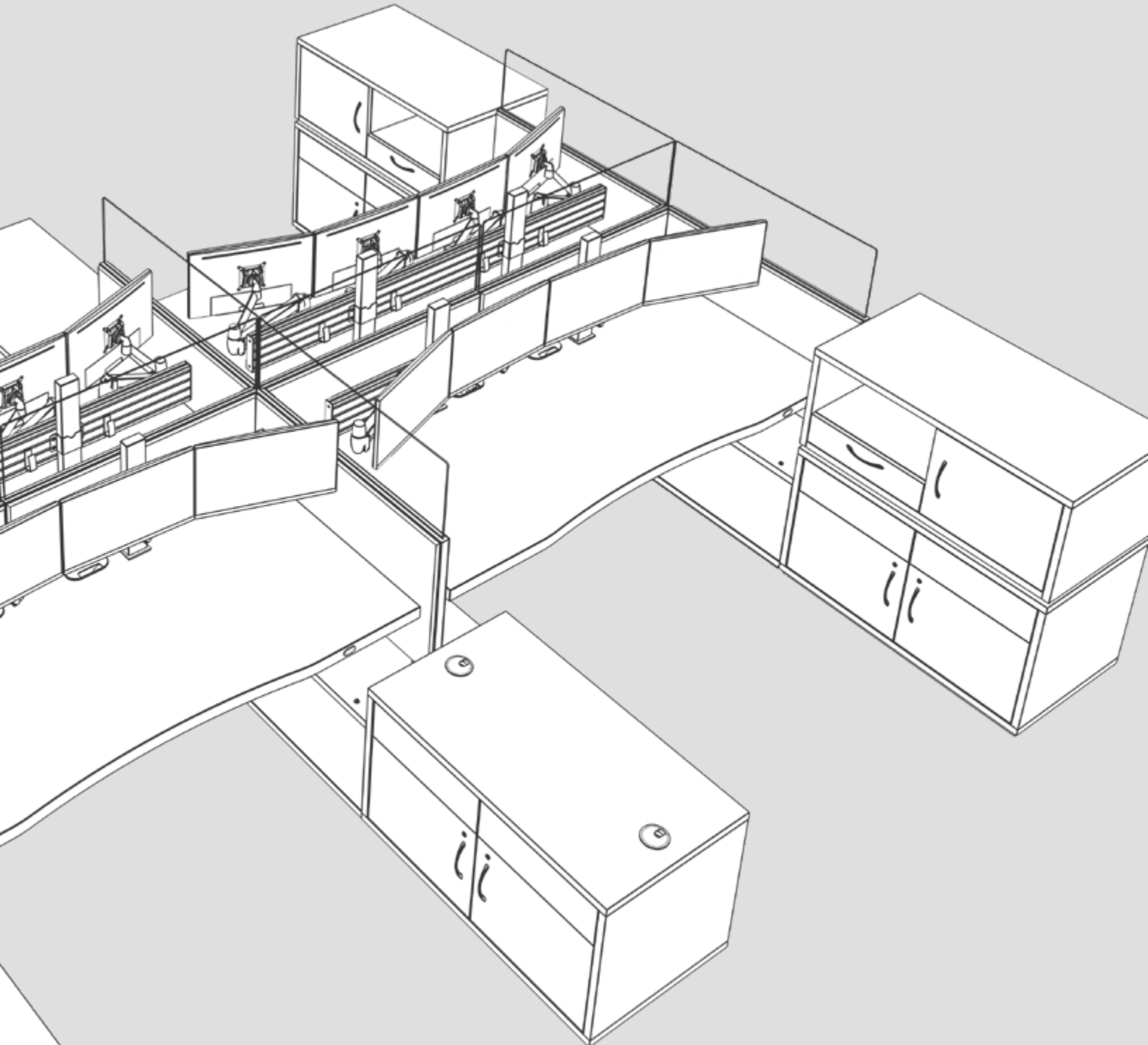


# FACILITY REQUIREMENTS

Mercury Standard



# **FACILITY REQUIREMENTS**

## Mercury Standard

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# CONSOLE POWER REQUIREMENTS

## Building Power Connection

Watson Consoles are connected either to NEMA 20R outlets located beneath the raised floor, on the wall, or by running conduit into the console and mounting junction boxes inside the console Hubs. There are dedicated cut-out locations in each console Hub and available mounting locations for junction boxes.

## Lifting System

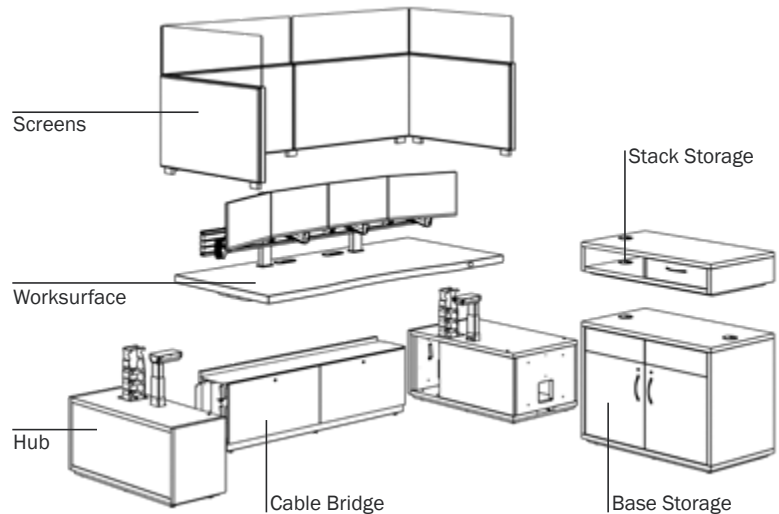
The console requires 120 VAC, 13.3A, 60Hz. The maximum weight capacity is 200 lbs which includes the monitors.

## Total Console Power Requirements

Total system draw for a console with all environment and ergonomic features in simultaneous operation requires 13.3 amps at 120 VAC. This is a maximum draw for all components operating at full capacity. This includes the optional Environmental Control system which consumes 50-60 Hz at 120 VAC. Total Environmental Control System power draw during simultaneous operation at maximum load is 7 amps at 120 VAC.

## Technology Storage Unit Power Requirements

The Technology Storage unit includes integrated cooling fans which will add to the Total Console Power draw. The number of fans vary by storage type and quantity and will be determined by the final furniture configuration. Each fan adds an additional 80mA, with total power draw of 360mA for the largest furnishing. Typical layout allows power connection to a Power Distribution Unit (PDU) found in the adjacent Hub unit.



### Cooling Fans —

- Electrical
  - 12 VDC rated voltage
  - 285 mA rated current
  - 3.4 W rated power consumption
  - 10-70 °C operating temperature
- Performance
  - 2700 RPM rated speed
  - 97 CFM airflow
  - 40.5 dB(A) acoustic noise

### Task Lighting —

- Electrical
  - 12 VDC rated voltage
  - 135 mA rated current
  - 135 mA approx. draw

### Ambient Lighting —

- Electrical
  - 12 VDC rated voltage
  - 180 mA rated current
  - 2.16 W / 180 mA power consumption

### Personal Heater —

- Electrical
  - 120 VAC rated voltage
  - 400 W power consumption

# USER POWER RECOMMENDATION

## Building Power Connection

Each console requires a minimum of two dedicated 15A circuits. One for Watson Console functions and a minimum of one for connection of the Power Distribution Units (PDUs). Two PDUs per console are provided. The number of circuits will vary based on end user requirements.



## Power Distribution Unit —

### Output

50/60 Hz compatibility  
 Nominal output voltage  
 100-122V nominal, single phase  
 20A overload protection  
 (10) NEMA 5-15R

### Special Features

TVSS grounding back panel nut  
 and bolt grounding lug

### Input

PDU input voltage 120V AC  
 15 amp maximum input  
 NEMA 5-15P  
 15 ft. input cord  
 120 VAC compatibility



## Circuits

Minimum of 7 facility power outlets required (depends on number of circuits specified):

Watson Console Power Requirements:

- 2 Outlets: Under surface PDU for Console lift legs and environmental controls (lights, fans, heater)
- 1 Outlet: In-Dash Power (if optioned/ordered)

Mission Critical Equipment Power Requirements:

- 2 Outlets: Hub PDUs (12 outlets each)
- 2 Outlets: In-Dash Monitor power strips
  - *These cannot be plugged into the PDUs as this will not meet code (considered a daisy chain)*

Both hub PDUs can be connected to a single circuit if the customer chooses. The number of circuits at the console is at the discretion of the customer.

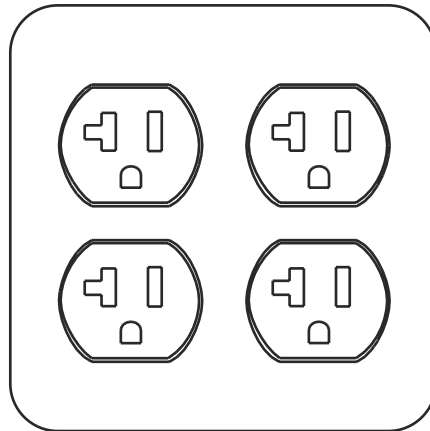
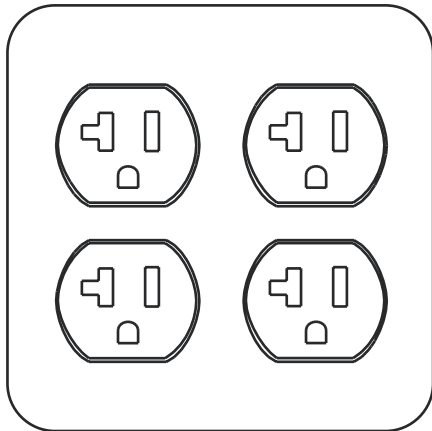
## 5-20R DUPLEX / 20A/125V SINGLE PHASE

### Circuit 1: Non-UPS

Watson Console Power

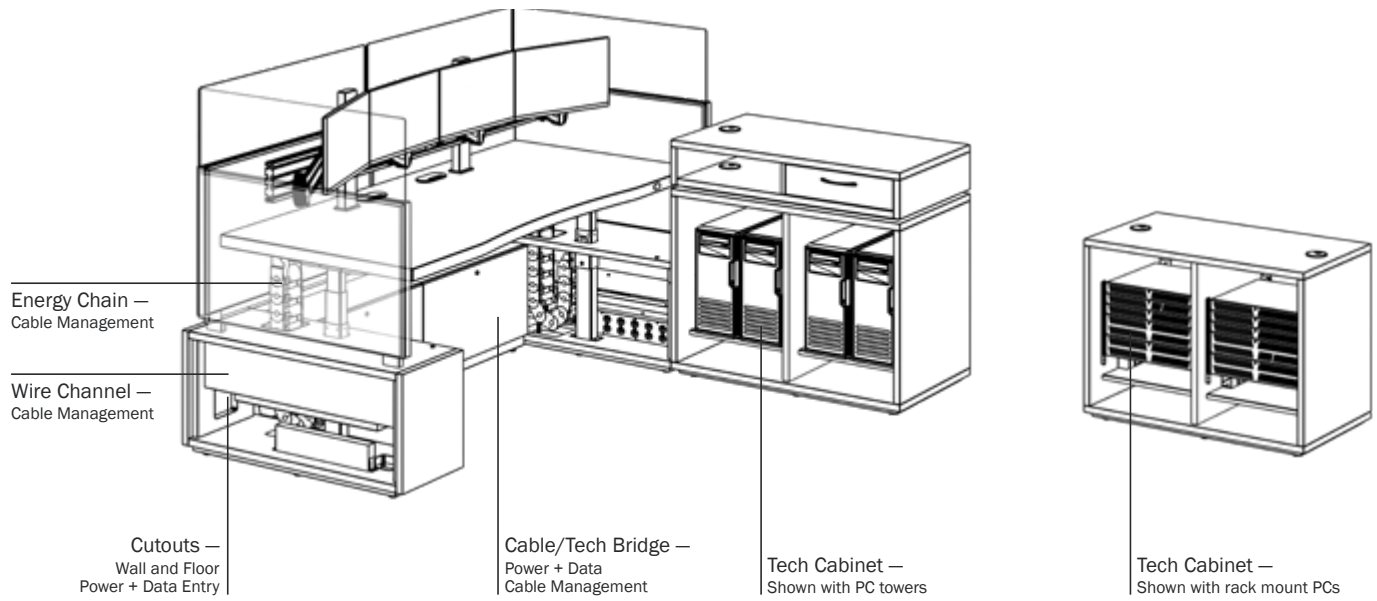
### Circuit 2: UPS Mission Critical

Equipment Power

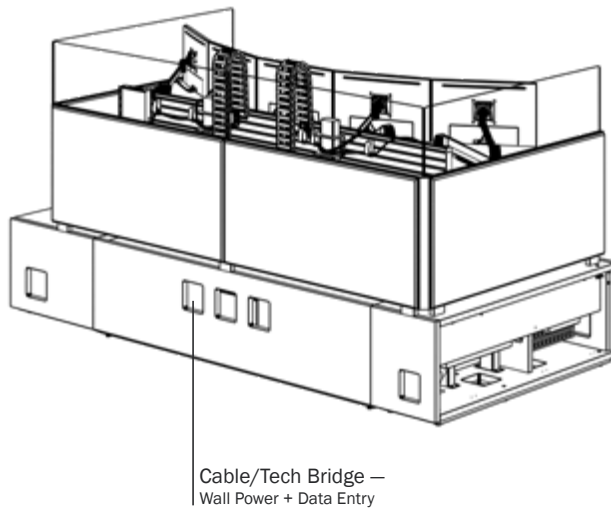


\*This diagram represents the minimum requirements.

# TECHNOLOGY LOCATION TYPICAL



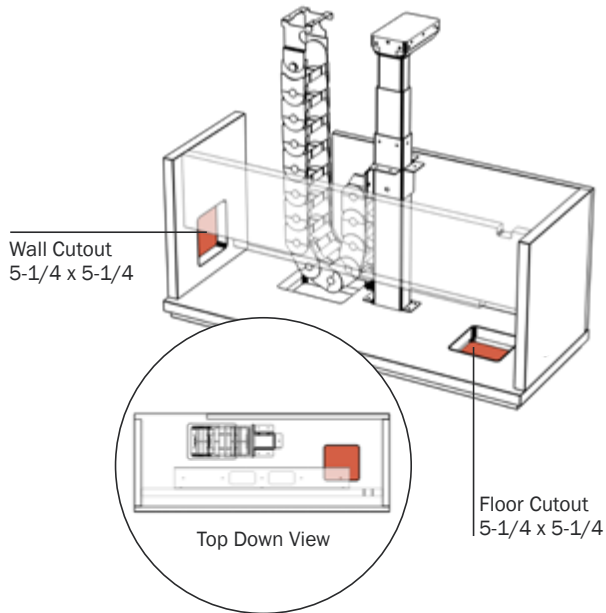
Back of Console



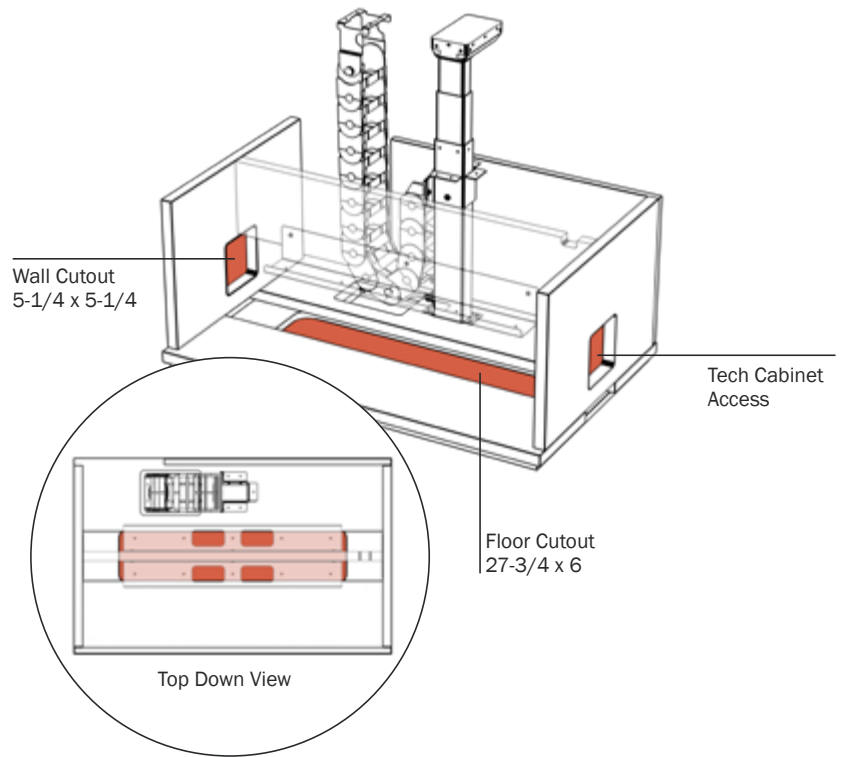
# HUB CUTOUT LOCATIONS

Facility connection is dependent on specification. Mercury consoles are designed to accommodate facility power from wall and/or floor outlets. Facility power must only be routed through the hub cutouts shown.

## 15D x 39W Hub



## 24D x 39W Hub



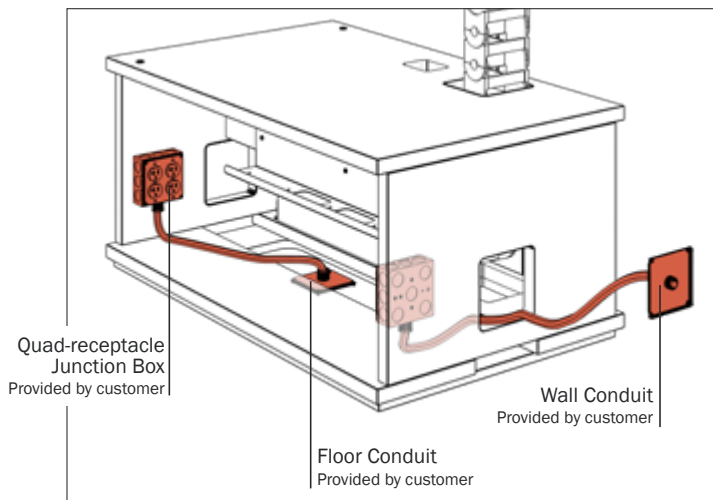
# CONNECTION TO BUILDING POWER

## Integrate Mercury and Facility Power

The illustrations below show examples of Mercury integrated with facility provided power and accessories. Power can also be fed from the ceiling via power poles or from the wall via the Tech/Cable Bridge (not pictured).

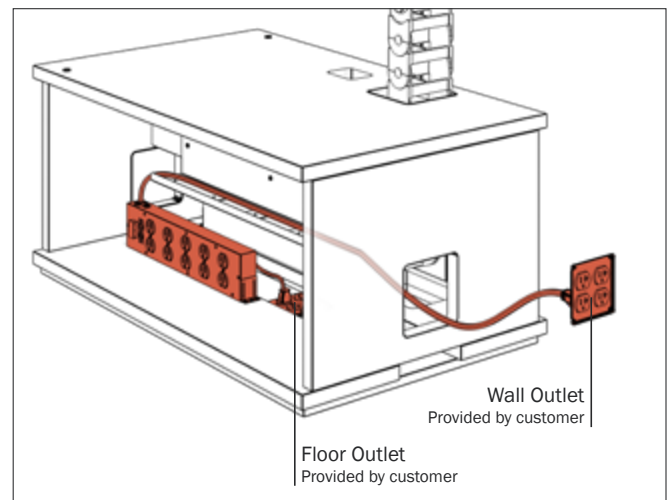
### Option 1

Run flexible conduit from raised floor or wall into the console and terminate in a quad-receptacle junction box. Mounting locations for junction boxes are provided in the console (shown below).



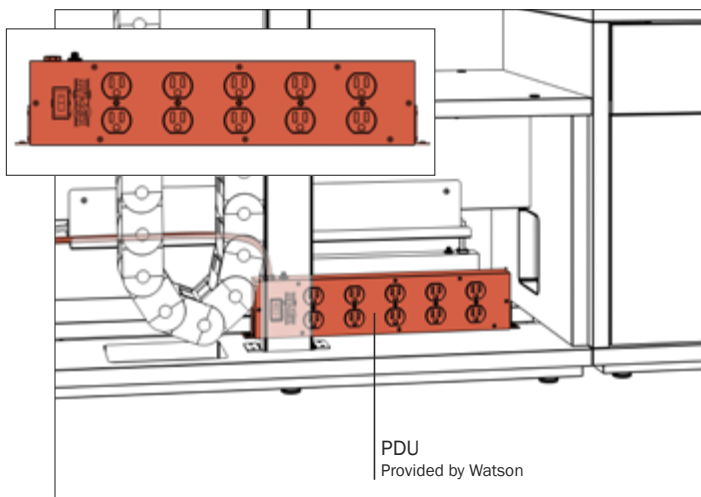
### Option 2

Connect the main power cord directly to 15A wall or floor outlets. If possible, position facility outlets to align with console power access points. If 15A outlets are not available, contact Watson Consoles.



## Power Distribution Units (PDUs)

PDUs are connected to mission critical building power. Ground lug is provided for connection into building grounding system. Handed hubs (15"W and 24"W) are specified with a single PDU. Center hubs (24"W) include 2 PDU's.



## Network Switches

Network switches (not included) can be installed two ways:

A. Mount junction boxes to inside of inside of hub, cable bridge or technology cabinet (pictured).

