
i **Note:** Power and data connections are made to frames at the back right of the computer. The 1-, 2-, and 3-cell computers are 51-55" (129.54 - 139.7 cm) from the floor. Half-cell, OmniRx, and Anesthesia Workstation computers are 44-50" (111.76 - 127 cm) from the floor. The OmniRx TT computer in its frame is 15" (38.1 cm) from the surface the TT sits on. Omnicell power cords are 15 feet (4.57 m) long.

The hospital should have its own emergency power source. Omnicell recommends that emergency power be provided to each unit with connections to red plugs.

Cabinets come with internal uninterruptible power supply (UPS) units. Omnicell can also provide external UPS units. See the “UPS Protection” section.

UPS Protection

In order to prevent power problems from damaging the computer, cabinets have a built-in UPS with surge-suppression circuitry. The UPS can provide the computer with up to 20 minutes of power when voltage levels become erratic or fail. The facility is responsible for testing and changing the battery in UPS units.

i **Note:** The battery in UPS unit must be connected during installation because Omnicell is required to disconnect battery cables prior to shipping. When connecting an OmniCenter server to an external UPS, do not plug the printer or computer monitor into the UPS unit.

Parameter	Specification
Voltage range	100-240VAC
Frequency	50-60Hz
Average current	1 A
Peak current	5A – 2.5A
Fuse	4A/250V slow blow
Surge ratings: Nominal surge current	2500A (8/20µs Impulse)
Max surge voltage	2kV (1.2/50µs Impulse)
Battery recharge rate	2 – 4 (hours)
Battery back-up Time (typical): half load	40 minutes
full load	20 minutes
Full time EMI/RF filtering	Yes
Energy rating	320 joules

Table 2-1. Internal UPS Specifications

Communication Requirements

Network Requirements



Note: Omnicell's equipment resides on a facility's network which determine the overall network performance and security of the system. The equipment should be set up behind the facility's firewall. If possible, the equipment should be in an isolated local area network segment or LANS.

However, Omnicell applications do have their own security features. They also support network connections between the cabinets and OmniCenter.

To ensure that the Omnicell system can interface properly with the facility network, the facility must provide:

- LAN or WAN with 100 Mbps or higher is preferred. 10 Mbps is the minimum requirement.
- 802.11 a/b/g WLAN infrastructure and configuration for units requiring this option (Anesthesia Workstation, OmniSuppliers, OmniRx units, and Rio Mobile Carts).
- Category 5 or higher cabling from the switch to the jack for applicable units.
- One network port for each cabinet and at least one for every OmniCenter or Interface Server (NIC bridging or teaming are options on current server lines).
- One static IP address, subnet mask, and gateway address for each cabinet and at least one for each server.
- DNS or WINS server addresses for name resolution (optional).

Remote Access

Communication Protocols

Omnicell primarily operates over TCP/IP and uses Health Level 7 (HL7) v.2.5 interface standards. Socket, FTP and MSMQ protocols are also used.

Options

- vSuite solution is preferred.
- Virtual private network (VPN) solutions are used only if vSuite is not supported.
- T1 for service internet connection is recommended.
- Telephone line with direct inward dial (DID) is seldom used.

Requirements

- Web access on Port 443
- Port 80 for access to cabinets and OmniCenter web, prefer hardwired
- 128 encryption SSL (only for vDirector if used)
- One line per cabinet (if phone used)
- One to four lines per OmniCenter for remote diagnostics (if phone used)

Environment

General Requirements

The following environment requirements must be met:

- Adequate ventilation: 4" (10.16 cm) clearance around each Omnicell cabinet (from the wall and other cabinets)
- Adequate air flow
- A floor plan showing the location of where each cabinet is placed

Transport/Storage Conditions

The maximum cabinet humidity exposure should not exceed 80% (without condensation). See the recommended cabinet temperature ranges by item type in the table below. It is the customer's responsibility to maintain room temperature at or below 71°F (22° C). Document areas in the cabinet that are +6°F of the ambient temperature and note not to store sensitive medication in those areas.

Cabinet	Degrees Celsius	Degrees Fahrenheit
Medications	20-25°	68-77°
General Supplies (with brief deviations)	15-30°	59-86°

Operating Temperature

The operating temperature for most Omnicell cabinets is 5-35° C.

Heat Dissipation

Table 2-2 contains useful information in determining a site's heating and ventilation setup so that room temperatures can be maintained with the cabinets installed.

Cabinet	Heat Dissipation
1-, 2-, and 3-cell	304-853 BTU/hr
Half-cell, OmniRx, OmniTT, Anesthesia TT	304-443 BTU/hr
Anesthesia Workstation	341-443 BTU/hr
Smart Mobile Cart	819 BTU/hr (max)
Mobile supply cart	304-443 BTU/hr

Table 2-4. HVAC Table Heat Dissipation Advisories


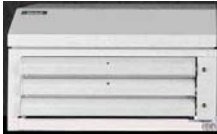


Cabinet	Specifications	Metric
<p>OmniRx TT/Anesthesia TT G4</p> 	<p>Model #: MDA-FRM-006, ANT-FRM-002 (has medical grade electronics)</p> <p>Item capacity: 3 drawers (typically 80-120 medications)</p> <p>W x H x D: 27.5" x 28.0" x 25.4" with bumpers</p> <p>Clearance: 44" depth includes drawer extension</p> <p>Work surface height: 15.7"</p> <p>Screen size: 15" color touch</p> <p>Weight: 133 lbs without drawers</p>	<p>69.85 x 71.12 x 63.75 cm</p> <p>111.76 cm</p> <p>39.88 cm</p> <p>38.1 cm</p> <p>52.16 kg</p>
<p>OmniTT auxiliary G3</p> 	<p>Model #: TTAX</p> <p>Item capacity: 3 drawers (typically 80-120 medications)</p> <p>W x H x D: 27.5" x 25" x 25" with bumpers</p> <p>Clearance: 44" depth includes drawer extension</p> <p>Work surface height: 15.5"</p> <p>Screen size: N/A</p> <p>Weight: 133 lbs without drawers</p>	<p>69.85 x 63.5 x 63.5 cm</p> <p>111.76 cm</p> <p>39.37 cm</p> <p>52.16 kg</p>
<p>Anesthesia Workstation G3 and G3 upgraded</p> <p>G3</p>  <p>G3 Upgraded</p> 	<p>Model #: ANCT (with medical grade electronics)</p> <p>Item capacity: 13 drawers (typically 350-450 items)</p> <p>W x H x D: 38" x 63.5" x 33"</p> <p>Clearance: 46" depth includes drawer extension 60" width for fold-out shelf</p> <p>Work surface height: 46.75"</p> <p>Keyboard height: 51"</p> <p>Screen size: 12" color touch 15" color touch (upgraded G3)</p> <p>Weight: 500 lbs (empty) - configuration may vary weight</p> <p>Accessories:</p> <ul style="list-style-type: none"> Trellis Tape dispenser Gooseneck light Printer Accessory mounting kit iPod compatible speakers Sharps bin Anesthesia supply drawers Power strip <p>Options:</p> <ul style="list-style-type: none"> Waste container Tilt bin organizer IV Pole Chart holder External return bin (ERB) Wireless (802.11 g) Touch and Go/Mag Card reader Fold-out shelf Pharmacy drawers 50 ft. cable for ERB Emergency breakaway panel 	<p>96.52 x 161.29 x 83.82 cm</p> <p>116.84 cm</p> <p>152.4 cm</p> <p>118.75 cm</p> <p>129.54 cm</p> <p>30.48 cm</p> <p>38.1 cm</p> <p>226.8 kg</p> <p>15.24 m</p>

Table 2-10. Cabinet Specifications (6 of 8)



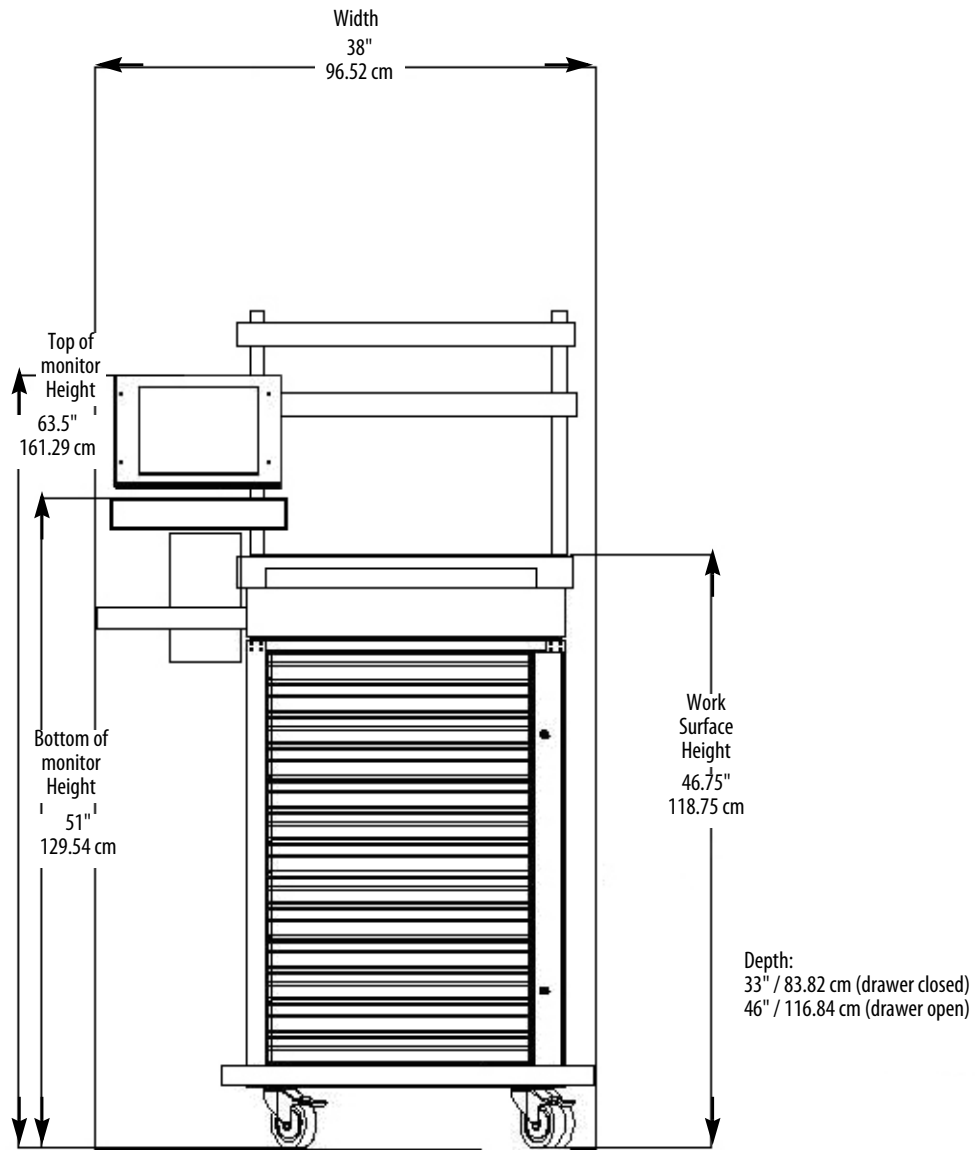
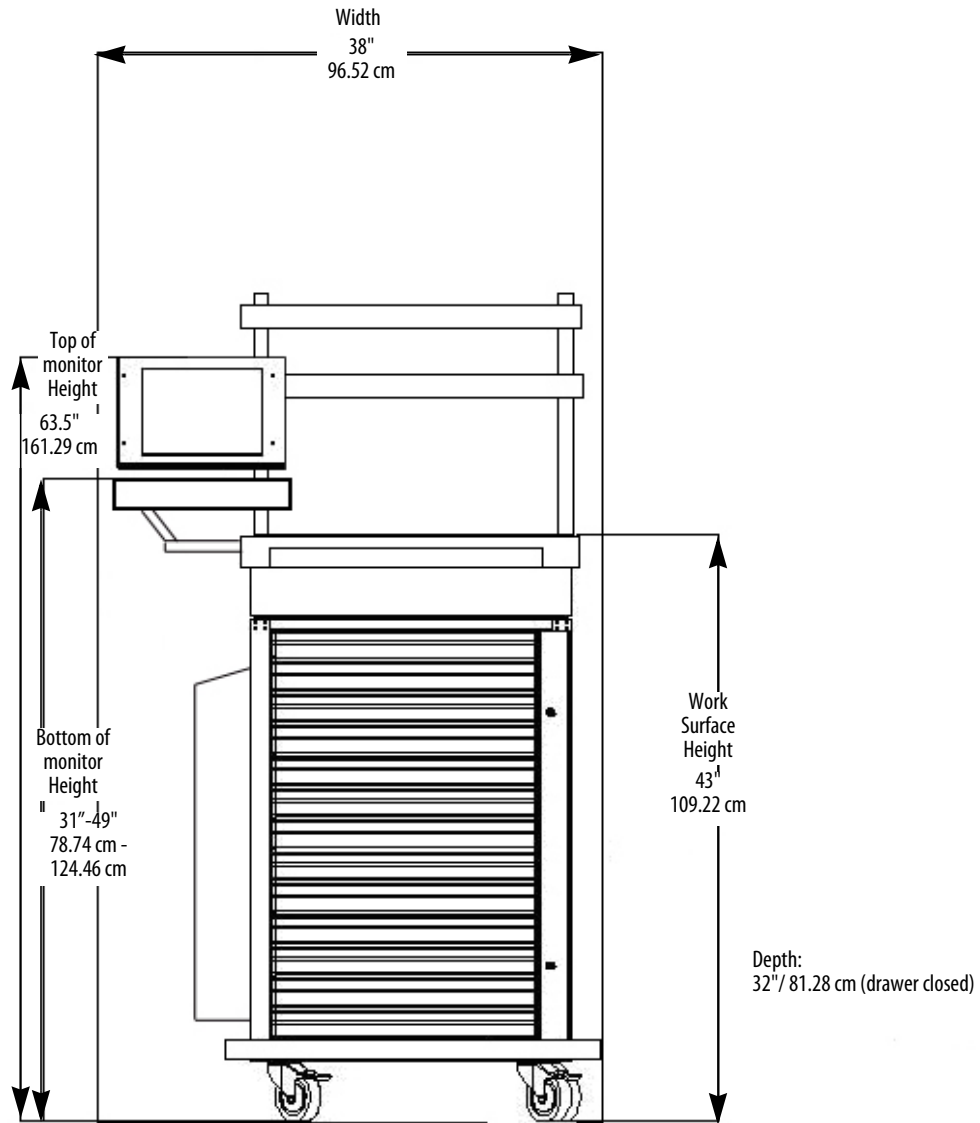
Cabinet	Specifications		Metric
Anesthesia Workstation G4	Model #:	ANT-FRM-001	
	Item capacity:	13 drawers (typically 350-450 items)	
	W x H x D:	W (variable) x 63.5" x 32" W=38" to 62" (depends on user interface arm position)	W (variable) x 161.29 x 81.28 cm W=96.52 cm to 157.48 cm
	With ERB:	Add 8" to width (W)	20.32 cm
	With fold-out shelf:	Add 15" to width (W)	38.1 cm
	With trash or sharps bin	Add 7" to width (W)	17.78 cm
	Clearance:	46" depth includes drawer extension	116.84 cm
	Work surface height:	43"	109.22 cm
	Keyboard height:	Variable: 31" to 49"	78.74 cm to 124.46 cm
	Screen size:	15" color touch	38.1 cm
	Weight:	560 lbs empty; varies by configuration	254.01 kg
Accessories:	Same as for the AWS G3		
Options:	Same as for the AWS G3		
Mobile Cart	Model #:	Rio	
	Item capacity:	Drawers 3" x 6" x 12" deep (item count varies)	7.62 x 15.24 x 30.48 cm
	W x H x D:	25" x 64" x 25" (fully raised)	63.5 x 162.56 x 63.5 cm
	Clearance:	37" depth includes drawer extension	93.98 cm
	Work surface area:	17" x 12"	43.18 x 30.48 cm
	Work surface height:	33-45" (adjustable)	83.82 - 114.3 cm
	Base:	16" x 16"	40.64 x 40.64 cm
	Weight:	110 lbs w/o drawers; 145 lbs with drawers	49.9 kg / 65.77kg

Table 2-10. Cabinet Specifications (7 of 8)

Anesthesia Workstation G3



Anesthesia Workstation G4



OmniCenter/Color Touch

Product List

This chapter contains the following cabinet types that run OmniCenter and Color Touch software:

- One-, two-, three-cell cabinets
- Half cell cabinet
- Mobile supply cart
- OmniRx
- OmniTT, Anesthesia TT
- Anesthesia Workstation

Optional cabinet modules and pharmacy drawer modules are also included.



Note: Auxiliary cabinets are available for one-cell, two-cell, three-cell, half cell, OmniRx, and OmniTT products. Auxiliary cabinets are connected to the main cabinet and do not have their own user interface.

Electrical Requirements

General Requirements

OmniceLL requires the facility to provide electrical service according to Omnicell equipment specifications. The facility is responsible for all electrical and cabling costs.

- One 115V AC outlet for each cabinet control unit and auxiliary unit in North America. For all other countries, consult the local electrical authority.
- All units must be within six feet of an electrical outlet.

Product	Voltage (VAC)	Operating Amperage	Fused Amperage	G4 Fused Amperage
One-, two- three- cell cabinets	85 - 264 AR (auxiliary) 90 - 250 AR (Color Touch)	2 A at 115 VAC - 230 VAC	4 A	6.3 A
Half-cell, OmniRx, Omni TT	90 - 260 AR (Color Touch) 90 - 260 AR (auxiliary)	1.25 A at 115 VAC 0.75 A at 230 VAC	4 A	6.3 A
Mobile supply cart	90 - 260 AR Medical grade	1.25 A at 115 VAC 0.75 A at 230 VAC	4 A	4 A
Anesthesia Workstation, Anesthesia TT	90 - 260 AR Medical grade	1.25 A at 115 VAC 0.75 A at 230 VAC	4 A	6.3 A
Smart Mobile Cart	120VAC / 60Hz (Rio)		5 A maximum	5 A maximum
Savvy Cart	90 - 260 AR	2.5 A at 115 VAC 1.6 A at 230 VAC	n/a	4 A