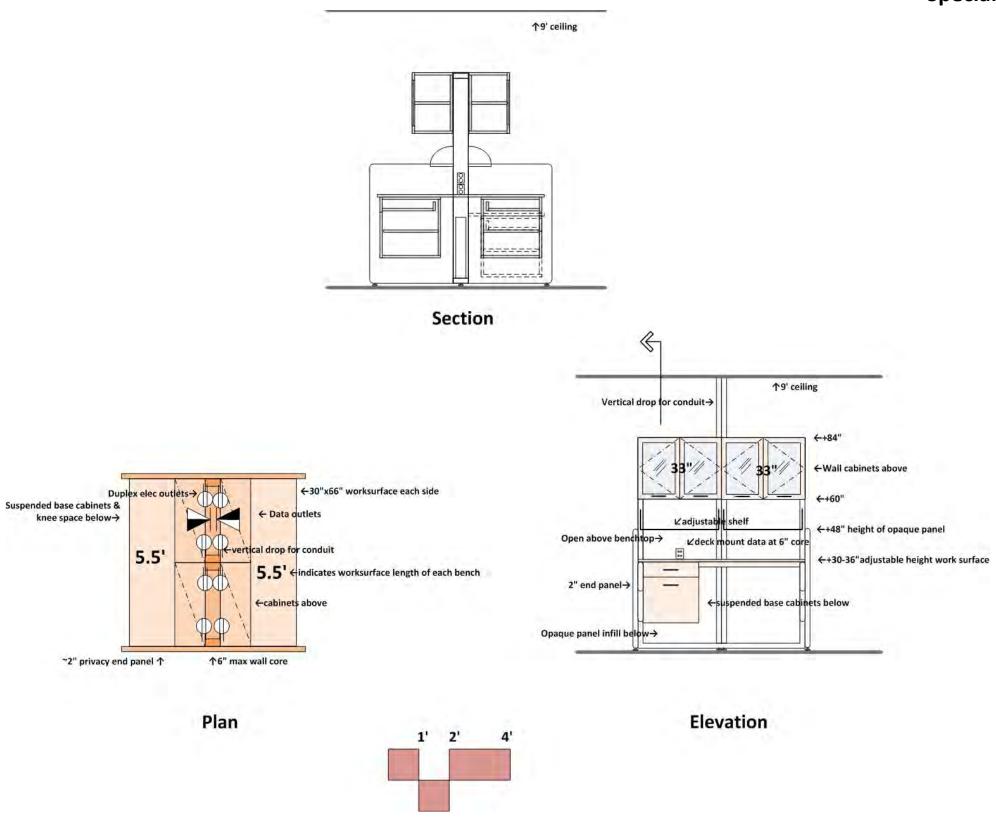


Plan



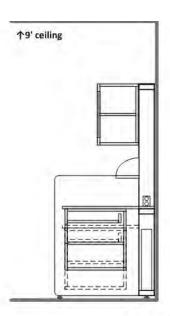
Elevation

5.5' Peninsula Bench Special Procedure Area

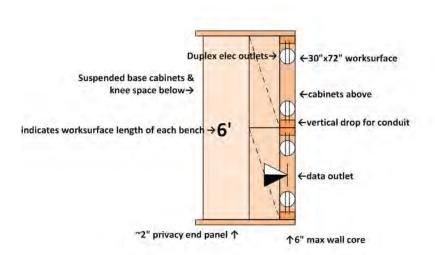


6' Wall Bench

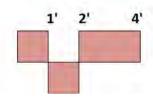
Special Procedure Area
Toxicology
Microbiology

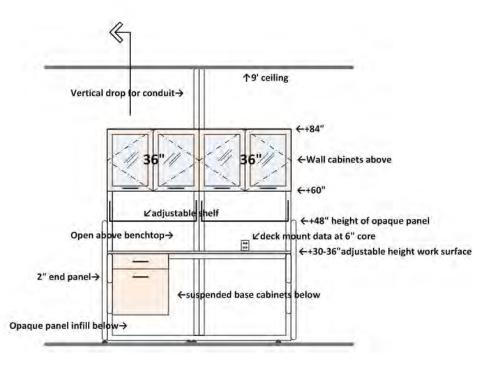


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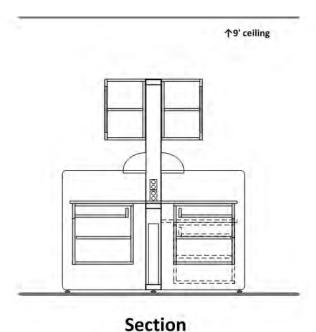


Plan





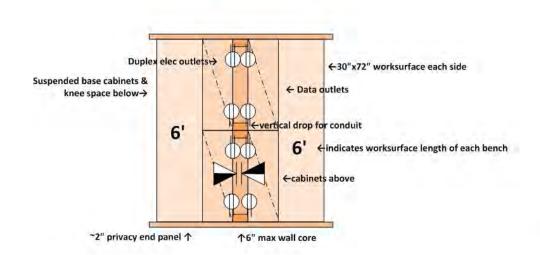
Elevation

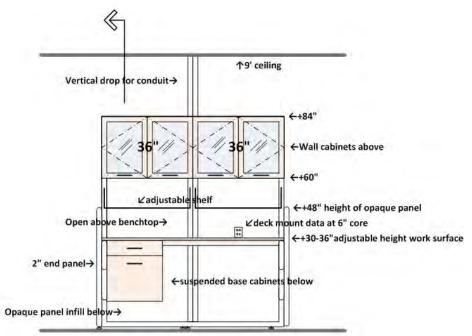


6' Island Bench

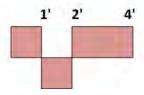
Rapid Response Area Center Rapid Response Area North Blood Bank Histology/Cytology Microbiology

Similar for Rapid Response Area Except no end panel at peninsula





Plan

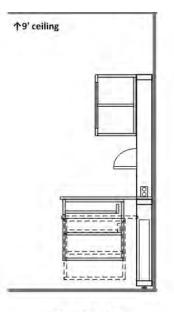


Elevation

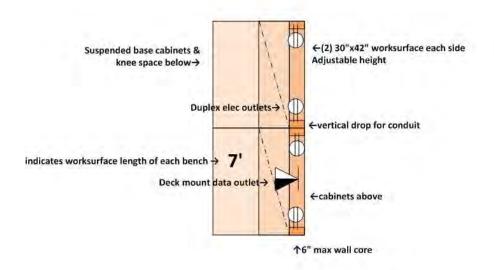
7' Wall Bench

Special Procedure Area

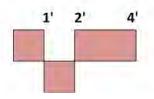
Fluorescence Microscopy

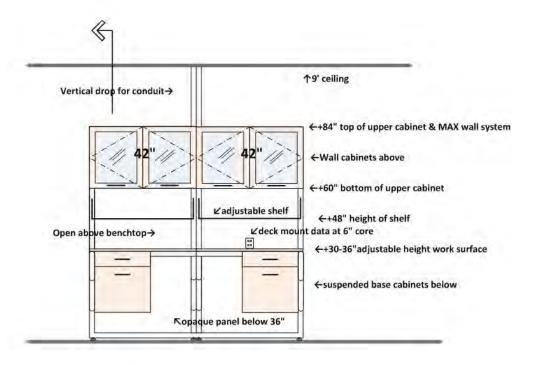


Section



Plan

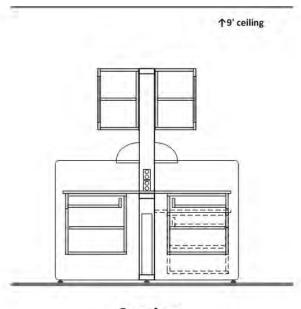




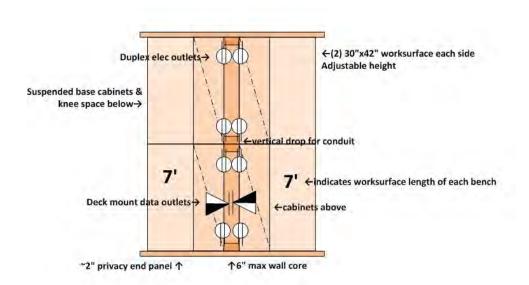
Elevation

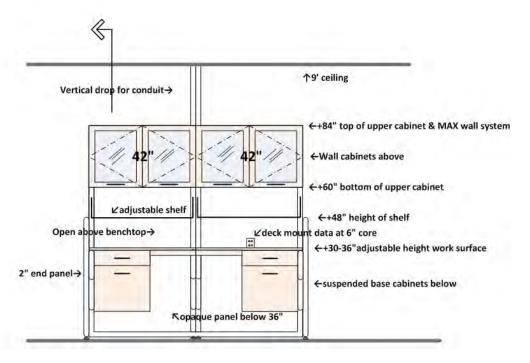
7' Island Bench

Rapid Response Area South Rapid Response Area Center Special Procedure Area

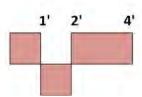


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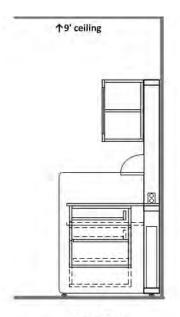


Plan

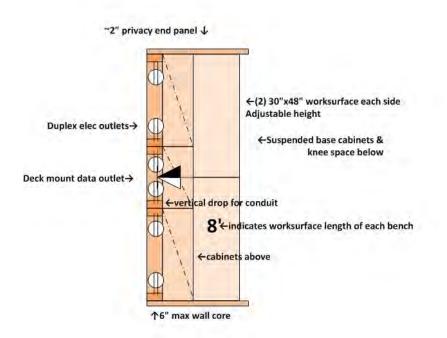


Elevation

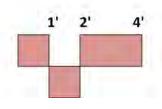
8' Wall Bench Accessioning Area

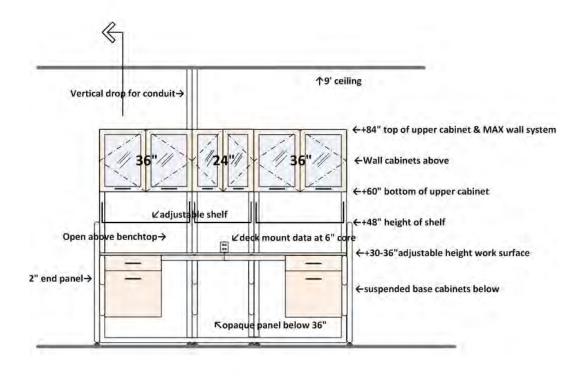


Section



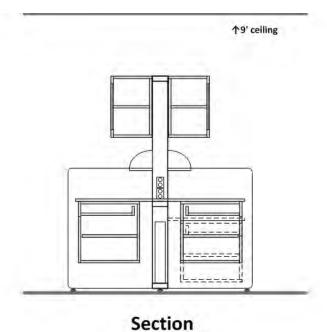


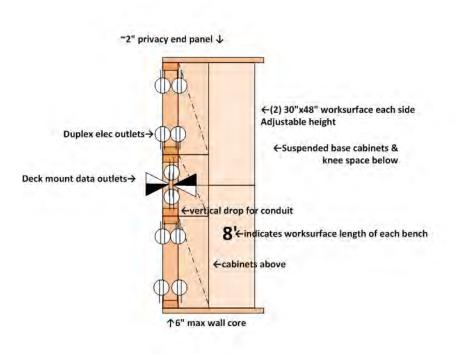




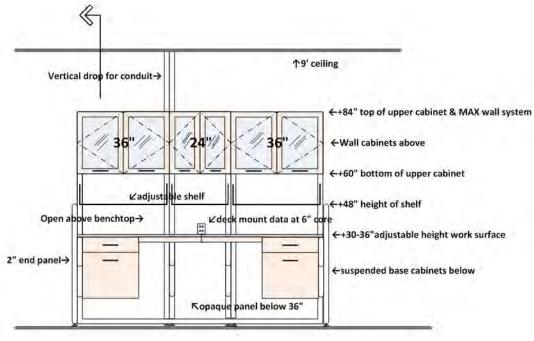
Elevation

8' Island Bench Single Side Rapid Response Area Center





Plan



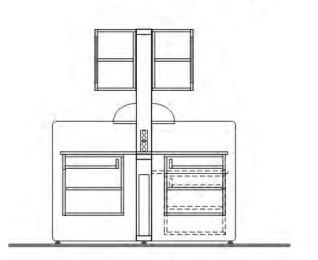
1' 2' 4'

Elevation

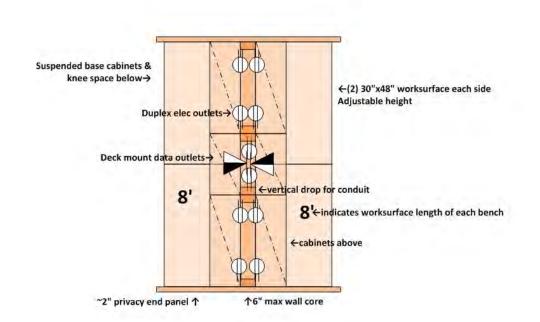
8' Island Bench

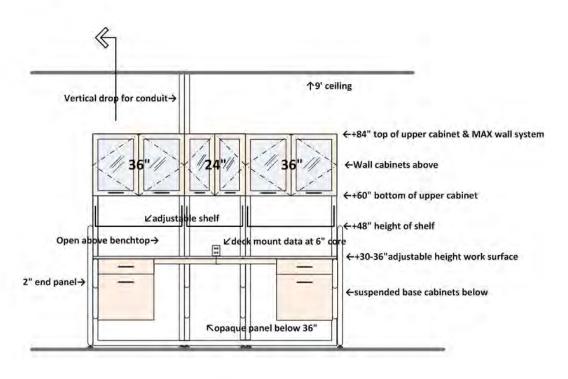
Rapid Response Area South Rapid Response Area Center



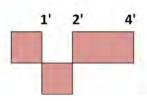


Section





Plan



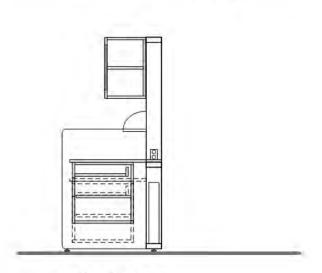
Elevation

9' Wall Bench

Rapid Response Area South
Single Side no wall behind

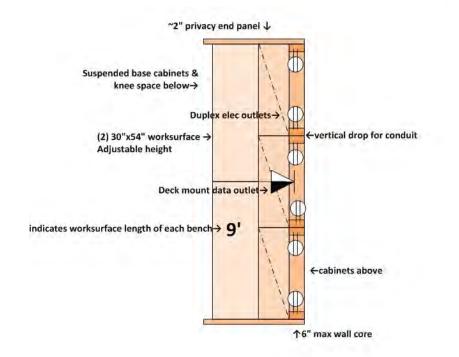
Special Procedure Area

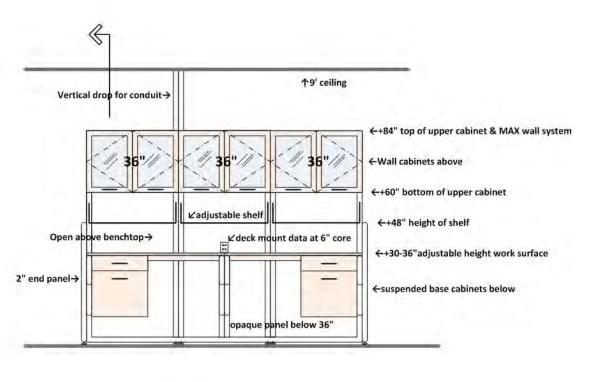




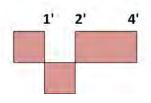
↑9' ceiling

Section





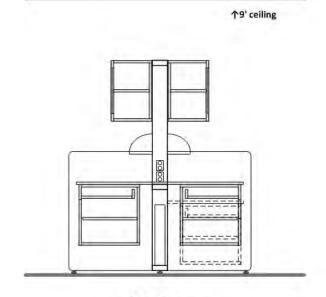
Plan



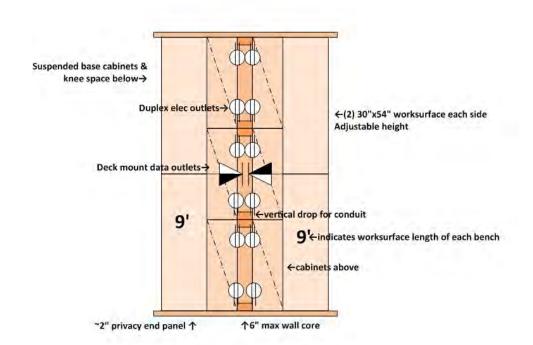
Elevation

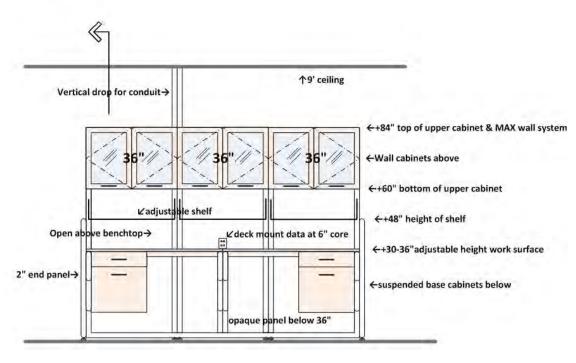
9' Island Bench

Rapid Response Area Center Rapid Response Area North

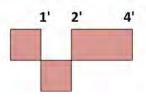


Section





Plan

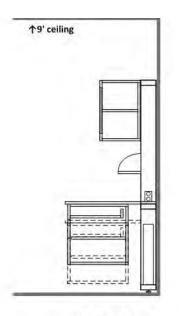


Elevation

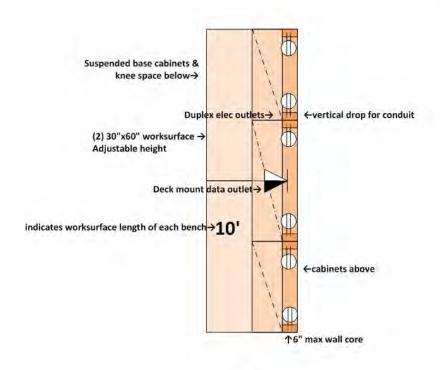
10' Wall Bench

Special Procedure Area

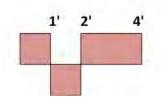
Fluorescence Microscopy

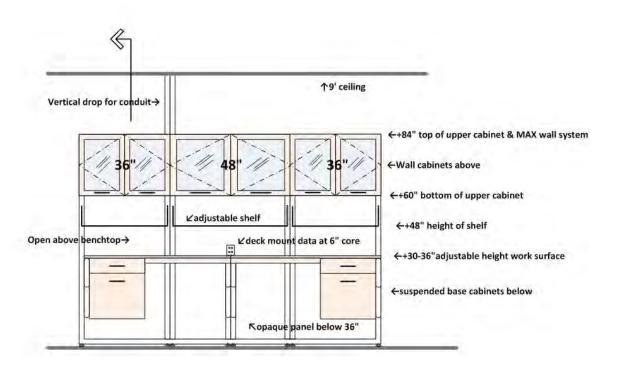


Section







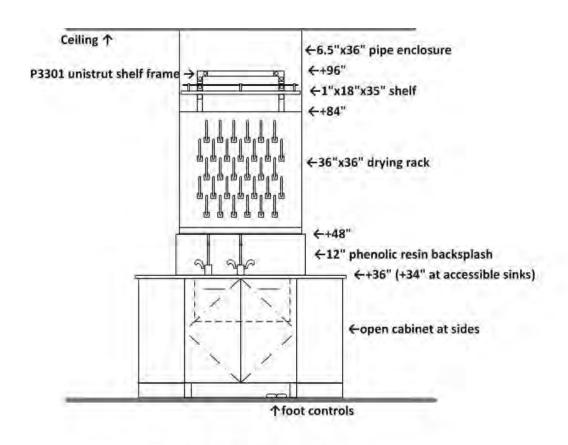


Elevation

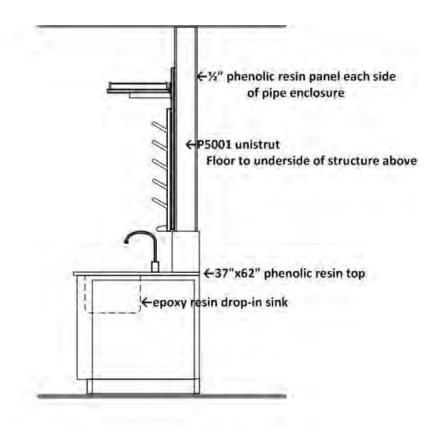
Sink Bench

Adjacent to Modular Peninsula or Island Bench

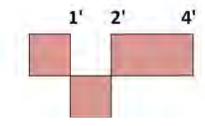
Accessioning Area Rapid Response Area North Special Procedure Area



Front Elevation



Side Elevation



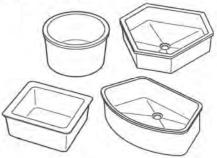


PRODUCT DIMENSIONS

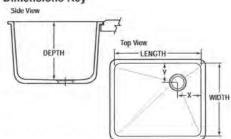
Standard DropIn® Sinks

			Wgt (lb)	Dimensions (in)								
	Sink No.	Outlet		1	nside Bow	Outlet Location						
				Length	Width	Depth	X	Y				
D01	IC	Center	9	9.0	6.0	5.8	4.5	3.0				
D03	3C	Center	16	12.0	8.0	5.8	6.0	4.0				
AOS	5	Corner	18	14.0	10.0	5.0	3.5	3.5				
D05	5	Corner	22	14.0	10.0	6.2	3.5	3.5				
DOS	5C	Center	24	14.0	10.0	6.2	7.0	5.0				
D10)	End	20	16.0	8.0	6.8	4.5	4.0				
D10	C	Center	22	16.0	8.0	6.8	8.0	4.0				
D15	5	Corner	30	16.0	12.0	8.0	3.5	3.5				
D15	C Center		31	16.0	12.0	8.0	8.0	6.0				
D19	9	Corner	42	16.0	16.0	9.6	3.5	3.5				
D20)	Corner	32	16.0	16.0	7.5	3.5	3.5				
D22	2C	Center	30	18.0	6.5	6.8	9.0	3.3				
D24	4(C)	Center	30	18.0	14.0	10.5	9.0	6.8				
A25	5	Corner	35	18.0	15.0	5.0	3.5	3.5				
D25	5	Corner	39	18.0	15.0	7.9	3.5	3.5				
D30	0	Corner	53	18.0	15.0	11.0	3.5	3.5				
D30	OC	Center	50	18.0	15.0	10.8	9.0	7.5				
D33	3E	End	59	21.0	17.0	9.8	4.5	8.5				
D45	5	Corner	64	21.5	15.5	11.0	3.5	3.5				
D50	C	Center	48	24.0	16.0	8.0	12.0	8.0				
D52	2	Corner	77	24.0	18.0	11.0	3.5	3.5				
A55	5	Corner	47	25.0	15.0	4.8	3.5	3.5				
D55	5	Corner	61	25.0	15.0	10.0	3.5	3.5				
D59	9	Corner	61	28.0	15.0	11.8	3.5	3.5				
DR	S12	Center	18	12.0	Round	7.8	Cer	nter				

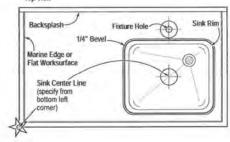
DropIn® Sink Styles



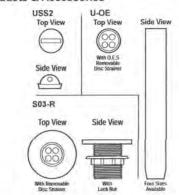
Dimensions Key



Installation Detail



Outlets & Accessories



Special Order DropIn® Sinks

0:-6		100.00	Dimensions (in)									
Sink No.	Outlet	(lb)		Inside Bowl	Outlet Location							
140.			Length	Width	Depth	X	Y					
D06*	Center	34	12.0	12.0	12.0	6.0	6.0					
A07*	Corner	24	14.0	14.0	5.0	3.5	3.5					
D08*	Corner	25	15.0	8.0	6.0	3.5	3.5					
D09*	Corner	25	15.0	8.0	10.8	3.5	3.5					
D21*	Corner	58	16.0	16.0	15.0	3.5	3.5					
A26*	Corner	39	18.0	15.0	5/11	4.5	5.5					
D32	Corner	49	18.0	15.0	15.8	3.5	3.5					
D51*	Corner	60	24.0	16.0	9.6	3.5	3.5					
D54*	Corner	45	25.0	15.0	8.0	3.5	3.5					
D57*	Corner	71	25.0	15.0	13.6	3.5	3.5					
D58*	Corner	79	25.0	15.0	17.8	3.5	3.5					
D61	End	94	30.0	16.0	17.8	4.5	7.5					
D65C*	Center	98	35.5	19.5	9.8	17.8	9.8					
D68**	End	70	30.0	16.0	10.0	4.75	8.0					
D70C*	Center	95	24.0	16.0	15.5	8.0	12.0					
D100**	Center	29	22.5	Hexagon	5.0	Cer	nter					
D200**	End	64	30.9	Hexagon	7.0	15.5	8.0					
DRS10*	Center	14	10.0	Round	7.8	Cer	nter					
DHC20*	End	82	30.0	Hexagon	7.0	Center						
D99*	End	56	32.0	Semi-Circle	10.0	11.5	4.5					

All sinks are available at both plants unless they are Special Order Sinks, available as noted:

* Available only from Taylor, TX, plant (colors: Black Onyx, Gray, Graphite, Tan, Forest Green and Steel Blue).

* Available only from Canton, MI, plant (colors: Black Onyx, Gray and Alpine White)

(ADA compliant sinks are designated by this symbol.

All Dimensions are nominal, Exterior dimensions vary by MFG location. Cutsheets available upon request,

206 Allison Drive * Taylor, TX 76574 * Phone: 512.595.8000 * Fax: 512.595.8400 * E-mail: sales@durcon.com

LABORATORY DESIGN SKETCHBOOK

Lab Sink Cut Sheet

- Sink A26: dual depth 5"11" accessible sinks at accessible work stations
- Sink D30: typical lab sink
- Sink drain and tail piece by Div. 11
- Connection by Div. 22

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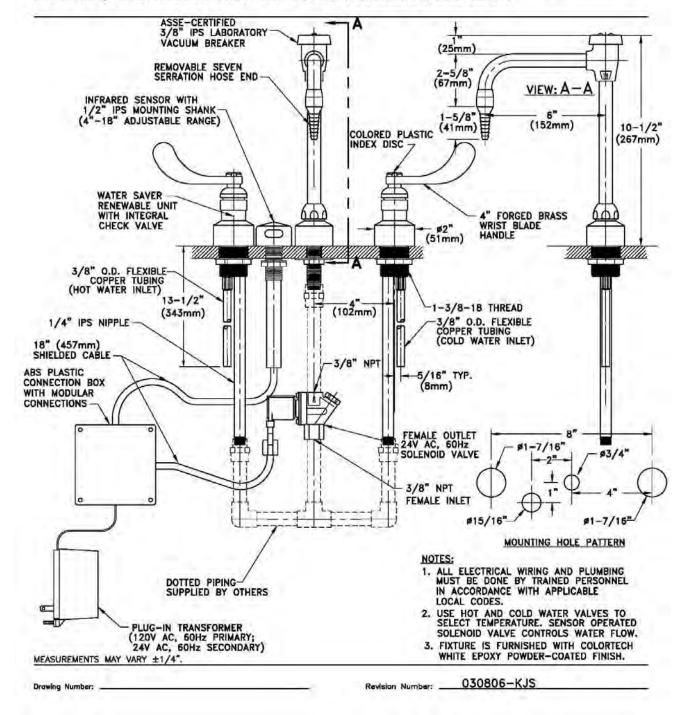


701 West Erie Street Phone 312 666 5500 Chicago, Illinois 60610 Fax 312 666 8597

Laboratory Service Fixtures by WaterSaver Faucet Co.

CT4554VB-BH

DECK MOUNTED SENSOR OPERATED AUTOMATIC MIXING FAUCET WITH 6" RIGID VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES. AND MANUALLY OPERATED MIXING VALVES



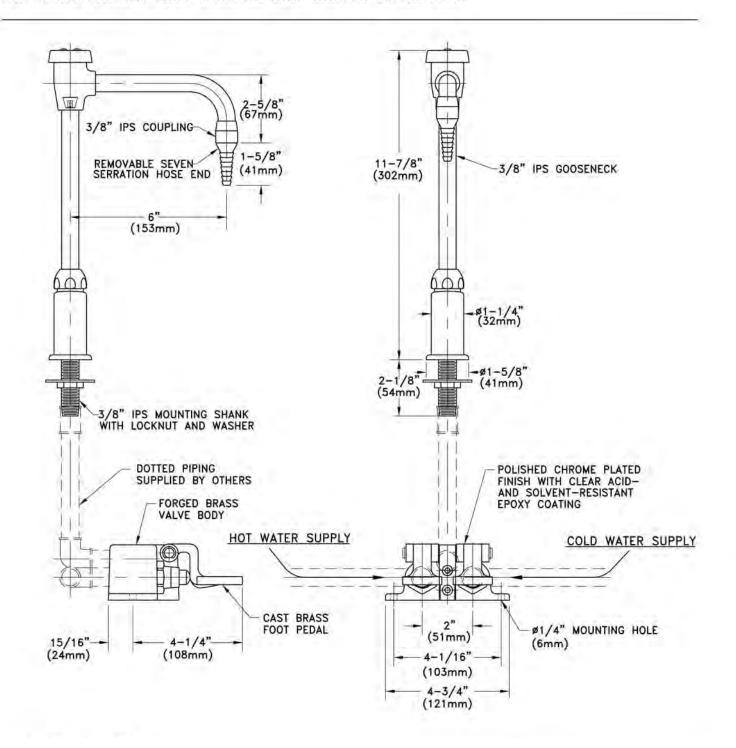
Lab Faucet Cut Sheet Infrared hands free Provide at accessible sinks Requires 120v oultet at sink

701 West Erie Street Phone 312 666 5500 Chicago, Illinois 60610 Fax 312 666 8597 F

Laboratory Service Fixtures by WaterSaver Faucet Co.

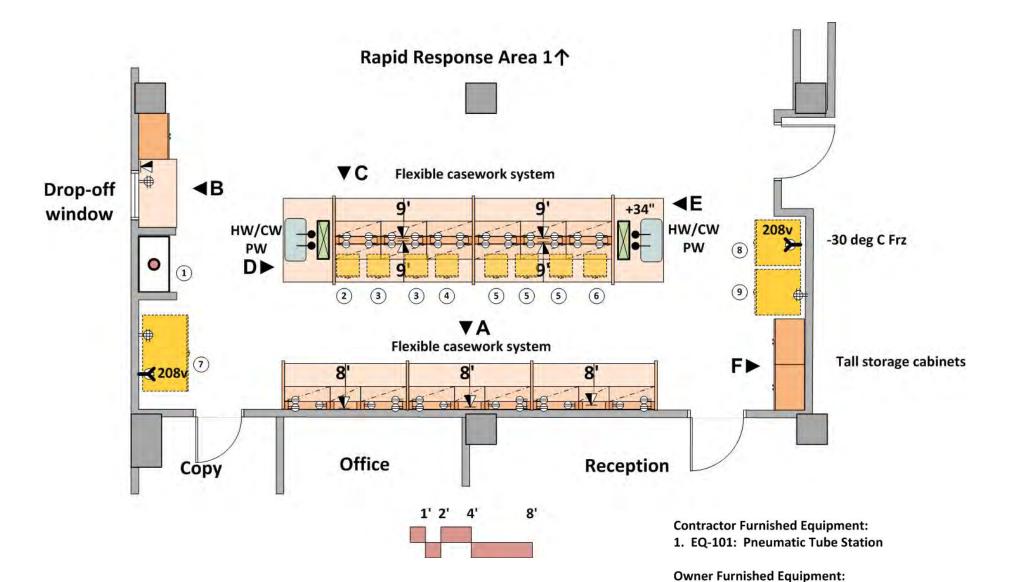
CT084VB-WSA-3001

DECK MOUNTED TURRET WITH 6" RIGID/SWING VACUUM BREAKER GOOSENECK, MOUNTING SHANK AND FLOOR MOUNTED FOOT-OPERATED SELF-CLOSING MIXING VALVE



Lab Faucet Cut Sheet
Foot controls
Provide at non-accessible sinks

Accessioning Area Room #P210



Standby power at all outlets 208v30a1ph

Dedicated circuits at floor equipment locations

circuit)

ARCHITECTURAL

Floor: sheet rubber

Ceiling: 9' acoustic tile

Doors: 3⁰x8⁰ pairs at entry

Walls: gypsum board and enamel paint

Acoustic Attenuation: NC 45 or less

Temperature: 72 deg. F, +/- 2 deg. F

6 air changes per hour minimum

Occupancy: B

MECHANICAL

100% exhaust

Pressure: Negative

Heat gain: 50 btuh/sf

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Hot/Cold water (HW/CW) at sinks with hands free controls

115v duplex and fourplex outlets (maximum of (2) fourplex per

Pure water (PW) at sinks

Pneumatic tube system (PTS) Swiss Logic

CONTRACTOR FURNISHED CASEWORK

Metal modular casework system Phenolic resin tops Epoxy resin sinks

Faucets

See Rapid Response Areas for other Accessioning refrigerators

2. EQ-102: Benchtop Centrifuge #1

4. EQ-104: Benchtop Centrifuge #3

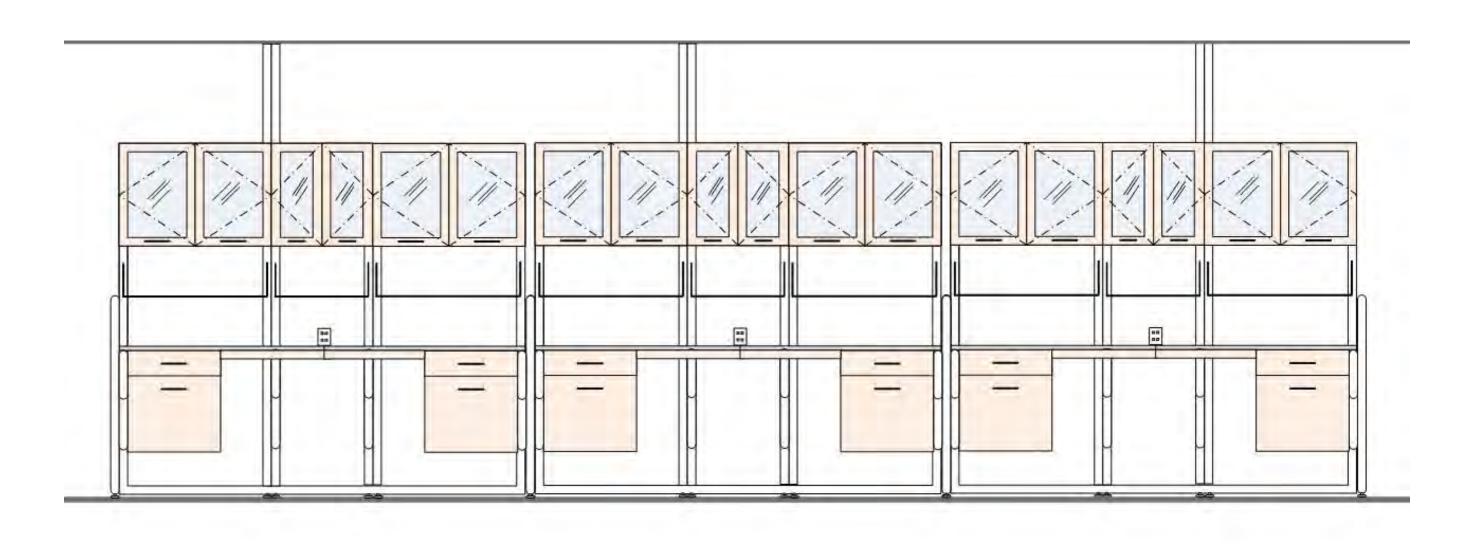
6. EQ-106: Benchtop Centrifuge #5 7. EQ-107: Freezer -20 deg C Double wide

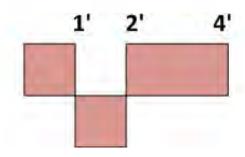
8. EQ-108: Freezer -30 deg C 9. EQ-109: Refrigerator (new)

3. EQ-103: Benchtop Centrifuge #2 (x2)

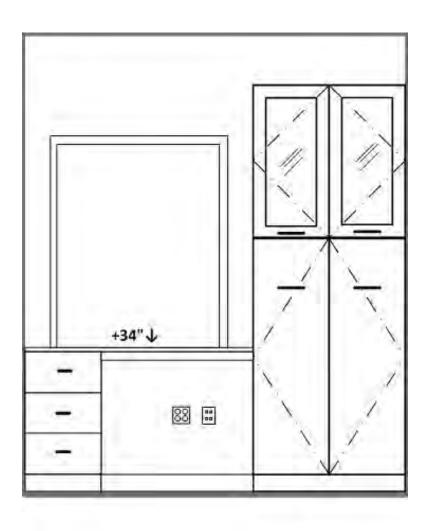
5. EQ-105: Benchtop Centrifuge #4 (x3)

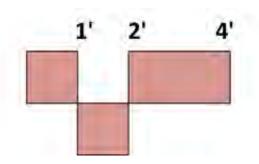
Accessioning Area Room #P210 Elevation A



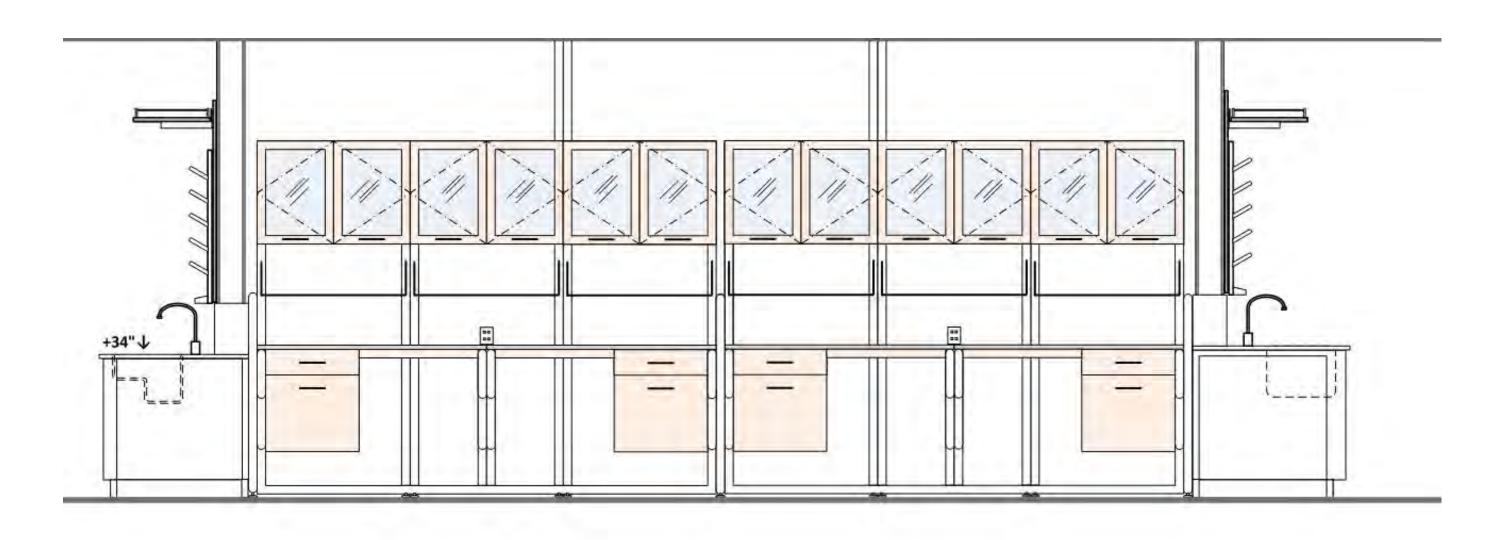


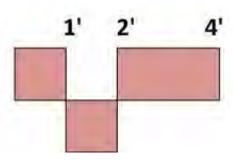
Accessioning Area Room #P210 Elevation B



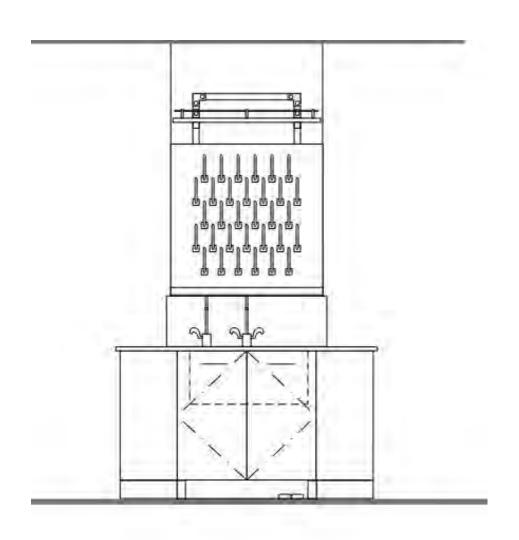


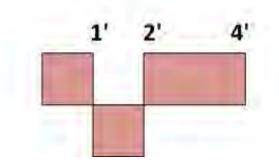
Accessioning Area Room #P210 Elevation C



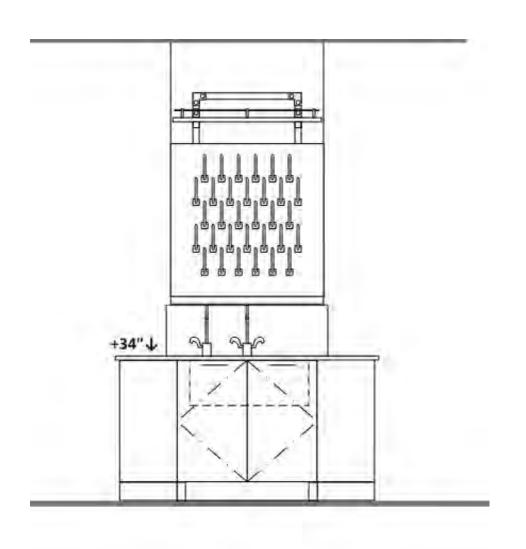


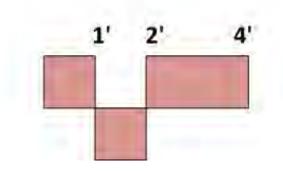
Accessioning Area Room #P210 Elevation D



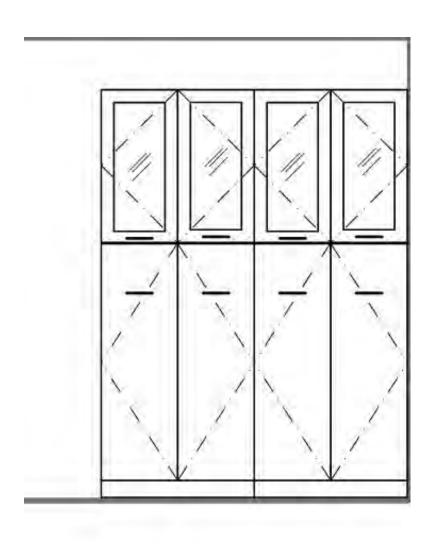


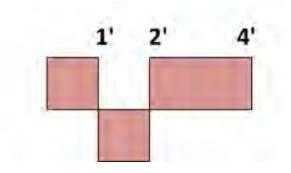
Accessioning Area Room #P210 Elevation E





Accessioning Area Room #P210 Elevation F



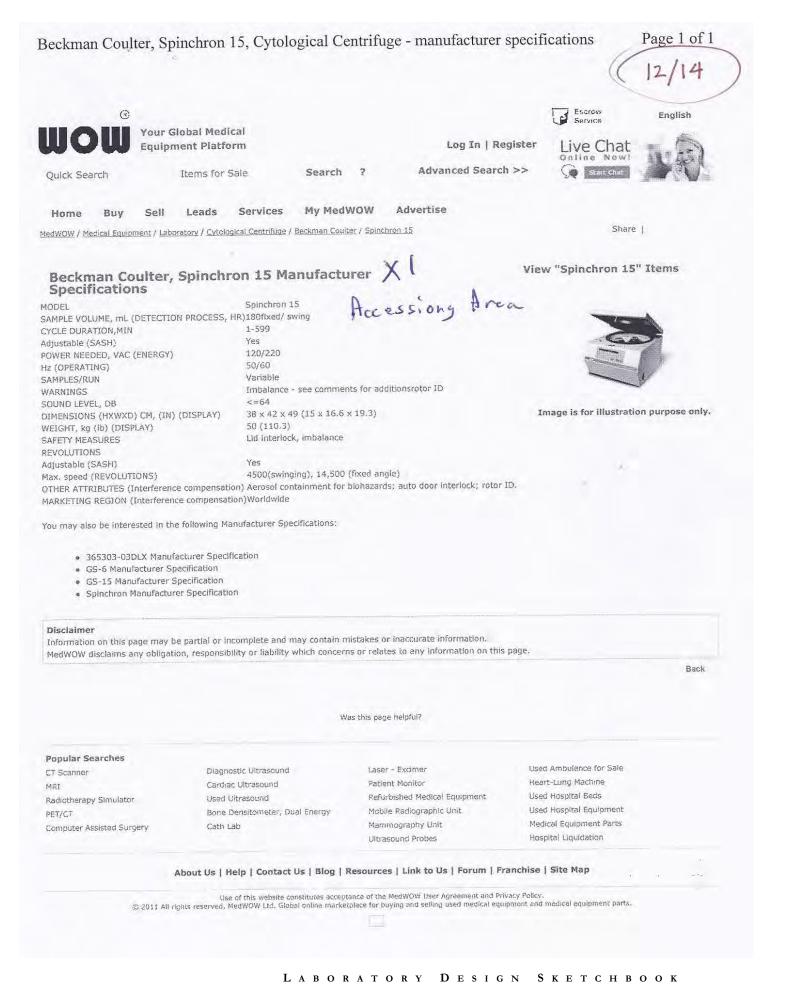


Equipment Schedule

Room/Area:	Accessioning Area	a- Room #F	P210										
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
			1	1				nished Equipme	ent				
EQ-101	Pneumatic tube system	E-237	Varies	Varies	Varies	Varies	W	115v20a1ph	vacuum				Contractor Furnished
	Swiss Logic							standby power					Contractor Installed
							Owner Furnis	hed Equipmen	t				
EQ-102	Benchtop Centrifuge #1	E-241A	16.6"	19.3"	15"	110 lb.	В	120v20a1ph					Owner Furnished
	Spinchron 15							standby power					Owner Installed
EQ-103	Benchtop Centrifuge #2 (x2)	E-241A	21.5"	26"	16"	144 lb.	В	115v20a1ph					Owner Furnished
	Spincrhon DLX							standby power					Owner Installed
EQ-104	Benchtop Centrifuge #3	E-241A	~24"	~24"	~12"	~50 lb.	В	115v20a1ph					Owner Furnished
	Allegra 6							standby power					Owner Installed
EQ-105	Benchtop Centrifuge #4 (x3)	E-241A	21.5"	26"	16"	114 lb.	В	115v20a1ph					Owner Furnished
	StatSpin Exress 3							standby power					Owner Installed
EQ-106	Benchtop Centrifuge #5	E-241A	13"	16"	8"	22 lb.	В	115v20a1ph					Owner Furnished
	StatSpin Express 4							standby power					Owner Installed
EQ-107	Freezer -20 deg C double wide	E-241A	24.75"	35.5"	58.25"	475 lb.	F	208v30a1ph					Owner Furnished
	Revco							standby power					Owner Installed
EQ-108	Freezer -30 deg C	E-241A	29.75"	38.5"	80"	475 lb.	F	208v30a1ph					Owner Furnished
	Helmer							standby power					Owner Installed
								NEMA 6-15					
EQ-109	Refrigerator (new)	New	29.5"	38.5"	78.75"	476 lb.	F	115v20a1ph					Owner Furnished
	Helmer HLR 125		1					standby power					Owner Installed

Pneumatic Tube System Cut Sheet EQ-101 Accessioning Area

pending



Centrifuge Cut Sheet
Spinchron 15
EQ-102
Accessioning Area

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Centrifuge Cut Sheet
Spinchron DLX
EQ-103
Accessioning Area

Specifications Allegra 6KR Allegra 6 Allegra 6R Yes, CFC-Free Yes, CFC-Free Refrigeration 6,100 rpm (Fixed-angle) 6,100 rpm (Fixed-angle) 6,100 rpm (Fixed-angle) Maximum Speed 3,750 rpm (Swinging-bucket) 3,750 rpm (Swinging-bucket) 3,750 rpm (Swinging-bucket) 5,710 x g (Fixed-angle) 5,710 x g (Fixed-angle) 5,710 x g (Fixed-angle) Maximum g-Force 3,210 x g (Swinging-bucket) 3,210 x g (Swinging-bucket) 3,210 x g (Swinging-bucket) 4 x 750 mL 4 x 750 mL 4 x 750 mL Maximum Capacity Timed (0-30 min), Hold Timed (0-30 min), Hold Timed (0-30 min), Hold Run Time Direct, Brush Type Direct, Brush Type Direct, Brush Type Drive ≤ 65 dBa ≤ 65 dBa Noise at Max Speed ≤ 65 dBa -5°C to +25°C -5°C to +25°C Ambient Operating Temperature -10°C to +40°C -10°C to +40°C N/A Set Temperature Range 54.6W x 66D x 40.6H 54.6W x 66D x 67.3H 76W x 66D x 39.4H Dimensions (cm) Lid Closed 21.5W x 26D x 26.5H 21.5W x 26D x 16H Dimensions (in) Lid Closed 30W x 26D x 15.5H 51.7 kg (114 lbs) 90.3 kg (199 lbs) 75.8 kg (167 lbs) Weight without Rotor **Ordering Information** Part No. Description Allegra 6R Centrifuge, 120V/60Hz 366816 366802 Allegra 6 Centrifuge, 120V/60Hz Allegra 6KR Centrifuge, 120V/60Hz 366830 **Rotors and Accessories**

Centrifuge Cut Sheet

Allegra 6

Accessioning Area

EQ-104

Part No.	Description	Max Speed (rpm)	Max RCF, g
360581	4 x 750 mL Swinging-bucket Rotor (GH-3.8) -11 Different Adapters Available	3,750	3,210
360585	Bucket Covers for GH-3.8 only (Set of 2)		
359232	Aerosolve Canisters for GH-3.8 only (Set of 4) -10 Different Adapters Available		
392806	Microplate Carriers (Set of 2) -Each Carrier Accomodates up to 4 Standard Microplates or 1 Deep-well Plate	3,750	2,890
367054	6 x 250 mL Fixed-angle Rotor (GA-6) -5 Different Adapters Available	6,100	5,710

For a complete listing of adapters, visit www.beckmancoulter.com/centrifuge



[•] BioCertified is a term used to describe our products which have been tested and validated to demonstrate containment of microbiological aerosols by an independent, third-party facility (Health Protection Agency, Porton Down, UK or USAMRID, Ft Detrick, MD, USA). Improper use or maintenance may affect seal integrity and, thus, containment.
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LABORATORY DESIGN SKETCHBOOK



StatSpin® Express 3

Primary Tube Centrifuge.

The StatSpin Express 3 provides faster turnaround time and greater productivity for your laboratory. Place it next to any of your STAT analyzers and serum or plasma is ready in just minutes.

With only three (3) settings, it is simple to use. Just select the 2, 3 or 5-minute button and press

start. No fumbling with the settings or the need to readjust the speed. The unit beeps when it is done spinning. For safety, the lid remains locked until the rotor comes to a complete stop.

Samples can be processed as they arrive in the lab. Now you can process as many as eight (8) samples at once for high throughput. The StatSpin Express 3 holds tubes from 1.5 - 10mL in size.

The StatSpin Express 3 is powerful. The rugged brushless motor is maintenance free. The Express 3 comes with a 2year warranty.

Features:

- Fast: Rapid acceleration to optimal "g" forces produces sample separation in as little as 2 minutes!
- Compact: Small, round footprint takes up little bench space and fits well in small corners.
- Quiet: Won't disturb nearby workers.
- Safe: Cover interlock system, chamber gasket and proven mechanical containment for operator safety. UL listed (US/Canada), CE marked.
- Simple to operate: Load tubes, select time and press
- Easy to maintain: 10% bleach-compatible surfaces and polypropylene rotor make cleaning easy. Disposable bowl liners available for added efficiency.

3 - Accessions from 1 - DD Affirm Ropid HIV Bench

Documentation and Literature

- ▶ Datasheet ► Parts
- Tube insert guide
 Blood Bank Study
- Case Studies 1234 Lean Articles: 1234
- ► BD Vacutainer Tubes Study ⊖BD
- Derator manual: Choose Language

Specifications

Spin Select 2 min:120 seconds@7,200rpm/4,440xg

3 min:180 seconds@7,200rpm/4,440xg

5 min:300 seconds@5,600rpm/2,685xg

Cycle Time 2, 3 and 5 minutes Accel Time 25 seconds or less Decel Time 30 seconds or less

Tube Sizes 1.5 to 10mL blood tubes Regulatory UL, cUL and CE marked

Warranty 2 Years

Power 100 to 240V, 50/60Hz, 3.0 amp. Dimensions 7.0" H x 11" W x 10.0" D (8.75lbs)

Specification subject to change without prior notice. StatSpin is a registered trademark of Iris Sample Processing, Inc.

Ordering Information

SSX3 StatSpin Express 3 Centrifuge Includes 8-place rotor (RTX8), removable chamber liner, eight (8) 10mL inserts, eight (8) 5mL inserts and power

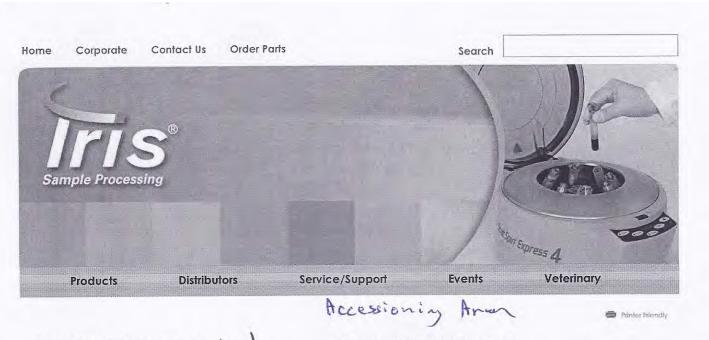
DL02 Disposable bowl liners for SSX3 3/pk.

RTX8 Replacement Express 3 Rotor

Click here for Express 3 animation (2.9Mb)

Centrifuge Cut Sheet StatSpin Express 3 EQ-105 Accessioning Area

LABORATORY DESIGN SKETCHBOOK CLINICAL LABORATORY RENOVATION • VA HOSPITAL LONG BEACH • GKKWORKS • DESIGN FOR SCIENCE • 2012 JAN 02 • PAGE 36



StatSpin® Express 4

High Speed Horizontal Centrifuge

The StatSpin Express 4, high speed horizontal centrifuge provides faster turnaround time and greater productivity for your "lean" laboratory. Place it next to any STAT analyzer and serum or plasma gel tubes are ready in just minutes.

With only three (3) settings, it is simple to use. Just select the 3, 5 or 10 minute button and press start. No fumbling with settings or the need to readjust the speed. For safety, the lid remains locked until the rotor comes to a complete stop. An audible alarm sounds when the cycle is completed. Samples can be processed as they arrive in the lab; no need for batching, no unproductive time spent waiting for the centrifuge.....you'll have results in minutes. Now you can process as many as eight (8) samples at once for high throughput.

The StatSpin Express 4 is powerful. The rugged brushless motor is maintenance free.

Features:

- Fast: In just 3 minutes, the Express 4 can produce serum or plasma equal to tubes spun for 10 or more minutes in a conventional horizontal centrifuge. ▶ Separates gel tubes- rapid separation of gel tubes with
- flat gel barriers to ensure no cell interference. Simple to operate - Just 3 buttons - no fumbling with
- ▶ Versatile Adaptors for 7mL and 10mL tubes come with the unit. It can accomodate tubes from 1.5mL to 10mL.
- > Safe Shield interlock and steel bowl provide mechanical containment for operator safety. UL listed and CE marked.
- ▶ Self-diagnostics Diagnostic error codes indicate imbalance and reduces chance of operator error.
- ► Warranty: complete 2-year warranty

Documentation and Literature

- ▶ Brochure
- ➤ Parts
- > Tube insert guide Clinical Studies 1 2 3 4
- ▶ Lean Articles: 123▶ Leaning toward laboratory efficiency
- ► Improving laboratory efficiency ► BD Vacutainer Tubes Study ⊕ BD
- Derator manual: Choose Language

Specifications

Spin Parameters 3 min: 180 sec @5,100rpm/4,000xg

5 min: 300 sec @5,100rpm/4,000xg

10 min: 600 sec @4,500rpm/3,100xg

Accel Time 30 seconds or less Decel Time 30 seconds or less Tube Sizes 1.5 to 10mL blood tubes Regulatory UL, cUL and CE marked

Warranty 2 Years

Power 100 to 240V, 50/60Hz, 2.5 amps. Dimensions 8.0" H x 13" W x 16.0" D (22lbs)

Specification subject to change without prior notice. StatSpin is a registered trademark of Iris Sample Processing, Inc.

Ordering Information

SSH4 StatSpin Express 4 centrifuge includes eightplace rotor (RTH8), (8) 7 mL inserts, (8) 10mL inserts, manual latch release tool, one hex key tool and powercord.

RTH8 Replacement Express 4 Rotor

Centrifuge Cut Sheet StatSpin Express 4 EQ-106 Accessioning Area

LABORATORY DESIGN SKETCHBOOK CLINICAL LABORATORY RENOVATION • VA HOSPITAL LONG BEACH • GKKWORKS • DESIGN FOR SCIENCE • 2012 JAN 02 • PAGE 37

Freezer Cut Sheet
Revco Double Wide
EQ-107
Accessioning Area

Pending

FREEZERS LABORATORY - HORIZON SERIES MODEL HLF125

SPECIFICATIONS

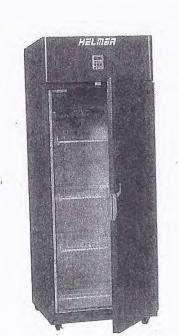
-15°C to -30°C			
24.75" x 58.25" x 30.25"			
29.5" x 80" x 35.5"			
30.75" x 80" x 38.5"			
25.2 cu ft / 714 liters			
Solid galvannealed steel with bacteri resistant powder coating			
4 Epoxy Coated Wire Shelves			
208 / 230V 60Hz 6 FLA NEMA 6-15 Plug			
475 lb			
Minimum of 8" above and 3" behind freezer for ventilation			

FEATURES

- Microprocessor-based temperature controller with:
- Programmable operating temperature
 Programmable high temperature alarm with visual and audible indicators
- LED display of chamber temperature
- Bacteria-resistant powder coated interior and exterior
- · Dual, swivel locking casters
- Key lock

WARRANTY

- 3 Years Compressor
- 2 Years Parts
- 1 Year Labor



FOOTPRINT

HLF125 35.5" | Top View (91cm)

HLF125 View

Overall Denth with door closed 38.5" (98cm)

Overall Depth

with door open 69.5" (177cm) 1

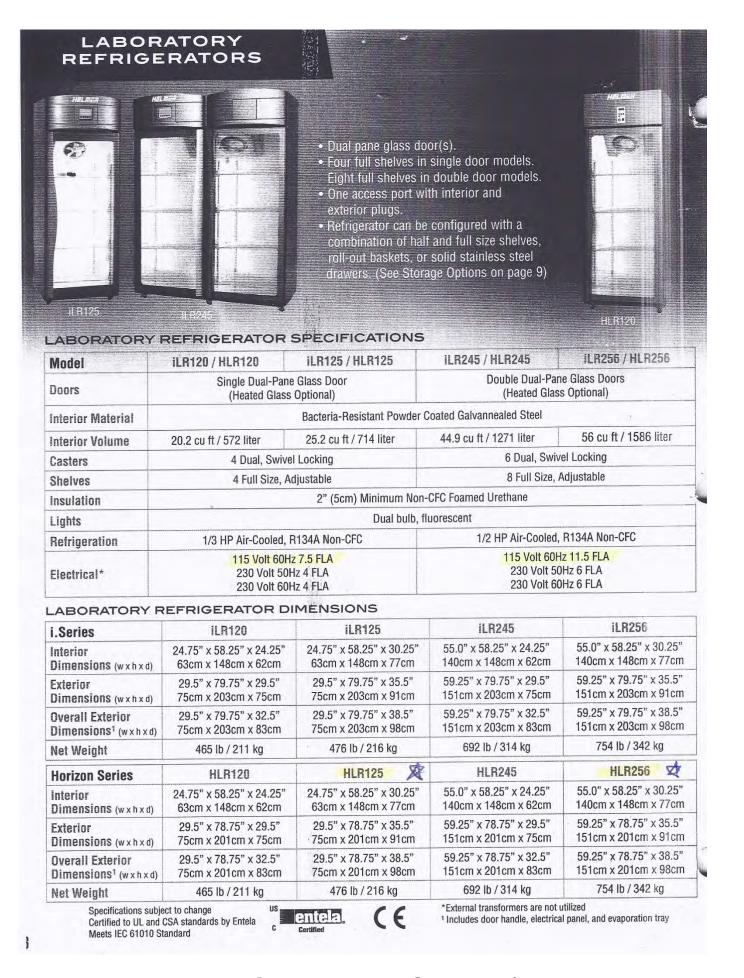
90° door swing-out 31" (79cm)



14395 Bergen Boulevard • Noblesville, IN 46060 USA Toll Free (US & Canada): 800.743,5637 Email: sales@helmerinc.com • www.helmerinc.com

© 2009 Helmer, Inc. Specifications are subject to change Horizon Series™ is a trademark of Helmer, Inc. 380073-1/C 7/09

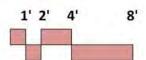
Freezer Cut Sheet EQ-108 Accessioning Area



Refrigerator Cut Sheet EQ-109 Model HLR 125 Accessioning Area

LABORATORY DESIGN SKETCHBOOK

Rapid Response Area Center ↑ Safety shower/eyewash Ref Acc E▼ Urinalysis CW Floor drain workstation Flexible casework system 208v Frz Acc Hematology (2) Procedure (9) workstation Urinalysis (3) workstation CP (1) Hematology workstation 7 workstation DP Urinalysis (7) workstation 208v cart Vertical service chase Accessioning Area ↓



Rapid Response Area- South Contractor Furnished Equipment: None

Owner Furnished Equipment:

- 1. EQ-201: Automate
- 2. EQ-202: Hematology Machine #1 Coulter 750
- 3. EQ-203: Printer
- 4. EQ-204: Hematology Machine #2 Coulter 750
- 5. EQ-205: Coag Analyzer #1 Coulter 500
- 6. EQ-206: Coag Analyzer #2 Coulger 500
- 7. EQ-207: Electrolyte Analyzer
- 8. EQ-208: Micro Osmometer (x2)
- 9. EQ-209: Urinalysis machine

Accessioning:

- 10. EQ-210: Freezer -80 deg C
- 11. EQ-211: Refrigerator Double Wide

Rapid Response Area- South Room #P210

ARCHITECTURAL

Occupancy: B Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile Doors: 3⁰x8⁰ pairs at entry

Acoustic Attenuation: NC 45 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust Pressure: Negative

Pressure. Negative

6 air changes per hour minimum

Heat gain: 50 btuh/sf

ELECTRICAL

110v duplex and fourplex outlets (maximum of (2) fourplex per

Circuit)

Standby power at all outlets

208v30a1ph

Dedicated circuits at all floor equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

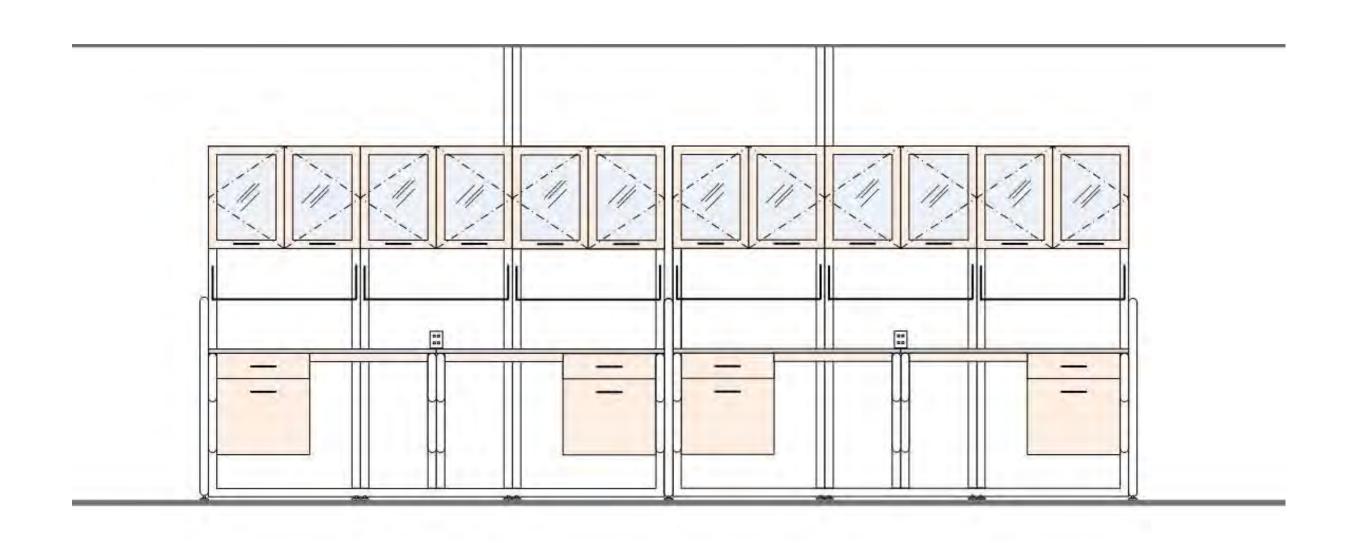
PLUMBING

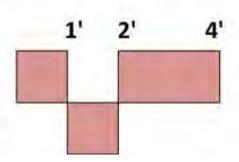
Hot/Cold water (HW/CW) at sinks with hands free controls Pure water (PW) at sinks and selected equipment locations Compressed Air at Automate Cold water & drain at Coulter 750

CONTRACTOR FURNISHED CASEWORK

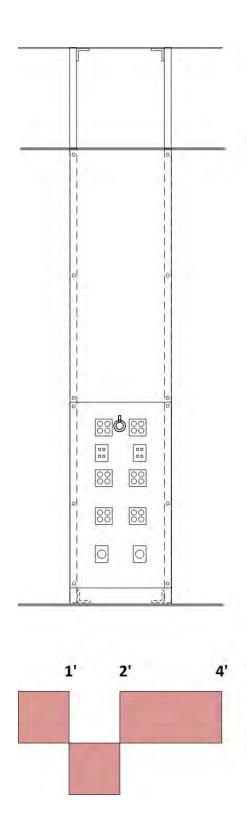
Metal modular casework system Phenolic resin tops Safety Shower/Eyewash

Rapid Response Area- South Room #P210 Elevation A

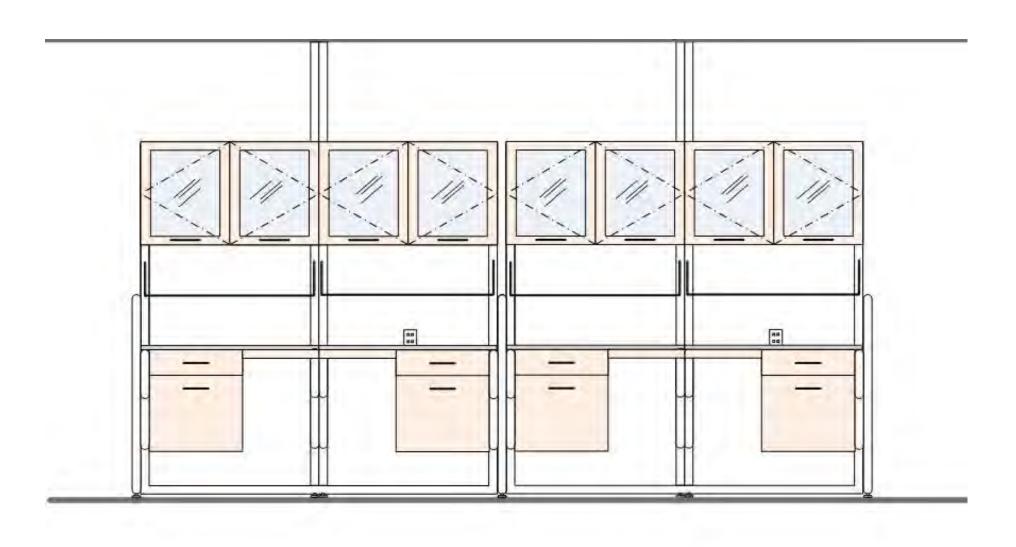


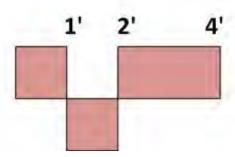


Rapid Response Area- South Room #P210 Elevation B

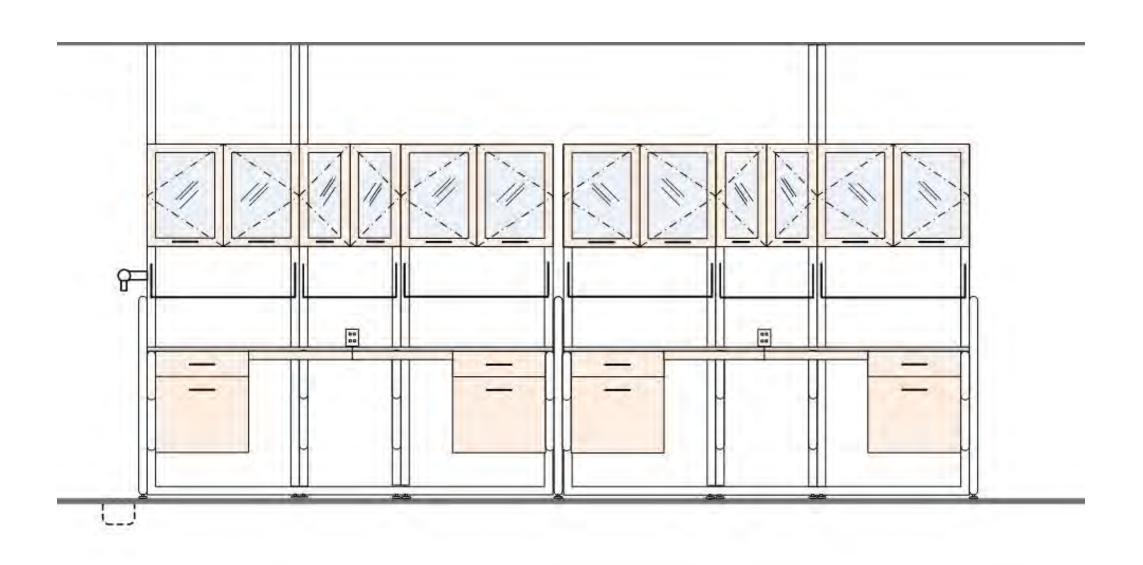


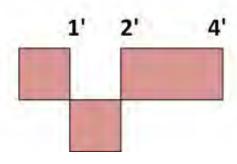
Rapid Response Area- South Room #P210 Elevation C



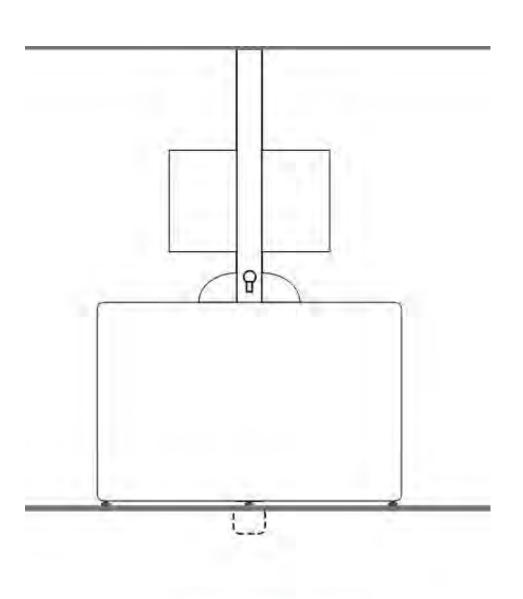


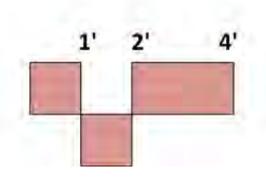
Rapid Response Area- South Room #P210 Elevation D





Rapid Response Area- South Room #P210 Elevation E





Equipment Schedule

Doors / 4 ==	Rapid Response A	rea South-	Roon	า								
Room/Area: Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)					
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Remarks	Responsibility
				<u> </u>	1 - 0 -		•	nished Equipme	·		1 2 2	
						None id	entified to dat	e				
						0	wner Furnis	hed Equipmen	t .			
EQ-201	Automate	E241A	13.3'	3.28'	5.5'	~3000 lb.	F	115v20a1ph 208v30a1ph data standby power	comp. air			Owner Furnished Owner Installed
EQ-202	Hematology machine #1 Coulter LH 750	E241A	54"	24"	35"	330 lb. with power supply	F	115v20a1ph data standby power	cold water drain		includes mobile bench new machines on order ~1/2 size of existing	Owner Furnished Owner Installed
EQ-203	Printer Shared between Coulter 750's	E241A	16.7"	20.1"	17.2"	51.6 lb.	F	115v20a1ph data standby power			includes mobile bench	Owner Furnished Owner Installed
EQ-204	Hematology machine #2 Coulter LH 750	E241A	54"	24"	35"	330 lb. with power supply	F	115v20a1ph data standby power	cold water drain		includes mobile bench new machines on order ~1/2 size of existing	Owner Furnished Owner Installed
EQ-205	Coag Analyzer #1 Beckman Coulter 500	E241A	74"	35"	29"	1,068 lb.	F	115v20a1ph data standby power			includes mobile bench includes printer shared with other Coag Analyzer	Owner Furnished Owner Installed
EQ-206	Coag Analyzer #2 Beckman Coulter 500	E241A	74"	35"	29"	1,068 lb.	F	115v20a1ph data standby power			includes mobile bench	Owner Furnished Owner Installed
EQ-207	Electrolyte Analzer AVL 9180	E241A	14"	14"	14"	17 lb.	В	115v20a1ph data standby power				Owner Furnished Owner Installed
EQ-208	Micro Osmometer Model 3320	E-241A	14"	15"	14"	25 lb.	В	115v20a1ph standby power				Owner Furnished Owner Installed

Equipment Schedule

Room/Area:	Rapid Response Continued	Area South-	Roor	n #P2	10							
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)					
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Remarks	Responsibility
		ı	T	1	T	O	wner Furnis	hed Equipment	ţ			
EQ-209	Urinalysis Machine	E-241A	36"	24"	24"	~200 lb	В	115v20a1ph			includes computer, monitor	Owner Furnished
	IRIS IQ 200							standby power				Owner Installed
EQ-210	Freezer -80 deg C	E-241A	30.75"	38.5"	80"	475 lb.	F	208v30a1ph				Owner Furnished
	Helmer							standby power				Owner Installed
EQ-211	Refrigerator	New	59"	36"	80"	790 lb.	F	115v20a1ph				Owner Furnished
	Double Door							standby power				Owner Installed
	LR558											

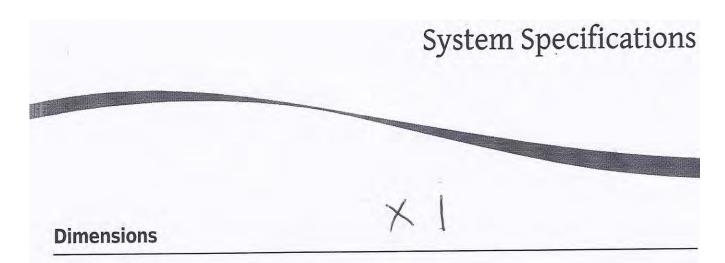


Table D.1 System Dimensions

System	Length	Height	Depth
AutoMate 600	11.3 ft (3.45 m)	5.5 ft (1.68 m)	3.28 ft (1.00 m)
AutoMate 800	13.3 ft (4.05 m)	5.5 ft (1.68 m)	3.28 ft (1.00 m)
PC Work Station (PC, Monitor and Stand)	26 inches (66 cm)	67 inches (170 cm) to top of monitor	36 inches (91.4 cm) with monitor and keyboard arm

Clearance

The following clearances gives adequate area for user movement with all drawers and doors open, and the centrifuge pulled out for maintenance.

Table D.2 Clearance Requirements

Area	Minimum Clearance (cm)
Right Side	24 inches (61 cm)
Left Side	48 inches (122 cm)
Rear	36 inches (92 cm)
Тор	18 inches (46 cm)
Front	36 inches (92 cm)

Automate Cut Sheet EQ-201

Rapid Response Area- South

Table D.4 Power Requirements (Continued)

Item	Requirement					
UPS (Uninterrupted Power Supply)	 Range of Operation: 220 VAC RMS, single-phase, (220 VAC nominal) Power Line: 16A (Europe), 20A (North America) Consumption: 9A nominal Frequency: 50/60 Hz nominal Receptacle: Standard per local regulations Backup Time: 30 minutes minimum at full load 					
Auto <i>Mate</i> Control Computer, Instrument Manager (each)	 Range of Operation: 100–240 VAC RMS, single-phase, (115/230 nominal VAC) Power Line: 16A (Europe), 20A (North America) Consumption: 3A nominal, 6.3A peak Frequency: 50/60 Hz nominal Receptacle: Standard per local regulations 					
Okidata LED Printer	 Range of Operation: 110 (99–140) VAC RMS, single-phase, OR 208 (220–240) VAC RMS, single-phase Power Line: 16A (Europe), 20A (North America) Consumption: 6A nominal @110 VAC, 9A peak, 3.2A nominal @220 VAC, 5.6A peak Frequency: 50/60 Hz nominal Receptacle: Standard per local regulations 					
Compressor (Optional)	 Supplied from an external power distribution system. 230 VAC, 60 Hz, 15A or 120 VAC, 60 Hz 					

Compressed Air Requirements

99.5 psi or 7 Bars at a flow rate of 2.8 cfm or 80 L/min minimum, and moisture content of less than 1%, that uses a 5 micron filter and mist separator with an auto drain.

System Output

Table D.5 System Output

Item	Output
Heat Output	23,634 BTU/hr
Noise Output	<84.5 dB

Environmental Requirements

Table D.3 Environmental Requirements

Item	Requirement				
Altitude	Must not exceed 6562 ft (2000 m)				
Ambient Temperature	+18°C to +30°C; 2°C change within 30 minutes				
Humidity	25% to 85%; no condensation				
Location	Indoor use only; no direct sunlight or severe drafts. A level floor that does not vibrate.				
Pollution Degree	2				

Power Requirements

The line voltage must be free of power surges (overvoltage category II), power changes, and loss of power for the protection of the electronic circuits.

Table D.4 Power Requirements

Item	Requirement
Track System and Control Electronics	Range of Operation: 200–240 VAC RMS, single-phase, (220 VAC nominal)
Licentines	Power Line: 16A (Europe), 20A (North America)
	Consumption: 6.3A nominal
	Frequency: 50/60 Hz nominal
	Receptacle: Standard per local regulations
Centrifuge Drive	Range of Operation: 200–240 VAC RMS, single-phase, (220 VAC nominal)
	Power Line: 16A (Europe), 20A (North America)
	Consumption: 8A nominal
	Frequency: 50/60 Hz nominal
	Receptacle: Standard per local regulations
	NOTE The Centrifuge module requires a minimum of 205 VAC.
Centrifuge Refrigeration	 Range of Operation: 200–240 VAC RMS, single-phase, (220 VAC nominal)
3	Power Line: 16A (Europe), 20A (North America)
	Consumption: 6A nominal
	Frequency: 50/60 Hz nominal
	Receptacle: Standard per local regulations

Automate Cut Sheet EQ-201; Page 2 Rapid Response Area- South

4.1 PHYSICAL SPECIFICATIONS

Dimensions

Unit	Height*	Width*	Depth*	Weight
Analyzer/Diluter	88.9 cm	101.6 cm	61 cm	93.2 k
	(35 in.)	(40 in.)	(24 in.)	(205 lb)
Power Supply	59 cm	35.5 cm	60 cm	56.7 k
	(23.3 in.)	(14 in.)	(24 in.)	(125 lb)
* ±5.1 cm (2 in.)				

Power

Input

Power Supply:

90 - 264 Vac, 47 - 63 Hz

Workstation:

90-135 Vac, 47-63 Hz or 180-265 Vac, 47-63 Hz

Consumption

2080 W (5500 BTU/h) maximum

Installation Category: per IEC 1010-1, Category II

4.2 PERFORMANCE SPECIFICATIONS--LH 700 Series

The LH 700 Series consists of three subsystems, designated as "CBC" (Complete Blood Count), "WBC Differential" and "Retics." The CBC subsystem is based on the established Coulter principles of automated cell counting. The WBC differential subsystem is based on the Coulter principles of leukocyte differential counting as embodied in the COULTER VCS. The Retics subsystem is based on the Coulter volume, conductivity and light scatter technology.

Performance specifications stated apply only to an instrument that has been properly maintained as indicated in the COULTER LH 700 Series documentation, using the recommended reagents.

If the average room temperature should change more than 5.5°C (10°F) from the calibrating temperature, verify calibration and recalibrate if necessary to ensure conformance to specifications.

Precision

Within-Run Precision

Within-run Precision is based on at least 31 determinations of the same sample. See Table 4.1.

Hematolgy Machine Coulter 750 Cut Sheet

EQ-202; EQ-204

Sunlight and Drafts

Rapid Response Area- South

Do not place the system in direct sunlight or in drafts. Both of these conditions may affect the temperature control of the system.

Drain

The system should be located near a sink or floor drain to accommodate the waste effluent at a minimum rate of 6 liters/hour (16 liters/hour continuous flow).

The drain must not be placed any higher than 36 inches (91.4 cm) above the floor.

Power Requirements

Table 1.3 Power Requirements - DxC 600 or 800 Analytic Unit

Item	Requirement
Operating range	200–240 VAC ± 10% (180–264 VAC) 14 A at low line, exclusive of power on surge
Frequency	50/60 Hz
BTU generated	10,500 BTU/hour
Power connector	20 A current rating, NEMA L6[]20R twistlock in-line connector

Table 1.4 Power Requirements – DxC Console (PC System and Monitor)

Item	Requirement				
Operating range	100-120 VAC ± 10% (90-132 VAC); 4A OR 200-240 VAC ± 10% (180-264 VAC); 2A				
Frequency	50/60 Hz				
BTU generated	1,500 BTU/hour				
Power connector	15 A current rating, IEC 320 standard connector				

Hematology Printer Cut Sheet

Hematology Printer Cut Sheet

EQ-203

Rapid Response Area- South

Product specifications

	<u></u>		/				
	Lexmark T650n	Lexmark T652n	Lexmark T654n				
Printing							
Print Technology	'	Monochrome Laser					
Print Speed (Letter, Black): Up to	45 ppm	50 pom	55 ppm				
Time to First Page (Black)		As fast as 7.5 seconds	44,64				
Print Resolution, Black	1200 knage Quality, 1200 x 1200 dpi, 2400 knage Quality, 600 x 600 dpi						
Memory, Standard	128 MB	128 MB	256 MB				
Memory, Maximum	640 MB	640 MB	1280 MB				
Print Noise Level, Operating	53 dBA	54 dBA	55 dBA				
Noise Level, Idle	26 dBA	30 dBA	30 <i>d</i> BA				
Maximum Monthly Duty Cycle: Up to	200,000 pages per month	225,000 pages per month	300,000 pages per montin				
Recommended Monthly Page Volume	3,000 - 20,000 pages	3,000 - 30,000 pages					
	3,000-20,000 psys		5,000 - 50,000 pages				
Supplies	1 05 0001	T 05 000					
Supplies Yield	25,000'-page High Yield Print Cartridge, "Average	25,000'-page High Yield Print Cartridge, 'Average	25,000'-page High Yield Print Cartridge,				
	standard page yield value declared in accordance	standard page yield value declared in accordance	"Average standard page yield value declared in				
	with ISO/IEC 19752., 7.000*-page Print Certridge	with ISO/EC 19752., 7,000*-page Print Cartridge	accordance with ISO/IEC 19752., 7,000 -page				
			Print Cartridge, 36,000*-page Extra High Yield				
			Print Certridge				
Cartridge(s) Shipping with Product	7,000'-pago Return Program Print Cartridge	10,000" page starter Return Program Print	10,000'-page starter Return Program Print				
		Cartridge	Cartridge				
Paper Handling			- Continue of the continue of				
Paper Handling Standard	100-Sheet Multipurpose Feeder, 250-Sheet Input	100-Sheet Multipurpose Feeder, 550-Sheet Input	100-Sheet Multipurpose Feeder, 550-Sheet Input				
	Tray, 350-Sheet Output Bin	Tray, 350-Sheel Output Bin	Tray, 550-Sheet Output Bin				
Paper Handling Optional	1,850-Sneet High-Capacity Output Stacker,	1,650-Sheet High-Capacity Output Stacker,	1,850-Sneet High-Capacity Output Stacker.				
	200-Sheet Universally Adjustable Tray with	200-Sheet Universally Adjustable Tray with	200-Sneet Universally Adjustable Tray with				
	Drawer, 400-Sheet Universally Adjustable Tray	Drawer, 400-Sneet Universally Adjustable Tray	Drawer, 400-Sneet Universally Adjustable Tray				
	with Drawer, 5-Bin Mailbox, 550-Sneet Drawer,	with Drawer, 5-Bin Mailbox, 550-Sheel Drawer,	with Drawer, 5-Bin Mailtoox, 550-Sheet Drawer.				
	Envelope Feeder, 250-Sheet Drawer, 250-Sheet	Envelope Feeder, 250-Sneet Drawer, Optional	Envelope Feeder, 250-Sheet Drawer, Optional				
	Duplex Unit, Optional furniture required., 550-	furniture required., 550-Sheet Output Expander,	furniture required., 550-Sheet Output Expander,				
	Sheet Output Expander, StapleSmart I Finisher,	StapleSmart II Finisher, 2,000-Sheet High	StapleSmert Il Finisher, 2,000-Sheet High				
	2,000-Sneet High Capacity Feeder (Caster Base	Capacity Foodor (Caster Base required)	Capacity Feeder (Caster Base required)				
	required)	catachy i cocc (coole table (catachy)	Capacity (Cocco (Cossie Cosse (Agricul)				
Paper Input Capacity, Standard: Up to	<u> </u>	050 asses 00 h as 76 asses hand	C50 C0 b 75 b d				
	350 pages 20 to or 75 gsm bond	650 pages 20 to or 75 gsm bond	650 pages 20 lb or 75 gsm bond				
Paper Input Capacity, Maximum: Up to	4000 pages 20 to or 75 gsm bond	4300 pages 20 to or 75 gsm bond	4300 pages 20 to or 75 gsm bond				
Paper Output Capacity, Standard: Up to	350 pages 20 lb or 75 gsm bond	350 pages 20 to or 75 gs/m bond	550 pages 20 to or 75 gsm bond				
Paper Output Capacity, Maximum: Up to	2750 pages 20 b or 75 gsm bond	2750 pages 20 to or 75 gsm bond	2950 pages 20 lb or 75 gsm bond				
Media Types Supported	Card Stock, Dual Web Labels, Envelopes, Integrated	Labels, Paper Labels, Plain Paper, Polyoster Labels, 1	Fransparencies, Vinyl Labels, Refer to the Card Stock				
		& Label Guide					
Media Sizes Supported	10 Envelope, 7 3/4 Envelope, 9 Envelop	e, A4, A5, DL Ervelope, A6 Card, Executive, Folio, Jk	S-B5, Legal, Letter, Statement, Universal				
Compatibility							
Network Protocol Support	TCP/P PA	4, PX/SPX, AppleTalkT4, LexLink (DLC), TCP/P IP46,	TCP, UDP				
Printer Languages (Standard)	POL 5e Emulation, POL 6 Emulation, Personal Printer	r Data Stream (PPDS), PostScript 3 Emutation, xHTM.	, PDF 1.6, Direct Image, Microsoft XPS (XML Paper				
		Specification)					
Standard Ports	One Internal Card Stot, USB 2.0 Specification	One Internal Card Slot, USB 2.0 Specification	One Internal Card Stot, USB 2.0 Specification				
	H-Speed Certified (Typo B), Front US3 Port	H-Speed Certifed (Type B), Front USB Port	H-Speed Certified (Type B), Front USB 2.0				
	Compacible with USB 2.0 Specification (Type A),	Compatible with USB 2.0 Specification (Type A),	Specification H-Speed Certified Port (Type A),				
	Elhernet 10/100BaseTX (RJ-45), also works with	Elhemet 10/100BaseTX (RJ-45), also works with	Rear USB 2.0 Specification H-Speed Certified				
	1000Base-T	1000Base-T	Port (Typo A), Ethernel 10/100BaseTX (RJ-45),				
			also works with 1000Base-T				
Microsoft Windows Operating Systems Supported	2000, XP. Server 2003, XP x64, Server 2003 running	Tormical San irong 2000 San or a poince Tormical San					
	minal Services, Vista, Vista x64, Server 2008, Server 2						
Apple Macintosh Operating Systems Supported	 	Man OS V Man OS OS					
		Mac OS X, Mac OS 9.2					
Other Operating Systems Supported	<u> </u>	www.lexmark.com					
General Manager							
Product Warranty	-	1-Year Exchange Service, Next Business Day					
Product Certifications		www.lexmark.com					
Size (in H x W x D)	13.7 x 16.7 x 19.4 in.	16.8 x 16.7 x 20.1 in.	17.2 x 16.7 x 20.1 in.				
Weight (ib.)	40.6 fb.	50.7 lb.	51.6 ib.				
Specified Operating Environment		90°F), Hurnidity: 8 to 80% Relative Hurnidity, Atitude:					

ACL TOP 500 CTS System Specifications

Throughput (Base Unit)

PT Up to 240 samples/hour
APTT Up to 180 samples/hour
PT & APTT Up to 180 samples/hour

Time to First Result

PT: < 3 minutes
APTT: < 5 minutes
D-Dimer: < 7 minutes

Capacity

Samples on board 80 (10 samples per rack)
Reagents on-board 40 (refrigerated)

Cuvetles on-board 800 Tests per sample 30

Applications

· On-board Up to 500 · User programmable Up to 250

System Features

- Continuous operation
- · Continuous sample and reagent loading
- · Sample predilution
- · Calibration curve predilution
- · STAT capability (at any time, in any position)

Barcode Reader

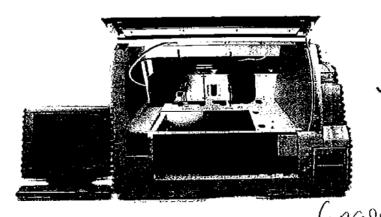
Integrated sample and reagent barcode reader Barcoded reagent tracking includes material name, lot #, exp. date, vial size and on board volume

Software Features

- · Rerun/Reflex testing (configurable)
- Clot Signature Curves
- Factor parallelism
- · Quality control program (with configurable multi-rules)
- · Results autovalidation
- · Events log system
- · Bi-directional interface
- Host query function
- Security system (configurable)

Database

Patient samples results up to 20,000 samples



Operator Interface

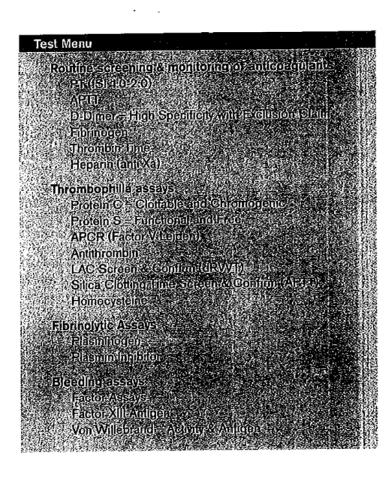
Operating System Windows XP

Video Display 17" color LCD touch-screen (external)

Keyboard Standard Printer External

Dimensions/Weight (analyzer)

Height 29 in. (73 cm)
Width 43 in. (110 cm)
Depth 35 in. (89 cm)
Weight 312 lbs. (141 kg)



Coag Analyzer Coulter 500 Cut Sheet EQ-205; EQ-206

Rapid Response Area- South

4 Ambient Specifications

- In accordance with IEC 1010 safety standard, paragraph 1.4, there is no safety hazard in the temperature range 5-40° C.
- Operate at ambient temperature of 15°C to 32°C (59°F to 89°F)
- Altitude: Maximum 6560 feet (2000 meters)
- Relative humidity of 5% to 85% (non-condensing)

5 Audible Noise Emission

- Maximum of 70 dBA
- Meets specifications for the safety requirements for electrical and laboratory equipment, EN61010.1.

6 Electrical Specifications

- The ACL TOP is single phase, has current leakage of less than 500 µAmps, and produces 2,049 BTU's per hour.
- The instrument has been designed to operate correctly with electrical variations of up to ±10% on the nominal supply and with supply frequencies between 47 and 63 Hz.
- The supply voltage in the laboratory is required to be compatible with the label on the rear of the analyzer as shown in the following table:

Value of supply voltage for normal function	Current (A)	Value as shown on the label
240V AC ± 10%	5 A	100-240 VAC
115V AC ± 10%	10 A	100-240 VAC
100V AC ± 10%	10 A	100-240 VAC

ACL TOP Volt-Amps Specifications (Volts, Amps, Volts/Amp, Watts, Frequency)

o ACL TOP 500 CTS Analytical Module

HOL TOT DO				
100 VAC	10A	1000 VA	600 W	50/60Hz
115VAC	10A	1150 VA	600 W	50/60Hz
240VAC	5A	1200 VA	300 W	50/60 Hz

o ACL TOP 500 CTS Control Module

100 VAC	6A	600 VA	600 W	50/60Hz
115VAC	6A	690 VA	600 W	50/60Hz
240VAC	3A	720 VA	300 W	50/60 Hz
	115VAC	115VAC 6A	115VAC 6A 690 VA	115VAC 6A 690 VA 600 W

o ACL TOP 500 CTS Monitor

12 VDC	4.16A	50 VA	50 W	50/60Hz

 The power cord provided with the instrument is a certified cord and three-prong, double insulated, grounded (NEMA) receptacle and plug.

ACL TOP Family Specifications

- 1 Hardware
- Analytical unit
- Control module external, Pentium IV
- Monitor 17" color LCD, with touch screen
- PC keyboard/Mouse: Standard

2 Physical Specifications

	ACL TOP	ACL TOP	ACL TOP	ACL TOP
	700 LAS	Base	CTS	500 CTS
Weight	The state of the s	162 kg 356 pounds	166 kg 367 pounds	141 kg 312 pounds
Height	73 cm	73 cm	73 cm	73 cm
	29 inches	29 inches	29 inches	29 inches
Depth	87 cm	87 cm	87 cm	89 cm
	34 inches	34 inches	34 inches	35 inches
Width	188 cm 74 Inches (on table)	151 cm 59 inches	151 cm 59 inches	110 cm 43 inches

- Monitor
 - o Height: 17 (43.1 cm)
 - o Width: 14 (35.5 cm)
 - o Depth: 3 inches (7.6 cm)
 - Requires an input voltage between 100-240V and amperage of 1.8-0.9A.
- · Control module:
 - o Height: 17.5 (44.4 cm)
 - o Width: 7.5 (19 cm)
 - o Depth: 19 inches (48.2 cm)
 - o Weight: 37 pounds (16.8 kg)
 - Requires an input voltage between 100-240V and an amperage of 3.5A
- Cart
 - o Height; 32 inches
 - o Width: 60 inches
 - o Depth: 30 inches
- Shipping crate with instrument
 - o Height; 68 inches
 - o Width: 71 inches
 - o Depth: 38 inches
 - o Weight: ~1068 pounds
- Spatial Requirements:
 - o At least 6" must be allowed around the instrument for circulation of air
 - The instrument must be positioned so the waste tube can be connected on its right side
- 3 Interfaces (LIS)
- Host Communications Configuration
- ASTM-1394 Configuration

Coag Analyzer Coulter 500 Cut Sheet

EQ-205; EQ-206

Page 2

Rapid Response Area- South

			Home View Cart	My Account/Order Status He	elp Contact Us
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REGISTER			Our Price: \$2,750.00	t add to	sait
Recertified Equipment			Manufacturer: Roche Diagnostics Shipping Info: Shipping Charges Extr	a <u>Add to Wi</u>	sh List
New Arrival	Roche AV	L 9180	Shipping Weight: 17 Shipping Dimensions: 14x14x14		
Autoclaves	arger photo	email a friend	Product Code: AVL-9180		
Balances and Scales	Description				
Block Scientific Products	AVL 9180				
Blood Gas Analyzers					
Blood Gas Reagents, Controls, Consumables		y Roche Diagnostics. AVL 918	alysis system from Roche Diagnostic 80 is a small system intended for use		er of this
Controls, Consumables			ytic analysis from whole blood as we		rum or
Centrifuges			e and provide fast sample analysis. This instrument's enhanced micropro		sy to use
Centrifuge Parts &	design provides top perform	ance and operational flexibil	ity. Quick change of analyte, user fi ttained with the use of AVL 9180.		77.3000
Accessories		ut available from Block Scier			
Centrifuge Rotors &	Electioned for metaded, p		7,000		
Accessories	Features				
Chemistry Analyzers	 Test panel Cuvette holder for 18 	R nositions			
Chemistry Reagents,	Cassette system (Sna Maintenance free ele	pPak)			
Controls, Consumables	 Recertified with 90 c 		ilable		
Coagulation Analyzers	Service contracts ma	y be available			
Coagulation Reagents,	Accessories & Consumables	for this product			
Controls, Consumables	Na Electrode Our Price: \$358.00	Cleaning Solution Our Price: \$19.00	Reagent Cal Pack 9140 Our Price: \$143.50	K Electrode Our Price: \$295.00	
Co-Oximeters	Add 🔲	Add 🗌	Add 🗌	Add 🗌	
Differential Counters		11		* *	
Disinfectant	-				
DNA Analyzers	Our Price: \$269.00	Na/pH Conditioning Sol Our Price: \$19.00	Our Price: \$143.50	Reference Electrode Our Price: \$410.00	
Dry Bath Incubators	□ bbA	Add L	Add L	Add 🗌	
Electrolyte Analyzers					
Electrolyte Reagents,	Peri Pump Tubing	Thermal Printer Paper	Reagent Cal Pack 9180	Reference Housing	
Controls, Consumables	Our Price: \$96.20 Add	Our Price: \$42.00 Add	Our Price: \$143.50 Add	Our Price: \$467.00 Add	
ELISA Kits and Antibodies	DI BHOEN'X	DESERVE		IS SHEEVE	
Flow Cytometers	7. Ff				
Gamma Counters	Ca Electrode Our Price: \$269.00				
Hematology Analyzers	Add December				
Hematology Reagents,	Related Products				
Controls, Consumables	Medica EasyElectrolytes	AVL 9130			
Histology and Cytology	Our Price: \$2,350.00 Add	Our Price: \$2,450.00 Add			
Disposables		77			
Histology and Cytology Equipment	Share your knowledge of this	product with other customer	rs Be the first to write a review		
	Browse for more products	in the same category as thi	s item:		
Hotplates	TANKS THE CONTRACTOR	The second second second			

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Electrolyte Analyzer Cut Sheet EQ-207 Rapid Response Area- South





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Advanced® Micro-Osmometer, Model 3320, Advanced Instruments



ORDER

SPECIFICATIONS

Determines the osmolality of solutions using freezing point depression (FPD). Ideal for serum, urine, or other bodily fluids in clinical applications, and media or formulations in pharmaceutical, biotech, or industrial applications.

Automated, single-sample instrument is designed to process a sample with a one-minute test time. Features ease-of-use, internal diagnostics, automated calibration, on-board statistical analysis, and an ergonomic and compact design. Recalls up to the last 30 test results. Multi-language operation. Password lock-out.

F marked, FTI listed.

Ordering Information: One-year limited manufacturer's warranty on workmanship and all parts except glass, plastic, and parts warranted by their makers. For additional calibration standards, reference and control solutions, or accessories, contact your VWR representative.

ADD TO BASKET VIEW SHOPPING BASKET

Description
Supplier No.
Cat. No.
Unit
Price
Quantity

Micro-Osmometer
3320
80090-640
Each
\$11,228.85

S

Please verify that you have logged in. This item is restricted for purchase to customers with an established access to this item, please contact us for additional help at 1-888-320-4357.

ADD TO BASKET VIEW SHOPPING BASKET

35.5H x 35.5W x 38.1D cm (14 x 14 x 15") Dimensions Drift Electrical 100-240V, 50-60Hz, 60W **Humidity Range** 5-80% relative humidity (non-condensing) Linearity \<±1% from a straight line over calibrated range (at reference conditions) 18 to 35°C (64 to 95°F) Operating Temperature Range 0-2000 mOsm Range 0-400 mOsm: ±2 mOsm/kg (1 S.D.); 400-2000 mOsm: ±0.5% (1 S.D.) (at reference conditions Repeatability 20 µL Sample Volume Start delay **Test Time** 60 sec.

ACCESSORIES

Weight

Description	Supplier No.	Cat. No.	Unit	Price	Quantity
Osmolality Linearity Set, 5 Level, 10 x 5 mL	3LA028	52198-164	Each	\$74.40	0
Sampler Plunger Wire	3M0828	52197-456	Pack of 2	\$98.68	0
50 mOsm Calibration Standard, 2 mL	3MA005	52196-124	Pack of 10	\$53.14	0
Protinol® Osmometer Serum Control Kit, 3 Level, 9 x 3 mL	3MA028	52196-130	Each	\$181.10	0
Clinitrol™ 290 Reference Solution, 2 mL	3MA029	52196-126	Pack of 10	\$67.23	0
850 mOsm Calibration Standard, 2 mL	3MA085	52196-128	Pack of 10	\$53.14	0
Sample Tips and Chamber Cleaners, Box of 500	3MA800	52196-122	Each	\$418.34	0

11.4 kg (25 lbs.) shipping, 6.1 kg (13.4 lbs.) net

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ADD TO BASKET VIEW SHOPPING BASKET

ADD TO BASKET VIEW SHOPPING BASKET

EQ-208 Rapid Response Area- South

Micro Osmometer Cut Sheet



Installation Requirements

Space Requirements

The $iQ_{s,n}$ is a tabletop unit requiring free space on a standard (36 inch: 0.9m) height countertop of approximately 36 inches wide by 24 inches deep (91cm by 61cm), with vertical clearance of at least 24 inches (61cm).

The unit with the Load/Unload Stations attached will increase the width by 26.4 inches (67cm).

PC Module

The PC Module is a desktop computer, video monitor, keyboard and mouse. It requires a suitable counter or desktop that provides comfortable access and a good viewing angle. It is suggested that, if possible, the PC Module Monitor, Keyboard and Mouse be placed in a work area that can be semi-darkened to increase screen display visibility and reduce glare.

The data connections are made between the Microscopy Module, the PC Module, and the AX-4280, if applicable, via the special cables provided.

Location

For most laboratories, the iQ_{joo} is placed near an open benchtop work area which can be allocated for filling and labeling urine tubes and preparing sample racks. All data transmissions from the iQ_{joo} (and the AX-4280 , if used) are routed to the Analysis Processor, which manages and controls all communications to the Laboratory Information System (LIS) via serial connections.

Requirements

The system has few special environmental requirements. It uses alternating current at 100V to 240V and 50 Hz to 60 Hz. (Input voltage and frequency selection does not require customer intervention.) Uninterruptible power supplies are recommended for the $iQ_{j^{m}}$ and the Analysis Processor (and the AX-4280, if applicable) to maintain system operation during short power outages and brownouts. This allows for an orderly shutdown of instruments without the loss of data.

Input power of the instrument is 110VAC @ 1.4A, 220VAC @ 0.7A.

There are no special air conditioning requirements.



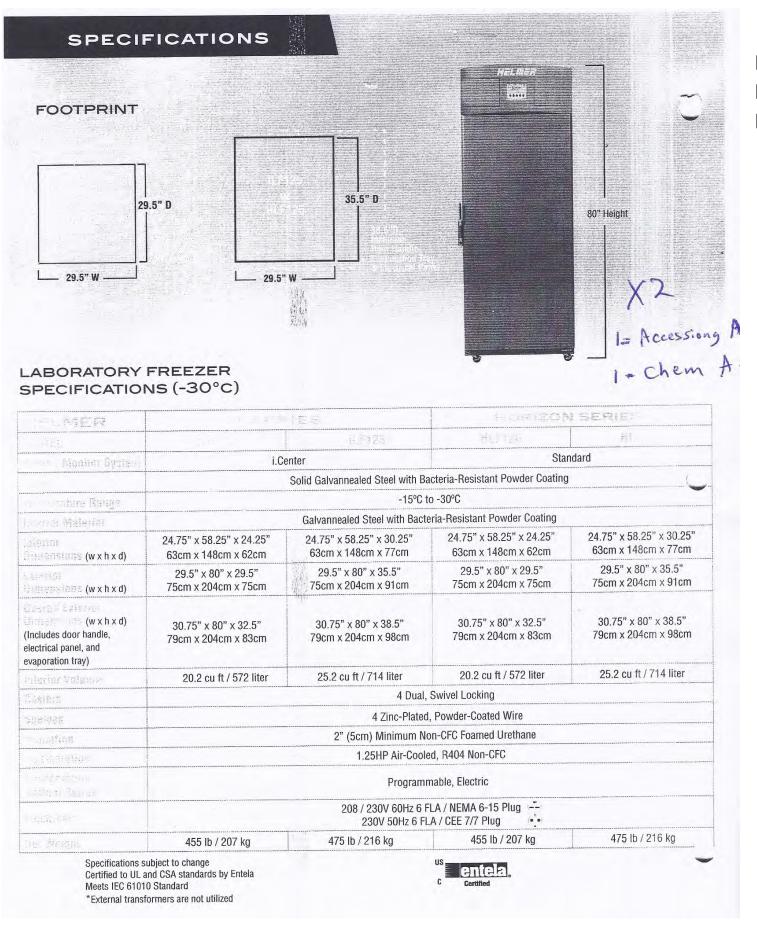
CAUTION: The equipment inside fixed covered areas of the instrument is not operator serviceable and may present electrical shock hazards.

300-4400 Rev A 07/200

1Q 200 Operators Manual

2-21

Urinalysis Machine Cut Sheet EQ-209 Rapid Response Area- South



Freezer Cut Sheet
EQ-210
Rapid Response Area- South
Belongs to Accessioning

LABORATORY AND BIOLOGICAL REFRIGERATORS AND FREEZERS

GENERAL-PURPOSE LABORATORY REFRIGERATORS

- · Ideal for a wide range of life science, clinical and industrial applications.
- Four upright models (capacities from 16.9 to 55 cu. ft.) feature galvannealed steel interior and exterior with textured beige enamel exterior finish and white enamel interior finish. Stainless steel optional.
- · Adjustable stainless steel wire shelves.
- 5.4 cu. ft. capacity undercounter and 6.6 cu. ft. capacity wall-mounted models available in standard and pass-through designs.

CYLINDRICAL REFRIGERATORS

· With rotating shelves and triple-pane, cloud-proof glass doors.

PHARMACY AND BIOLOGICAL REFRIGERATORS

- Ideal for biotechnical and pharmaceutical cold storage applications.
- Four upright models (capacities from 16.9 to 55 cu. ft.) with galvannealed steel interior and exterior. Stainless steel optional.
- · Adjustable stainless steel drawers.

CHROMATOGRAPHY REFRIGERATORS

- · Ideal for gel permeation for cancer and DNA separations as well as for reverse-phase chromatography.
- · Two upright models (capacities of 24.8 and 55.0 cu. ft.).
- · Two vapor-proof covered access portholes.
- Interior multiple-outlet power receptacles with external switches for interior lights and power.

Double door

Wall-mounted

Pass-Through

WM7BD

186 ltr.

6.6 cu. ft.

186 ltr.

FLAMMABLE MATERIAL STORAGE REFRIGERATORS AND FREEZERS (FMS)

- Features coldwall cooling system to provide an interior safe from explosion due to sparking of interior finishes and fixtures.
- Three upright models (capacities from 16.9 to 55 cu. ft.), one undercounter model (5.4 cu. ft.) and five wall-mounted models (1.5 and 3.2 cu. ft.) including two passthrough designs and one freezer.

EXPLOSION-PROOF REFRIGERATORS

- · All controls and wiring fully sealed outside cabinet in U.L. listed conduit or cast aluminum housing.
- Two upright refrigerators (capacities 11.8 and 21.0 cu. ft.) and one undercounter refrigerator (4.9 cu. ft.) available.
- · Built to meet all specifications of U.L. and the National Fire Underwriters Code.

DUAL-TEMP LAB/BIO REFRIGERATORS/FREEZERS

- · Convenience of two separate cooling compartments in choice of two space-saving units (11.0 and 30.5 cu. ft. capacity refrigerators; 4.7 cu. ft. freezer for each).
- · Stainless steel interior standard.
- · Features adjustable stainless steel drawers and wire shelves.

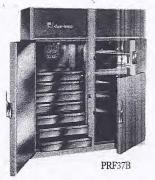
LABORATORY FREEZERS

 Four upright models (capacities from 16.9 to 55.0 cu. ft.), two 4.6 cu. ft. capacity undercounter models (including FMS unit) and one 3.2 cu. ft. capacity wall-mounted model. All feature stainless steel interior construction.



CR25B





142 kgs.

326 lbs.

148 kgs.

Amperage/Breaker 115V, 60Hz. 220V, 50/60Hz. Condensing Unit Shipping Weight lbs/kg BTU/Hr. Refrigerant Model No. WxDxH in/cm GENERAL-PURPOSE LABORATORY REFRIGERATORS (+4°C) LR17B 29" x 30" x 73.6" 6.5/15:0 3.3/15.0 1/3 HP 2400 134a (4) 16.9 cu. ft. 74 x 76 x 195 258 kgs. 479 ltr. Single door 670 lbs. LR25B Upright Single door 24.8 cu. ft. 29" x 36" x 82.6" 10.0/15.0 5.0/15.0 1/3 HP 2400 (5) 74 x 91 x 203 304 kgs. 702 ltr. LR37B 59" x 30" x 73.6" 10.0/15.0 5.0/15.0 1/2 HP 3800 134a (8) 860 lbs. 390 kgs. 1060 ltr. 150 x 76 x 195 1015 lbs 1/2 HP (10) LR55B Upright Double door 55.0 cu. ft. 59" x 36" x 82.6" 10.0/15.0 5.0/15.0 3800 134a 460 kgs. 1558 ltr. 150 x 91 x 203 210 lbs. 24" x 24" x 34.5" 4.3/15.0 2.1/15.0 1/6 HP 900 134a (2) UC5B Undercounter 5.4 cu. ft. 95 kgs. Single door 152 ltr. 61 x 61 x 87 4.3/15.0 (2) 220 lbs. UC5BD 24" x 24" x 34 5 2.1/15.0 1/6 HP 900 134a 54 cu ft Undercounter 100 kgs. 152 ltr. Pass-Through 61 x 61 x 87 WM7B 54" x 13" x 30" 4.7/15.0 2.3/15.0 1/6 HP 900 134a (4) Wall-mounted 6.6 cu. ft.

NEED MORE INFORMATION? Call Jewett's Direct Link Service. Toll-Free at 1-800-879-776

2.3/15.0

4.7/15.0

137 x 33 x 76

54" x 13" x 30"

137 x 33 x 76

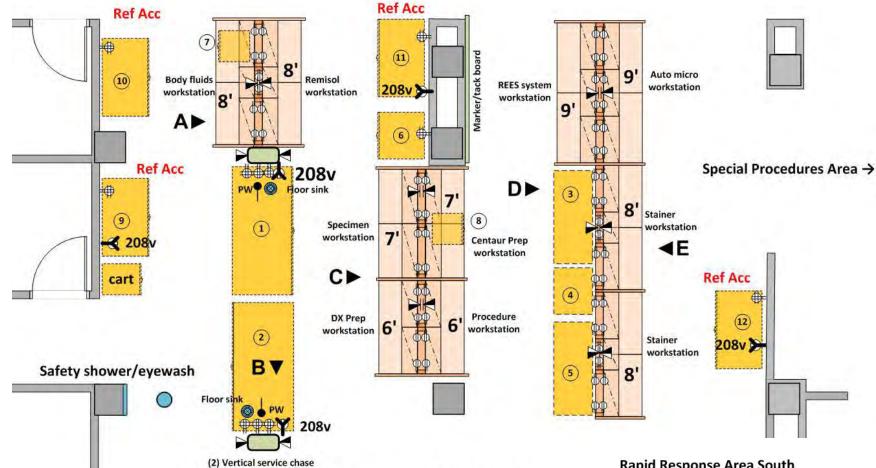
Refrigerator Cut Sheet EQ-211

Rapid Response Area- South Belongs to Accessioning



1/6 HP

Rapid Response Area North ↑



Rapid Response Area South 4

1' 2' 4'

Rapid Response Area South
Contractor Furnished Equipment:
None

Owner Furnished Equipment:

- 1. EQ-301: Chem Analyzer #1 DXC 800
- 2. EQ-302: Chem Analyzer #2 DXC 800
- 3. EQ-303: Immunoassay System #1 Centaur XP
- 4. EQ-304: Printer
- 5. EO-305: Immunoassay System #2 Centaur XP
- 6. EQ-306: Freezer
- 7. EQ-307: Centrifuge
- 8. EQ-308: Cellavision DM96

Accessioning:

Owner Furnished Equipment:

- 9. EQ-309: Refrigerator #1 Double
- 10. EQ-310: Refrigerator #2 Double
- 11. EQ-311: Refrigerator #3 Double
- 12. EQ-312: Refrigerator #4 Double

Rapid Response Area- Center Room #P210

ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile Doors: 3⁰x8⁰ pairs at entry

Acoustic Attenuation: NC 45 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust Pressure: Negative

6 air changes per hour minimum

Heat gain: 50 btuh/sf

ELECTRICAL

110v duplex and fourplex outlets (maximum of (2) fourplex per

circuit)

Standby power at all outlets

208v30a1ph

Dedicated circuits at floor equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Hot/Cold water (HW/CW) at sinks with hands free controls

Pure water (PW) at sinks

Pure water, floor sink at chemistry analyzers

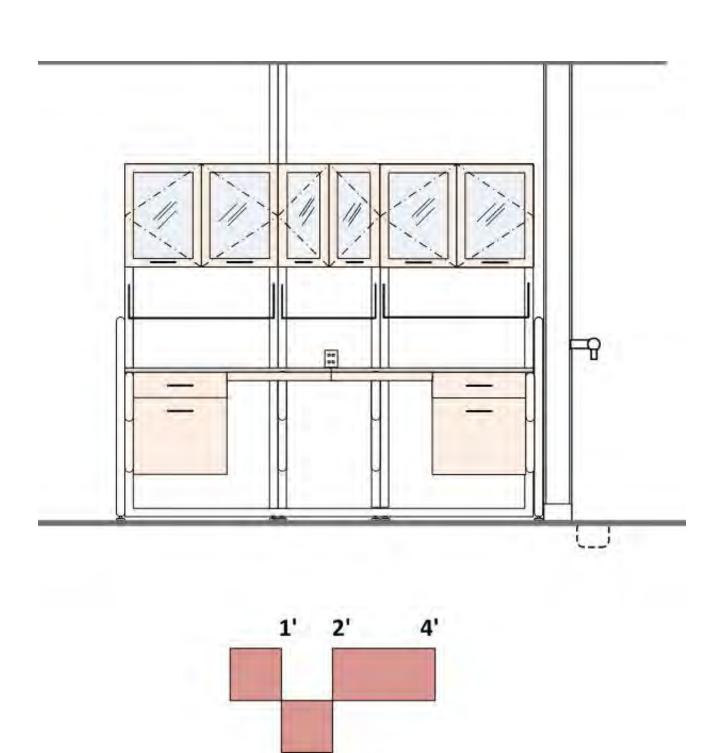
CONTRACTOR FURNISHED CASEWORK

Metal modular casework system

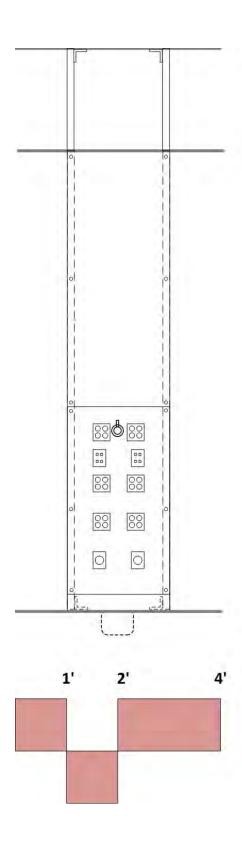
Phenolic resin tops

Safety Shower/Eyewash

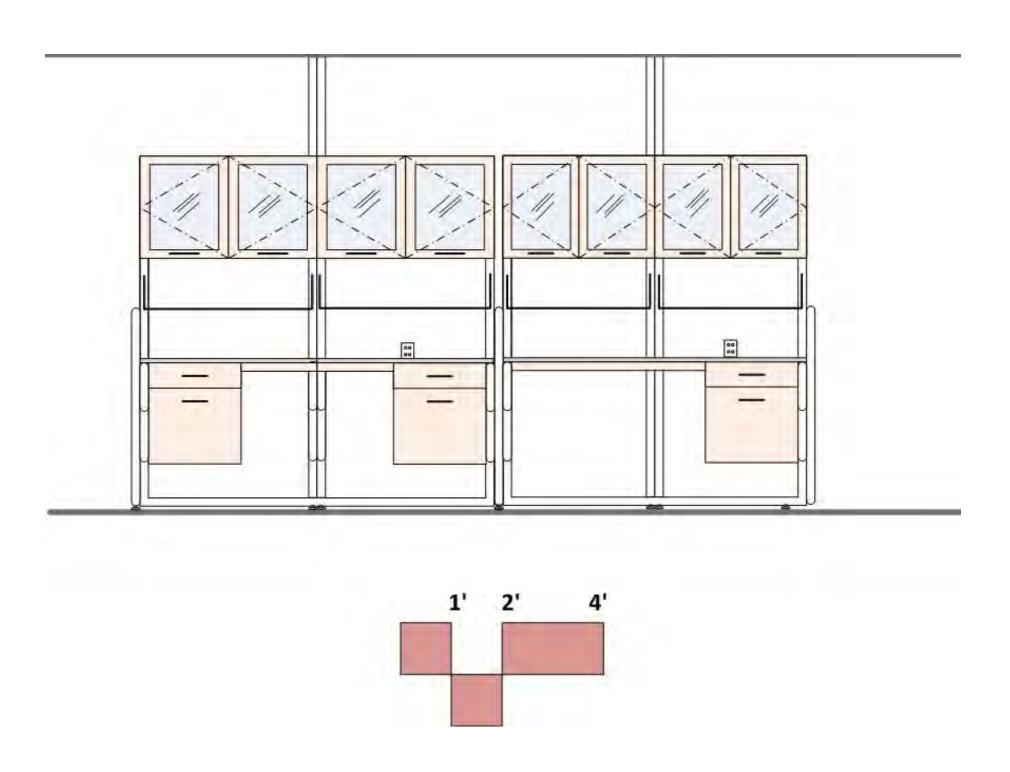
Rapid Response Area- Center Room #P210 Elevation A



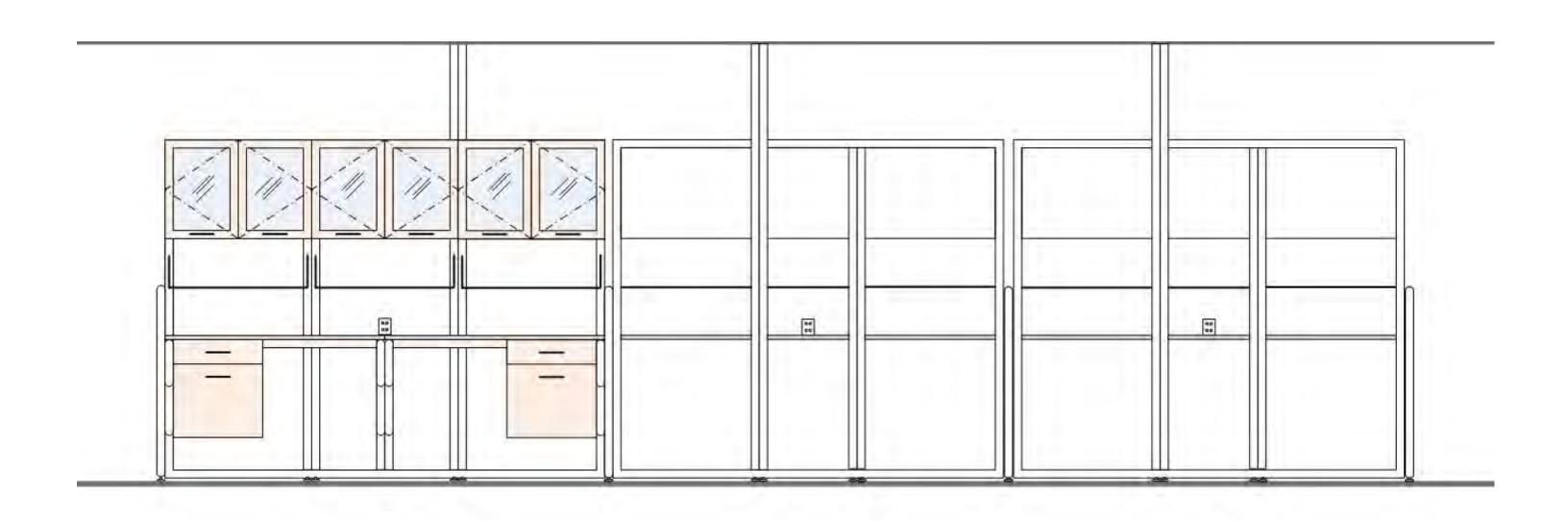
Rapid Response Area- Center Room #P210 Elevation B

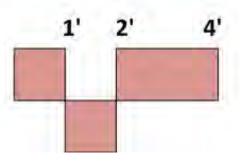


Rapid Response Area- Center Room #P210 Elevation C

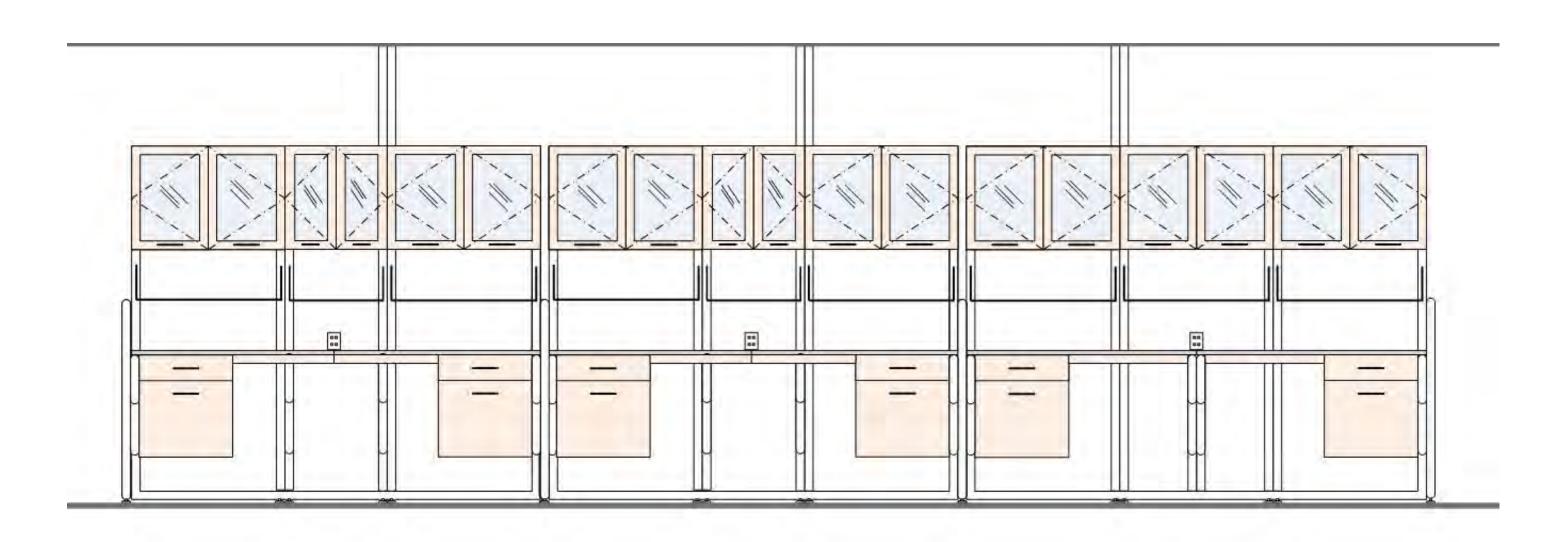


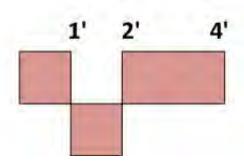
Rapid Response Area- Center Room #P210 Elevation D





Rapid Response Area- Center Room #P210 Elevation E





Equipment Schedule

Room/Area:	Rapid Response	Area Center-	Koon	n #P2	10		,			,	,		1
quipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)						
umber	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical		Remarks	Responsibility
	,			•	•	Cor	ntractor Furn	nished Equipme	nt		•		,
						None i	dentified to da	te					
						0	wner Furnis	hed Equipment					
Q-301	Chemistry Analyzer #1	E-241	~6'	~3'	~4'	~500 lb.	F	115v20a1ph	pure water			Printer table with	Owner Furnished
:Q-302	Chemistry Analyzer #2 Unicell DXC 800							208v30a1ph data standby power	floor sink			shared printer for both analyzers	Owner Installed
Q-303	Immunoassay system #1	E-241	76.5"	41"	51.5"	1,232 lb.	F	115v20a1ph				includes mobile bench	Owner Furnished
EQ-305	Immunoassay system #2 Advia Centaur XP							208v30a1ph data standby power					Owner Installed
Q-304	Printer	E-241	~4'	~3'	~4'	~250 lb.	F	115v20a1ph				includes mobile bench	Owner Furnished
	Shared between Centaur's							data standby power					Owner Installed
:Q-306	Freezer -30 deg C Helmer	E-241	30.75"	38.5"	80"	475 lb.	F	208v30a1ph standby power NEMA 6-15					Owner Furnished Owner Installed
Q-307	Benchtop Centrifuge	E-241A	16"	25.5"	9.5"	26.5 lb.	В	115v20a1ph					Owner Furnished
	Shandon Cytospin 4							standby power					Owner Installed
Q-308	Cellavision DM96	E-241A	~18"	~18"	~18"	~25 lb.	В	115v20a1ph standby power					Owner Furnished Owner Installed
Q-309	Refrigerator	E-241	59"	36"	82.6"	1015 lb.	F	115v20a1ph					Owner Furnished
Q-310	Jewett LR55B							standby power					Owner Installed
Q-311	Double wide Belongs to Accessioning												
Q-312	Refrigerator	E-241	59.25"	38.5"	78.75"	790 lb.	F	115v20a1ph					Owner Furnished
	Double Door							standby power					Owner Installed
	Helmer #246												
	Belongs to Accessioning											1	

Sunlight and Drafts

Do not place the system in direct sunlight or in drafts. Both of these conditions may affect the temperature control of the system.

Drain

The system should be located near a sink or floor drain to accommodate the waste effluent at a minimum rate of 6 liters/hour (16 liters/hour continuous flow).

The drain must not be placed any higher than 36 inches (91.4 cm) above the floor.

Power Requirements

Table 1.3 Power Requirements - DxC 600 or 800 Analytic Unit

Item	Requirement
Operating range	200-240 VAC ± 10% (180-264 VAC) 14 A at low line, exclusive of power on surge
Frequency	50/60 Hz
BTU generated	10,500 BTU/hour
Power connector	20 A current rating, NEMA L6[]20R twistlock In-line connector

Table 1.4 Power Requirements - DxC Console (PC System and Monitor)

Item	Requirement			
Operating range	100-120 VAC ± 10% (90-132 VAC); 4A OR 200-240 VAC ± 10% (180-264 VAC); 2A			
Frequency	50/60 Hz			
BTU generated	1,500 BTU/hour			
Power connector	15 A current rating, IEC 320 standard connector			

Chem Analyzer DXC 800 Cut Sheet

EQ-301; EQ-302 Rapid Response Area- Center

Item	Requirement
Operating range	110-127 VAC ± 10% (99-140 VAC); 3A OR 220-240 VAC ± 10% (198-264 VAC); 1.6A
Frequency	50/60 Hz
BTU generated	1228 BTU/hour (printing); 34 BTU/hour (standby power save)
Power connector	15 A current rating, IEC 320 standard connector

Notes on the System Power

The system can operate from any standard 3-wire electrical outlet and is wired as shipped from the factory to operate on 220 VAC, 50/60 Hz.

IMPORTANT

Line Voltage from the electrical outlet should be free of spikes, fluctuations, and dropouts for protection of the electronic circuitry.



Only operate the system from a 3-wire power source. DO NOT use a 2-prong adapter or a 2-wire AC power source.

Environmental Conditions

Table 1.6 Temperature, Humidity and Elevation

Item	Specification	
Environment	Indoor use only	
Ambient temperature	+18°C to +32°C	
Warm-up time	30 minutes (time to reach operating temperature)	
Relative humidity	20–85% rélative, non-condensing	
Elevation	Up to 4,200 ft (1280 m)	

Water Requirements

Table 1.7 Water Requirements

Item	Specification		
Flow Rate	0.6 L/min peak flow rate, 16 L/hr minimum continuous flow rate		
Temperature	+15°C to +25°C		
Water pressure	Deionized water entering the system must be 30-90 psi.		

Table 1.8 Water Quality Requirements

Formerly NCCLS (Type I	Daulage Time I & II			
Notes	Replaces Type I & II. 4th Ed. C03A4			
	CLSI	Beckman Coulter Requirements		
	CLRW			
Organic Impurities	500 ng/g TOC (Total Organic Carbon) parts per billion (ppb)	Not Applicable		
Total Organic Carbon (TOC)	Carpony parts per simon (pps)			
Microbiological Impurities	10 CFU/mL	10 CFU/mL		
Maximum microbial content colony forming unit (CFU/mL)				
Ionic Impurities	10 MΩ.Cm	1.0 ΜΩ.Cm		
Minimum resistivity, megohm.centimeter (MΩ.Cm@25C)				
Particulate & Colloid Content	Purification process requirement only: water filtration using 0.22 µm pore size to remove microorganisms and particulates	Purification process requirement only; water filtration using 0.22 µm pore size to remove microorganisms and particulates		
рН	Not Applicable	Not Applicable		
Maximum silicate (mg/mL) SiO ₂	Not Applicable	Not Applicable		

Chem Analyzer DXC 800 Cut Sheet

EQ-301; EQ-302; Page 2

Chem Analyzer Printer

Rapid Response Area- Center

Product specifications

Chemisty Pouter
Lexmark T650 Series x 7

	Lexmark T650n	Lexmark T652n	Lexmark T654n	
Printing	The state of the s		The state of the s	
Print Technology		Monocirome Laser		
Print Speed (Letter, Black): Up to	45 ppm	50 ppm	55 cpm	
Time to First Page (Black)		As fast as 7.5 seconds	00 00 11	
Print Resolution, Black	1200 (nage Quality, 1200 x 1200 dp; 2400 inage Quality, 600 x 600 dp;			
Memory, Standard	128 MB 128 MB 256 MB			
Memory, Maximum	640 MB	640 MB	1280MB	
Print Noise Level, Operating	53 dBA	54 dBA	55 dBA	
Noise Level, Idie	26 dBA	30 dBA	30 dBA	
Maximum Monthly Duty Cycle: Up to	200,000 pages per month	225,000 pages per month	300,000 pages per month	
Recommended Monthly Page Volume	3,000 - 20,000 pages	3,000 - 30,000 pages	5,000 · 50,000 pages	
Supplies	ologo zologo brigio	1 3000 - 30,000 pages	J 3.000-a.coopages	
Supplies Yield	25,000*-page High Yield Prini Carridge, "Average	25,000*-pago High Yield Pival Contriber Total	- co, au page High Yeld Print Cartridge,	
	standard page yield value declared in accordance with ISO/IEC 19752., 7,000*-page Print Cartridge	standard pepa ა არი წმამ declared in accordance ა არის EC 19752, 7,000'-page Print Cartridge	'Average standard page yield value declared in accordance with ISC/IEC 19752., 7,000'-pago Print Carridge, 36,000'-page Edra High Yield	
		-	Print Cartridge	
Cartridge(s) Shipping with Product	v.ccci -page Return Program Print Cartridge	10,000*-page starter Return Program Print	10,000°-pago startor Return Program Print	
# 1180111 18800		Cartridge	Catidge	
Paper Handling				
Paper Handling Standard	100-Sheet Multipurpose Feeder, 250-Sheet Input	100-Sheet Multipurpose Feeder, 550-Sheet Input	100-Sheet Multipurpose Feeder, 550-Sheet Inp	
	Tray, 350-Sheet Output Bin	Tray, 350-Sheet Output Bin	Tray, 550-Sheet Output Bin	
Paper Handling Optional	1,850-Sheet High-Capacity Output Stacker,	1,850-Sneel High-Capacity Output Stacker,	1,850-Sneet High-Capacity Output Stacker,	
	200-Sheet Universally Adjustable Tray with	200-Sheet Universally Adjustable Tray with	200-Sneet Universally Adjustablo Tray with	
	Drawer, 400-Sheet Universally Adjustable Tray	Drawer, 400-Sheet Universally Adjustable Tray	Drawer, 400-Sheel Universally Adjustable Tray	
	with Drawer, 5-Bin Malibox, 550-Sheet Drawer,	with Drawer, 5-8in Mailbox, 550-Sneet Drawer,	with Drawer, 5-Bin Mailtoox, 550-Sheet Drawer,	
	Envelope Feeder, 250-Sheet Drawer, 250-Sheet	Envelope Feeder, 250-Sneet Drawer, Optional	Envelope Feeder, 250-Sneet Drawer, Optional	
	Duplex Unit, Optional furniture required., 550-	furniture required., 550-Sheet Output Expander.	furniture required., 550-Sheet Output Expender,	
	Sheet Output Expander, StapleSmart I Finisher,	StapleSmart Finisher, 2,000-Sheet High	StapleSmart II Finisher, 2,000-Sneet High	
	2,000 Sneet High Capacity Feeder (Caster Base	Capacity Feoder (Caster Base required)	Capacity Feeder (Caster Base required)	
	required)			
Paper Input Capacity, Standard: Up to	350 pages 20 to or 75 gsm bond	650 pages 20 b or 75 gs/mbond	650 pages 20 lb or 75 gsm bond	
Paper Input Capacity, Maximum: Up to	4000 pages 20 lb or 75 gsm bond	4300 pages 20 lb or 75 gsm bond	4300 pages 20 to or 75 gsm bond	
Paper Output Capacity, Standard: Up to	350 pages 20 to or 75 gsm bond	350 pages 20 to or 75 gam bond	550 pages 20 to or 75 gam bond	
Paper Output Capacity, Maximum: Up to	2750 pages 20 lb or 75 gsm bond 2750 pages 20 lb or 75 gsm bond 2960 pages 20 lb or 75 gsm bond 2960 pages 20 lb or 75 gsm bond		2950 pages 20 lb or 75 gsm bond	
Media Types Supported	Card Stock, Dual Web Labels, Envelopes, Integrated Labels, Paper Labels, Pein Paper, Polyester Labels, Transparencies, Vnyl Labels, Pefer to the Card Stock & Label Guide			
Media Sizes Supported	10 Envelopa, 7 3/4 Envelopa, 9 Envelopa, A4, A5, DL Envelopa, A6 Card, Executiva, Folio, JS-B5, Legal, Letter, Statement, Universal			
Compatibility				
Network Protocol Support	TCP/P PV	4, PX/SPX, AppleTek™, LexLink (DLC), TCP/P IPv6,	TCP, UCP	
Printer Languages (Standard)	PCL Se Emulation, PCL 6 Emulation, Personal Printer Data Stream (PPDS), PostScript 3 Emulation, xHTML, PDF 1.6, Direct Image, Microsoft XPS (AML Paper), Post Specification (PPDS), PostScript 3 Emulation, xHTML, PDF 1.6, Direct Image, Microsoft XPS (AML Paper), PDF 1.6, Direct Image, Microsoft XP			
Standard Ports	One Internal Card Stot, USB 2.0 Specification	One Internal Card Slot, USS 2.0 Specification	One Internal Card Stot, USB 2.0 Specification	
	Hi-Speed Certified (Type E), Front US3 Port	H-Speed Certified (Type B), Front USB Port	H-Speed Certified (Type B), Front USB 2.0	
	Compatible with USB 2.0 Specification (Type A).	Compatible with USB 2.0 Specification (Type A),	Specification H-Speed Certified Port (Type A),	
	Ethernet 10/100BaseTX (RJ-45), also works with	Ethernet 10/100BaseTX (RJ-45), also works with	Rear USB 2.0 Specification H-Speed Certified	
	10008ase-T	1000Base-T	Port (Type A), Ethernel 10/1008aseTX (RJ-45), also works with 10008ase-T	
Microsoft Windows Operating Systems Supported	2000, XP, Sever 2003, XP x61. Sever 2003 running Terminal Sevices, 2000 Sever running Terminal Sevices, Sever 2003 x61, Sever 2003 x64 running Terminal Sevices, Vista, Vista x64, Sever 2008, Sever 2008 x64 running Terminal Sevices, Sever 2008 x64 running Terminal Sevices, Wista, Vista x64, Sever 2008, Sever 2008 x64 running Terminal Sevices, Wista, Vista x64, Sever 2008, Sever 2008 x64 running Terminal Sevices, Wista, Vista x64, Sever 2008, Sever 2008 x64 running Terminal Sevices, Sever 2008 x64 running Terminal Sevices, Wista, Vista x64, Sever 2008, Sever 2008 x64 running Terminal Sevices, Sever 2008 x6			
Apple Macintosh Operating Systems Supported	Mac OS X, Mac OS 9.2			
Other Operating Systems Supported	www.kwmark.com			
General		THIT STORES		
Product Warranty	I-Year Euchange Service, Next Business Day			
Product Certifications	www.komark.com			
Size (in H x W x D)	13.7 x 16.7 x 19.4 in.	16.8 x 16.7 x 20.1 in.	17.2 x 16.7 x 20.1 in.	
	10.7 A 10.7 A 10.4 FL	10.00 10.1 AZM.T II.	11-EA 19-7 A 20-11 L	
Weight (lb.)	40.6 lb.	50.7 b.	51.6 lb.	

Siemens Advia Centaur XP

Appendix E: Specifications

I monteressiy

This section summarizes the design specifications for the ADVIA Centaur XP system.

Safety Certifications

Refer to the DECLARATION OF CONFORMITY shipped with the ADVIA Centaur XP system.

Electromagnetic Compatibility (EMC)

Refer to the DECLARATION OF CONFORMITY shipped with the ADVIA Centaur XP system.

Dimensions

Depth

104.2 cm (41.0 in)

Height

130.9 cm (51.5 in)

Width

194.3 cm (76.5 in),

Weight

559 kg (1,232 lbs); system has casters

Environmental Specifications

Ambient Operating Temperature

18.0 to 30.0°C

Relative Humidity

20% to 80%, non-condensing, actively

controlled

Storage Temperature

0.0 to 50.0°C

Indoor Use Only

Altitude

up to 2000 meters

Ventilation

10,000 BTU/hour

IEC 1010-1 Installation Category II

IEC 1010-1 Equipment Classification Class I

IEC 1010-1 Pollution Degree 2

Immunoassay System Centaur XP Cut Sheet Immunoassay System Printer Cut Sheet

EQ-303; EQ-304; EQ-305 **Rapid Response Area- Center**

	supply with US cord, EasyLan Wireless 802.11b, 1MB DRAM, 128KB Flash, 203 dpi printhead and Self-strip assembly kit, Color: Dark gray	Availability
3400E11000200	EasyCoder 3400e, Thermal transfer printer, 220 VAC UK power package, Cover over I/O slot, 1MB DRAM, 128KB Flash, 203 dpi and Peripheral kit, Color: Medium Gray	Check Availability
3400E01002400	EasyCoder 3400e, Thermal transfer, 406 dpi, 6 ips, 4.5" print width, Serial interface and Peripheral Kit. Color: Medium Gray.	Check Availability

Intermec EasyCoder 3400e Details



Intermec EasyCoder 3400e

- · Rugged metal frame and enclosure
- · Field proven 3400 reliability
- Industrial gray metallic color
- Up to 10 times improved throughput compared to 3400
- IEEE 1284 Parallel port and Serial port standard
- Internal Ethernet adapter optional
- Free LabelShop™ label design and print software
- Industry leading InterDriver™ Windows driver included
- 200 or 400 dpi printhead option

The EasyCoder 3400e is a versatile industrial strength printer based on the rugged, field-proven EasyCoder 3400. The attractive gray metallic color of the 3400e fits in industrial or office environments. The Intermec EasyCoder 3400e features up to 10 times faster printing throughput compared to the 3400, making it ideal for today's increasingly complex labels combining 2D barcodes, mixed fonts and graphics - no waiting for labels.

The 3400e continues to offer the legendary reliability of the 3400 print mechanism. The steel frame enclosure gives the 3400e a rugged platform to withstand harsh industrial environments. The attractive gray metallic enclosure is designed to mask dirt and grime for ease of maintenance.

The Intermec EasyCoder 3400e features dramatically improved label processing speed and printing throughput compared to the 3400 and the competition. The standard high-speed IEEE 1284 parallel port and enhanced serial port ensure fast host communications. The internal Ethernet adapter provides high throughput and network management without the complexity, space requirements and fragility of external print servers. A heavy-duty cutter with tray option is available on the 3400D or 3400e printers. And of course, the 3400e is fully backward compatible with 3400A/B/C/D printers.

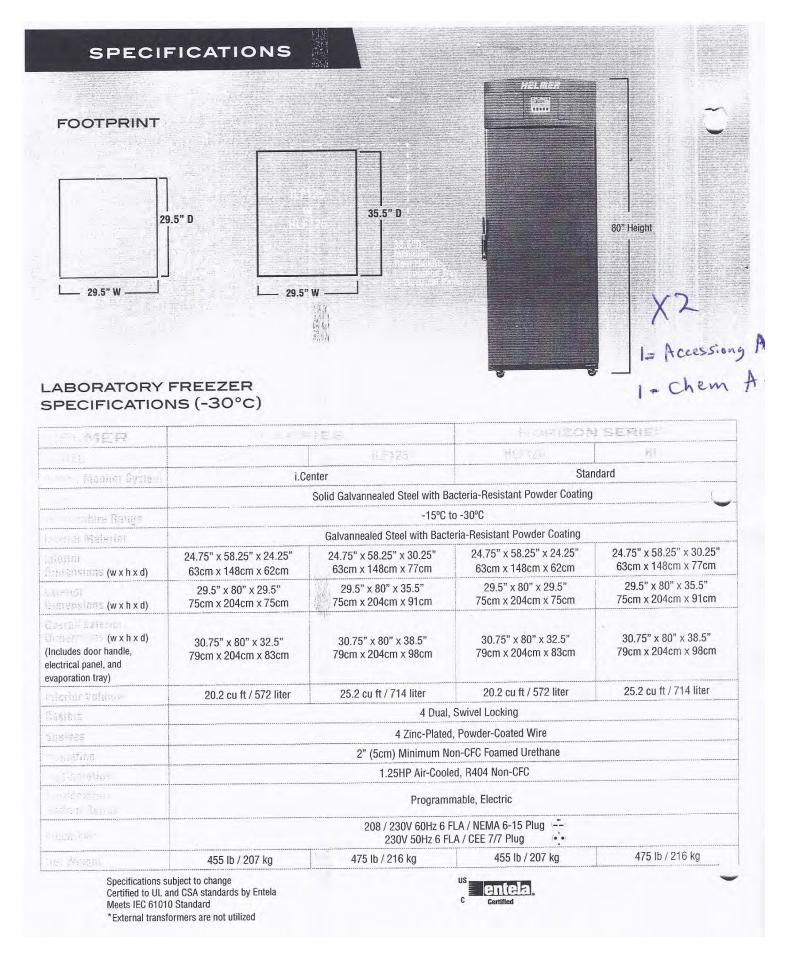
It all adds up to a powerful printer that is designed and built to be the right solution for a large variety of industrial barcode

Applications General Purpose Industrial Direct Thermal/Thermal Transfer Printer. Prints high quality barcodes on pressure sensitive labels and tags.

Model EasyCoder 3400e

Physical Characteristics Length: 43.8 cm (17.25") Width: 24.9 cm (9.8") Height: 27.7 cm (10.9") Weight: 15.8 kg (35 lbs.)

Print Specifications Element: 0.125 mm (0.00492") Resolution: 8 dots/mm (203 dpi); 16 dots/mm (400 dpi) "X" Dimension: 0.13 to 1.27 mm (5 to 50 mil) Max. Length: Unlimited Max. Width: 104 mm (4.1") 203 dpi; 112 mm (4.4") 406 dpi Speed: 51, 77, 102, 128, 153 or 204 mm/sec (Select 2", 3", 4", 5", 6" or 8")



Freezer Cut Sheet EQ-306 Rapid Response Area- Center

Centrifuge Cut Sheet EQ-307

Rapid Response Area- Center

Shandon Cytospin Y

12/14(

Chapter 8 Specification, Accessories and Spares

Specification

Physical

Width 405 mm (max) (16 ins)

Depth 620 mm (24½ ins)

Height 240 mm (9½ ins) (lid down) 625 mm (25 ins) (lid up)

Weight 12 kg (26½ lbs)

Electrical

Power Supply Voltages 100 - 240 V a.c. (-); 5A 50/60 Hz; 150VA

Note Maximum supply voltage fluctuations not to exceed ±10% of nominal voltage range.

of nominal vollage range.

ses Mains plug fuse 5A 250V (where applicable)

Mains fuses (x 2) T5A 250V

(Thermo part number for Fuse Spares Kit - A78310021)

Note Fuses should only be replaced by technically competent

personnel. 🛦

Switch Convention I Power On

O Power Off

Sound Power Level <53dB (this should not present any hazard to the user)

Program Details Time 1 - 99 minutes

Speed 200 - 2000 rpm (in incremenets of 10rpm)

Acceleration High, Medium, Low

Environment

Specification and Accessories

General Indoor use only

Operating Temperature +2°C to +40°C

Transit/Storage Temperature

Humidity

 -25° C to $+55^{\circ}$ C ($+70^{\circ}$ C for short exposure)

80% max. for temperatures <31°C 50% max. for temperatures 31°C to 40°C

(Non-condensing environment)

Altitude up to 2000m (6,500 feet)

Pollution degree 2
Over voltage category II

Part Numbers

Shandon Cytospin 4 A78300001 (with starter kit) A78300002 (without starter kit)

Note Starter kit comprises:

Shandon EZ Double Cytofunnels with double Cytoslides Shandon EZ Single Cytofunnel (White Filter Card) with

single Cytoslides

Shandon EZ Megafunnels with slides.

Note Both versions of Shandon Cytospin 4 come with a sealed

head.

Instrument Specifications PC with Windows XP **System Components** Slide Scanning Unit CellaVision® DM Software (U.S. Patent No. 6268611 and 6341180) Electrical Specifications All Voltage Input: (115 VAC for US) System Components Current input: (8A for US) 530 x 600 x 630 mm Size (W x D x H) 20.9 x 23.6 x 24.8 Inches Continuous feed, walk away; up to Stide Handling 96 slides (8 magazines x 12 slides /magazine) Regulres barcode labeled slides with clipped/round corners Oil Dispensing Automatic Supported media: CD-R/CD-RW Archiving of Results and Images and LAN Primary storage: On local hard drive Storage Capacity Secondary storage: Unlimited when transferred to external storage media via LAN **Printer Support** Laser/inkjet printers supported by Windows XP Communications BI-directional LIS support, ASTM Ethernet 10/100 Mbps **Archiving Settings by Database** Each Database established may have it's own specific archive settings Creating a new database now allocates optimal 20 GB DB Query updated to address: - Body Fluids · Extracts the serial number of the analyzer on which the slide was scanned Enabled for SNCS™ monitoring Barcode labeled slide magazines Accessories Immersion oil QC barcode labels SYSMEX DO BRASIL INDÚSTRIA E COMÉRCIO LTDA SYSMEX UK LTD. SYSMEX CORPORATION Sysmex House, Garamond Drive, Wymbush Milton Keynes, Buckinghamshire, Mkg 8DF, U.K. Phone 44-870-9029270 • Fax 44-870-9029211 1-5-1 Wakinohama Kalgandori, Chuo ku, Kobe 651-0073, Japan Phone 81-78-265-0521 - Fax 81-78-265-0530 Rua Professor Algacyr Munhoz Mader 3775 - Bloco C - CIC Curitiba - Parana - Brasil - CEP 81350-010 Phone 55-41-246-1314 • Fax 55-41-248-3180 SYSMEX AMERICA, INC. One Nelson C. White Pkmy, Alind elein II. Phone 1-847-996-4500 • Fax 1-847-996-43 SYSMEX EUROPE GMBH Bornbarch 1, 22848 Norderstedt, Germany Phone 49-40-52726-0 • Fax 49-40-52726-100 SYSMEX DEUTSCHLAND GMBH SYSMEX CANADA, INC. 5045 Oribitor Drive, Building 9, Suite 40) Mlsslssauga, ON L4W 4Y4 Tel. 1-905-366-7900 Fax 1-905-366-7899 Bornbarch 1, 22848 Norderstedt, Germany Phone 49-40-5341020 • Fax 49-40-523230

Cellavision Cut Sheet EQ-308 Rapid Response Area- Center

LABORATORY AND BIOLOGICAL REFRIGERATORS AND FREEZERS

GENERAL-PURPOSE LABORATORY REFRIGERATORS

- Ideal for a wide range of life science, clinical and industrial applications.
- · Four upright models (capacities from 16.9 to 55 cu. ft.) feature galvannealed steel interior and exterior with textured beige enamel exterior finish and white enamel interior finish. Stainless steel optional.
- · Adjustable stainless steel wire shelves.
- 5.4 cu. ft. capacity undercounter and 6.6 cu. ft. capacity wall-mounted models available in standard and pass-through designs.

CYLINDRICAL REFRIGERATORS

· With rotating shelves and triple-pane, cloud-proof glass doors.

PHARMACY AND BIOLOGICAL REFRIGERATORS

- · Ideal for biotechnical and pharmaceutical cold storage applications.
- Four upright models (capacities from 16.9 to 55 cu. ft.) with galvannealed steel interior and exterior. Stainless steel optional.
- · Adjustable stainless steel drawers.

CHROMATOGRAPHY REFRIGERATORS

- · Ideal for gel permeation for cancer and DNA separations as well as for reverse-phase chromatography.
- Two upright models (capacities of 24.8 and 55.0 cu. ft.).
- Two vapor-proof covered access portholes.
- Interior multiple-outlet power receptacles with external switches for interior lights and power.

FLAMMABLE MATERIAL STORAGE REFRIGERATORS AND FREEZERS (FMS)

- · Features coldwall cooling system to provide an interior safe from explosion due to sparking of interior finishes and fixtures.
- Three upright models (capacities from 16.9 to 55 cu. ft.), one undercounter model (5.4 cu. ft.) and five wall-mounted models (1.5 and 3.2 cu. ft.) including two passthrough designs and one freezer.

EXPLOSION-PROOF REFRIGERATORS

- · All controls and wiring fully sealed outside cabinet in U.L. listed conduit or cast aluminum housing.
- · Two upright refrigerators (capacities 11.8 and 21.0 cu. ft.) and one undercounter refrigerator (4.9 cu. ft.) available.
- · Built to meet all specifications of U.L. and the National Fire Underwriters Code.

DUAL-TEMP LAB/BIO REFRIGERATORS/FREEZERS

- Convenience of two separate cooling compartments in choice of two space-saving units (11.0 and 30.5 cu. ft. capacity refrigerators; 4.7 cu. ft. freezer for each).
- · Stainless steel interior standard.
- · Features adjustable stainless steel drawers and wire shelves.

LABORATORY FREEZERS

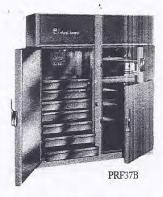
 Four upright models (capacities from 16.9 to 55.0 cu. ft.), two 4.6 cu. ft. capacity undercounter models (including FMS unit) and one 3.2 cu. ft. capacity wall-mounted model. All feature stainless steel interior construction.



CR25B



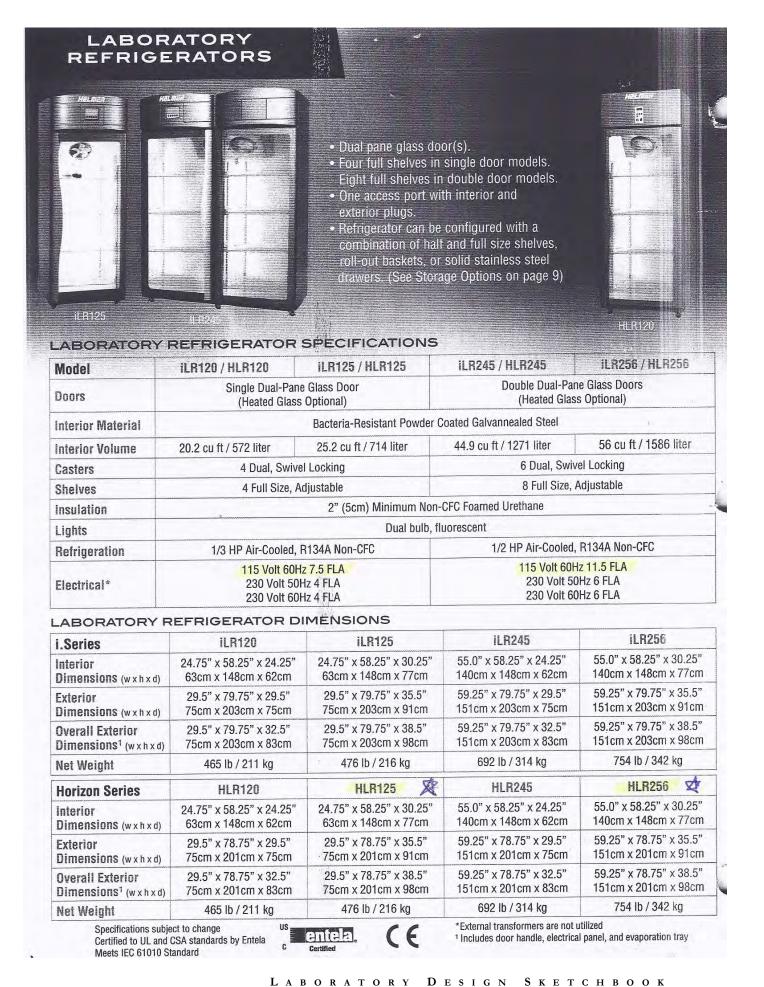




	Model No.	Style	Capacity cu. ft/ltr.	Dimensions WxDxH in/cm	Amper 115V, 60Hz.	age/Breaker 220V,50/60Hz.	Condensing Unit	BTU/Hr.	Refrigerant	Drawers (Shelves)	Shipping Weight lbs/kg
I	GENERAL	PURPOSE LABO	DRATORY R	EFRIGERATORS	(+4°C)						
	LR17B	Upright Single door	16.9 cu. ft. 479 ltr.	29" x 30" x 73.6" 74 x 76 x 195	6.5/15:0	3.3/15.0	1/3 HP	2400	134a	(4)	570 lbs. 258 kgs.
	LR25B	Upright Single door	24.8 cu. ft. 702 ltr.	29" x 36" x 82.6" 74 x 91 x 203	10.0/15.0	5.0/15.0	1/3 HP	2400	134a	(5)	670 lbs. 304 kgs.
	LR37B	Upright Double door	37.4 cu. ft. 1060 ltr.	59" x 30" x 73.6" 150 x 76 x 195	10.0/15.0	5.0/15.0	1/2 HP	3800	134a	(8)	860 lbs. 390 kgs.
	LR55B	Upright Double door	55.0 cu. ft. 1558 ltr.	59" x 36" x 82.6" 150 x 91 x 203	10.0/15.0	5.0/15.0	1/2 HP	3800	134a	(10)	1015 lbs 460 kgs.
	UC5B	Undercounter , Single door	5.4 cu. ft. 152 ltr.	24" x 24" x 34.5" 61 x 61 x 87	4.3/15.0	2.1/15.0	1/6 HP	900	134a	(2)	210 lbs. 95 kgs.
	UC5BD	Undercounter Pass-Through	5.4 cu. ft. 152 ltr.	24" x 24" x 34.5" 61 x 61 x 87	4.3/15.0	2.1/15.0	1/6 HP	900	134a	(2)	220 lbs. 100 kgs.
	WM7B	Wall-mounted Double door	6.6 cu. ft. 186 ltr.	54" x 13" x 30" 137 x 33 x 76	4.7/15.0	2.3/15.0	1/6 HP	900	134a	(4)	314 lbs. 142 kgs.
	WM7BD	Wall-mounted Pass-Through	6.6 cu. ft. 186 ltr.	54" x 13" x 30" 137 x 33 x 76	4.7/15.0	2.3/15.0	1/6 HP	900	134a	(4)	326 lbs. 148 kgs.

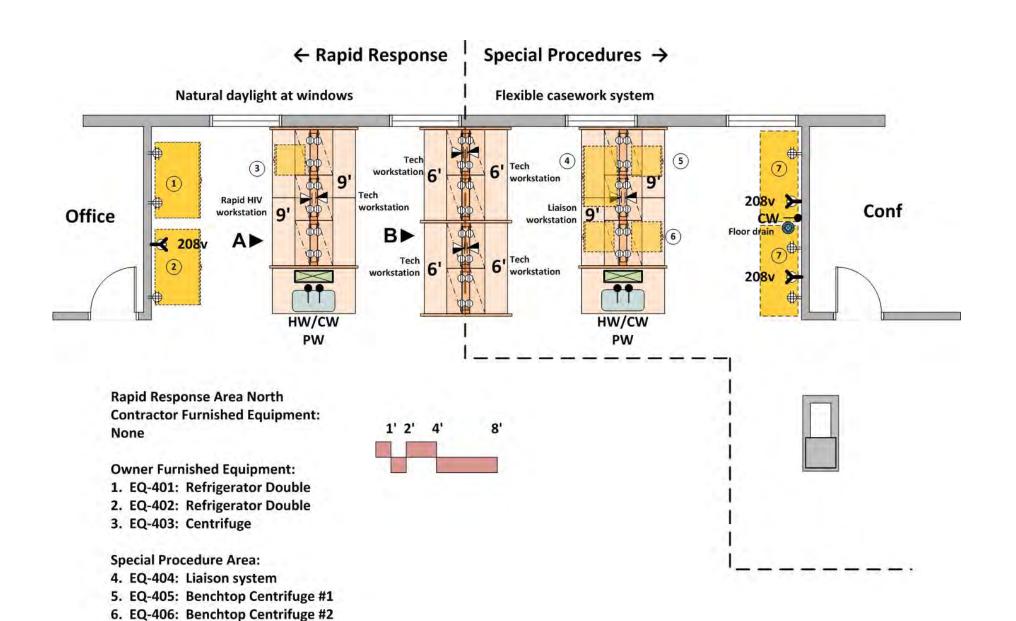
NEED MORE INFORMATION? Call Jewett's Direct Link Service. Toll-Free at 1-800-879-77

Refrigerator Cut Sheet EQ-309; EQ-310; EQ-311 **Jewett LR55B Rapid Response Area- Center Double wide Belongs to Accessioning**



Refrigerator Cut Sheet EQ-312 Helmer HLR 256 Rapid Response Area- Center Double wide Belongs to Accessioning

Rapid Response Area- North Room #P210



7. EQ-407: Abbott 1000 System (x2)

ARCHITECTURAL

Occupancy: B Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile
Doors: 3°x8° pairs at entry

Acoustic Attenuation: NC 45 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust Pressure: Negative

6 air changes per hour minimum

Heat gain: 50 btuh/sf

ELECTRICAL

110v duplex and fourplex outlets (maximum of (2) fourplex per

rcuit)

Standby power at all outlets

208v30a1ph

Dedicated circuits at floor equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

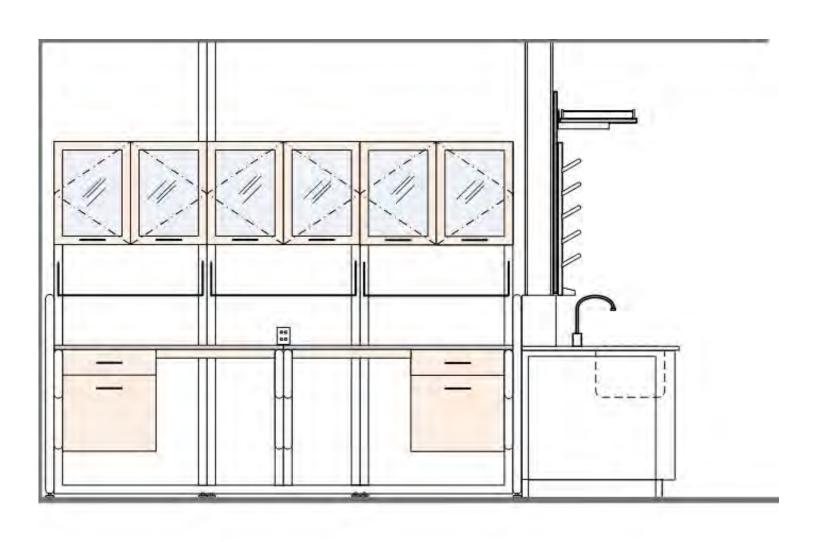
PLUMBING

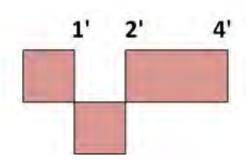
Hot/Cold water (HW/CW) at sinks with hands free controls Pure water (PW) at sinks Cold water at EQ-407 Floor drain at EQ-407

CONTRACTOR FURNISHED CASEWORK

Metal modular casework system Phenolic resin tops

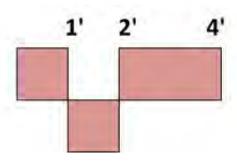
Rapid Response Area- North Room #P210 Elevation A





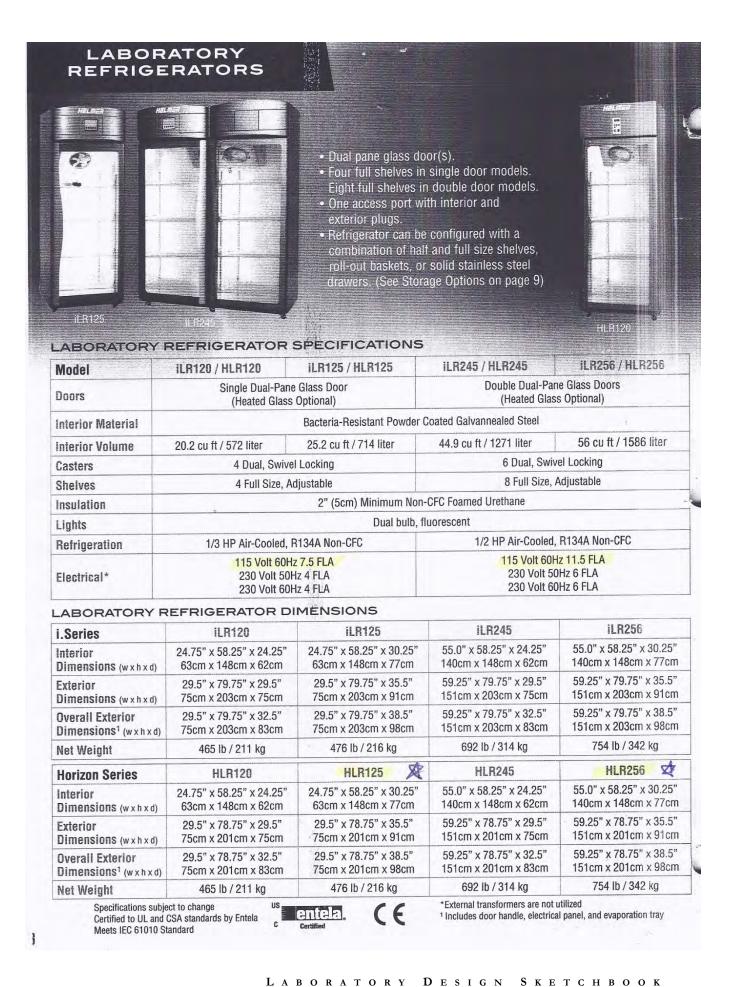
Rapid Response Area- North Room #P210 Elevation B





Equipment Schedule

	Rapid Respor	nse Area Nor	th- Ro	om									
Room/Area:		#P210											
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop						
Number	Manufacturer	Number	Width	Depth	Height	Weight	(B) Wall (W)	Electrical	Plumbing	Mechanical		Remarks	Responsibility
IVAIIIDEI	Widifulacturer	Number	Width	Бери	Ticigit			ished Equipme		WiceHarlical		Remarks	пезропзынку
							entified to date						
			L.					hed Equipment	<u> </u>	L	L		
EQ-401	Refrigerator Helmer HLR 256 Double wide	E-241-A	59.25"	38.5"	78.75	754 lb.	F	125v20a1ph standby power					Owner Furnished Owner Installed
EQ-402	Refrigerator Jewett LR55B Double wide	E-241	59"	36"	82.6"	1015 lb.	F	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-403	Benchtop Centrifuge	W-231-V	11"	10"	7"	~25 lb.	В	115v20a1ph data standby power					Owner Furnished Owner Installed
:Q-404	Liaison System includes computer and monitor	W-231-V	84"	26"	25"	260 lb.	В	115v20a1ph data standby power					Owner Furnished Owner Installed
Q-405	Benchtop Centrifuge #1	W-231-V	~18"	~18"	~12"	~25 lb.	В	115v20a1ph data standby power					Owner Furnished Owner Installed
Q-406	Benchtop Centrifuge #2	W-231-V	~18"	~18"	~12"	~25 lb.	В	115v20a1ph data standby power					Owner Furnished Owner Installed
EQ-407	Abbott 1000 (x2)	New	59"	30"	49"	636 lb.	F	115v20a1ph 208v30a1ph data standby power	cold water floor drain				Owner Furnished Owner Installed



Refrigerator Cut Sheet EQ-401 Rapid Response Area- North Double wide

LABORATORY AND BIOLOGICAL REFRIGERATORS AND FREEZERS

GENERAL-PURPOSE LABORATORY REFRIGERATORS

- Ideal for a wide range of life science, clinical and industrial applications.
- Four upright models (capacities from 16.9 to 55 cu. ft.) feature galvannealed steel interior and exterior with textured beige enamel exterior finish and white enamel interior finish.
 Stainless steel optional.
- Adjustable stainless steel wire shelves.
- 5.4 cu. ft. capacity undercounter and 6.6 cu. ft. capacity wall-mounted models available in standard and pass-through designs.

CYLINDRICAL REFRIGERATORS

 With rotating shelves and triple-pane, cloud-proof glass doors.

PHARMACY AND BIOLOGICAL REFRIGERATORS

- Ideal for biotechnical and pharmaceutical cold storage applications.
- Four upright models (capacities from 16.9 to 55 cu. ft.) with galvannealed steel interior and exterior. Stainless steel optional.
- · Adjustable stainless steel drawers.

CHROMATOGRAPHY REFRIGERATORS

WM7BD

Wall-mounted

Pass-Through

186 ltr.

54" x 13" x 30"

137 x 33 x 76

- Ideal for gel permeation for cancer and DNA separations as well as for reverse-phase chromatography.
- Two upright models (capacities of 24.8 and 55.0 cu. ft.).
- · Two vapor-proof covered access portholes.
- Interior multiple-outlet power receptacles with external switches for interior lights and power.

FLAMMABLE MATERIAL STORAGE REFRIGERATORS AND FREEZERS (FMS)

- Features coldwall cooling system to provide an interior safe from explosion due to sparking of interior finishes and fixtures.
- Three upright models (capacities from 16.9 to 55 cu. ft.), one undercounter model (5.4 cu. ft.) and five wall-mounted models (1.5 and 3.2 cu. ft.) including two pass-through designs and one freezer.

EXPLOSION-PROOF REFRIGERATORS

- All controls and wiring fully sealed outside cabinet in U.L. listed conduit or cast aluminum housing.
- Two upright refrigerators (capacities 11.8 and 21.0 cu. ft.) and one undercounter refrigerator (4.9 cu. ft.) available.
- Built to meet all specifications of U.L. and the National Fire Underwriters Code.

DUAL-TEMP LAB/BIO REFRIGERATORS/FREEZERS

- Convenience of two separate cooling compartments in choice of two space-saving units (11.0 and 30.5 cu. ft. capacity refrigerators; 4.7 cu. ft. freezer for each).
- · Stainless steel interior standard.
- Features adjustable stainless steel drawers and wire shelves.

LABORATORY FREEZERS

 Four upright models (capacities from 16.9 to 55.0 cu. ft.), two 4.6 cu. ft. capacity undercounter models (including FMS unit) and one 3.2 cu. ft. capacity wall-mounted model. All feature stainless steel interior construction.

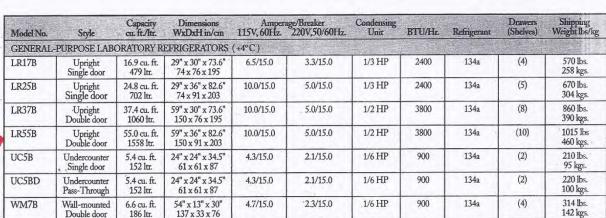


CR25B





326 lbs. 148 kgs.



NEED MORE INFORMATION? Call Jewett's Direct Link Service. Toll-Free at 1-800-879-7767

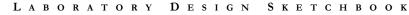
2.3/15.0

1/6 HP

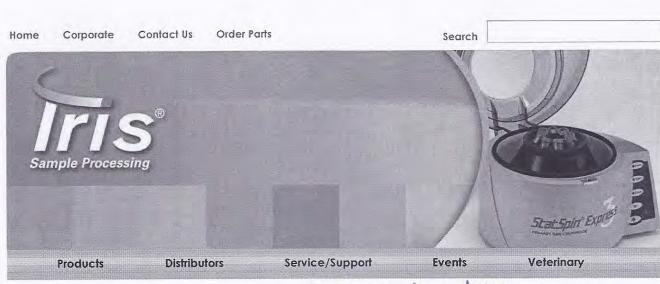
4.7/15.0

EQ-402 Rapid Response Area- North Double wide

Refrigerator Cut Sheet



900



StatSpin® Express 3

Primary Tube Centrifuge.

The StatSpin Express 3 provides faster turnaround time and greater productivity for your laboratory. Place it next to any of your STAT analyzers and serum or plasma is ready in just minutes.

With only three (3) settings, it is simple to use. Just select the 2, 3 or 5-minute button and press

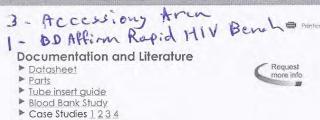
start. No fumbling with the settings or the need to readjust the speed. The unit beeps when it is done spinning. For safety, the lid remains locked until the rotor comes to a complete stop.

Samples can be processed as they arrive in the lab. Now you can process as many as eight (8) samples at once for high throughput. The StatSpin Express 3 holds tubes from 1.5 - 10mL in size.

The StatSpin Express 3 is powerful. The rugged brushless motor is maintenance free. The Express 3 comes with a 2-year warranty.

Features:

- ▶ Fast: Rapid acceleration to optimal "g" forces produces sample separation in as little as 2 minutes!
- Compact: Small, round footprint takes up little bench space and fits well in small corners.
- Quiet: Won't disturb nearby workers.
- Safe: Cover interlock system, chamber gasket and proven mechanical containment for operator safety. UL listed (US/Canada), CE marked.
- Simple to operate: Load tubes, select time and press start!
- Easy to maintain: 10% bleach-compatible surfaces and polypropylene rotor make cleaning easy. Disposable bowl liners available for added efficiency.



Specifications

Lean Articles: 1234

▶ BD Vacutainer Tubes Study ⊖BD

Derator manual: Choose Language

Spin Select 2 min:120 seconds@7,200rpm/4,440xg

3 min:180 seconds@7,200rpm/4,440xg

5 min:300 seconds@5,600rpm/2,685xg

Cycle Time 2, 3 and 5 minutes

Accel Time 25 seconds or less

Decel Time 30 seconds or less

Tube Sizes 1.5 to 10mL blood tubes

Regulatory UL, cUL and CE marked

Warranty 2 Years

Power 100 to 240V, 50/60Hz, 3.0 amp.

Dimensions 7.0" H x 11" W x 10.0" D (8.75lbs)

Specification subject to change without prior notice, StatSpin is a registered trademark of Iris Sample Processing, Inc.

Ordering Information

\$\$X3 \$\text{Spin Express 3 Centrifuge Includes 8-place rotor (RTX8), removable chamber liner, eight (8) 10mL inserts, eight (8) 5mL inserts and power

DL02 Disposable bowl liners for SSX3 3/pk.

RTX8 Replacement Express 3 Rotor

Click here for Express 3 animation (2.9Mb)

Centrifuge Cut Sheet EQ-403 Rapid Response Area- North

LABORATORY DESIGN SKETCHBOOK
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1.3 Technical Data

1.3.1 System Specifications

Analyzer Din	nensions			
Width	135 cm			
Depth	66 cm			
Height	63 cm			
Operational height	115 cm			
Weight	95 kg			
PC				
Width	40cm			
Depth	38 cm			
Height	10 cm			
Weight	8 kg			
Monit	or			
Width	38 cm			
Depth	40 cm			
Height	38 cm			
Weight	15 kg			
Electrical req	uirements			
A Marco Colons	88-132 V			
Voltage range	187-264 V			
Frequency	50/60 Hz			
Power cons	umption			
LIAISON	500VA			
PC system	200VA			
Monitor	70W			
	25W			
Printer				
Printer BTU (analyzer)	1360			

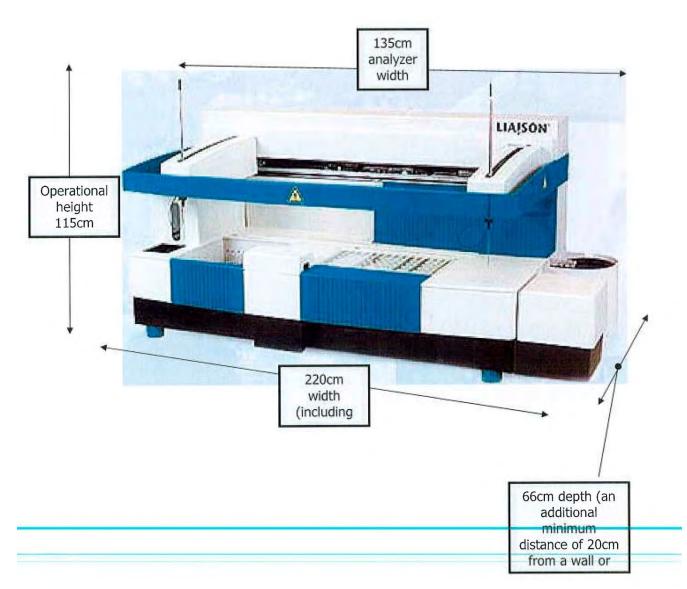
Hum	idity			
Operation	10-85% RH			
Storage	10-85% RH			
Maximum sound	61 dB			
Tempe				
Operation	15-33°C			
Storage	5- 4 5°C			
Data pro				
Processor	Pentium 133 or higher			
RAM	64 MB or higher			
Hard disk	2 GB or higher			
Floppy disk	1,44 MB			
Operating system	Windows 2000			
Communication	4 serial ports 1 parallel port 2 USB ports			
Keyboard	standard 101 keys			
Monitor (Touch Screen)	15 " color SVGA/TFT			
Printer	Inkjet, 4 spm, A-4			
Centronics parallel				
Mouse	IBM PS-2 compatible			
Barcode	reader			
Laser scanner-Class 2	Activated codes			
	2/5 Interleave			
	Code 39			
	Code 128 / EAN 128			
	Coda bar			
Communication port	RS 232 C			

Liaison System Cut Sheet EQ-404 Rapid Response Area- North Belongs to Special Procedure



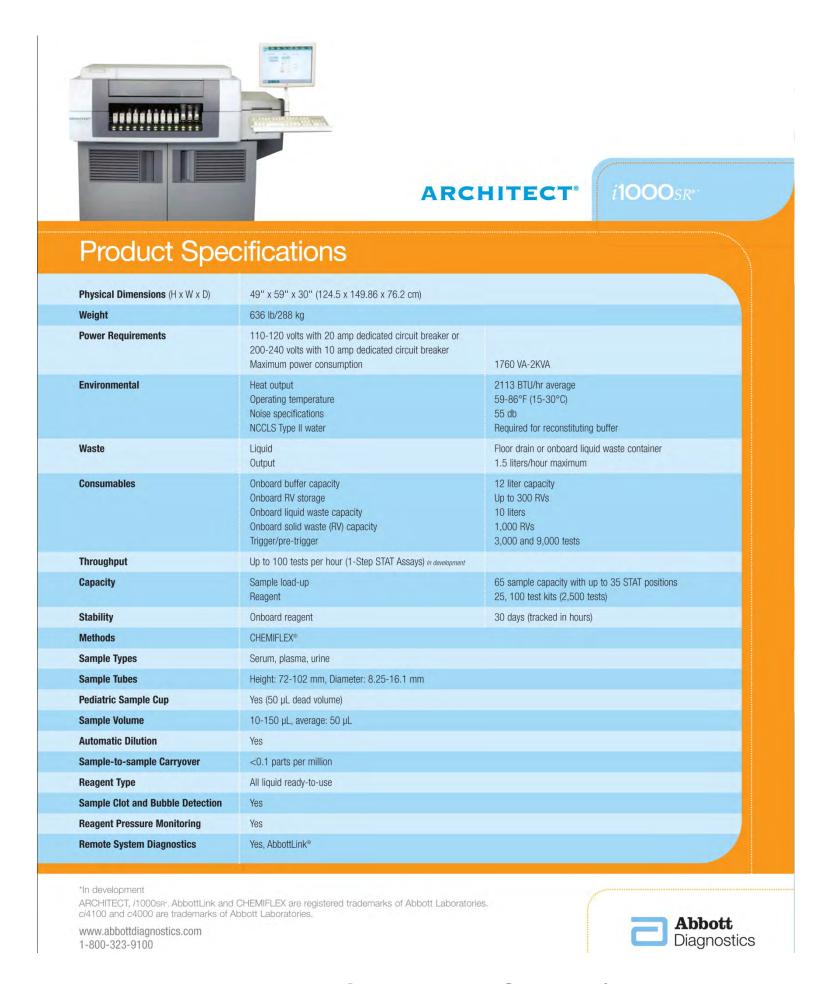


1.3.2 Required Operational Area



LABORATORY DESIGN SKETCHBOOK

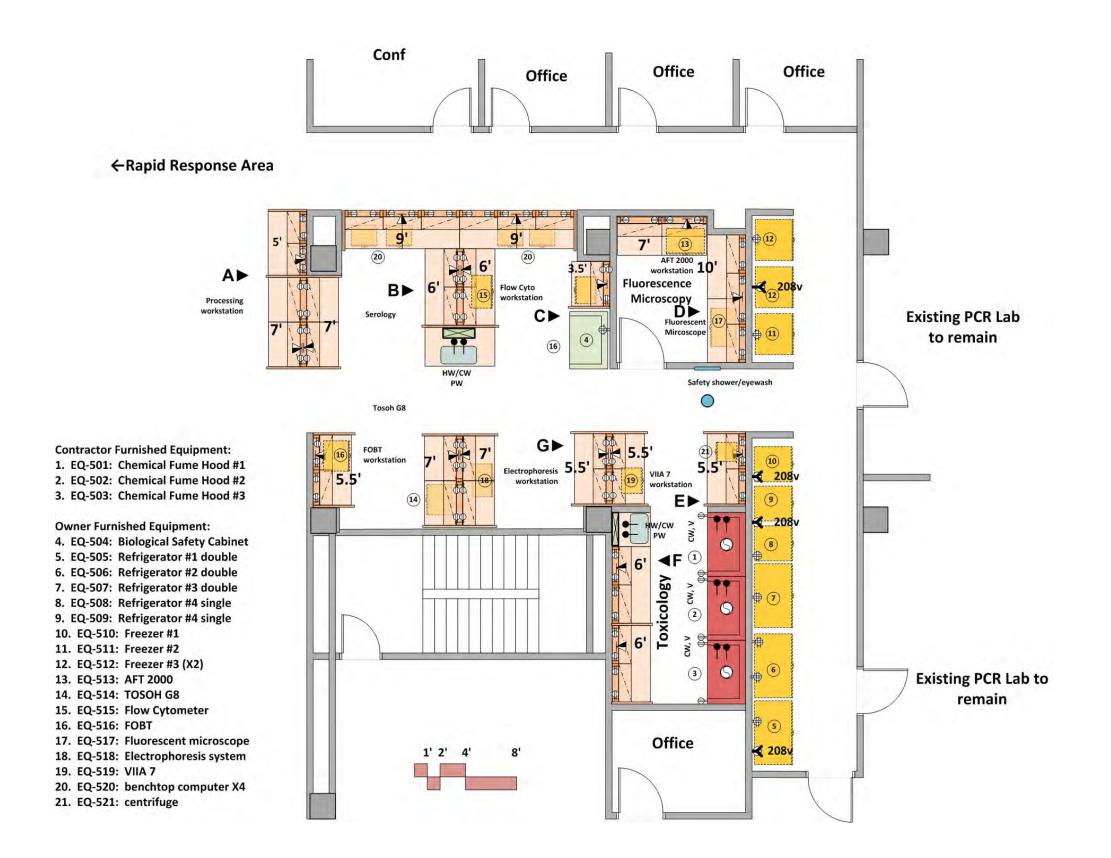
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Abbott 1000 Cut Sheet

EQ-406; EQ-407
Rapid Response Area- North
Belongs to Special Procedure

Special Procedures Area Room #P211



ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile Doors: 3⁰x8⁰ pairs at entry

Acoustic Attenuation: NC 45 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust
Pressure: Negative

6 air changes per hour minimum

Heat gain: 50 btuh/sf

LECTRICAL

110v duplex & fourplex outlets (maximum of (2) fourplex per

circuit)

Standby power at all outlets

208v30a1ph

Dedicated circuits at floor equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Hot/Cold water (HW/CW) at sinks with foot controls

Pure water (PW) at sinks

Cold water, vacuum, air at fume hoods

CONTRACTOR FURNISHED CASEWORK

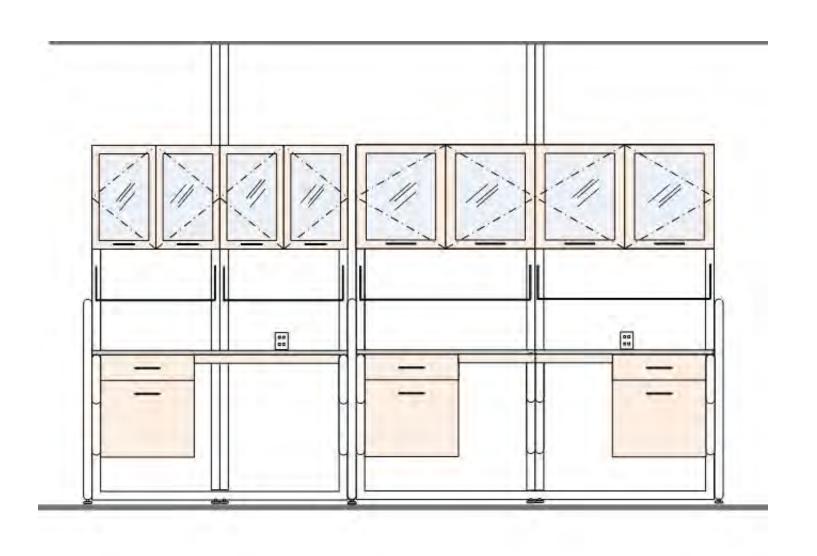
Metal modular casework system

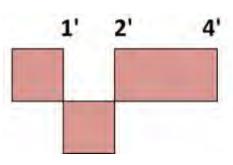
Phenolic resin tops Epoxy resin sinks

Epoxy resin sin

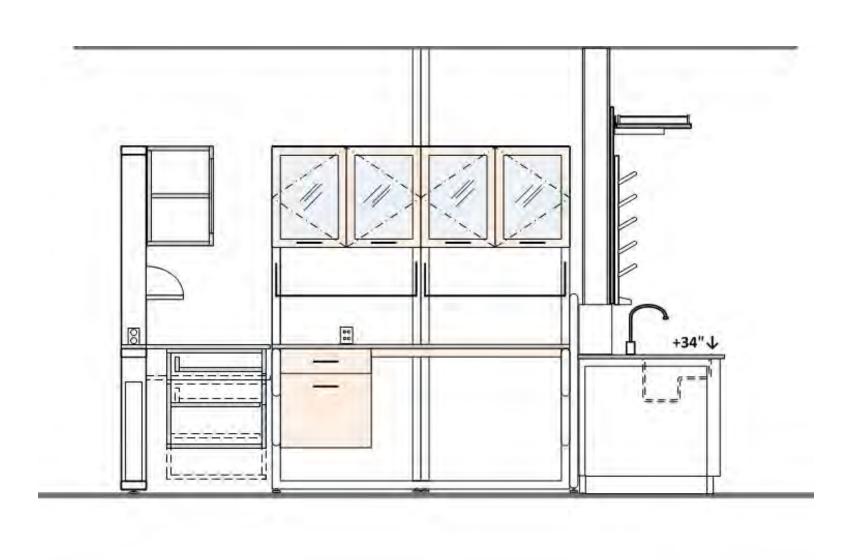
Faucets

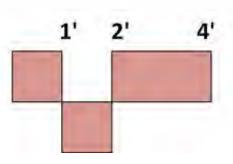
Special Procedures Area Room #P211 Elevation A



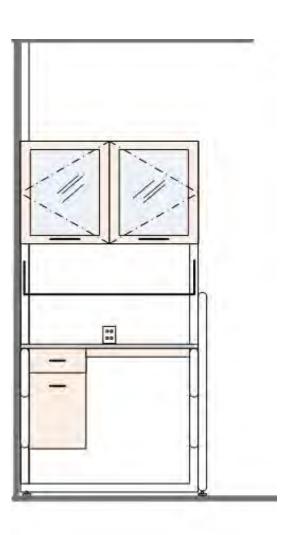


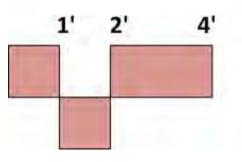
Special Procedures Area Room #P211 Elevation B



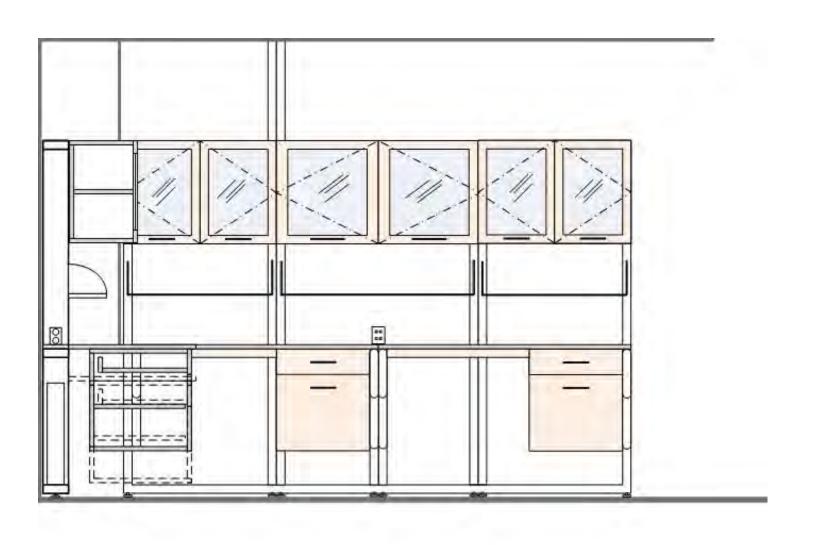


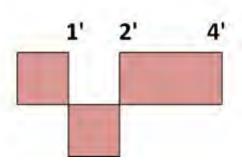
Special Procedures Area Room #P211 Elevation C



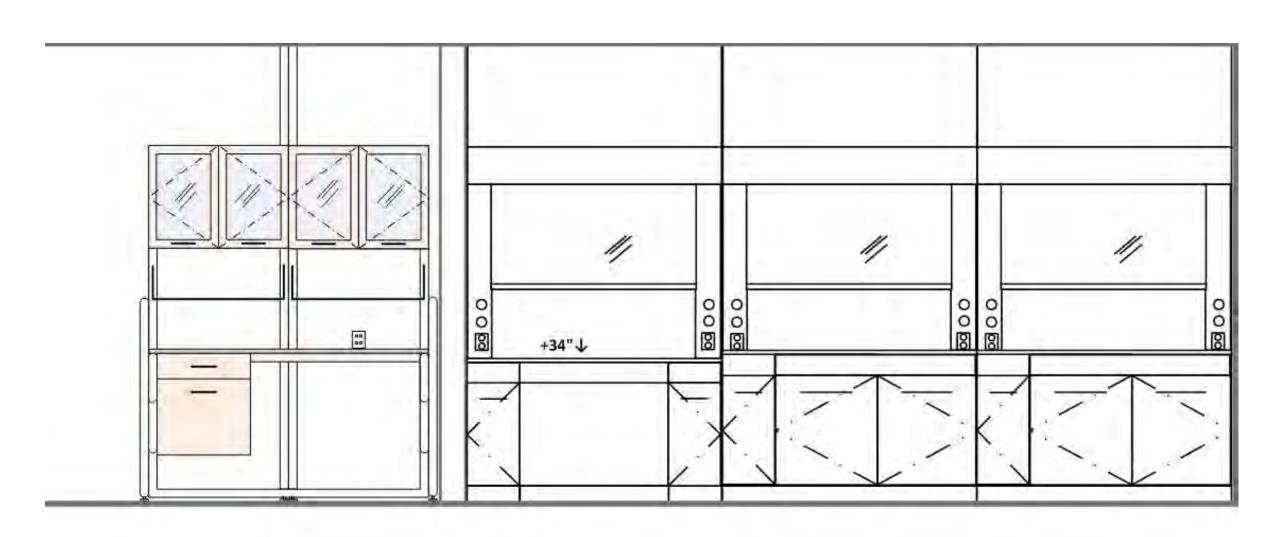


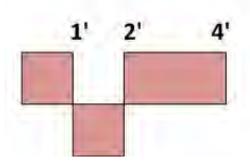
Special Procedures Area Room #P211 Elevation D



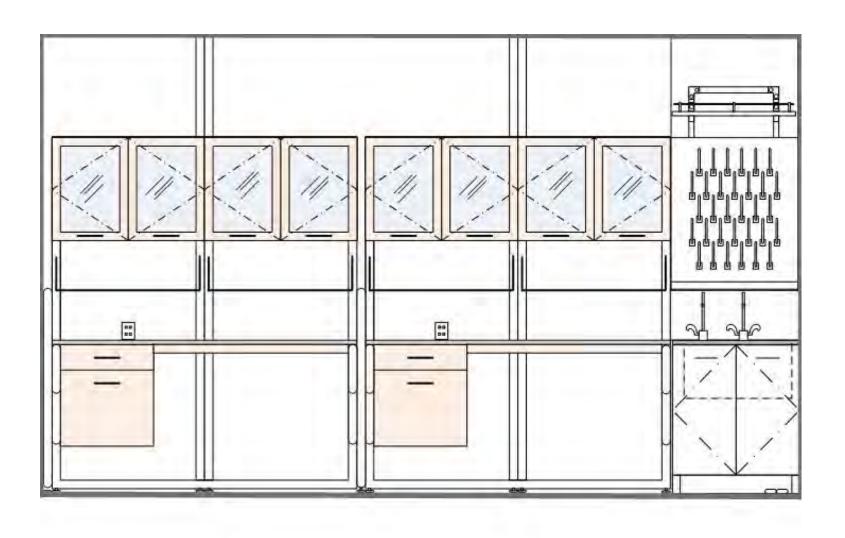


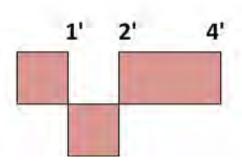
Special Procedures Area Room #P211 Elevation E





Special Procedures Area Room #P211 Elevation F





Special Procedures Area Room #P211 Elevation G



Equipment Schedule

Room/Area:	Special Procedu	ures Area- Ro	oom #	P 211							•	•
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)	51				
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical nished Equipme	Plumbing	Mechanical	Remarks	Responsibility
EO E01	Chemical Fume Hood X3	New	5'	3'	7'	~400 lb.	F F	115v20a1ph	Cold Water	VAV	flammable and corrosive	Contractor Furnished
EQ-501 EQ-502	Chemical rume Hood X3	New	3	3	'	400 10.		prewired	Drain	610 c.f.m.	cabinets below	Contractor Installed
EQ-502 EQ-503								1.	Vacuum	610 C.I.III.	cabinets below	Contractor installed
EQ-505								standby power	Air- 30 psi		(1) fume hood to be	
									preplumbed		accessible	
									preplatitibea		accessible	
				1		0	wner Furni	shed Equipmen	t			
EQ-504	Biological Safety Cabinet	New	54"	31"	98"	~300 lb.	F	115v20a1ph	Vacuum			Owner Furnished
	Class II Type A				incl.			prewired				Owner Installed
	No external exhaust				stand			standby power				
EQ-505	Refrigerator X3	W-231-V	59.25"	32.5"	79.75"	800 lb.	F	115v20a1ph				Owner Furnished
EQ-506	Helmer #256							standby power				Owner Installed
EQ-507	Double wide											
EQ-508	Refrigerator X2	W-231-V	29.5"	32.5"	79.75"	510 lb.	F	115v20a1ph			(1) ref to be explosion	Owner Furnished
EQ-509	Helmer #125							standby power			proof	Owner Installed
EQ-510	Freezer	W-231-V	30.75"	38.5"	80"	475 lb.	F	208v30a1ph				Owner Furnished
EQ-511	Helmer							standby power				Owner Installed
EQ-512	EQ-512 (x3)							NEMA 6-15				
EQ-513	AFT 2000	W-231-V	~36"	~24"	~18"	~100 lb.	В	115v20a1ph				Owner Furnished
EQ-313	AFT 2000	VV-231-V	30	24	10	100 ib.	Ь	standby power				Owner Installed
								data				Owner mstaned
EQ-514	TOSOH G8	W-231-V	44"	21"	19"	114 lb.	В	115v20a1ph				Owner Furnished
								standby power				Owner Installed
								data				
					1							
EQ-515	Flow cytometer	W-231-V	89.2"	29"	24"	490 lb.	В	115v20a1ph			I	Owner Furnished
								standby power				Owner Installed
								data				
	_											
EQ-516	FOBT	W-231-V	12.6"	21"	16.6"	57.5 lbs.	В	115v20a1ph				Owner Furnished
	OC Auto 80							standby power				Owner Installed
		I				1		data	1			

Equipment Schedule Continued

Room/Area:	Special Procedures A #P211	Area Contin	ued-	Roo	m							
							Floor (F) Benchtop					
Equipment	Name/Model/	Existing Room	14.6 Int	.			(B)		S			5 1111
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical hed Equipment	Plumbing	Mechanical	Remarks	Responsibility
EQ-517	Fluorescent Microscope	W-231-V	~36"	~24"	~18"	~100 lb.	В	115v20a1ph standby power data				Owner Furnished Owner Installed
EQ-518	Electrophoresis	W-231-V	22.6"	16.9"	16.2"	66.1 lb.	В	115v20a1ph standby power data				Owner Furnished Owner Installed
EQ-519	VIIA 7	W-231-V	~36"	~24"	~18"	~100 lb.	В	115v20a1ph standby power data				Owner Furnished Owner Installed
EQ-520	Benchtop Computer X4	W-231-V	~36"	~24"	~18"	~50 lb.	В	115v20a1ph standby power data				Owner Furnished Owner Installed
EQ-521	Benchtop Centrifuge	W-231-V	11"	10"	7"	~25 lb.	В	115v20a1ph data standby power				Owner Furnished Owner Installed

Protector XStream Laboratory Hoods



Protector XStream Laboratory Hood 9840600 is shown with SpallStopper Work Sturface 9849800, Protector Acid Storage Cabinet 9901.100 and Protector Standard Storage Cabinet 9900100, Blower, ductwork, work sturface and base caltinets must be ordered separately.

All models feature:

- + Modified by-pass airflow design.
- Ergonomic air foil with aerodynamic Clean-Sweep* airflow openings.
- Upper Dilution Air Supply.*
- Glacier white, dry powder epoxy-coated steel exterior.
- Chemical-resistant, fiberglass-reinforced, composite panel liner and pre-set Rear Downflow Dual Baffle System* with flame spread less than 25 per ASTM E-84
- 3/16" thick tempered safety glass vertical-rising sash with epoxy-coated aluminum sash handle with large radius and perforations.*

- Removable front and side panels and front and interior service access panels for access to plumbing and electrical wiring.
- Pre-wired T8 fluorescent lighting, ADAcompliant light and blower switches for 115 volt, 60 Hz operation.
- Sash stop located at 18' sash opening position.
- Epoxy-coated stainless steel, 12.81° ID exhaust connection(s).

Contact Laborn to at 800-821-5525 or 816-333-8811 for ordering information on explosion-proof lighting and other sash configurations and for blower sizing assistance. All models conform to the following regulations and standards:

- · SEFA 1-2002
- · NFPA 45-2000
- + ASTME84-01
- ASHRAE 110-95
- · ANSI Z9.5-1993
- + UL 3101-1/61010-1
- CAN/CSA C22.2 No. 1010.1
- · UL 1805
- CE Conformity Marking (230 volt models)[†]

Fixtured models feature:

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water. Components for converting either or both fixtures to air and vacuum are provided. Inlet tubing is not provided.
- 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 Surface, See pages 92-95.
- + Base Cabinet or Stand. See pages 96-106.

Optional accessories for on-site installation include:

- Service Fixture Kits. See page 107.
- * Electrical Duplex Kits. See page 108.
- Guardian Jr. and Digital Airflow Monitor Kits. See page 108.
- Distillation Grid Kits. See page 110.
- · Sash Stop Kits. See page 108.
- Snuffer Fire Extinguishers.
 See page 110.
- Ceiling Enclosure and Rear Finish Panel Kits. See page 109.

* U.S. Palent Wo. 6,461,233 † pending

5 Beights of switches, electrical receptable and service before meet requirements of ATM.

Sadusije Sar

Fume Hood Cut Sheet

EQ-501; **EQ-502**; **EQ-503 Special Procedures Area**



Ordering Information

Protector® XStream® Laboratory Hoods

ASHRAE 110-95 tests show less than 0.05 ppm leak rate when tested at 4.0 lpm; at OSHA-approved 60, 80, and 100 fpm face velocity and sash positions of 18° and 28°. To ensure performance at 60 fpm, Labconco engineers challenged the Protector XStream Hood at less than ideal conditions such as 30 fpm cross drafts, modified ASHRAE test procedures and average face velocities lower than 60 fpm.

Contact Labcomo for a technical paper with complete ASHRAE test data

Total Extraost CFM and Static Pressure @ 18" Sash Opening (60% open)

No minal Width	100 fpm	sp	80 fpm	s.p.	60 fpm	sp	CFM Savings at 60 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm
4 feet	470	0.11	380	0.07	280	0.04	190	\$760
5 feet.	610	0.13	490	0.03	370	0.05	240	\$960
6 feet. 8 feet.	750 1060	0.15	850	0.10*	450 640	0.06° 0.04°	900 420	\$1200 \$1680

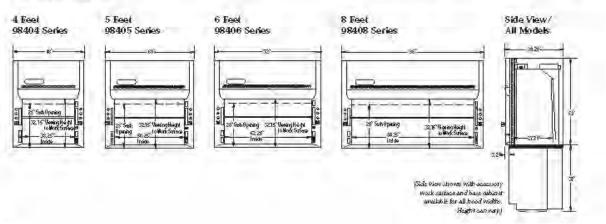
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% open)

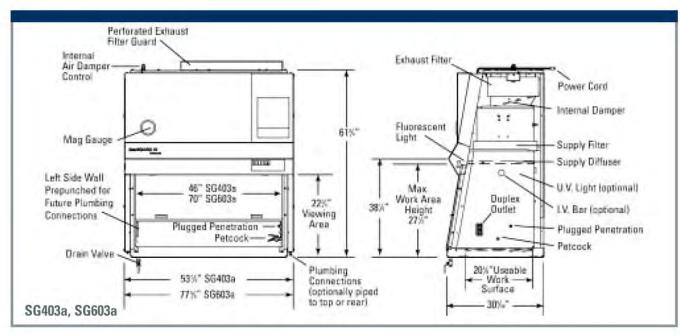
Nominal Width	100 fpm	s.p.	80 fpm	s.p.	60 fpm	s.p.	CFM Savings at 66 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
4 feet	730	0.25	590	0.13°	440.	0.081	290	\$1160
5 feet	980	0.30	770	0.19	580	0.11	380	\$1520
6 feet	1180	0.96*	940	0.23	710	0.13*	470	\$1.880
8 feet	1660	0,28	1330	0.18	1000	0.10	660	\$2640

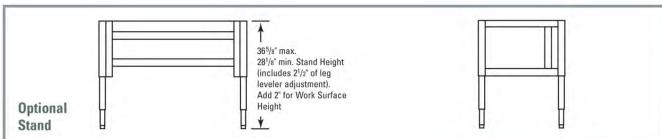
"Based on average annual dollars per CM0 usage of \$9.00; hume bood operating 29 hours a day and 5 days per week (6240 hours per year).

Catalog Number	No minal Width	Electrical Requirements	Exterior Depth	Interior Working Depth	Fluorescent Lamps	Service Fixtures	Electrical Duplex	Exhaust Collar(s)	Shipping Wt. lbs./kg
9840400	4 feet	115 volts, 60 Hz	39.20°	27.3	(2) 25 watt.	None	None	12.81 ID	400/181
9840401	4 feet	115 volts, 60 Hz	39.20*	27.3*	(2) 25 watt	2	1	12.81 ID	400/181
9840402**	4 feet	230 volts, 50 Hz	39.20*	27.3	(2) 25 watt.	None	None	12.81 ID	400/181
9840403**	4 feet	230 volts, 50 Hz	39.20*	27.3*	(2) 25 watt	2	None	12.81 ID	400/181
9840500	5 feet	115 volts, 60 Hz	39.20	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840501	5 feet	115 volts, 60 Hz	39.20*	27.8°	(2) 32 watt	2	1	12.81° ID	460/209
9840502**	5 feet	230 volts, 50 Hz	39.20°	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840503**	5 feet	230 volts, 50 Hz	39.20*	27.3*	(2) 32 watt	2	None	12.81° ID	460/209
9840600	6 feet	115 volts, 60 Hz	39.20*	27.3*	(2) 32 watt.	None	None	12.81° ID	520/236
9840601	6 feet	115 volts, 60 Hz	39.20	27.8°	(2) 32 watt.	2	1	12.81 ID	520/236
9840602**	6 feet	230 volts, 50 Hz	39.20*	27.3°	(2) 32 watt.	None	None	12.81° ID	520/236
9840603**	6 feet	230 volts, 50 Hz	39.20	27.8	(2) 32 watt	2	None	12.81 ID	520/236
9840800	8 feet	115 volts, 60 Hz	39.20*	27.3"	(4) 25 watt	Mone	None	(2) 12.81° ID	700/318
9840801	8 feet	115 volts, 60 Hz	39.20*	27:3"	(4) 25 watt	2	1	(2) 12.81° ID	700/318
9840802**	8 feet	230 volts, 50 Hz	39.20*	27.3"	(4) 25 watt	None	None	(2) 12.81° ID	700/318
9840803**	8 feet	230 volts, 50 Hz	39.20°	27.3*	(4) 25 watt.	2:	Mone	(2) 12.81 ID	700/318

**International electrical configuration







SterilGARD®III Advance®

Model Number: SG403a, 4' SG603a, 6'

NSF Classification: Class II, Type A2 Cabinet Type: Bench (Stand Optional)

Site Preparation Electrical System

• II5V-I Phase, 60 Hz.

- One 16' power cord with 20-amp plug, NEMA 5-20P.

- Unit is UL Listed as certified for electrical, fire and personal safety.
- Two ground-fault interrupt protected interior duplex receptacles at 5.0 (SG403a), 4.0 (SG603a) total amps, controlled by a self-resetting circuit breaker.

Exhaust Requirement* SG403a

• For an 8" opening: 269 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

• For a 10" opening: 335 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

SG603a

- For an 8" opening: 408 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.
- For a IO" opening: 510 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

		Amperage Cha	rt	
Model	Blower Motor	Lighting Ballast	Duplex Receptacle	Total
SG403a	1625 RPM, 6.6 amps	0.8 amps	5.0 amps	12.4 amps
SG603a	1625 RPM, 9.9 amps	0.8 amps	4.0 amps	14.7 amps

^{*}The above exhausting requirements are basic, should the user wish to build their own connections. HEC and CEC are as noted in the chart on page 11.

Biological Safety Cabinet Cut Sheet EQ-504; Special Procedures Area

Exhaust Options

The SterilGARD® III Advance° is designed for Type A2 installations. For added convenience, the cabinet design includes several innovative features which offer flexibility.

Both supply and exhaust HEPA filters can be inserted and removed from the front of the cabinet, allowing filter replacement without removing exhaust connections.

Canopy Exhaust Connection (CEC)

Laboratories which share common exhaust systems typically experience changes in airflow which can compromise cabinet operation. Such problems include (a) too much room air being drawn through the cabinet, causing potential product contamination, or (b) too little air drawn through the cabinet, compromising personnel protection. Located between the cabinet exhaust HEPA filter and the building exhaust system, the canopy exhaust air gap maintains Type A2 cabinet performance over a range of exhaust flow rates (see chart). Type A2 cabinet performance is also maintained in the event of total building exhaust failure. The SterilGARD® III Advance° canopy exhaust connection (CEC) incorporates the following features:

- · Designed for ouick, efficient installation to protect cabinet from performance degradation caused by in-house exhaust system fluctuation.
- · Unique combination design consists of an Exhaust Transition (ET) which creates the desired air gap in the overall connection.
- Exhaust connection collar is 10" diameter on the CEC403a (for the 4' cabinet) and 10" diameter on the CEC603a (for the 6' cabinet).

Exhaust Requirements Canopy Exhaust Connection 322-672 0.02-0.20"wc SG403a CEC403a 400-750 0.03-0.22"wc 10" 490-840 0.04-0.31"wc CEC603a SG603a 612-965 0.06-0.33"wc Exhaust Transition (Hard Connection)* 0.1"wc SG403a ET403a 335 0.1"wc 10" 408 0.2"wc

*Cabinets previously classified as Class II, Type A/B3 are now classified as Class II, Type A2. These cabinets may be exhausted to the room (previous Type A classification) or connected to a facility exhaust system (previous Type B3 classification) via a "canopy" connection (previously referred to as "thimble"). NSF 49 (2002) specifies the "canopy" connection only because vented exhaust through a "hard" connection, though technically possible, may not meet NSF criteria. Consult The Baker Company or your laboratory safety officer for details.

510

Exhaust Transition (ET) for Hard Connection

ET603a

SG603a

The exhaust transition (ET) provides a hard connection, or airtight mating of the cabinet to the exhaust duct, in which flow rates for cabinet intake, cabinet exhaust and building exhaust are all eoual. The ET403a and ET603a are designed for the 4' and 6' cabinets, respectively. The exhaust transition incorporates the following features:

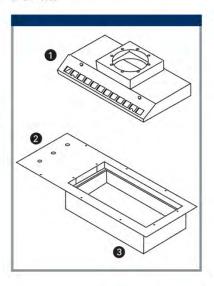
- · Rectangular base is easily installed on top of the cabinet over the exhaust filter, requiring only 4 or 5 bolts.
- · Design enables filter leak checking through a convenient access panel.
- Exhaust connection collar is 10" diameter.

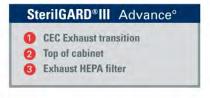
Filtration System

0.3"wc

· Exhaust and supply filters zeroprobed HEPA, both 99.99% efficient on all particles 0.3 micrometers by DOP test.

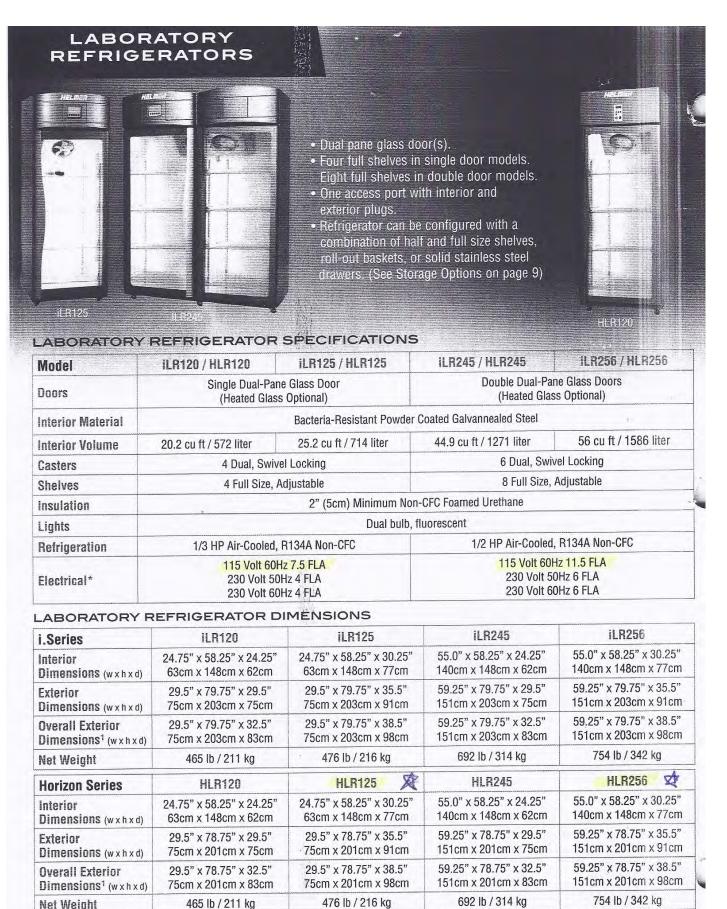
SterilGARD* III Advance*





Page 11

Page 10 800.992.2537 www.bakerco.com



Refrigerator Cut Sheet EQ-505; EQ-506; EQ-507 HLR 256 Special Procedures Area Double wide

LABORATORY DESIGN SKETCHBOOK

entela

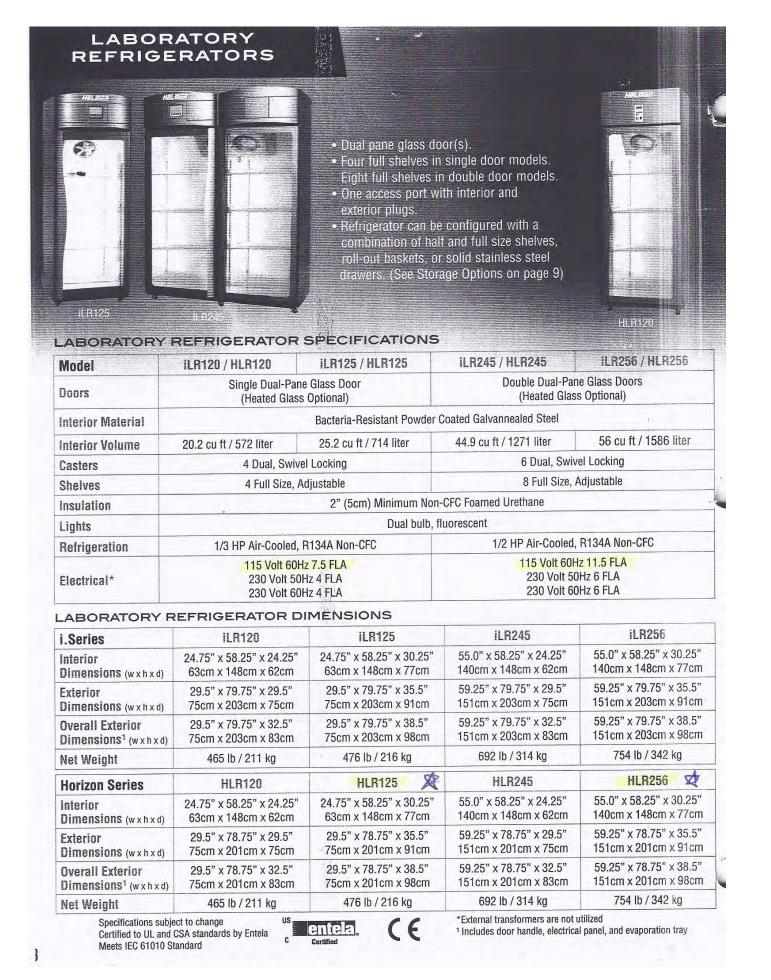
Specifications subject to change

Meets IEC 61010 Standard

Certified to UL and CSA standards by Entela

*External transformers are not utilized

1 Includes door handle, electrical panel, and evaporation tray



Refrigerator Cut Sheet EQ-508; EQ-509 HLR 125

Rapid Response Area Center; Model 125

LABORATORY DESIGN SKETCHBOOK

FREEZERS LABORATORY - HORIZON SERIES MODEL HLF125

SPECIFICATIONS

Temperature Range	-15°C to -30°C
Interior Dimensions (w x h x d)	24.75" x 58.25" x 30.25"
Exterior Dimensions (w x h x d)	29.5" x 80" x 35.5"
Overall Exterior Dimensions (w x h x d) Includes door handle, electrical panel, and evaporation tray	30.75" x 80" x 38.5"
Interior Volume	25.2 cu ft / 714 liters
Door	Solid galvannealed steel with bacteria- resistant powder coating
Interior Configuration	4 Epoxy Coated Wire Shelves
Electrical	208 / 230V 60Hz 6 FLA NEMA 6-15 Plug
Net Weight	475 lb
Clearance Requirements	Minimum of 8" above and 3" behind freezer for ventilation
Certified to applicable UL and CSA sta	undards by a NRTL

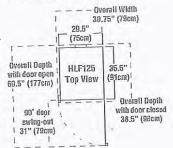
FEATURES

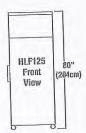
- Microprocessor-based temperature controller with:
- Programmable operating temperature
- Programmable high temperature alarm with visual and audible indicators
- LED display of chamber temperature
- Bacteria-resistant powder coated interior and exterior
- · Dual, swivel locking casters
- Key lock

WARRANTY

- 3 Years Compressor
- 2 Years Parts
- 1 Year Labor

FOOTPRINT







Freezer Cut Sheet EQ-510; EQ-511; EQ-512 **Special Procedures Area**

AFT 2000 Cut Sheet EQ-513 Special Procedures Area

pending

SPECIFICATIONS

Analytes HbA1c (SA1c), HbF, HbA1 (Total A1)
Principle Ion-exchange high performance liqui

rinciple Ion-exchange high performance liquid chromatography
Visible two-wavelength absorption

Sample requirement Whole blood or diluted blood (Preserved with EDTA) Sampling volume Whole blood: 4 µL

Analysis Column

Elution Buffers (Variant Analysis Mode) and Hemolysis & Wash Solutions

HbA1c Calibrator Set

HbA1c Control

G8 90 Sample Loader

Diluted blood: 80 µL
Throughput 1.6 minutes per sample

Data storage On-board memory: up to 800 samples

Main unit

Sampling Cap-piercing of primary sample tubes
Whole blood Automatic dilution by Hemolysis and
Wash solution in the dilution port
Column oven Thermomodule in aluminum block

Colulmn connection Finger-tight type
Detector unit LED colorimetric detector

Sample loading units

Sample loading capacity G8-90SL: 90 samples plus one STAT sample

G8-290SL: 290 samples plus one STAT sample

Sample holding 10 samples/rack

Sample vial 12-15 mm x 75-100 mm primary tubes and Tosoh vials

Barcode specifications NW-7, CODE39, ITF, CODE128, JAN, COOP 2 of 5, Industrial 2 of 5

System control/Data processing

Display & Input Liquid crystal display touch pane

Output Thermal printer (roll paper), SmartMedia or LIS

Communication RS-232C standard serial (bi-directional)

Operating temperature 15 - 30 ° C

Power requirement AC 100 - 240 V, 50/60 Hz, 180 VA

Dimensions/Weight 90SL model: W 21" (530 mm) x D 20" (515 mm) x H 19" (482 mm)

75 lbs (34.0 kg)
290SL model

W 44" (1120 mm) x D 21" (530 mm) x H 19" (482 mm) 114 lbs (51.5 kg)

PART NUMBERS/DESCRIPTION

 021560
 HLC-723G8 (Main Unit)

 021561
 G8-90SL (90 Sample Loader)

 021562
 G8-290SL (290 Sample Loader)

 021955
 TSKgel G8 Variant HSi (Analysis Column)

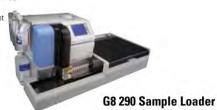
 021956
 G8 Variant Elution Buffer HSi No. 1 (S)

 021957
 G8 Variant Elution Buffer HSi No. 2 (S)

 021858
 G8 Variant Elution Buffer HSi No. 3 (S)

 018431US
 HSi Hemolysis & Wash Solution (L)

018767 Hemoglobin A1c Calibrator Se 992133 Hemoglobin A1c Control



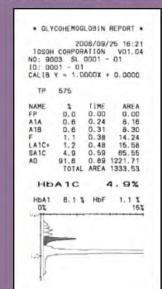


Tosoh Bioscience, Inc. 6000 Shoreline Court, Suite 101 South San Francisco, CA 94080 Tel: (800) 248-6764 Fax: (650) 615-0415 www.tosohbioscience.us

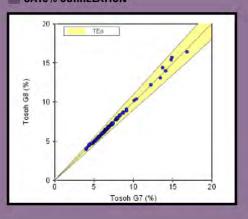
Tosoh is a registered trademark of Tosoh Corporation. ©2008

PERFORMANCE DATA

SAMPLE CHROMATOGRAM



SA1c% CORRELATION



REPRODUCIBILITY

NITDA	ACCA	Y PREC	MUDIC
LN III II 474	H-C-T-I-	A 000 mg 3 3 2 2 2 1	

	Number of Replicates	Mean (%HbA1c)	Standard Deviation	Coefficient of Variation (%)
Whole blood (Low)	20	5.07	0.05	0.93
Whole blood (Medium)	20	7.39	0.03	0.42
Whole Blood (High)	20	13.54	0.06	0.44

INTER-ASSAY PRECISIO

	Number of Replicates	Mean (%HbA1c)	Standard Deviation	Coefficient of Variation (%)
Whole blood (Low)	20	5.01	0.03	0.61
Whole blood (Medium)	20	7.04	0.05	0.70
Whole blood (High)	20	12.18	0.04	0.36

TOSOH G8 Cut Sheet

EQ-514

Special Procedures Area





HbA1c analysis in 1.6 minutes

Direct determination of stable HbA1c

Less than 2% CVs

Compact footprint - 21"w x 20"d x 19"h

Simple touch-screen operation

Automated daily maintenance

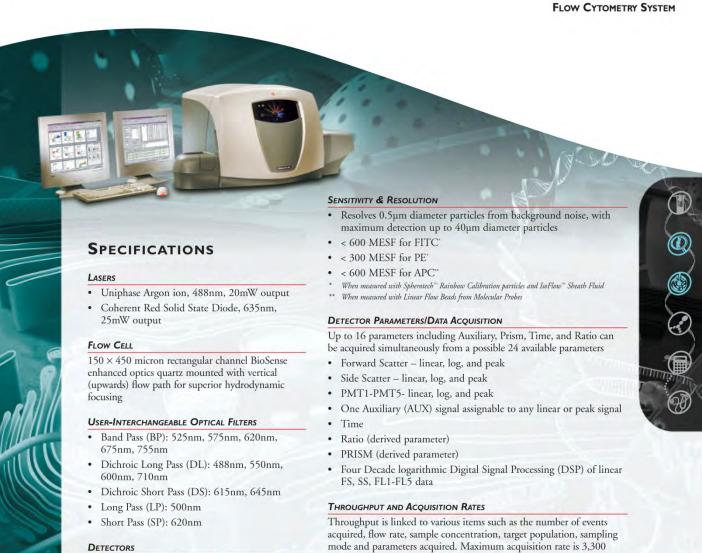
Flexible tube sizes





More Flexibility for Your Cytometry Research

CYTOMICS FC 500



- Forward Scatter Detector Solid state detector with Patented Fourier design providing integrated dual collection angle selection
- Side Scatter Detector High performance
- Fluorescent Detectors High performance photomultipliers with spectral sensitivity from 185nm-900nm

Continuous pressure is applied to the sample tube based on user selected flow rates.

· Low, Medium and High

events/sec.

SAMPLE HANDLING

Biohazard contained wash station rinses sample probe preventing

- 12 × 75mm glass or plastic tubes
- · Single tube sampling mode
- 32 tube Multi Carousel Loader (MCL)
- The MCL patented design vortexes each tube individually before sample acquisition
- The MCL uses a visible Class II laser reader operating at 670nm with a maximum power output of 1mW, for use with Interleaved 2-of-5, Code 39®, Codabar, Code 128 bar codes

Flow Cytometer Cut Sheet **EQ-515 Special Procedures Area**

CYTOMICS FC 500 FLOW CYTOMETRY SYSTEM

CARRYOVER

Scatter and fluorescence carryover < 1% when the number of gated events is between 100 and 10,000

CXP SOFTWARE

- Unlimited histogram displays per sample
- One parameter histograms have 1,024 channel resolution
- · Two parameter histograms graphical resolution: 64 × 64, 128 × 128, 256 × 256, 512 × 512 channel resolution
- · 256 regions (contour, elliptical, linear, polygonal, quadrant, rectilinear) are available per protocol with up to 32 available for gating
- . Up to 8 regions can be combined to make
- · Real time data analysis and gating
- · Real time and listmode compensation using 20-bit data (220 channel resolution)
- · Storage of both compensated and uncompensated data
- . Stop counts available for all histograms
- · Auto or User defined scaling
- · Positive analysis for automatically setting regions on control tubes
- · User definable statistics
- · Single platform absolute counts using FlowCount "fluorospheres
- · Elliptical autogating with ,3 selectable levels
- · Contour autogating with 5 selectable levels
- . ColorGate Precedence and Color Blend mode color event analysis
- · AutoPrime event monitoring during sample acquisition
- · Application Definition Wizard for rapid creation of Application Libraries.
- · Auto Set-Up-Wizard for automatically adjusting voltages, gains, and color compensation settings
- · Application Scheduler for simultaneous multiple application setup.
- · QuickSET direct visual histogram adjustment of cytometer voltages and gains

- · QuickCOMP direct visual histogram adjustment of cytometer color compensation
- · Minimal Event Counter for use with rare event collection.
- · Worklist function for specimen labeling, with positive specimen identification when using barcoding
- · Multi-file analysis, including batch automator, listmode compensation, overlay analysis plot, surface and Tomogram displays
- Customizable FlowPage for reporting with automated pdf or printer output
- Full QC Application including Automated Levey Jenning Analysis and IQAP Reports
- . Data management for automatic file archival
- FCS 3.0 file formar
- Fully compatible with Microsoft Office as well as print directly to PDF files

OPTIONAL SOFTWARE

- · CXP analysis software
- Multi-user analysis packages; 3-, 5- or 10-user/network-user packages
- · tetraCXP Software

OPERATING SYSTEM

Microsoft Windows 2000

WORKSTATION

- · Pentium Intel 4 3.0 Ghz processor
- (minimum specification) · System Bus 800 MHz
- 512MB RAM
- · 40GB Hard Drive
- Dual Display Video Card
- 700MB RW CD-ROM (48/24/48X)

- · On-board SCSI Controller
- · 4 USB ports, 2 USB controllers
- · Integrated Enhanced AC'97 Audio Integrated Gigabit Fast Etherner (Intel 82547)

OPTIONAL HARDWARE ACCESSORIES

- · Bar code gun
- · Optics filter kir
- · Color and black & white printers

17" flat screen display

/1280 × 1024 maximum resolution)

INSTALLATION REQUIREMENTS

Environmental operating temperature 16°-32° C (60° - 90° F)

Allow sufficient space for ventilation, and access for maintenance and service:

Cytometer

- 30.5 cm (12 in.) from the back
- 45.7 cm (18 in.) from the top
- 30.5 cm (12 in.) on both sides

Power Supply

- 12.7 cm (5 in.) from the back

UTILITY CONNECTIONS

Four 50/60Hz lines:

- 100VAC. 25A
- 115VAC, 20A
- 220VAC, 15A
- 240VAC, 15A

COMPONENT	HEIGHT	WIDTH	DEPTH	WEIGHT
Computer	15.75 cm	53.34 cm	42,55 cm	18.14 kg
	(6.2 in.)	(21 in.)	(16.75 in.)	(40 lb.)
Cytometer	61.0 cm	90 cm	73.7 cm	84.8 kg
	(24 in.)	(35.5 in.)	(29 in.)	(187 lb.)
17" Monitor	37.3 cm (14.7 in.)	37.3 cm (14.7 in.)	20.5 cm (8.1 in.)	5.8 kg (13 lb.)
Power Supply	58.4 cm	45.7 cm	71.1 cm	59.0 kg
(Universal)	(23 in.)	(18 in,)	(28 in.)	(130 lb.)
Power Supply	50.8 cm	45.7 cm	66.0 cm	54.4 kg
(Voltage-specific)	(20 in.)	(18 in.)	(26 in.)	(120 lb.)



Developing innovative solutions in Systems Biology.

Innovate Automate

Africa/Middle East/Eastern Europe: Switzerland, Nyon (41) 22 994 0707. Australia, Gladesville (61) 2 9844 6000. Canada, Mississauga (1) 905 819 1234.
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Italy, Milan (39) 02 933921. Japan, Tokyo (81) 3 5404 8424. Latin America (1) (305) 380 44709 Mexico, Maxico City (525) 575 6805. Netherlands, Mijdrecht (31) 297 230630.
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Turkey, Istanbul (90) 2 16 309 1900. UK, High Wycombe (44) 01494 441181, USA, Miami, FL (1) 800 526 3821. Option 7.

OC-Auto Micro 80



Measuring Principle	Latex agglutination immuno-turbidimetry		
Measuring Method	One step rate method		
Throughput	80 samples / hour		
Sample Rack	10 samples - 1 rack of 10 samples		
Reaction Cell	Disposable acrylic cuvettes (10 serial cells x 2 cuvette segments)		
Sampling System	Drawn up by sampling probe (Level detection, auto clean)		
Reagent Dispense	Drawn up by reagent probe (Level detection, auto clean)		
Mixing System	Mixing by rapid and angled dispensing of reagent		
Thermostatic System	37 °C Block Heater		
Reagent Storage	25 °C Block Heater for one bottle		
Light Source	L.E.D. (wavelength 660 nm)		
Light Detector	Photodiode		
Display/Data Input	20-character 4 line LCD, menu switch by jog dial and 4 keys		
Memory Capacity	999 samples		
Data Output	Built-in thermal printer, RS-232C (for LIS interfacing)		
Barcode	Built-in sample barcode reader		
Racks	Regular (sampling bottles) and Adaptor (sampling bottles and cups)		
Drainage	To sink jug or sink		
Dimension	Width 12.6" x Depth 21.0" x Height 16.6"		
Weight	57.5 lbs.		
Power Required	AC 100 - 240 V, 50/60 Hz 150 VA		
Application	CE, UL, FDA clearance, CUL, Canadian Medical Device License		
Maintenance	Minimal and easy to perform		
Traubleshooting	Refer to Operator's Manual		
Heat generation rate	129 kcal/h		

FOBT- OC Auto 80 Cut Sheet EQ-516 Special Procedures Area

Fluorescent Microscope Cut Sheet EQ-517 Special Procedures Area

pending

MINICAP

THE NEW DIMENSION OF CAPILLARY ELECTROPHORESIS



MINICAP represents the latest evolution of SEBIA's innovative Capillary Electrophoresis technology. The MINICAP provides small to medium sized laboratories all of the benefits of Sebia's Capillary technology with the added advantage of a smaller instrument footprint.

Menu expansion includes both traditional and innovative assays such as serum and urine proteins, Immunotyping (automated IF testing), hemoglobinopathy, and Carbohydrate-Deficient Transferrin (chronic alcohol abuse marker).



Sebia's MINICAP, part of the family of Capillary Electrophoresis systems, offers both flexibility and increased levels of standardization for reporting of results in the clinical diagnostic laboratory.

All illustrations and specifications contained in this leflet are based on the latest information available at the time of printing. SEBIA reserves the right to change this information at any time without prior notice.

Electrophoresis Cut Sheet EQ-518 Special Procedures Area

SAMPLER

- Initial loading of 28 tubes.
- Primary tubes: 16 x 100 mm, 17 x 100 mm (maximum),
 8 mm microtubes
- Throughput: around 22 samples/hour (protein electrophoresis).
- Sample tube identification with High Resolution barcode reader.
- · Complete walk-away automation from start to finish.

MIGRATION

- · Electrophoresis in liquid flow.
- · 2 silica capillaries.
- · 2 simultaneous sample migrations (protein electrophoresis).
- Automatic loading of the disposable anodic segments.
- 2 reagents / 2 assays on board.
- Migrations at controlled temperature with a thermoelectric cooler (Peltier device).
- · Highly reproducible results the two analyses and two capillaries.

OPTICS

- · Deuterium lamp
- Interferential filters 200 415 nm (direct protein and hemoglobin detection at their specific wavelength)
- · Optical fibers for emission and reception.
- UV lenses.
- · Photo diode detector.

■ PROGRAM

- Automatic delimiting of curves and identification of fractions minimizing operator editing.
- Reagent traceability.
- Comprehensive quality control program with statistical reduction of three Q.C. levels including Levey-Jennings charts.
- Customizable printing allowing compressed printouts of results and curves.
- Possibility to select the order in which results should be printed.
 Ability to import quantitative specific protein results providing
- Ability to import quantitative specific protein results providing one comprehensive chartable report.
- · Curves and results stored on the hard drive.
- Intra-lab result database network.
- Inter-lab result transfer through e-mail or analog modem.

■ GENERAL SPECIFICATIONS

- Dimensions: L 57,5 x H 41,1 x P 43,0.
 L 22.6 in X H 16.2 in X W 16.9 in.
- Weight: 30 kg / 66.1 lbs.

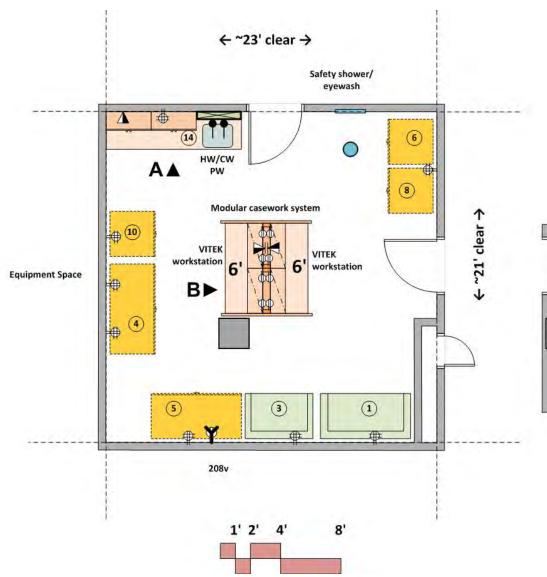
CONNECTIONS

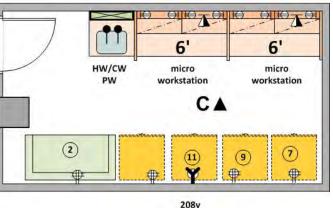
- Power source inlet: 90 to 264 V 50/60 Hz +/ 5% 300 VA.
- · Connections through PC command.



VIIA 7 Cut Sheet EQ-519 Special Procedures Area

pending





Contractor Furnished Equipment: None

Owner Furnished Equipment:

- 1. EQ-601: Biological Safety Cabinet #1- 6'
- 2. EQ-602: Biological Safety Cabinet #2- 6'
- 3. EQ-603: Biological Safety Cabinet #3- 4.5'
- 4. EQ-604: Refrigerator #1 double
- 5. EQ-605: Refrigerator #2 double
- 6. EQ-606: Refrigerator #37. EQ-607: Refrigerator #4
- 8. EQ-608: Incubator #1
- 9. EQ-609: Incubator #2
- 10. EQ-610: Blood Culture Machine)
- 11. EQ-611: New Incubator #3

Microbiology Lab

Room # P220: 465 nsf Room #P220A: 256 nsf

ARCHITECTURAL

Occupancy: B Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile

Doors: 3⁶x8⁰ with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust

6 air changes per hour minimum

Heat gain: 50 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit) 208v30a1ph

Dedicated circuits at floor equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Hot/Cold water (HW/CW) at sinks Pure water (PW) at sinks

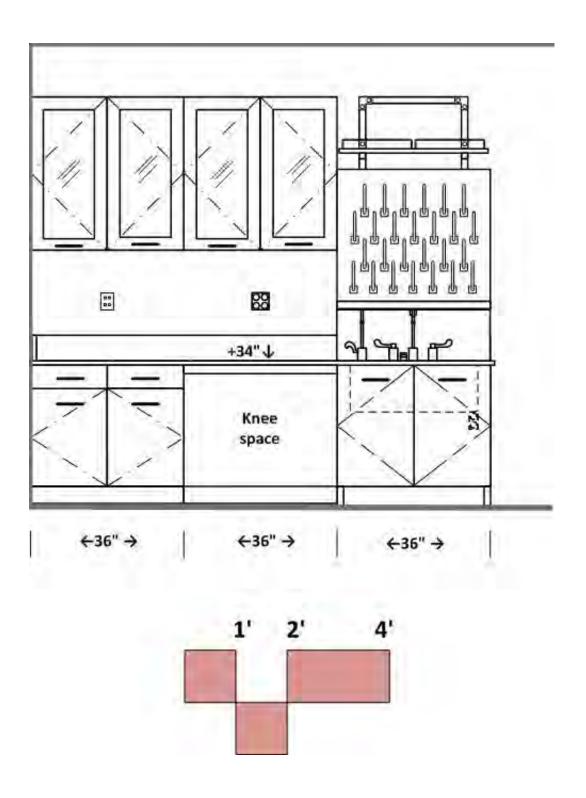
CONTRACTOR FURNISHED CASEWORK

Metal modular casework system sinks
Faucets

Microbiology Lab

Room # P220: 465 nsf

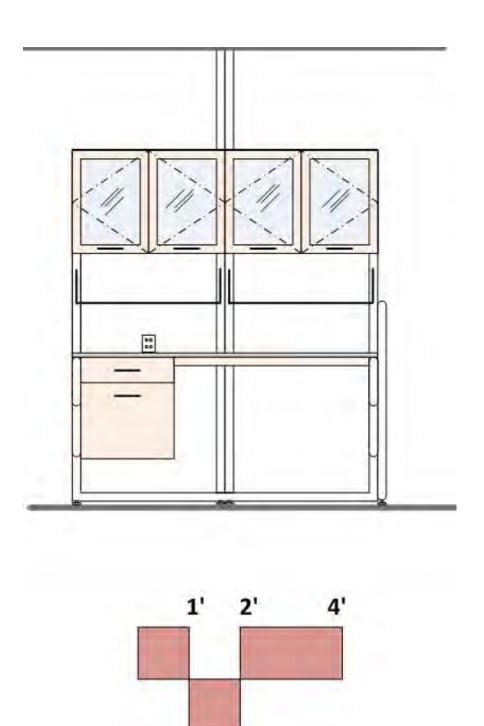
Elevation A



Microbiology Lab

Room # P220: 465 nsf

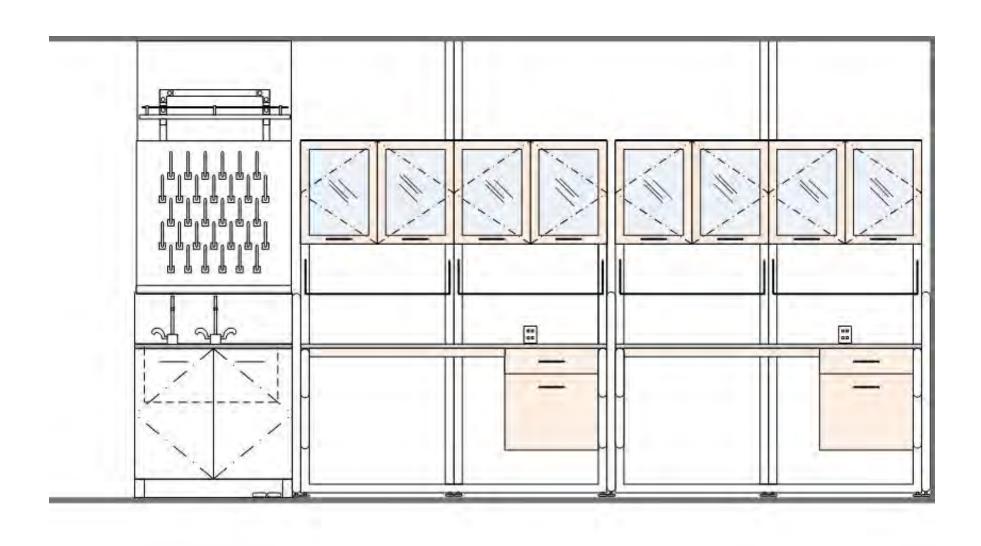
Elevation B

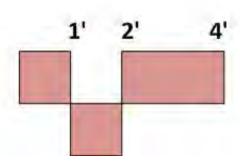


Microbiology Lab

Room #P220A: 256 nsf

Elevation C





Equipment Schedule

Room/Area:	Microbiology Lab	s- Room #2	20, 22	20A									
Equipment Number	Name/Model/ Manufacturer	Existing Room	Width	Depth	Height	Weight	Floor (F) Benchtop (B) Wall (W)	Electrical	Plumbing	Mechanical	Structural Detail	Remarks	Responsibility
Number	Ivialiulactulei	Number	vviatri	рерии	Tieigiit			ished Equipme		ivieciiailicai	Detail	Remarks	Responsibility
								tified to date					
						0		hed Equipment					
EQ-601 EQ-602	Biological Safety Cabinet Class II Type A2		72"	30"	84"	805 lbs.	F	115v20a1ph standby power	vacuum			No exhaust	Owner Furnished Owner Installed
EQ-603	Biological Safety Cabinet Class II Type A2		53"	30"	84"	80	F	115v20a1ph standby power				No exhaust	Owner Furnished Owner Installed
EQ-604 Eq-605	Refrigerator (x2) double wide		59"	36"	80"	790 lbs.	F	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-606 EQ-607	Refrigerator (x2) Helmer #125		29.5"	32.5"	79.75"	510 lb.	F	115v20a1ph standby power standby power					Owner Furnished Owner Installed
EQ-608 EQ-609	Incubator (x2)		~24"	~24"	~12"	~50 lb.	F	115v20a1ph					Owner Furnished Owner Installed
EQ-610	Blood Culture Machine		25"	34"	75"	994 lb.	F	115v20a1ph				locate near sink	Owner Furnished Owner Installed
EQ-611	Incubator	New	~24"	~24"	~12"	~50 lb.	F	115v20a1ph					Owner Furnished Owner Installed

Options and Accessories

For convenience, most options, accessories and modifications are factory installed and should be specified when ordering. Commonly requested options are listed below. For detailed information on accessories and modifications, contact The Baker Company.

- I0" viewscreen sash opening
- UV germicidal lamp
- · Stainless steel IV bar
- Additional petcock (specify label) and location)
- Plumb to top
- Plumb to rear
- Plastic storage bins
- · Mass Airflow Monitor
- Padded armrest
- Ergonomic adjustable footrest
- Type A2 exhaust kit, canopy connection
- Type A2 exhaust kit, hard connection
- Reinforced work surface
- Seismic restraints
- Optional stand with telescoping legs
- Optional stand with casters
- Remote controlled petcocks

To Order

For ordering information, terms and conditions of sale, contact The Baker Company or visit the Baker Web site at www.bakerco.com for the name of your authorized Baker Company representative.

Caution:

A Class II, Type A2 biological safety cabinet is suitable for work with agents in the absence of volatile toxic chemicals and volatile radionuclides. With proper ventilation to the outside, a Class II, Type A2 biological safety cabinet is suitable for work with agents assigned to biosafety levels 1, 2 or 3, treated with minute quantities of volatile toxic chemicals and trace amounts of radionuclides required as an adjunct to microbiological studies, that will not interfere with the work when recirculated in the downflow air (as stated in National Sanitation Foundation International Standard #49).

Note: The adequacy of this containment cabinet for the user's personal safety, as with any containment cabinet, should be determined by an industrial hygienist or safety officer. Site preparation information, architectural drawings, detailed dimensions and purchase specifications are available.



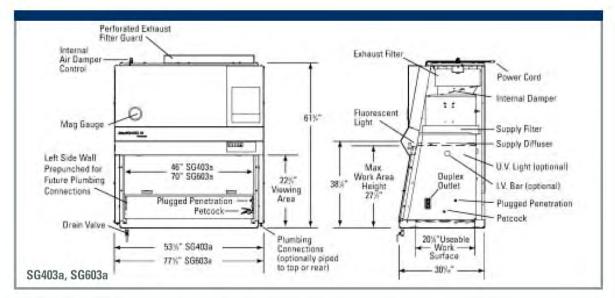
				Sumn	nary S	pecification			
	SterilGARD®III Advance° Class II, Type A2 Biological Safety Cabinet, Vertical Flow								
Model No.	Size	Opening MAX.	Electrical	Amps/ Breaker	BTU	Interior Dimensions ¹	Exterior Dimensions	Net Weight*	Ship Weight
SG403a	4'	8"(19¾")	115V, AC	12.4/20	2906	46"W x 20%"F-B*** x 27½"H	53%"W x 30%"F-B x 63%"H	525 lbs	650 lbs
SG603a	6'	8"(19 ¾")	115V, AC	14.7/20	4358	70"W x 20%"F-B*** x 27%"H	77%"W x 30%"F-B x 63 %"H	700 lbs	890 lbs

^{*}Net weight SG403a with the optional stand is 625 lbs., with a total shipping weight of 750 lbs.

Page 9

Biological Safety Cabinet Cut Sheet

EQ-601; EQ-602; EQ-603; Microbiology





SterilGARD®III Advance®

Model Number: SG403a, 41 SG603a, 6'

NSF Classification: Class II, Type A2 **Cabinet Type: Bench** (Stand Optional)

Site Preparation Electrical System

- 115V-1 Phase, 60 Hz.
- One 16' power cord with 20-amp plug, NEMA 5-20P.

- · Unit is UL Listed as certified for electrical, fire and personal safety.
- Two ground-fault interrupt protected interior duplex receptacles at 5.0 (SG403a), 4.0 (SG603a) total amps, controlled by a self-resetting circuit breaker.

Exhaust Requirement* SG403a

• For an 8" opening: 269 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

• For a 10" opening: 335 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

- For an 8" opening: 408 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.
- For a 10" opening: 510 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

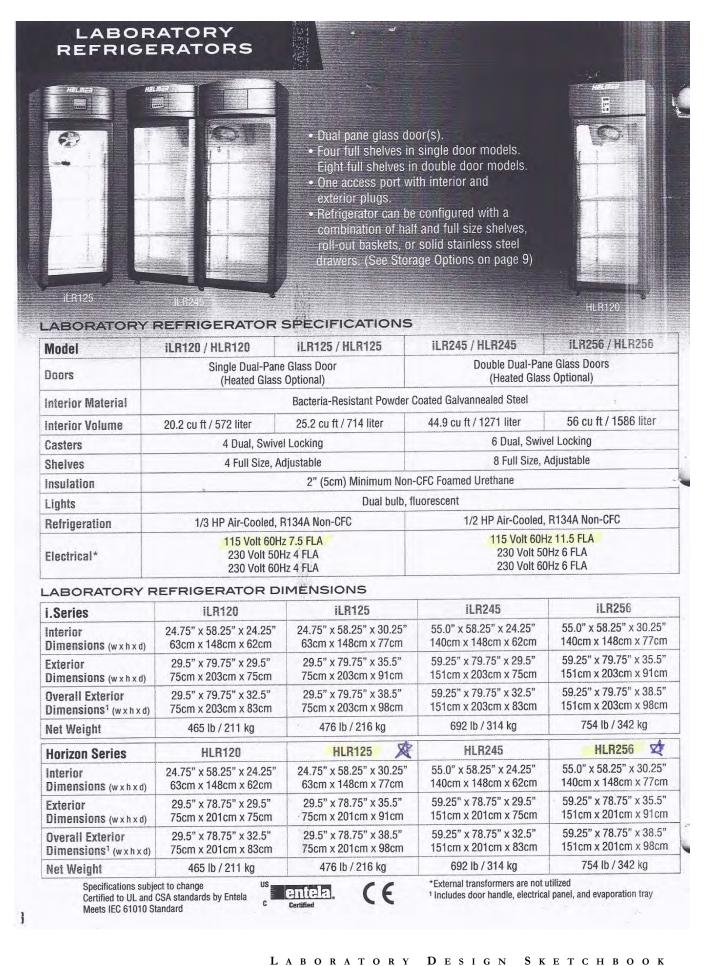
		Amperage Char	t	
Model	Blower Motor	Lighting Ballast	Duplex Receptacle	Total
SG403a	1625 RPM, 6.6 amps	0.8 amps	5.0 amps	12.4 amps
SG603a	1625 RPM, 9.9 amps	0.8 amps	4.0 amps	14.7 amps

^{*}The above exhausting requirements are basic, should the user wish to build their own connections. HEC and CEC are as noted in the chart on page 11.

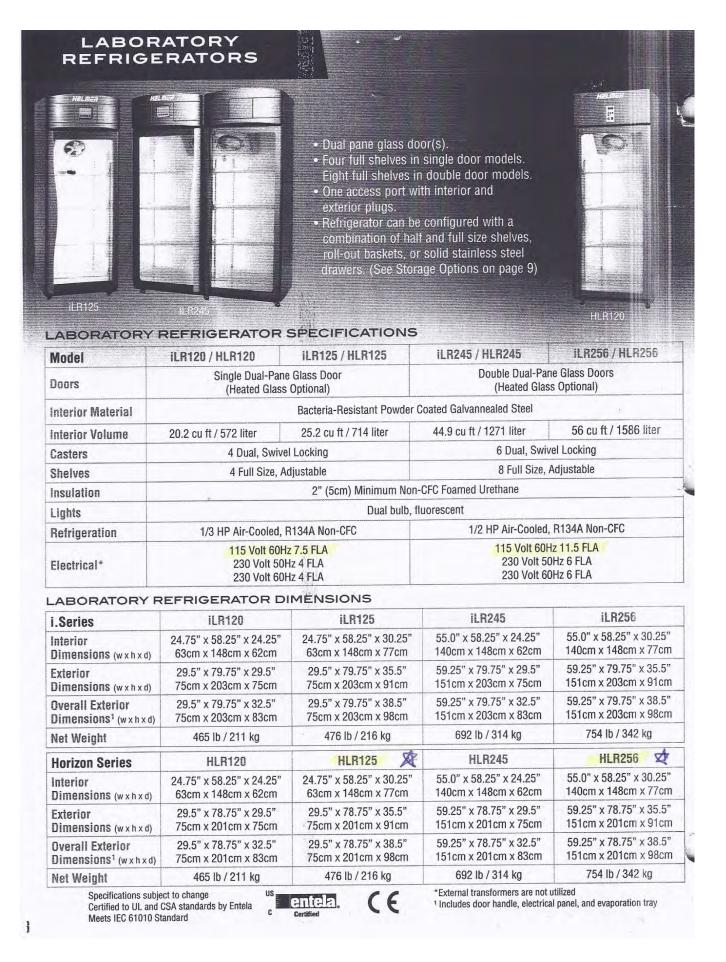
Page 10 800.992.2537 www.bakerco.com

^{*}Net weight SG603a with the optional stand is 810 lbs., with a total shipping weight of 1000 lbs. SG303 is ETL listed.

Inside cabinet is extended 2" deeper, creating 110 sq.in. (403a), 170 sq.in. (603a) additional work area. ***Useable work space dimensions.



Refrigerator Cut Sheet EQ-604; EQ-605 HLR 256 Double wide Microbiology



Refrigerator Cut Sheet EQ-606; EQ-607 HLR125 Microbiology

LABORATORY DESIGN SKETCHBOOK

Incubator Cut Sheet

EQ-608; EQ-609; EQ-611 Microbiology

Pending

Blood Culture Machine Cut Sheet EQ-610 Microbiology



Instrument Sp	pecification	WIICI ODIOIO		
Physical Dimensions		Single Instrument	Stack	
Height		88.9 cm (35.0 in)	190.5 cm (75.0 in)	
Width		63.5 cm (25 in)	63.5 cm (25 in)	
Depth		86.4 cm (34 in)	86.4 cm (34 in)	
Clearance (rear, left, right)		1.3 cm, 0 cm, 0 cm	1.3 cm, 0 cm, 0 cm	
Clearance (front)		68.6 cm (27.0 in)	68.6 cm (27.0 in)	
Weight (empty)		187.5 kg (413.4 lb)	384.8 kg (848.4 lb)	
Weight (full)		220.4 kg (485.9 lb)	451 kg (994.2 lb)	
Stand weight	XX.400	63.5 kg (140 lb)	N/A	
Counterweights (counterto	p, unanchored)	47.6 kg (105 lb)	N/A	
Electrical Requirements				
Input Voltage	100 - 240 \	VAC ± 10%		
Peak Current	8 amperes			
Input Line Frequency	47-63 Hz			
Power	800 W			

Environmental Requ	rements
Non-Operating Stora	ge and the second secon
Temperature	-17.8° to 65° C (0° - 149° F)
Humidity	10% to 90% RH, non-condensing
Operating Condition	s
Temperature	18.0° to 30.0° C (64.4° - 84.2° F)

450 btu/hr

Heat

$\Delta \Rightarrow$ Office Bulletin 7 board Wall cabinets above -6 (2) 208v 1 HW/CW 1 Base cabinets & knee space below (1) Flexible casework system Double compartment raceway at perimeter 208v fax

Equipment Space

Contractor Furnished Equipment:

Owner Furnished Equipment:

1. EQ-701: Refrigerator (x3)

2. EQ-702: Freezer -20 deg C

3. EQ-703: Centrifuge

4. EQ-704: Printer #1

5. EQ-705: Printer #2

6. EQ-706: Incubator

7. EQ-707: Water bath

None

Blood Bank Room #E-233A, 499 s.f.

ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile

Doors: 3⁶x8⁰ with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust 6 air changes per hour

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex circuit)

208v30a1ph outlets all power on standby

Dedicated circuits at floor equipment locations

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Hot/Cold water (HW/CW) at sinks Pure water at sinks

CONTRACTOR FURNISHED CASEWORK

Metal modular casework system

Epoxy resin sinks

Faucets

1' 2'

(2) Printers at

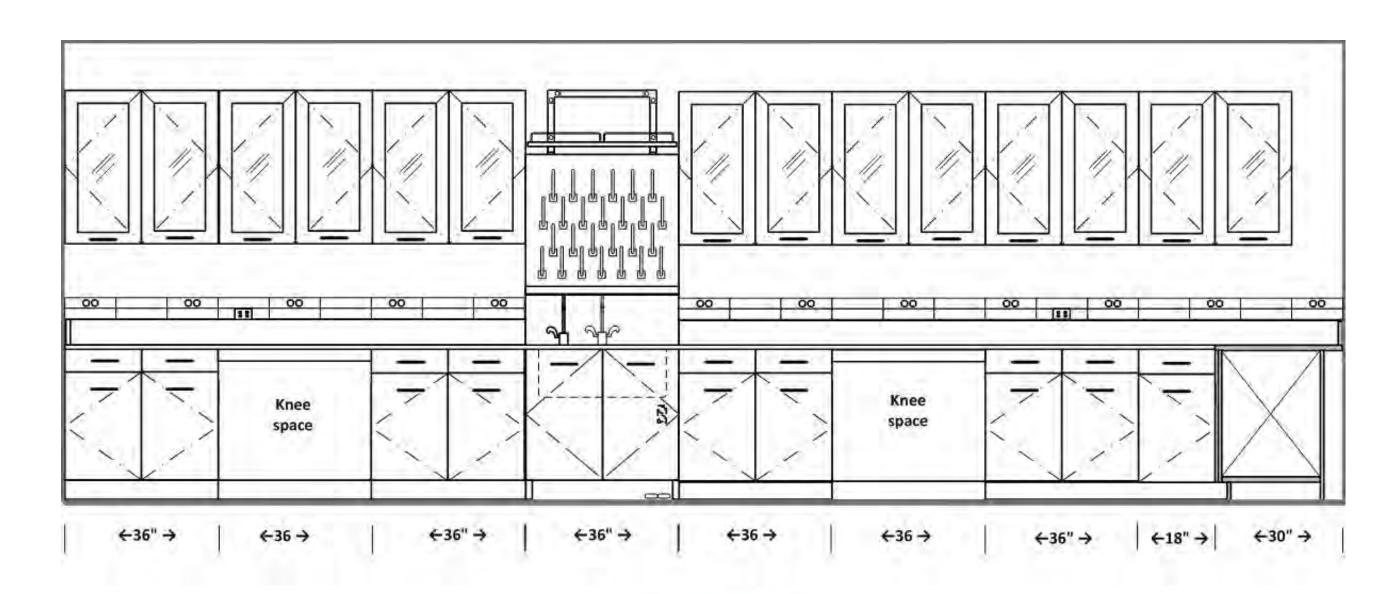
low bench

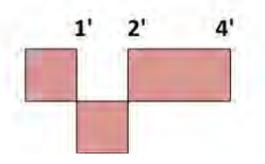
window with

roll-down screen

LABORATORY DESIGN SKETCHBOOK

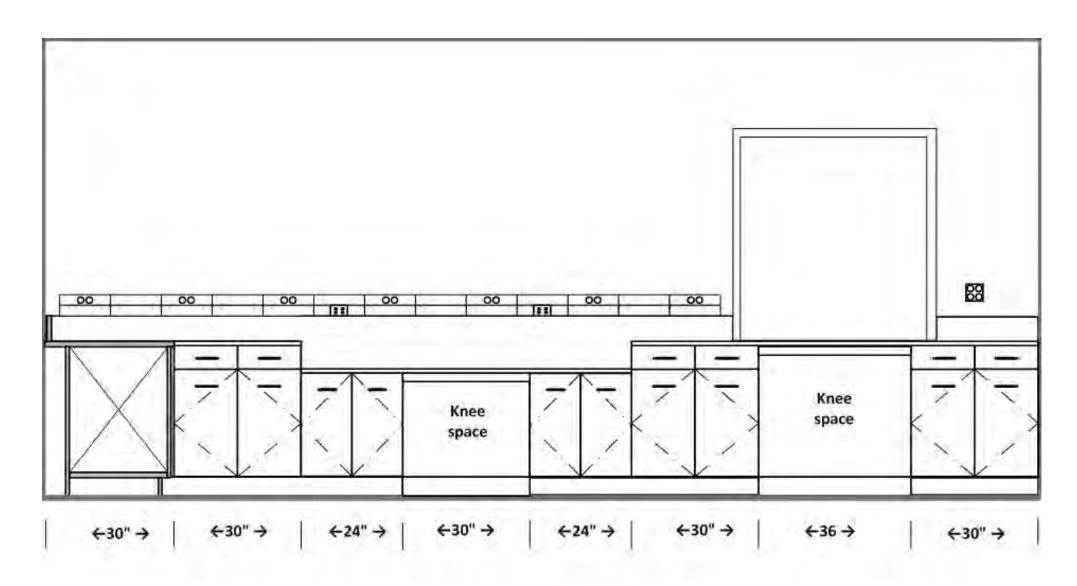
Blood Bank Room #E-233A Elevation A

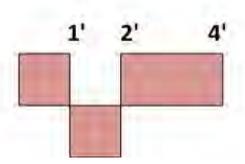




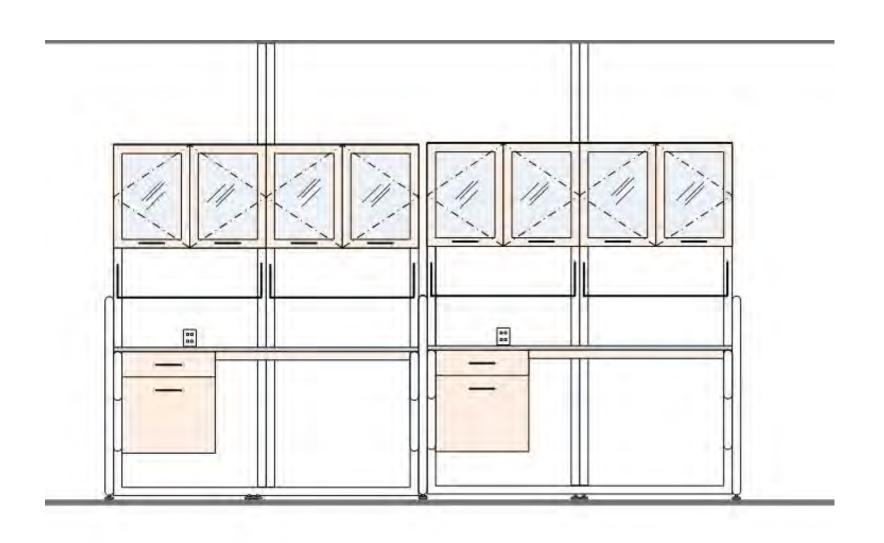
Blood Bank

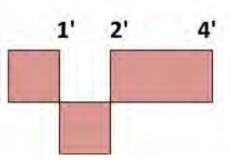
Room #E-233A Elevation B





Blood Bank Room #E-233A Elevation C





Equipment Schedule

Room/Area:	Blood Bank-	Room #P225											
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
						Cor	ntractor Fur	nished Equipme	ent				
								ntified to date					
	T			1	<u> </u>	0	wner Furni	shed Equipment	t		T		
EQ-701	Refrigerator (x3) Helmer #125	E-241A	29.5"	32.5"	79.75"	510 lb.	F	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-702	Freezer -20 deg C		29.5"	38.5"	80"	475 lbs.	F	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-703	Centrifuge		~24"	~24"	~12"	~50 lb.	В	115v20a1ph					Owner Furnished Owner Installed
EQ-704 EQ-705	Printer (x2)		~24"	~24"	~12"	~50 lb.	В	115v20a1ph data standby power					Owner Furnished Owner Installed
EQ-707	Incubator		~24"	~24"	~12"	~50 lb.	В	115v20a1ph					Owner Furnished Owner Installed
EQ-708	Water bath		~24"	~24"	~12"	~50 lb.	В	115v20a1ph				locate near sink	Owner Furnished Owner Installed

Refrigerator Cut Sheet EQ-701 Blood Bank- Model 125



Refrigerator Operation Manual i.Series™ and Horizon Series™



	i.Series	Horizon Series	International i.Series	International Horizon Series	
Blood Bank	iB*	HB*	iHB*	HHB^	
Laboratory	ILR*	HLR^			
Pharmacy	iPR*	HPR*	^ Version A	· Version B	

Applles to refrigerator models 120, 125, 245, and 256. Model 111 is Ver. A.

Model 18120 S/N 987919

HELMER, INC. 14395 BERGEN BLVD., NOBLESVILLE, IN 46060 USA PHONE (317) 773-9073 FAX (317) 773-9082 USA and CANADA (800) 743-5637



0086



ISO 13485:2003 CERTIFIED

360078-1/1

9.2 Alarm reference

If an alarm condition is met, an alarm activates. Some alarms are visual only, while others are visual and audible. Some alarms are sent through the remote alarm interface.

Reference information

The following table indicates if an alarm for a particular model is audible (A), visual (V), or sent through the remote alarm interface (R). Messages for visual alarms, if applicable, appear in the table as well.

Alarm	Refrigerator models								
	iB, iHB, iLR, iPR	HB	HHB, HLR, HPR						
Door Open	A, V ("Door Open"), R	A, V ("Door Open"), R	A, V, R						
High temperature	A, V ("High Temp"), R	A, V ("High Temp"), R	A, V, R						
Low temperature	A, V, ("Low Temp") R	A, V, ("Low Temp") R	A, V, R						
Condenser temperature	A, V ("Condenser Over-Temp"), R								
Low battery	V ("Low Battery")								
No battery	A, V ("No Battery"), R								
AC power failure	A, V ("AC Power Failure"), R	A, V ("AC Power Failure"), R	A, V, R						
Change chart paper	V ("Change Chart Paper")	V ("Change Chart Paper")							

9.3 Technical Specifications

9.3.1 Power

9.3.1.1 Input voltage and frequency

The requirements for the input voltage and frequency vary depending on the destination of the refrigerator. The requirements for a particular refrigerator are specified on the Product Specification label. The voltage tolerance is \pm 10% of the nominal voltage.

Options are as follows:

- ► 115 V 60 Hz
- ▶ 230 V 50 Hz
- ▶ 230 V 60 Hz

9.3.1.2 Power consumption

The power consumption for a particular refrigerator is specified on the Product Specification label. Power consumption is measured in full load Amperes, and tolerance is \pm 10% of the nominal current.

Input voltage	Model variety									
	111	120	125	245	256					
115 V	7.0 A	7.5 A	7.5 A	11.5 A	11.5 A					
230 V	50 Hz: 3.5 A 60 Hz: 3.0 A	4A	4 A	6 A	6 A					

9.3.1.3 Circuit breakers

Circuit breakers are used on 230 V models only. The ratings are as follows:

Input voltage		1	Model variet	у	
	111	120	125	245	256
230 V	6A	6 A	6A	7 A	7 A

360078-1/I HELMER

Refrigerator Operation Manual

9.3.1.4 Load capacity for alarm contacts

The terminals on the remote alarm interface have the following maximum load capacity:

- ▶ iB, HB, iHB, iPR, and iLR models: 0.5 A at 125 V ac; 1 A at 24 V dc
- ► HHB, HLR, and HPR models: 10 A at 250 V ac; 10 A at 125 V ac; 5 A at 100 V dc

9.3.2 Weight

The weight may vary slightly depending on what options are installed. The weights provided are for the following configurations:

- ▶ iB, HB, iHB, HHB, iPR, and HPR 111 models: 5 drawers
- ▶ iB, HB, iHB, HHB, iPR, HPR 120 and 125 models: 6 drawers
- ▶ iB, HB, iHB, HHB, iPR, HPR 245 and 256 models: 12 drawers
- ▶ iLR and HLR 111 models: 4 shelves
- ▶ iLR and HLR 120 and 125 models: 4 full-size shelves
- ▶ iLR and HLR 245 and 256 models: 8 full-size shelves

Model family	Model variety								
	111	120	125	245	256				
iB, HB, iHB, HHB, iPR, HPR	*340 lb	510 lb	535 lb	800 lb	880 lb				
	154 kg	231 kg	243 kg	363 kg	400 kg				
iLR, HLR	320 lb	465 lb	476 lb	692 lb	754 lb				
	145 kg	211 kg	216 kg	314 kg	342 kg				

9.3.3 Size

All dimensions are for the overall exterior and include items that protrude from the main unit.

Model family	Dimension			lodel variet	У	
		111	120	125	245	256
iB, iLR, iPR	Width	24.25 in	29.50 in	29.50 in	59.25 in	59.25 in
		62 cm	75 cm	75 cm	151 cm	151 cm
	Height	70.50 in	79.75 in	79.75 in	79.75 in	79.75 in
		179 cm	203 cm	203 cm	203 cm	203 cm
	Depth	28.25 in	32.50 in	38.50 in	32.50 in	38.50 in
		72 cm	83 cm	98 cm	83 cm	98 cm
НВ, ІНВ, ННВ,	Width	24.25 in	29.50 in	29.50 in	59.25 in	59.25 in
HLR, HPR		62 cm	75 cm	75 cm	151 cm	151 cm
	Height	70.50 in	78.75 in	78.75 in	78.75 in	78.75 in
		179 cm	201 cm	201 cm	201 cm	201 cm
	Depth	28.25 in	32,50 in	38.50 in	32.50 in	38.50 in
		72 cm	83 cm	98 cm	83 cm	98 cm

FREEZERS LABORATORY - HORIZON SERIES" MODEL HLF125

SPECIFICATIONS

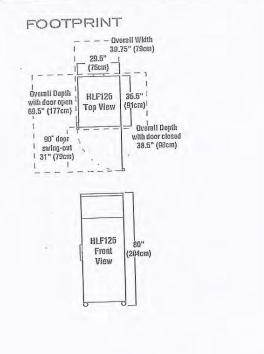
Temperature Range	-15°C to -30°C
Interior Dimensions (w x h x d)	24.75" x 58.25" x 30.25"
Exterior Dimensions (w x h x d)	29.5" x 80" x 35.5"
Overall Exterior Dimensions (w x h x d) Includes door handle, electrical panel, and evaporation tray	30.75" x 80" x 38.5"
Interior Volume	25.2 cu ft / 714 liters
Door	Solid galvannealed steel with bacteria resistant powder coating
Interior Configuration	4 Epoxy Coated Wire Shelves
Electrical	208 / 230V 60Hz 6 FLA NEMA 6-15 Plug
Net Weight	475 lb
Clearance Requirements	Minimum of 8" above and 3" behind freezer for ventilation

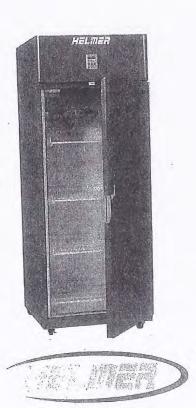
FEATURES

- Microprocessor-based temperature controller with:
- Programmable operating temperature
- Programmable high temperature alarm with visual and audible indicators
- LED display of chamber temperature
- Bacteria-resistant powder coated interior and exterior
- · Dual, swivel locking casters
- Key lock

WARRANTY

- 3 Years Compressor
- 2 Years Parts
- 1 Year Labor

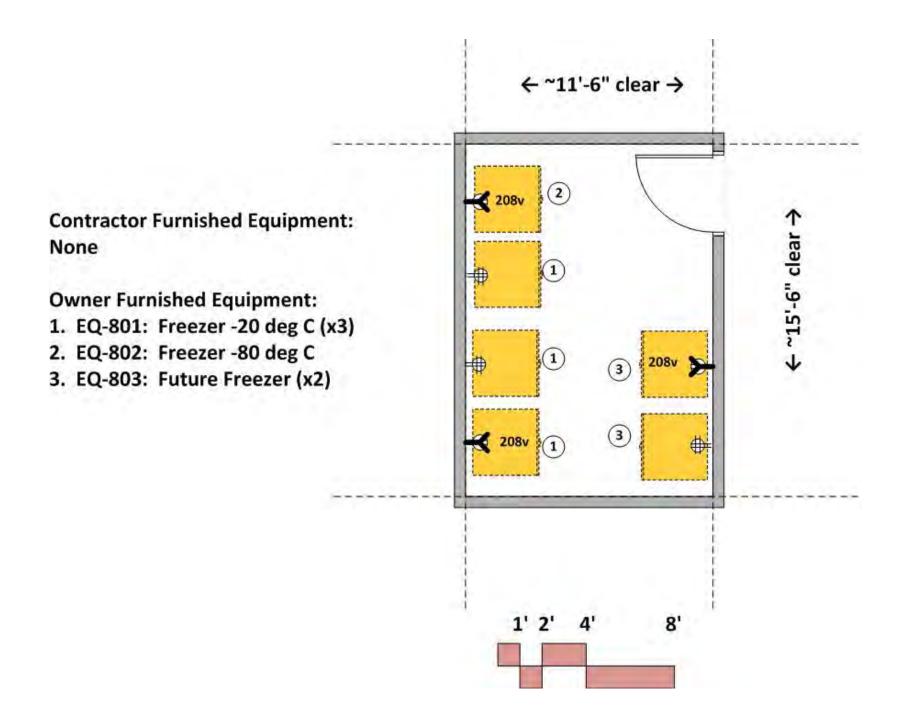






Freezer Cut Sheet EQ-702 Blood Bank

Freezer Room ROOM #P251



ARCHITECTURAL

Occupancy: B

Floor: sealed concrete

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile

Doors: 3⁶x8⁰

Acoustic Attenuation: NC 45 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust 6 air changes per hour Heat gain: 75 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)

208v30a1ph

All outlets on standby power

Dedicated circuits at floor equipment locations

Lighting: indirect fluorescent @ 50 f.c.

PLUMBING

None

CONTRACTOR FURNISHED CASEWORK

None

Equipment Schedule

Room/Area:	Freezer Room #	P251											
.		5					Floor (F) Benchtop				6		
Equipment	Name/Model/	Existing Room					(B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
						Cor	ntractor Fur	nished Equipme	ent				
							None Ider	ntified to date					
				_		0	wner Furni	hed Equipmen	t .				
EQ-801	Freezer -20 deg C (x3)		29.5"	38.5"	80"	475 lbs.	F	115v20a1ph					Owner Furnished
	Accessioning							standby power					Owner Installed
EQ-802	Freezer -80 deg C		29.5"	38.5"	80"	475 lbs.	F	208v60hz1ph					Owner Furnished
	Accessioning							standby power					Owner Installed
EQ-803	Future Freezer -20 deg C		29.5"	38.5"	80"	475 lbs.	F	115v20a1ph					Owner Furnished
	Accessioning							standby power					Owner Installed

FREEZERS LABORATORY - HORIZON SERIES MODEL HLF125

SPECIFICATIONS

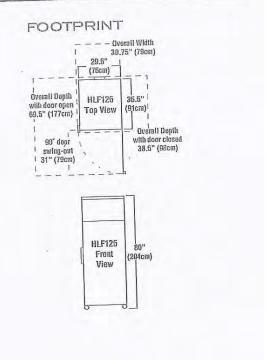
Temperature Range	-15°C to -30°C
Interior Dimensions (w x h x d)	24.75" x 58.25" x 30.25"
Exterior Dimensions (w x h x d)	29.5" x 80" x 35.5"
Overall Exterior Dimensions (w x h x d) Includes door handle, electrical panel, and evaporation tray	30.75" x 80" x 38.5"
Interior Volume	25.2 cu ft / 714 liters
Door	Solid galvannealed steel with bacteria resistant powder coating
Interior Configuration	4 Epoxy Coated Wire Shelves
Electrical	208 / 230V 60Hz 6 FLA NEMA 6-15 Plug
Net Weight	475 lb
Clearance Requirements	Minimum of 8" above and 3" behind freezer for ventilation

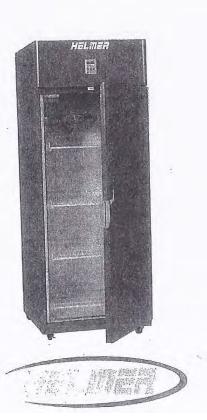
FEATURES

- Microprocessor-based temperature controller with:
- Programmable operating temperature
- Programmable high temperature alarm with visual and audible indicators
- LED display of chamber temperature
- Bacteria-resistant powder coated interior and exterior
- · Dual, swivel locking casters
- Key lock

WARRANTY

- 3 Years Compressor
- 2 Years Parts
- 1 Year Labor







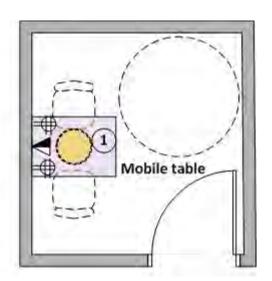
Freezer Cut Sheet EQ-801; EQ-803; -20 deg C **Freezer Room**

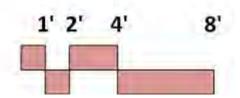
Freezer Cut Sheet

EQ-802; -80 deg C Freezer Room

Contractor Furnished Equipment: None

Owner Furnished Equipment: 1. EQ-901: Double microscope





Microscopy Room # P216

ARCHITECTURAL

Occupancy: B Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile

Doors: 3⁶x8⁰

Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust

6 air changes per hour Heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)

Data

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

None

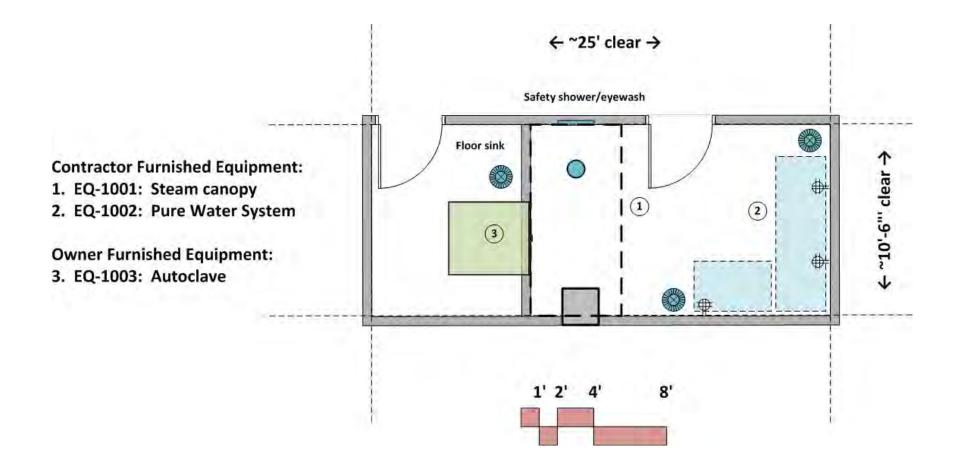
CONTRACTOR FURNISHED CASEWORK

Mobile table

Equipment Schedule

Room/Area:	Microscopy I	Room #P216											
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
	Contractor Furnished Equipment												
							None Iden	tified to date					
	Owner Furnished Equipment												
EQ-901	Microscope		~36"	~24"	~18"	~25 lbs.	В	115v20a1ph				locate on mobile table	Owner Furnished
	Double head							data					Owner Installed

Autoclave/Pure Water Room #P203, P204



ARCHITECTURAL

Occupancy: B

Floor: trowelled-on epoxy resin Walls: gypsum board and epoxy paint Ceiling: 9' mylar acoustic tile Doors: 3^6x8^0 with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust

6 air changes per hour Heat gain: 75 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)
Dedicated circuits at floor equipment locations
208v60a3ph at autoclaves with quick disconnect
Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

Relocate pure water system from existing location Redistribute pure water loop to labs Floor sink at autoclaves

CONTRACTOR FURNISHED CASEWORK

None

Equipment Schedule

Room/Area:	Autoclave/Pure	Water- Roor	n #P20)3, P2	204								
							Floor (F) Benchtop						
Equipment	Name/Model/	Existing Room					(B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
					_	Con	tractor Fur	nished Equipme	ent				
EQ-1001	Steam Canopy	New	~10'-6"	~5'	~18"	~200 lbs.	Ceiling			600 c.f.m. exh.		316L stainless steel	Contractor Furnished
										VAV			Contractor Installed
EQ-1002	Pure water system					varies	F	115v20a1ph	drain				Contractor Furnished
	Millipore							standby power	piping to labs				Contractor Installed
	Type 2												
						0	wner Furni	shed Equipmen	t				
EQ-1003	Autoclave	New	44"	48"	75.25"	3800 lb.	F	480v3ph	hot/cold water	exhaust canopy		integral electric steam	Owner Furnished
	26"x37.5"x36" chamber							120v1ph	Drain	at ceiling		generator	Contractor Installed
	Amsco Century							Standby power	Vacuum				
	Vacuum								floor sink				

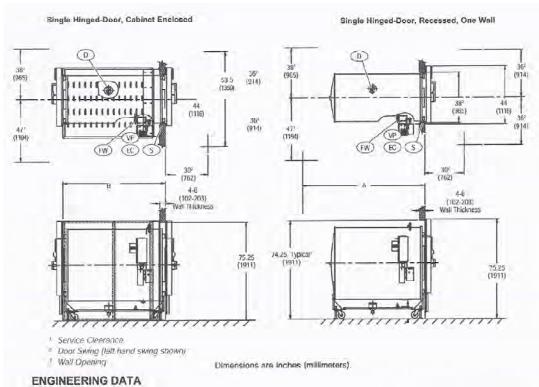
Pure Water System Cut Sheet EQ-1002 Autoclave/Pure Water Room

Pending

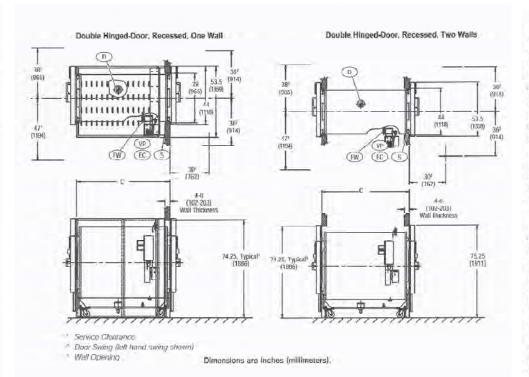
Autoclave Cut Sheet EQ-1003

Autoclave/Pure Water Room

Single Door Recessed One Wall



Drain:	2" ODT drain term	ninal (floor drain capacity must handle peak water consumption)
Electric: • USA:	Control: Vacuum Pump;	120 volt, 1-phase, 60 Hz, 2 A. 208/240 volt, 3-phase, 60 Hz, 6 A per phase, or 480 volt, 3-phase, 60 Hz, 3 A per phase.
· UK:	Control Vacuum Pump:	230 volt, 1-phase, 50 Hz, 1.5 A. 400 volt, 3-phase, 50 Hz, 6 A per phase
International: (Outside UK)	Control: Vacuum Pump:	230 volt, 1-phase, 50 Hz, 1.5 A. 400 volt, 3-phase, 50 Hz, 4 A per phase.
Steam:	percent vapor qui Consumption - 18	30 psig (3.45 to 5.52 bar. cynamic), condensate free, and 97 percent to 100 tallity aslity 35 lb/hr (84kg/hour) lb/hr (152 kg/hour)
Water:	Consumption - 13	50 psig (1.38 to 3.45 bar), dynamic 30 gal/mr (495 L/hr) gal/min (57 L/min)
Operating Weight:	26 x 37 5 x 48* (6	60 x 950 x 914 mm) 3800 lb (1720 kg) 60 x 950 x 1219 mm) 4200 lb (1900 kg) 60 x 950 x 1524 mm) 4700 lb (2125 kg)



WATER QUALITY RECOMMENDATIONS

Recommended Feed Water Quality for Sterilizers									
Condition	Mominal Conditions	Maximum Conditions							
Temperature	40°-60°F (4"-16°C)	70°F (21°C)							
Total Hardness as CaCO ₃ "	50-120 mg/L	171 mg/L							
Total Dissolved Solids	100-200 mg/L	500 mg/L							
Total Alkalinity as CaCO ₃	70-120 mg/L	180 mg/L							
pH	6.8-7.5	6.5-8.5							
Total Silica	0.1 - 1.0 mg/L	.2.5 mg/L							

NOTE Because of STERIS's continuing program of research and development, all specifications and descriptions are subject to change without notice. Some options may affect utility consumptions. Obtain certified drawings for design and installation.

OVERALL INSTALLED LENGTH

Refer To Illustrations
Dimensions are: inches (mm).

Chamber Length

	36	48	60
	(914)	(1219)	(1524)
A	69	81	93
	(1753)	(2057)	(2362)
В	58	70	82
	(1473)	(1778)	(2082)
c	48	60	72
	(1219)	(1524)	(1829)
D	.59	71	83
	(1499)	(1803)	(2108)
Б	77.5	83,5	95.5
	(1816)	(2121)	(2425)
F	53.25	65.25	77.25
	(1352)	(1657)	(1962)

Air Differential Seal (Double Door

units only) – provided on the nonoperating end of the sterilizer, prevents passage of vermin from nonsterile area to the sterile area.

Eighteen-Cycle Capability – provides an additional 12 cycles to the control system memory, for a total of 18 cycles.

3" Tri-Clamp Penetration – permits insertion of temperature probes, such as thermocouples or resistive thermal devices (RTD), into the chamber. The assembly includes a stainless-steal threaded clamp, seal, and seat to accept a maximum of 12 customer-supplied probes.

Integral Electric Steam Generator – An optional 45 kW steam generator is available for this sterilizer. The generator is manufactured of carbon or stainess steel, and is positioned beneath the sterilizer. Additional floor space, either at the rear of the sterilizer (single coor chamber), or at the side (double door chamber) is required. Arithional utility requirements are also needed. Refer to the appropriato equipment drawings if an integral steam generator is required.

ACCESSORIES

Seismic Tie-down Kit - conforms to Title 24 California Code of Regulations, 1993 Amendment Section 2336(B)

Material Handling Accessories -

include stainless-steel chamber tracks and stainless-steel loading cars with painted-steel carriages. Stainless-steel chamber rack and shelf are available for 36" (914mm) sterilizers. See separate product literature for details.

PREVENTIVE MAINTENANCE

A grobal network of skilled service specialists can provide periodic inspections, and adjustments to assure low-cost peak performance. STERIS representatives can provide information regarding Annual Maintenance Agreements.

NOTES

Refer to equipment grawing for full information.

- I he sterlizer is not supplied with a vacuum breaker or backflow preventer and, where required by local codes installation of such a device in water line is by others.
- Pipe sizes shown indicate terminal outlets only. Building service lines, provided by others, must supply the specified pressures and flow rates.
- Disconnect switches (with OFF position lockout only, by others) should be installed in electric supply lines near the equipment.
- Access to the recessing area from the control end of the sterilizer is recommenced.
- Clearances shown are minimal for installing and servicing the equipment.
- Depending on the loading equipment used, additional clearance is required:
- If shelves are used, length of sterilizer plus 24" (610 mm) at each door
- If loading can and carriage will be used, twice the length of sterilizer at each door.
- Floor drain should be provided within confines of sterillzer framework.

UTILITY REQUIREMENTS

Drain (D)

2" ODT drain terminal (floor drain capacity must handle peak water consumption)

ElectricControl (EC) Domestic

120 V, 1-phase, 60 Hz, 2 A

ElectricControl (EC) International 230 V, 50 Hz, 1-phase, 1.5 A

Electric Control, Vacuum Pump (VP)
Domestic

480 V. 60 Hz. 3-phase, 3 A per phase, or 208/240 V. 60 Hz. 3-phase, 6 A per

Electric Control, Vacuum Pump (VP)

400 V. 50 Hz. 3-phase, 4 A por

Steam (S)

Pressure – 50 to 80 psig (3.45 to 5.52 bar, dynamic), condensate free and 97% to 100% vapor quality

Consumption ~ 185 lbs/hr (84 kg/ hour)

Peak Flow – 335 lbs/hr (152 kg/hour)

ze - 1" NPT

Sterilizer Feedwater (FW)

Pressure - 20 to 50 psig (1.38 to 3.45 bar), cynamic Consumption - 130 gal/hr (495 L/-

hour) Peak Flow – 15 gal/min (57 L/min)

Size - 1' NPT

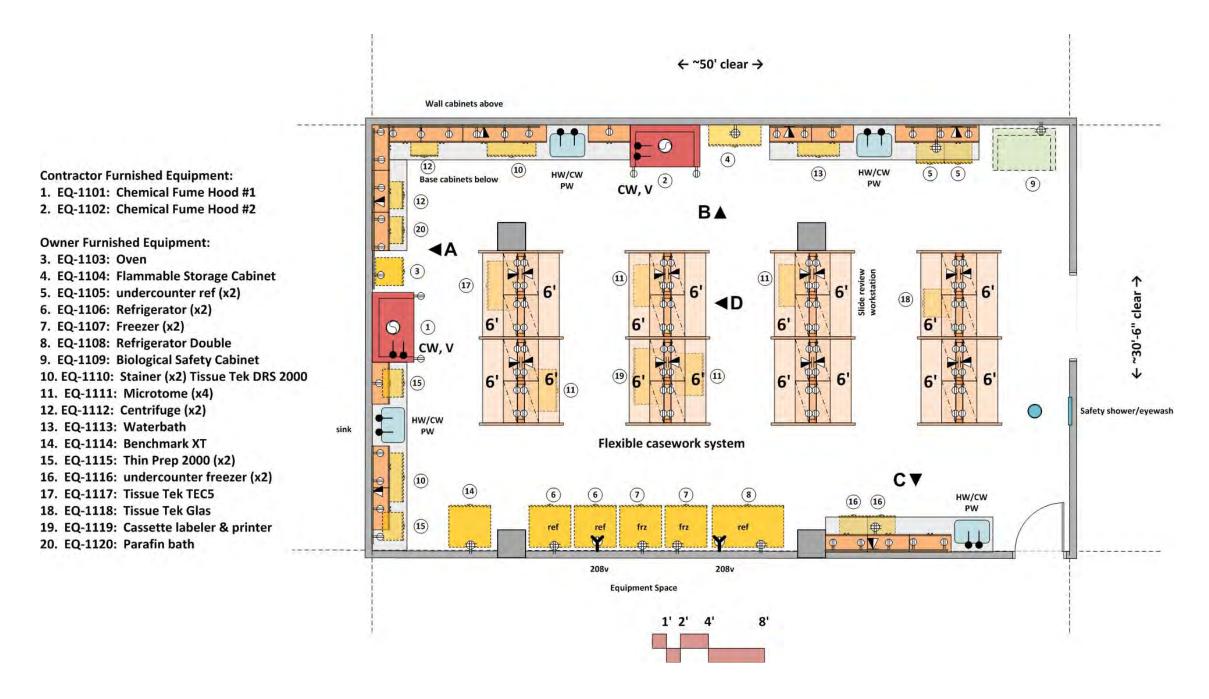
NOTE: Backflow prevention is by others; not supplied on unit.

... CHECK LOCAL CODES ...

Histology/Cytology Lab

Room #P242

1,507 nsf



ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' acoustic tile

Doors: 3⁶x8⁰ with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust

6 air changes per hour Heat gain: 50 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)

8v30a1pl

Dedicated circuits at equipment locations

Data

Lighting: indirect fluorescent @ 60 f.c.

PLUMBING

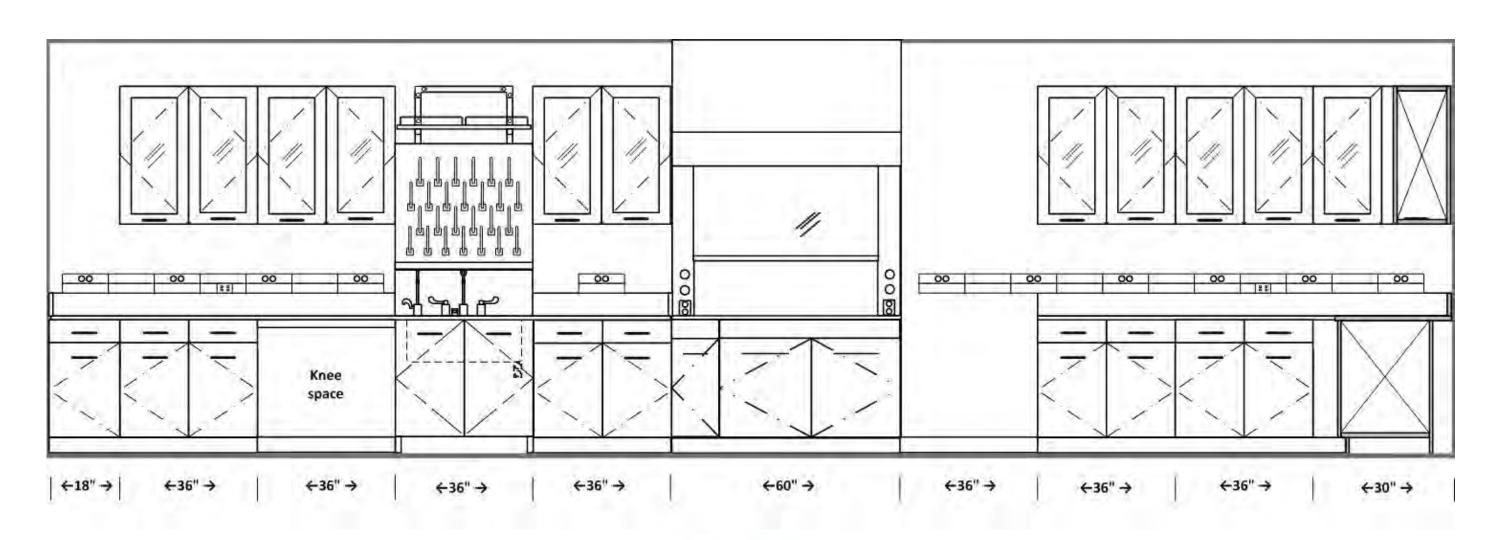
Hot/Cold water (HW/CW) at sinks pure water at sinks

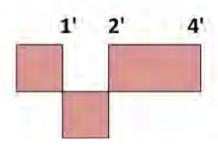
CONTRACTOR FURNISHED CASEWORK

Metal modular casework system Stainless steel sinks

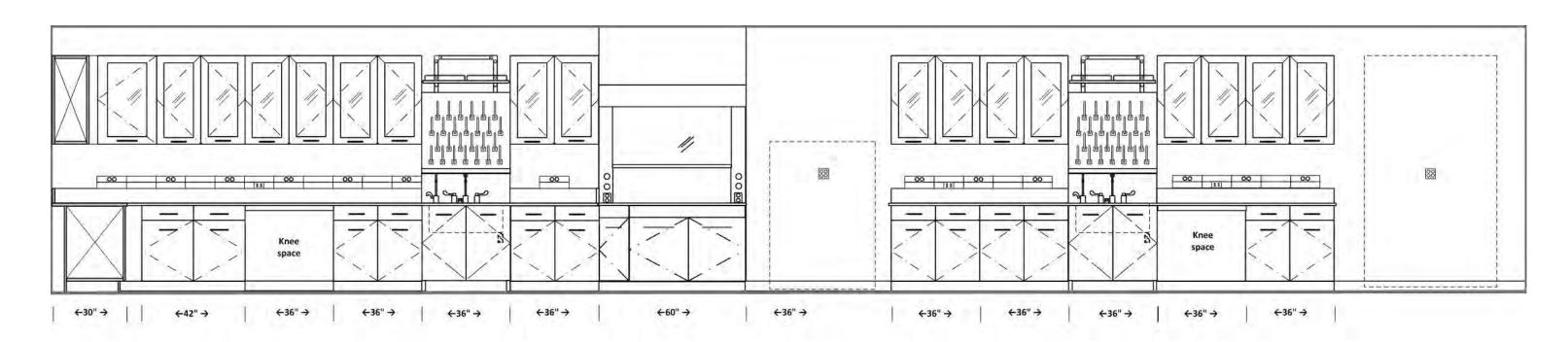
Faucets

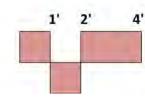
Histology/Cytology Lab Room #P242 Elevation A



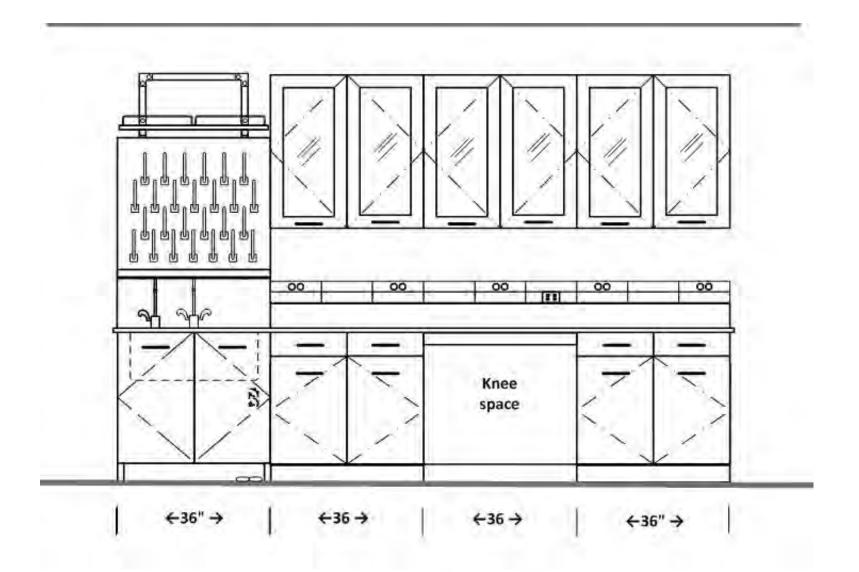


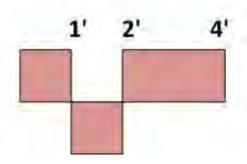
Histology/Cytology Lab Room #P242 Elevation B



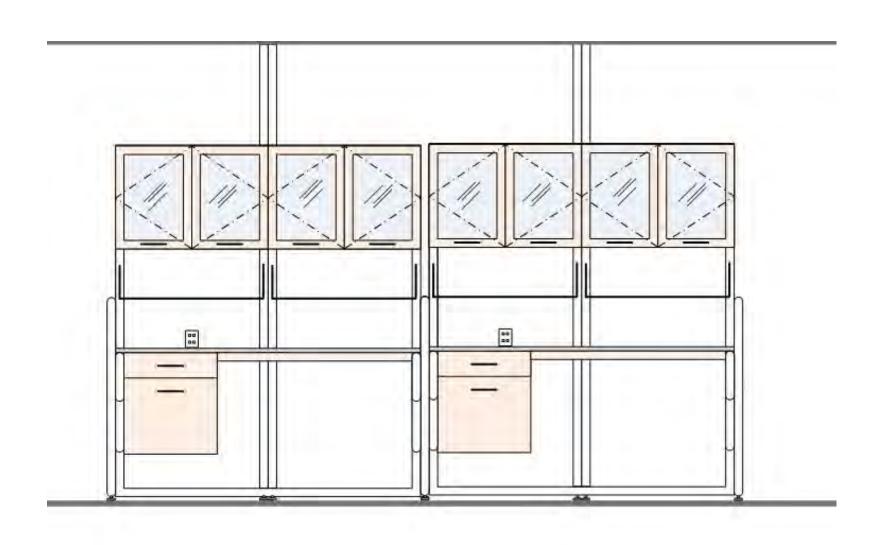


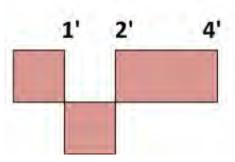
Histology/Cytology Lab Room #P242 Elevation C





Histology/Cytology Lab Room #P242 Elevation D





Equipment Schedule

Room/Area:	Histology/Cytology	Lab- Room	ո #P2	42									
·							Floor (F) Benchtop						
Equipment	Name/Model/	Existing Room					(B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
	,			ı	_	Con	tractor Furn	ished Equipme	nt				
EQ-1101	Chemical Fume Hood		60"	39.2"	96"	460 lbs.	F	115v20a1ph	Cold Water	600 c.f.m. exh.		flammable and corrosive	Contractor Furnished
EQ-1102								prewired	Drain	VAV		cabinets below	Contractor Installed
								emer power	Vacuum				
									Air- 30 psi				
									preplumbed				
		T		T	1	0	wner Furnis	hed Equipment	t .	T			
EQ-1103	Oven		24"	24"	38"	~200 lb.	F	115v20a1ph					Owner Furnished
								standby power					Owner Installed
EQ-1104	flammable storage cabinet		43"	18"	60"	~200 lb.	F						Owner Furnished
													Owner Installed
EQ-1105	undercounter refrigerator (x2)		~24"	~24"	~32"	~200 lbs	F	115v20a1ph					Owner Furnished
EQ-1105	undercounter reingerator (x2)		24	24	32	~200 lbs.	F						Owner Installed
								standby power					Owner installed
EO-1106	Refrigerator (x2)	E-241A	29.5"	32.5"	79.75"	510 lb.	F	115v20a1ph					Owner Furnished
	Helmer #125							standby power					Owner Installed
EQ-1107	Freezer (x2)		29.5"	38.5"	80"	475 lbs.	F	208v60hz1ph					Owner Furnished
	-20 deg C							standby power					Owner Installed
EO-1108	Refrigerator		59"	36"	80"	790 lbs.	F	115v20a1ph					Owner Furnished
	double wide							standby power					Owner Installed
EQ-1109	Biological Safety Cabinet		53"	30"	84"	~300 lbs.	F	115v20a1ph	vacuum			No exhaust	Owner Furnished
	Class II Type A2							standby power					Owner Installed
			<u> </u>										
EQ-1110	Stainer (x2)		45"	19"	26"	223 lb.	В	115v20a1ph				locate near sink	Owner Furnished
	Tissue Tek DRS 2000							standby power					Owner Installed
EO 1111	Microtomo		~48"	~24"	~18"	~50 lbs.	D	11Ev20010h					Owner Furnished
EQ-1111	Microtome		48	24"	19	SU IDS.	В	115v20a1ph					
								standby power					Owner Installed
	1	I	II.	1				1	<u> </u>	1			
EQ-1112	Centrifuge		~24"	~24"	~12"	~30 lbs.	В	115v20a1ph					Owner Furnished

Equipment Schedule

Room/Area:	Histology/Cytology Continued	Lab- Room	#P24	12									
Equipment	Name/Model/	Existing Room					Floor (F) Benchtop (B)				Structural		
Number	Manufacturer	Number	Width	Depth	Height	Weight	Wall (W)	Electrical	Plumbing	Mechanical	Detail	Remarks	Responsibility
	,				1 3		•	hed Equipmen					1 1
EQ-1113	Waterbath		~24"	~24"	~12"	~30 lbs.	В	115v20a1ph standby power				locate near sink	Owner Furnished Owner Installed
EQ-1114	Benchmark XT		35"	26"	60.25"	385 lb.	F	120v20a1ph standby power					Owner Furnished Owner Installed
EQ-1115	Thin Prep 2000		24"	15"	19.5"	41 lb.	В	115v20a1ph standby power					Owner Furnished
EQ-1116	undercounter freezer (x2)		~24"	~24"	~32"	~200 lbs.	F	115v20a1ph standby power					Owner Installed Owner Furnished Owner Installed
EQ-1117	Tissue Tek TEC5		35.6"	25.3"	37.7"	41 lb.	В	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-1118	Tissue Tek Glas		20"	25"	25"	152 lb.	В	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-1119	Cassette Labeler & Printer		~48"	~18"	~18"	~100 lb.	В	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-1120	parafin bath		15"	15"	24"	~50 lb.	В	115v20a1ph standby power					Owner Furnished Owner Installed

Protector XStream Laboratory Hoods



Protector XStream Laboratory Hood 9840600 is shown with SpillStopper Work Surface 9849800, Protector Acid Storage Cabinet 9901100 and Protector Standard Storage Cabinet 9900100, Blower, ductwork, work surface and base cabinets must be ordered separately.

All models feature:

- + Modified by-pass airflow design.
- Ergonomic air foil with aerodynamic Clean-Sweep*airflow openings.
- Upper Dilution Air Supply.*
- Glacier white, dry powder epoxy-coated steel exterior.
- Chemical-resistant, fiberglass-reinforced, composite panel liner and pre-set Rear Downflow Dual Baffle System* with flame spread less than 25 per ASTME-84
- 3/16' thick tempered safety glass vertical-rising sash with epoxy-coated aluminum sash handle with large radius and perforations.*

- Removable front and side panels and front and interior service access panels for access to plumbing and electrical wiring.
- Pre-wired T8 fluorescent lighting, ADAcompliant light and blower switches for 115 volt, 60 Hz operation.
- Sash stop located at 18' sash opening position
- Epoxy-coated stainless steel, 12.81° ID exhaust connection(s).

Contact Labconco at 800-821-5525 or 816-333-8811 for ordering information on explosion-proof lighting and other sash configurations and for blower sizing assistance. All models conform to the following regulations and standards:

- · SEFA 1-2002
- · NFPA 45-2000
- + ASTME84-01
- ASHRAE 110-95
- ANSI Z9.5-1993
- + UL 3101-1/61010-1
- · CAN/CSA C22.2 No. 1010.1
- · UL 1805
- CE Conformity Marking (230 volt models)[†]

Fixtured models feature:

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water.
 Components for converting either or both fixtures to air and vacuum are provided. Inlet tubing is not provided.
- 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 Surface, See pages 92-95.
- Base Cabinet or Stand.
 See pages 96-106.

Optional accessories for on-site installation include:

- · Service Fixture Kits. See page 107.
- + Electrical Duplex Kits. See page 108.
- Guardian Jr. and Digital Airflow Monitor Kits. See page 108.
- · Distillation Grid Kits. See page 110.
- · Sash Stop Kits. See page 108.
- Snuffer Fire Extinguishers.
 See page 110.
- Ceiling Enclosure and Rear Finish Panel Kits. See page 109.

* U.S. Rajent No. 6,961,233 † pending

5 Seights of switches, electrical receptable and service factures meet seguirements of ADA.

Sadusije Saarure

Chemical Fume Hood Cut Sheet

EQ-1101; EQ-1102 Histology/Cytology Lab



Ordering Information Protector: XStreem" Laboratory Hoods

ASHRAE 110-95 tests show less than 0.05 ppm leak rate when tested at 4.0 lpm; at OSHA-approved 60, 80, and 100 fpm face velocity and sash positions of 18° and 28°. To ensure performance at 60 fpm,

Labconco engineers challenged the Protector XStream Hood at less

than ideal conditions such as 30 fpm cross drafts, modified ASHRAE test procedures and average face velocities lower than 60 fpm.

Contact Labconco for a technical paper with complete ASHRAE test data

Total Extraust CFM and Static Pressure @ 18" Sash Opening (60% open)

No minal Width	100 fpm	sp	80 fpm	s.p.	60 fpm	sp	CFM Savings at 60 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm
4 feet	470	0.11	380	0.07	280	0.04	190	\$760
5 feet	610	0.13	490	0.03	370	0.05	240	\$960
6 feet	750	0.15	800	0.10	450	0.06	900	\$1200
8 feet	1060	0.12	850	0.08,	640	0.04	420	\$1680

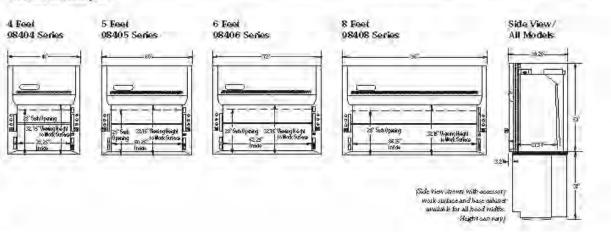
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% open)

Nominal Width	100 fpm	s.p.	80 fpm	s.p.	60 fpm	s.p.	CFM Savings at 66 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
4 feet	790	0.25	590	0.13°	440.	0.08	290	\$1160
5 feet	960	0.30	770	0.19	580	0.11	380	\$1 520
6 feet	1180	0.96	940	0.23	710	0.13*	470	\$1.880
8 feet	1660	0,28	1330	0.18	1000	0.10*	660	\$2640

Based on average annual dollars per CPM usage of \$4.00; fume lood operating 24 hours a day and 5 days per week (6240 hours per year).

Catalog Number	No minal Width	Electrical Requirements	Exterior Depth	Interior Working Depth	Fluorescent Lamps	Service Fixtures	Electrical Duplex	Exhaust Collar(s)	Shipping Wt. Ihs./kg
9840400	4 feet	115 volts, 60 Hz	39.20°	27.3	(2) 25 watt	None	None	12,81° ID	400/181
9840401	4 feet	115 volts, 60 Hz	39.20*	27.3*	(2) 25 watt	2	1	12.81 ID	400/181
9840402**	4 feet	230 volts, 50 Hz	39.20*	27.3	(2) 25 watt.	None	None	12.81 ID	400/181
9840403**	4 feet	230 volts, 50 Hz	39.20	27.3*	(2) 25 watt	2	None	12.81 ID	400/181
9840500	5 feet	115 volts, 60 Hz	39.20	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840501	5 feet	115 volts, 60 Hz	39.20*	27.8*	(2) 32 watt	2	1	12,81° ID	460/209
9840502**	5 feet	230 volts, 50 Hz	39.20	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840503**	5 feet	230 volts, 50 Hz	39.20*	27.3"	(2) 32 watt	2	None	12,81° ID	460/209
9840600	6 feet	115 volts, 60 Hz	39.20*	27.3*	(2) 32 watt.	None	None	12.81° ID	520/236
9840601	6 feet	115 volts, 60 Hz	39.20	27.8°	(2) 32 watt	2	1	12.81 ID	520/236
9840602**	6 feet	230 volts, 50 Hz	39.20*	27.3°	(2) 32 watt.	None	None	12.81° ID	520/236
9840603**	6 feet	230 volts, 50 Hz	39.20	27.8	(2) 32 watt	2	None	12.81 ID	520/236
9840800	8 feet	115 volts, 60 Hz	39.20*	27.3"	(4) 25 watt	None	None	(2) 12.81° ID	700/318
9840801	8 feet.	115 volts, 60 Hz	39,20*	27.3"	(4) 25 watt	2	1	(2) 12.81° ID	
9840802**	8 feet	230 volts, 50 Hz	39.20*	27.3"	(4) 25 watt	None	None	(2) 12.81° ID	700/318
9840803**	8 feet	230 volts, 50 Hz	39.20°	27.3*	(4) 25 watt	2	Mone	(2) 12.81 ID	200

™international electrical configuration

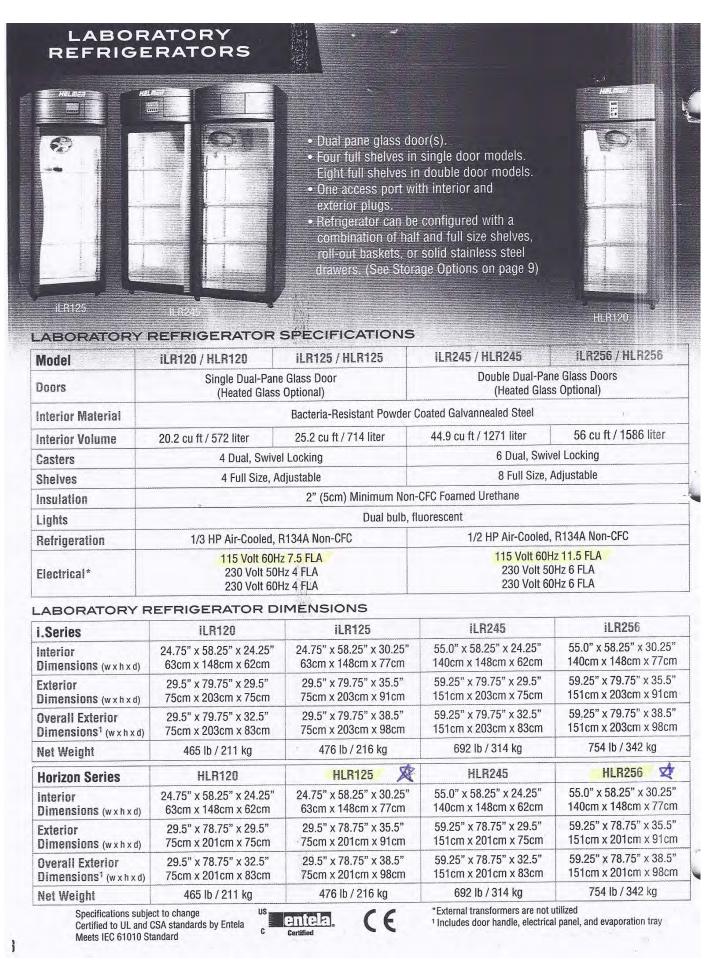


Oven Cut Sheet EQ-1103 Histology/Cytology Lab

Pending

Undercounter Ref. Cut Sheet EQ-1105 Histology/Cytology Lab

Pending



Refrigerator Cut Sheet EQ-1106; HLR 125 Histology/Cytology Lab- Model 125

LABORATORY DESIGN SKETCHBOOK

FREEZERS LABORATORY - HORIZON SERIES MODEL HLF125

SPECIFICATIONS

Temperature Range	-15°C to -30°C			
Interior Dimensions (w x h x d)	24.75" x 58.25" x 30.25"			
Exterior Dimensions (w x h x d)	29.5" x 80" x 35.5"			
Overall Exterior Dimensions (w x h x d) Includes door handle, electrical panel, and evaporation tray	30.75" x 80" x 38.5"			
Interior Volume	25.2 cu ft / 714 liters			
Door	Solid galvannealed steel with bacteria resistant powder coating			
Interior Configuration	4 Epoxy Coated Wire Shelves			
Electrical	208 / 230V 60Hz 6 FLA NEMA 6-15 Plug			
Net Weight	475 lb			
Clearance Requirements	Minimum of 8" above and 3" behind freezer for ventilation			
Certified to applicable UL and CSA sta	andards by a NRTL			

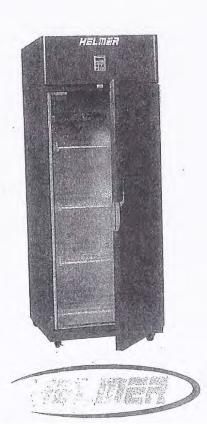
FEATURES

- Microprocessor-based temperature controller with:
- Programmable operating temperature
- Programmable high temperature alarm with visual and audible indicators
- LED display of chamber temperature
- Bacteria-resistant powder coated interior and exterior
- Dual, swivel locking casters
- Key lock

WARRANTY

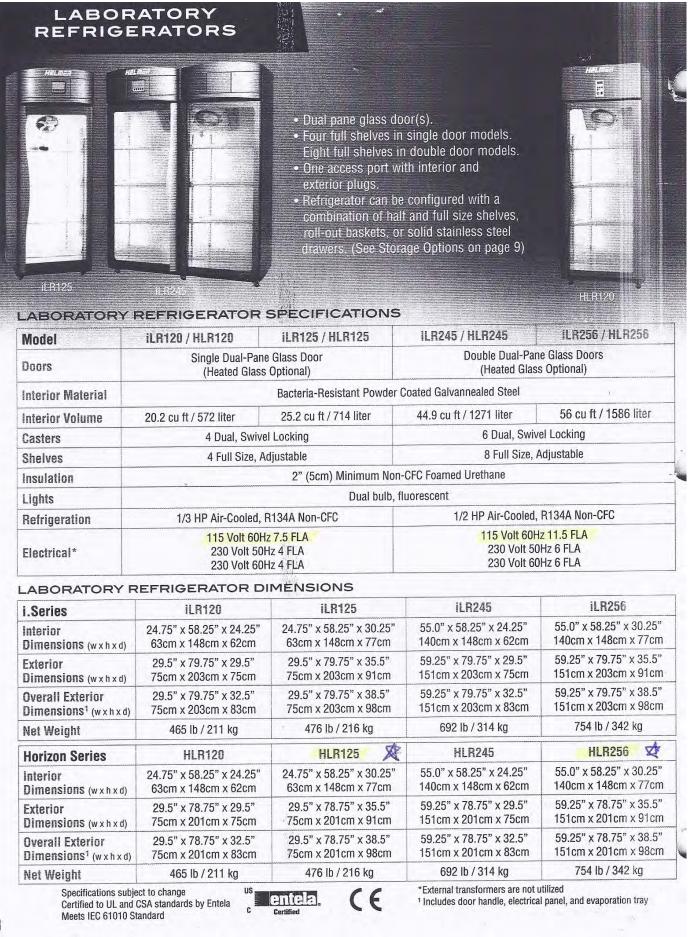
- 3 Years Compressor
- 2 Years Parts
- 1 Year Labor

FOOTPRINT 30.75" (79cm) 29.5" | (75cm) Overall Depth with door open 69.5" (177cm) HLF125 Top View Overall Depth with door closed swing-out 31" (79cm) HLF125 Front View



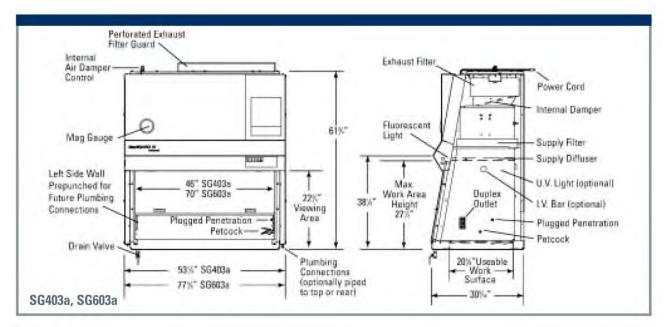


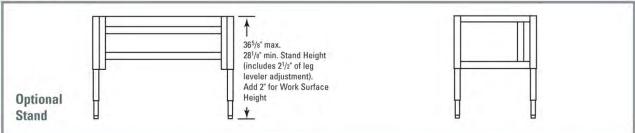
Freezer Cut Sheet EQ-1107 Histology/Cytology Lab



Refrigerator Cut Sheet EQ-1108; HLR 256 Double wide Histology/Cytology Lab

 $L \ \mathtt{A} \ \mathtt{B} \ \mathtt{O} \ \mathtt{R} \ \mathtt{A} \ \mathtt{T} \ \mathtt{O} \ \mathtt{R} \ \mathtt{Y} \quad D \ \mathtt{E} \ \mathtt{S} \ \mathtt{I} \ \mathtt{G} \ \mathtt{N} \quad S \ \mathtt{K} \ \mathtt{E} \ \mathtt{T} \ \mathtt{C} \ \mathtt{H} \ \mathtt{B} \ \mathtt{O} \ \mathtt{O} \ \mathtt{K}$





SterilGARD®III Advance®

Model Number: SG403a, 4' SG603a, 6'

NSF Classification: Class II, Type A2 Cabinet Type: Bench (Stand Optional)

Site Preparation

Electrical System

- II5V-I Phase, 60 Hz.
- One 16' power cord with 20-amp plug, NEMA 5-20P.

- Unit is UL Listed as certified for electrical, fire and personal safety.
- Two ground-fault interrupt protected interior duplex receptacles at 5.0 (SG403a), 4.0 (SG603a) total amps, controlled by a self-resetting circuit breaker.

Exhaust Requirement* SG403a

• For an 8" opening: 269 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

• For a IO" opening: 335 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

SG603a

- For an 8" opening: 408 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.
- For a 10" opening: 510 CFM at .02" to .04" water column suction directly above the exhaust filter before any reductions, elbows or restrictions.

		Amperage Char	t	
Model	Blower Motor	Lighting Ballast	Duplex Receptacle	Total
SG403a	1625 RPM, 6.6 amps	0.8 amps	5.0 amps	12.4 amps
SG603a	1625 RPM, 9.9 amps	0.8 amps	4.0 amps	14.7 amps

*The above exhausting requirements are basic, should the user wish to build their own connections. HEC and CEC are as noted in the chart on page 11.

Page 10

800.992.2537

www.bakerco.com

Biological Safety Cabinet Cut Sheet

EQ-1109
Histology/Cytology Lab
Class II, Type A2, no external exhaust

Specifications

Power Required:

North America

Model Number: 4929 115 VAC ±10%, 5.0 amps,

60 Hz

Europe

Model Number: 4930 220/240 VAC ±10%, 0.3 amps,

50/60 Hz

4931 220/240 VAC ±10%, 2.5 amps,

50/60 Hz (with dryer)

Dimensions:

Width- 115.0 cm (45 in.) Height- 66.0 cm (26 in.) Depth- 49.0 cm (19 in.)

Weight:

101 kgs (223 lbs)

Operating Conditions:

Temperature – 10° C to 40° C (50° F to 104° F) Relative Humidity – 30% to 85% (noncondensing) Atmospheric Pressure – 70 to 106 KPa (10.15 to 15.37 psi)

Capacity/Fill Volumes:

Solution Reservoirs (total) – (26) Wash Reservoirs – (5) Dryer Stations – (1) Fill level/solution reservoirs – 620 - 650 mL

Batch Operation:

Up to 40 glass slides in two baskets (2 baskets = 1 basket set)

Continuous Operation:

Basket sets can be continually loaded on demand as the start station(s) are available for loading.

Programs/Methods:

Up to 20 programs can be stored in memory Up to 50 steps can be programmed for each method

Solution Names:

Up to 100 solution names can be stored in memory

Staining Method Names:

Up to 50 staining method names can be stored in memory

Facilities:

Water Supply: Tap water Water Pressure:

Dynamic Pressure: 0.098 to 0.441 MPa (approx 1.0 to 4.5 kgf/ cm²) Max. Static Pressure: 0.833 MPa (8.5 kgf/ cm²)

Water Temperature:

Less than 30°C (86° F) [not freezing]

Drain Type:

Method – Gravity drain Capacity – More than 15 liters (3.96 gal)/minute

Safety Standards:

Complies with: UL 3101-1, 1st ed.

CAN/CSA-C22.2 No. 1010.1-92 EN 61010-1:93- A1:92 + A2:95 European standards for CE Marking.

Stainer Cut Sheet EQ-1110 Histology/Cytology Lab

BenchMark XT Operator Manual

2.0 BENCHMARK XT COMPONENTS

BenchMark XT is a modular system, meaning that it has several subassemblies, each with a specific task. These subassemblies are identified and described in this section.

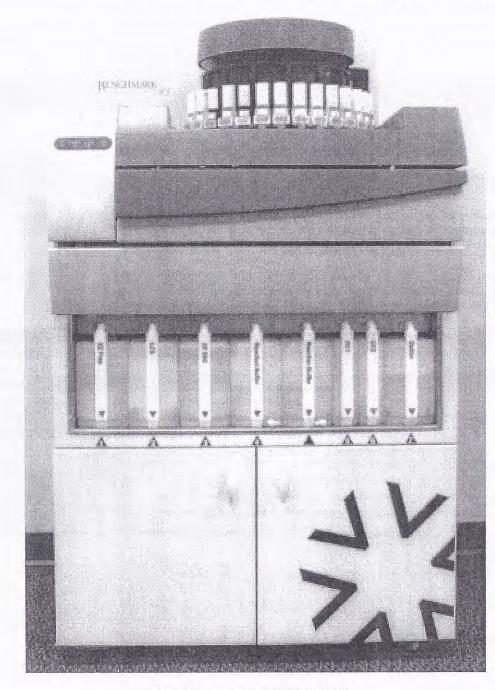


Figure 5. BenchMark XT

Benchmark XT Cut Sheet EQ-1114 Histology/Cytology Lab

BenchMark XT Operator Manual

13.0 SPECIFICATIONS AND SETUP

Physical Characteristics:	Stainer Assembly									
Size (W x D x H):	35" x 26" x 60.25"									
	(88.9 x 66.0 x 153.0 cr	m)								
Weight	385 lbs (175 kg)	,								
Clearances	Top 15" (38.1 cm)									
	Sides 4" (10.2cm)									
	Rear 6" (15.2 cm)									
Electrical Characteristics:	U.S. (SM 750-700)	Japan (SM 750-700)	Europe (SM 750-700)							
Voltage	120 VAC ±10%	100 VAC ±10%	230 VAC ±10%							
Current	6 Amps	6 Amps	4 Amps							
Frequency	60 Hz.	50/60 Hz.	50 Hz.							
Power Connection	Cord suited to country.	For U.S., standard 3-prong	grounded.							
Environmental Requi	rements:									
Heat Output	,									
Room Temperature	20° C to 32° C (68° F to 90° F) {Note: The instrument may be unable to									
	maintain proper reaction temperature if laboratory ambient temperature									
in the same	exceeds the specified t									
Humidity	10% to 90%, non-condensing									
Location	Flat, level surface. No direct sunlight or drafts. Remove from sources of									
	direct heat and moisture. Maximum altitude 6000' (1828m) above sea level.									
	For indoor use only. Do not position the instrument so that it is difficult to remove the main plug from the power outlet.									
Temperature Control:		Tom the power outlet.								
ThermoPad	37° C to 100° C ± 2.0°	C								
Temperature Range	07 0 10 100 0 1 2.0	0								
General Characteristi	cs:									
Capability	IHC and ISH slide proc	essina								
Slide Tray		ndent temperature control f	or each position							
Reagent Carousel	35 reagent positions		er each poolion.							
Slides		es or 26 x 76 mm Superfros	st Plus							
Modularity		tems may be controlled fror								
Water Quality		r equivalent (referred to as								
Bulk Reagents		ulk reagents in 3- to 6-liter of								
Configurations		aste subassembly with 20-li								



THINPREP PROCESSOR SPECIFICATIONS

	ThinPrep Processor	Waste Bottle	
Dimensions	W = 18" / 46 cm H = 19.5" / 50 cm D = 15" / 38 cm	W = 6" / 15 cm H = 17" / 43 cm D = 6" / 15 cm	
Weight	41 lbs (approx.)		
Clearance	Front = 0" / 0cm Rear = 3" / 8cm Side(ea) = 3" / 8cm Top = 3" / 8cm	Front = 1" / 3cm Rear = 1" / 3cm Side(ea) = 1" / 3cm Top = 0" / 0cm	
Operating Temperature	15 – 32°C 59 – 90°F		
Operating Humidity	20% – 90% RH non-condensing		
Electrical Voltage	100/120 VAC at 2 amp 220/240 VAC at 1 amp		
Frequency Power	47– 63 Hz Maximum 200 watts		

Thin Prep 2000 Cut Sheet EQ-1115
Histology/Cytology Lab

Undercounter Freezer Cut Sheet EQ-1116 Histology/Cytology Lab

Pending

SPECIFICATIONS	EMBEDDING MODULE	CRYO MODULE 10° – 40° C 30% – 85% RH (noncondensing)			
Ambient Operating Temperature and Relative Humidity Range	10° – 40° C 30% – 85% RH, (noncondensing)				
Dimensions/Weight	Width 57.5 cm (22.6 in) Depth 64.2 cm (25.3 in) Height 37.7 cm (14.8 in) Weight approx. 26 kgs (57 lbs)	Width 33.0 cm (13.0 in) Depth 61.7 cm (24.3 in) Height 37.7 cm (14.8 in) Weight approx. 22 kgs (48 lbs)			
Power Required	Model No. 5238: 100 VAC ±10% or less, @ 9.0 amps 50/60 Hz Model Nos. 5100, 5235: 115 VAC ±10% or less, @ 9.0 amps 60 Hz Model Nos. 5229, 5232: 220 – 240 VAC ±10% or less, @ 9.0 amps 50 Hz	100 VAC ±10% or less, @ 2.0 amps 50/60 Hz 115 VAC ±10% or less, @ 2.0 amps 60 Hz 220 – 240 VAC ±10% or less, @ 2.0 amps 50 Hz			
Chamber Capacity	Paraffin Chamber: approx. 4 liters Left and Right Chambers: approx. 1.5 liters	(no chambers)			
Temperature Range Available	Paraffin Chamber, Right and Left Chambers, Hot Plate: 50°C – 75°C Electric Forceps(optional):1 to 5	Cooling Plate: -10°C to 0°C			
Factory Set Temperature	Paraffin Chamber, Left and Right Chambers, Hot Plate: 62°C Cold Spot: approx. 15°C at 25°C room temp. and 40% R.H. Electric Forceps(optional): 3	Cooling Plate: -5°C			
Circuit Breaker/ON-OFF Switch	15 amps				
Memory Backup	Long-life battery				
Safety Standards	Tested and listed by Intertor Complies with: UL 310 CAN/CSA-C22.2 No. 10	1-1, 1st ed., IEC 1010-1 and			

CLINICAL LABORATORY RENOVATION • VA HOSPITAL LONG BEACH • GKKWORKS • DESIGN FOR SCIENCE • 2012 JAN 02 • PAGE 152

Tissue Tek TEC5 Cut Sheet EQ-1117 Histology/Cytology Lab

Specifications

Power Supply Requirements

Model 6400 & 6409 Rated Voltage and Current: AC 115V \pm 10%, (50/60Hz), 1.7 Amps Grounding System: Class D or higher in rating

Model 6410 Rated Voltage and Current: AC 220/230/240V \pm 10%, (50/60Hz), 0.85 Amps

Circuit Breaker Rating

Model 6400: 5.0 Amps

Safety Standards

Tested and listed by Intertek Testing Services (ITS) Complies with: (UL-61010-A), CSA 22-2, No. 1010.1-92

Dimensions

Centimeters: 51(W) x 63(D) x 64(H) Inches: 20(W) x 25(D) x 25(H)

Instrument Weight

69 kg (152 lbs)

Operating Conditions

Operational Temperature: 10°C to 40°C (50°F to 104°F) Relative Humidity: 30-85% (non-condensing) Atmospheric Pressure: 80kPa – 106kPa Protect from direct sunlight

Processing Speed

Maximum throughput: 400 slides/hour 60 slides/batch

Acceptable Dimensions for Slides

Dimensions: $25 \text{ mm (W)} \times 75 \text{ mm (L)}$ (1 x 3 inches) Thickness: 0.95 - 1.05 mm

Acceptable Dimensions for Coverglass

Dimensions: 24 x 40, 24 x 50, 24 x 55, 24 x 60 Thickness: 0.13 – 0.17 mm

Compatible Solvent

Xylene
D-Limonene-based substitutes
Aliphatic-Hydrocarbon-based substitutes

Compatible Mounting Medium

Xylene-based mounting medium
D-Limonene-based mounting medium
Aliphatic-Hydrocarbon-based mounting medium

CAUTION: Do not use toluene or toluene-based chemicals, as these chemicals will damage the instrument.

Tissue Tek Glas Cut Sheet EQ-1118 Histology/Cytology Lab

Contractor Furnished Equipment:

1. EQ-1201: Grossing Station #1

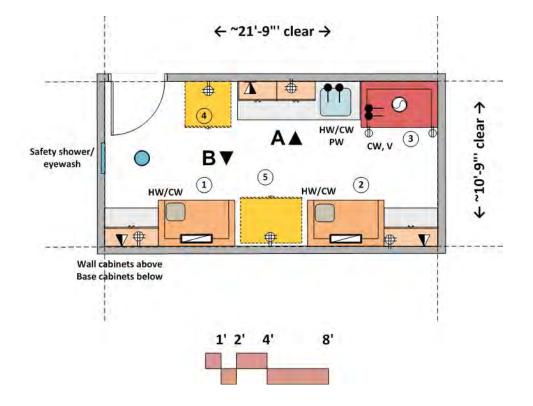
2. EQ-1201: Grossing Station #2

3. EQ-1203: Chemical Fume Hood

Owner Furnished Equipment:

4. EQ-1204: Refrigerator

5. EQ-1205: Camera



Gross Pathology Lab

Room #P241

238 nsf

ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' mylar acoustic tile Doors: 3⁶x8⁰ with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust 6 air changes per hour Heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)

Data

Dedicated circuits at floor equipment spaces Lighting: indirect fluorescent @ 60 f.c.

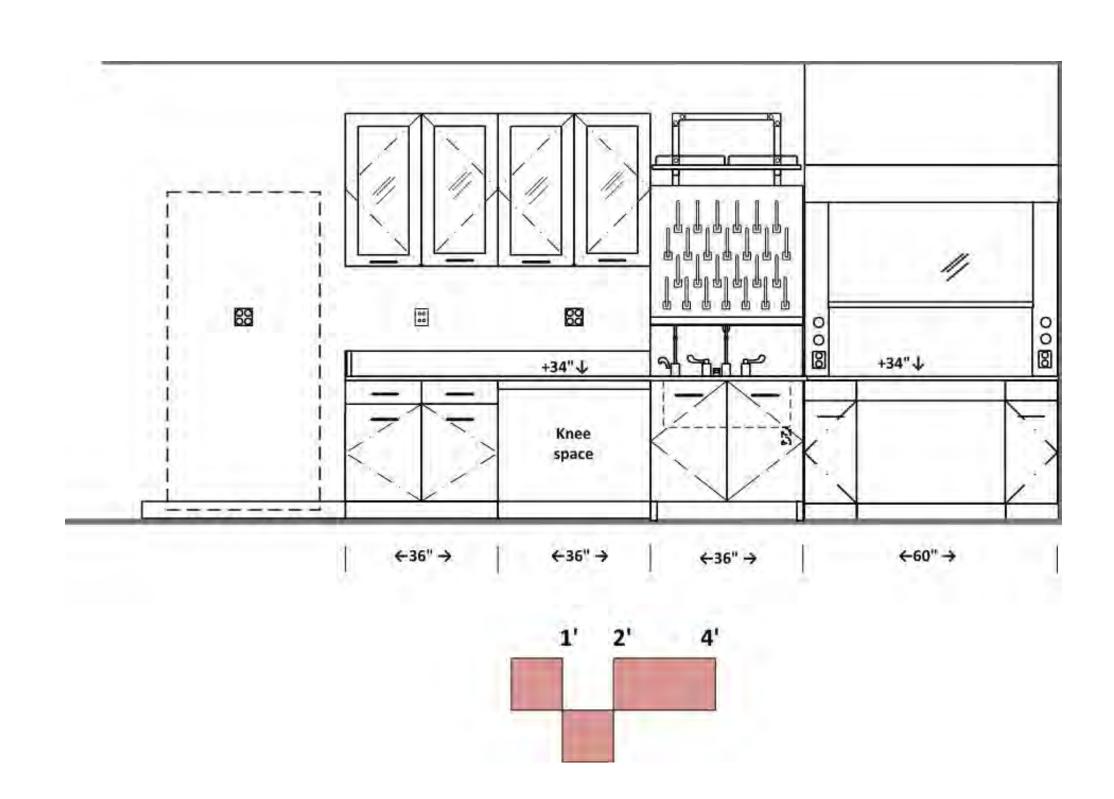
PLUMBING

Hot/Cold water (HW/CW) at sinks pure water at sinks Hot/Cold water (HW/CW) at grossing stations

CONTRACTOR FURNISHED CASEWORK

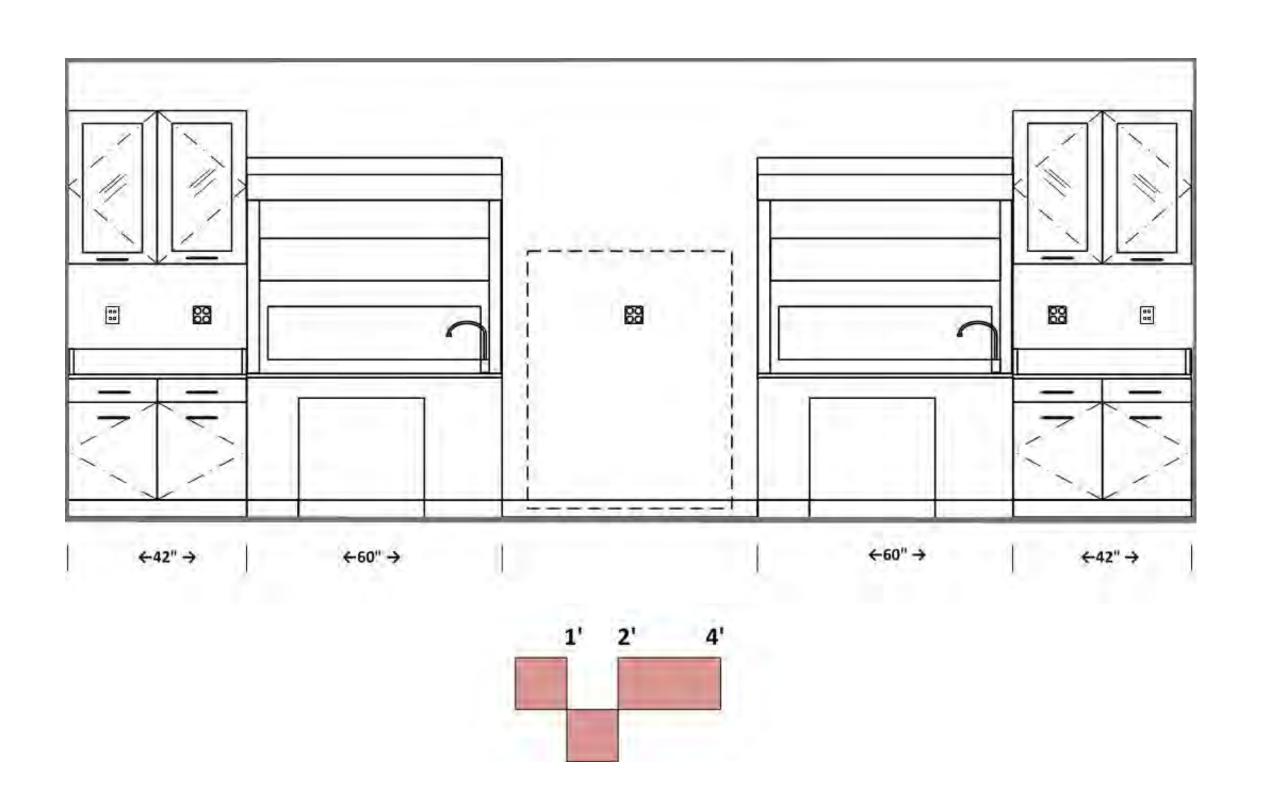
metal casework phenolic resin tops epoxy resin sinks Faucets

Gross Pathology Lab Room #P241 Elevation A



Gross Pathology Lab Room #P241

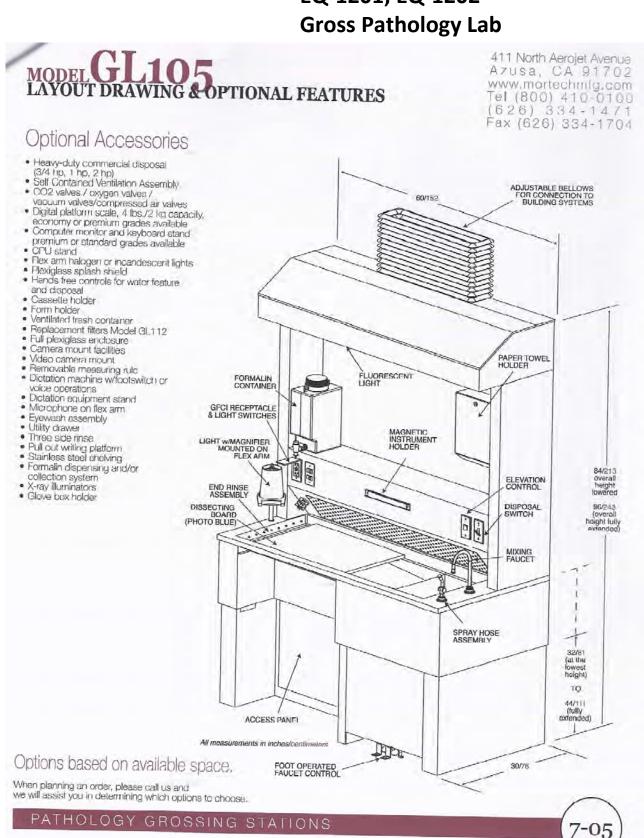
Elevation B



Equipment Schedule

Room/Area:	Gross Patholog	gy- Room #P	241										
Equipment Number	Name/Model/ Manufacturer	Existing Room Number	Width	Depth	Height	Weight	Floor (F) Benchtop (B) Wall (W)	Electrical	Plumbing	Mechanical	Structural Detail	Remarks	Responsibility
TVUITIBET	ivianulacturei	Ivamber	Width	Бери	Height		•	nished Equipme		Wicchanical	Detail	Remarks	пезропзівшту
EQ-1201	Grossing Station #1	New	60"	30"	84"	~400 lbs.	F	115v20a1ph prewired emer power	Hot/Cold Water Drain Vacuum preplumbed	600 c.f.m. exh. VAV			Contractor Furnished Contractor Installed
EQ-1202	Grossing Station #2	New	60"	30"	84"	~400 lbs.	F	115v20a1ph prewired emer power	Hot/Cold Water Drain Vacuum preplumbed	600 c.f.m. exh. VAV			Contractor Furnished Contractor Installed
EQ-1203	Chemical Fume Hood	New	60"	39.2"	96"	460 lbs.	F	115v20a1ph prewired emer power	Cold Water Drain Vacuum Air- 30 psi preplumbed	600 c.f.m. exh. VAV		flammable and corrosive cabinets below	Contractor Furnished Contractor Installed
						0	wner Furni	 shed Equipment	:				
EQ-1204	Refrigerator Helmer #125	E-241A	29.5"	32.5"	79.75"	510 lb.	F	115v20a1ph standby power					Owner Furnished Owner Installed
EQ-1204	Camera		~48"	~30"	~60"	~200 lb.	F	115v20a1ph standby power					Owner Furnished Owner Installed

Grossing Station Cut Sheet EQ-1201; EQ-1202





Protector XStream Laboratory Hoods



Protector XStream Laboratory Hood 9840600 is shown with SpallStopper Work Surface 9849800, Protector Acid Storage Cabinet 9901100 and Protector Standard Storage Cabinet 9900100, Blower, ductwork, work surface and base cabinets must be ordered separately.

All models feature:

- + Modified by-pass airflow design.
- Ergonomic air foil with aerodynamic Clean-Sweep*airflow openings.
- Upper Dilution Air Supply.*
- Glacier white, dry powder epoxy-coated steel exterior.
- Chemical-resistant, fiberglass-reinforced, composite panel liner and pre-set Rear Downflow Dual Baffle System* with flame spread less than 25 per ASTM E-84
- 3/16" thick tempered safety glass vertical-rising sash with epoxy-coated aluminum sash handle with large radius and perforations.*

- Removable front and side panels and front and interior service access panels for access to plumbing and electrical wiring.
- Pre-wired T8 fluorescent lighting, ADAcompliant light and blower switches for 115 volt, 60 Hz operation.
- Sashstop located at 18' sash opening position
- Epoxy-coated stainless steel, 12.81° ID exhaust connection(s).

Contact Laborn to at 800-821-5525 or 816-333-8811 for ordering information on explosion-proof lighting and other sash configurations and for blower sizing assistance. All models conform to the following regulations and standards:

- · SEFA 1-2002
- · NFPA 45-2000
- + ASTME84-01
- ASHRAE 110-95
- · ANSI Z9.5-1993
- + UL3101-1/61010-1
- + CAN/CSA C22.2 No. 1010.1
- · UL 1805
- CE Conformity Marking (230 volt models)†

Fixtured models feature:

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water. Components for converting either or both fixtures to air and vacuum are provided. Inlet tubing is not provided.
- One pre-wired 115 volt, 20 amp electrical duplex receptable on lower right side.

All models require (not included):

- + Remote Blower. See back pocket.
- · Ductwork. See back pocket.
- Work Surface. See pages 92-95.
- Base Cabinet or Stand.
 See pages 96-106.

Optional accessories for on-site installation include:

- · Service Fixture Kits. See page 107.
- + Electrical Duplex Kits. See page 108.
- Guardian Jr. and Digital Airflow Monitor Kits. See page 108.
- · Distillation Grid Kits. See page 110.
- · Sash Stop Kits. See page 108.
- Snuffer Fire Extinguishers.
 See page 110.
- Ceiling Enclosure and Rear Finish Panel Kits. See page 109.

* U.S. Patent No. 6,461,233 † pending

& Seights of switches, electrical receptable and service factures meet requirements of ADA.

Coducia Carina

Fume Hood Cut Sheet EQ-1203 Gross Pathology Lab

Ordering Information Protectors XStream Laboratory Hoods

ASHRAE 110-95 tests showless than 0.05 ppm leak rate when tested at 4.0 pm; at OSHA-approved 60, 80, and 100 fpm face velocity and sash positions of 18° and 28°. To ensure performance at 60 fpm, Labconco engineers challenged the Protector XStream Hood at less

than ideal conditions such as 30 fpm cross drafts, modified ASHRAE test procedures and average face velocities lower than 60 fpm.

Contact Laboonco for a technical paper with complete ASHRAE

Total Extraust CFM and Static Pressure @ 18" Sash Opening (60% open)

No minal Width	100 fpm s.p. 80 fpm s.p. 60 fp				60 fpm	sp	CFM Savings at 60 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm	
4 feet	470	0.11	380	0.07	280	0.04	190	\$760	
5 feet.	610	0.13	490	0.03	370	0.05	240	\$960	
6 feet. 8 feet.	750 1060	0.15	600 850	0.10*	450 640	0.06° 0.04°	900 420	\$1200 \$1680	

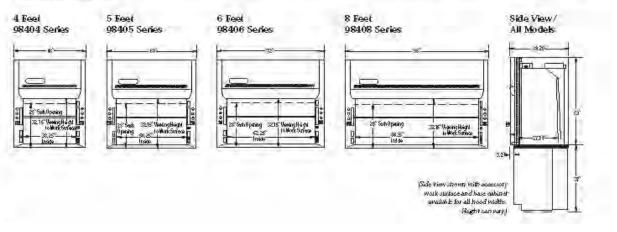
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% open)

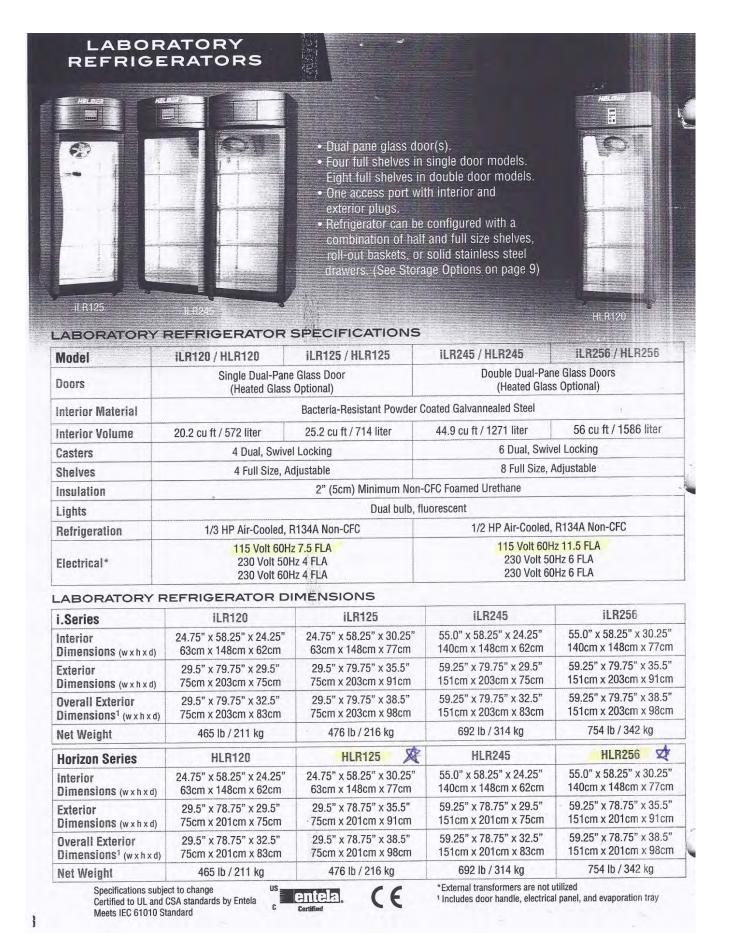
Nominal Width	100 fpm	s.p.	80 fpm	s.p.	60 fpm	s.p.	CFM Savings at 66 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 80 fpm vs. 100 fpm*
4 feet	730	0.25	590	0.13°	440.	0.081	290	\$1160
5 feet	980	0.30	770	0.19	580	0.11	380	\$1 520
6 feet	1180	0.36	940	0.23	710	0.13*	470	\$1.880
8 feet	1660	0.28	1330	0.18	1000	0.10*	660	\$2640

Based on average annual dollars per CPM usage of \$4.00; hume bood operating 24 hours a day and 5 days per week (6240 hours per year)

Catalog Number	No minal Width	Electrical Requirements	Exterior Depth	Interior Working Depth	Fluorescent Lamps	Service Fixtures	Electrical Duplex	Exhaust Collar(s)	Shipping Wt. Ihs./kg
9840400	4 feet	115 volts, 60 Hz	39.20	27.3	(2) 25 watt.	None	None	12.81° ID	400/181
9840401	4 feet	115 volts, 60 Hz	39.20°	27.3*	(2) 25 watt	2	1	12.81 ID	400/181
9840402**	4 feet	230 volts, 50 Hz	39:20*	27.3	(2) 25 watt.	None	None	12.81° ID	400/181
9840403**	4 feet	230 volts, 50 Hz	39.20*	27.3*	(2) 25 watt	2	None	12.81 ID	400/181
9840500	5 feet	115 volts, 60 Hz	39.20	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840501	5 feet	115 volts, 60 Hz	39.20*	27.8*	(2) 32 Watt	2	1	12,81° ID	460/209
9840502**	5 feet	230 volts, 50 Hz	39.20	27.3*	(2) 32 watt	None	None	12.81° ID	460/209
9840503**	5 feet	230 volts, 50 Hz	39.20*	27.3*	(2) 32 watt	2	None	12,81° ID	460/209
9840600	6 feet	115 volts, 60 Hz	39.20*	27.3*	(2) 32 watt.	None	None	12.81° ID	520/236
9840601	6 feet	115 volts, 60 Hz	39.20°	27.8°	(2) 32 watt.	2	1	12.81 ID	520/236
9840602**	6 feet	230 volts, 50 Hz	39.20*	27.3°	(2) 32 watt.	None	None	12.81° ID	520/236
9840603**	6 feet	230 volts, 50 Hz	39.20	27.9"	(2) 32 watt	2	None	12.81 ID	520/236
9840800	8 feet	115 volts, 60 Hz	39.20*	27.3"	(4) 25 watt	None	None	(2) 12.81° ID	700/318
9840801	8 feet	115 volts, 60 Hz	39.20*	27.3	(4) 25 watt	2	1	(2) 12.81° ID	700/318
9840802**	8 feet	230 volts, 50 Hz	39.20*	27.3"	(4) 25 watt	None	None	(2) 12.81° ID	700/318
9840803**	8 feet	230 volts, 50 Hz	39.20*	27.3*	(4) 25 watt	2	Mone	(2) 12.81° ID	700/318

^{**}International electrical configuration

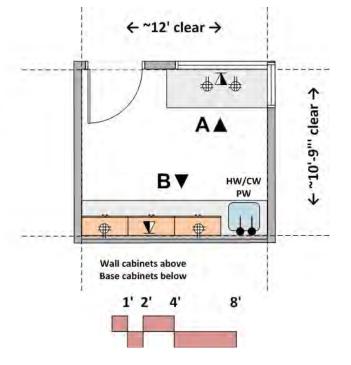




Refrigerator Cut Sheet EQ-1204; HLR125 Gross Pathology Lab

Contractor Furnished Equipment: None

Owner Furnished Equipment: None identified to date



Receiving

Room #W-2310

129 nsf

ARCHITECTURAL

Occupancy: B

Floor: sheet rubber

Walls: gypsum board and enamel paint

Ceiling: 9' mylar acoustic tile Doors: 3⁶x8⁰ with view window Acoustic Attenuation: NC 40 or less

MECHANICAL

Temperature: 72 deg. F, +/- 2 deg. F

100% exhaust 6 air changes per hour Heat gain: 25 btuh/sf

ELECTRICAL

110v fourplex outlets (maximum of (2) fourplex per circuit)

Data

Lighting: indirect fluorescent @ 60 f.c.

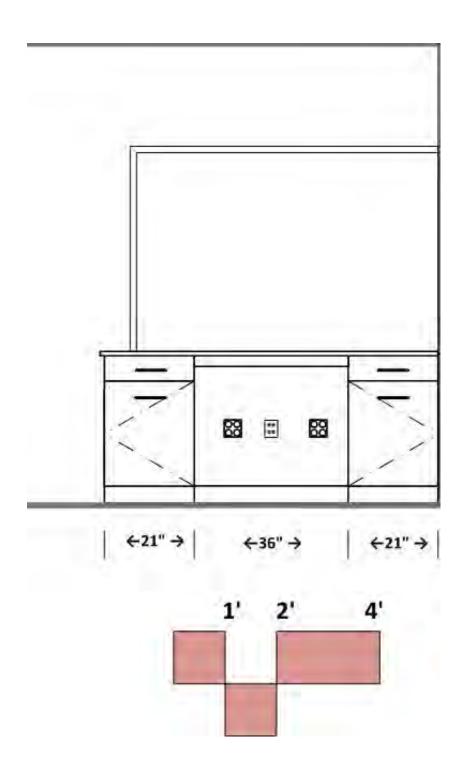
PLUMBING

Hot/Cold water (HW/CW) at sinks pure water at sinks Hot/Cold water (HW/CW) at grossing stations

CONTRACTOR FURNISHED CASEWORK

metal casework phenolic resin tops epoxy resin sinks Faucets

Receiving Room #W-2310 Elevation A



Receiving Room #W-2310 Elevation B

