

Power Column (P950E)

TECHNICAL DATA SHEET

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Figure 1. Power Column (P950E)



General

The Power Column (P950E) shall be a prefabricated, freestanding unit that includes all electrical and mechanical services that are normally in a critical care patient room headwall.

The Power Column (P950E) shall be UL-Listed for the United States (KEZR and KEXS) and Canada (KEZR7 and KEXS7) by Underwriters Laboratories Inc.®. These products shall additionally comply with the seismic requirements for the State of California (OSHPD).

Responsibilities under this section of specifications shall include furnishing the Power Column (P950E) and related equipment as shown on the drawings. The Power Column (P950E) shall be fabricated to these

specifications and conform to details shown on drawings.

The Power Column (P950E) manufacturer may coordinate with the architect and manufacturers of equipment not supplied by the Power Column (P950E) manufacturer, to ensure compatibility with the equipment.

The mechanical contractor shall provide the primary services and make connections to the appropriate installed mechanical equipment of the Power Column (P950E) as shown on drawings and as herein specified.

The contractor shall install the Power Column (P950E), related equipment, wiring, accessory equipment, and make the necessary service connections as shown on the plans and as herein specified.

The recommendation of the National Fire Protection Association (NFPA®²), the National Electrical Code®³ (NEC®⁴) for the United States (CAN/CSA-C22.1 and CAN/CSA-C22.2 No. 0 for Canada), NFPA®-99 (CAN/CSA-Z305.1 and Z318.6 for Canada), as well as state and local codes that apply to product installations - shall be adhered to in all respects. The installing contractor shall be responsible for compliance with all local, state, and federal codes applicable to this installation. After installation, the equipment shall be examined and tested by the installing contractor to assure compliance with the above codes and to determine that the assembly has been installed correctly and is functioning properly.

The manufacturer shall factory inspect and test each Power Column (P950E) for compliance with specification requirements. Such inspections as set forth in the specification or as otherwise necessary are performed to ensure that the equipment conforms to specifications.

Follow the installation instructions in manual IS586. (In seismic code area, contact WittRock® for additional information concerning all preparation.)

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3. National Electrical Code® is a registered trademark of National Fire Protection Association, Inc.
4. NEC® is a registered trademark of National Fire Protection Association, Inc.

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Submittals and Verifications

Shop drawings shall be submitted in accordance with supplemental, general, and special conditions of the specifications and contract documents.

The Power Column (P950E) manufacturer shall submit within 30 days of contract award complete detailed drawings. Drawings shall show location dimensions of factory installed equipment and interface to service connections, which require cutting or close fitting.

Manufacturing fabrication shall not be started until complete final approved drawings are received.

The Power Column (P950E) manufacturer shall provide physical samples of materials or equipment only if specifically required, and the cost of same has been negotiated.

The manufacturer reserves the right to furnish the Power Column (P950E) and its related components with improvements in design and/or material at the time of manufacturing.

Product Description

The Power Column (P950E) shall be a free standing device providing 360° access to centralized services. The Power Column (P950E) shall be factory wired, piped, and equipped with required electrical and mechanical services, and should generally preclude requirements for any patient services being built into the room wall structure.

The Power Column (P950E) may provide the following options:

- Electrical Power Outlets
- Medical Gas/Vacuum Outlets
- Staff Equipment Lighting
- Emergency Code Button Provision
- Adjustable Mounting for Patient Diagnostic and Treatment Equipment.
- Patient Bed Positioner
- Nurse Call Provision
- Consumable Materials and Equipment Storage, Shelves, and Baskets

The Power Column (P950E) is constructed with the following dimensions:

- Column Cross Section—23 1/8" (58.74 cm) or 15 1/8" wide x 7" deep (38.42 cm x 17.78 cm)
- Floor Space (Base)—22" (55.88 cm) or 14" wide x 7" deep (35.56 cm x 17.78 cm)
- Ceiling Space—23 1/4" (59.06 cm) or 15 1/4" wide x 10 1/2" (38.74 cm x 26.67 cm)
- Deep Height (Floor to Ceiling)—8' 0" (243.84 cm) minimum to 10' 6" (320.04 cm) maximum in 1" (2.54 cm) increments

Materials and Construction

The structure shall be of heat treated aluminum alloy extrusion sections locked together to form a load bearing rectangular channel at each side of the basic column cross-section. The top and bottom closures between the channels shall be formed of 16 ga galvanized steel. The front and rear panels shall be of galvanized steel with HPL bonded to the visible face. The joints between the panels shall be concealed by overlapping aluminum alloy extrusions locked to the panels. The four vertical corners shall be anodized aluminum extrusion tracks, which provide continuous vertical adjustable attachment points for the accessory equipment.

Ceiling Mounting Ring—Shall be a structural frame 9 1/8" x 21 1/2" (23.18 cm x 54.61 cm) or 13 1/2" (34.29 cm) constructed of 11 ga steel. The ceiling mounting ring shall be mounted at the finished ceiling height by rigid suspension members tied to the building structure by the installing contractor. The Power Column (P950E) shall be attached to the mounting ring by two 5/8" (1.59 cm) provided adjustment bolts. The ceiling service opening thru the mounting ring has the following dimensions: 7" x 16 7/8" (17.78 cm x 42.86 cm) or 8 7/8" (22.54 cm).

NOTE:

The ceiling mounting ring suspension method must be capable of supporting 200 lb (90.72 kg) dead load, resisting 600 lb (272.16 kg) of horizontal impact, and 300 lb (136.08 kg) of upward compressive force with deflection not to exceed 1/16" (0.16 cm). (In seismic code area, contact WittRock® for additional information concerning the suspension method.)

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Floor Mounting Base—Shall be a base constructed of steel, welded into a rigid structure, and painted with primer paint for corrosion protection. The manufacturer shall attach the Power Column (P950E) structure and provide the mounting hardware for the floor attachment. The installing contractor shall mount the Power Column (P950E) to the floor.

Front Service Enclosure Shroud—Shall be enamel painted steel. The front service enclosure shroud shall mount to the Power Column (P950E), extending from the unit to the ceiling, and shall conceal the wiring and the ceiling service drop opening. The front service enclosure shroud shall be attached to the Power Column (P950E) structure in track grooves, with mounting hardware provided by the manufacturer.

Rear Service Enclosure Shroud—Shall be enamel painted steel. The rear service enclosure shroud shall mount to the Power Column (P950E), extending from the unit to the ceiling, and shall conceal the wiring and a ceiling service drop opening. The rear service enclosure shroud shall be attached to the Power Column (P950E) structure in track grooves, with mounting hardware provided by the manufacturer.

Floor Base Cover—A steel floor base cover shall be attached to the floor mounting base, with provided screws, by the installing contractor.

Main Junction Box—Shall be located at the front top of the Power Column (P950E) for ease of hook up and service. The main junction box shall be primer painted, or galvanized steel and barriered into three compartments: electrical, communications (low voltage), and *critical branch, as required. The factory installed equipment shall be wired to the main junction box for a single point service connection. The reference ground bar shall be located in the electrical compartment.

Electrical Systems—The Power Column P950E with the appliance branch circuit panelboard shall have pre-installed load center interior for plug-in or bolt-on molded case circuit breakers. Interiors shall be installed for one of the following:

- Single phase, two wire, 120 volt with single pole, 30 or 50 AMP main

- Single phase, three wire, 120/240 volt with two pole, 30 or 50 AMP main
- Three phase, four wire, 120/208 volt with three pole, 30 or 50 AMP main

Field connections shall be at junction box terminal block with 6 AWG or smaller solid or stranded copper conductor. Back fed plug-in main shall have retainer installed to prevent accidental removal. Single phase interiors shall have space for either 12 or 20 poles (including main). Three phase interior shall have space for 18 poles (including main). See Detailed Product Specification 140738, Architectural Products Optional Equipment and Devices, for details related to the Circuit Breaker Panel. Quantity and amperage rating shall be as specified on shop drawing wiring diagram.

- **Medical Gas/Vacuum Outlets**—The Power Column P950E manufacturer shall furnish the medical gas/vacuum hose/outlet assembly, complete with DISS connectors with locations being as identified by shop drawings and compliant with NFPA®-99 requirements (CAN/CSA-Z305.1 and Z318.6 for Canada). The mechanical contractor shall provide all facility service connections to the product, as well as the performance and certification pressure testing, in accordance with NFPA®-99 requirements (CAN/CSA-Z305.1 and Z318.6 for Canada).

Grounding System—The reference ground bar shall be copper with compression screws, which shall accept a 4 AWG or smaller building service ground wire. The reference ground bar shall have seven connection openings. The power receptacles shall have ground conductors attached to the ground screw of each receptacle. The ground conductors shall be stranded copper wire with green colored insulation. Ground conductors shall be terminated with machine applied compression fittings. The ground bar within the structure for the ground wire tie point shall ensure the grounding of the structure. A ground conductor of 6 AWG shall be provided between the reference ground bar and the internal ground wire tie point. The structure shall not be used as the sole ground path

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between the power receptacles and the reference ground bar.

Electrical Wiring—Wire for standard power, *critical branch power, and lighting circuits shall be stranded copper and color-coded in accordance with wiring diagram.

Device Cover Plates—Device cover plates shall be of formed aluminum and shall cover devices or empty device openings.

Lighting—For lighting options and variations, see Detailed Product Specification 140738, Architectural Products Optional Equipment and Devices, for details related to the Lights and Clock/Timers.

Monitoring Equipment Provision—The Power Column (P950E) manufacturer shall allow adequate space and make provisions for monitoring equipment and structure required for the monitor bracket. The power receptacles, signal connection backbox, and conduit for the low voltage wire pulls shall be provided and installed by the manufacturer. The faceplates for the monitor power receptacle and the signal connection backbox shall be provided by the Power Column (P950E) manufacturer. The contractor shall provide the Power Column (P950E) manufacturer with the name and model number of the monitoring equipment. The contractor shall furnish and install all monitor equipment and draw the low voltage wiring thru the voltage raceway provision.

- **Monitor Support Arm**—The monitor support arm may be WittRock®¹ Model-962 Monitor Arm (Polymount®² VBä as manufactured by the GCX Corporation) or Light Weight Monitor Arm (997L) (Polymount® VHMä as manufactured by GCX Corporation).
- **Monitor Signal Connection**—The Power Column (P950E) may have a 2-gang backbox provided on the upper front face or side with a blank faceplate. The backbox shall have a 1 1/4" (3.18 cm) trade size conduit provided to the service connection area with a flexible conduit coupling fitting.
- **Monitor Power Receptacle**—The Power Column (P950E) may have a 20 A, 125 V, hospital grade, single receptacle provided on the upper front or

side face. The receptacle and faceplate shall be furnished, installed, and wired by the Power Column (P950E) manufacturer. The receptacle shall be on a separate branch circuit.

Colors and Trim —All exposed aluminum extrusions shall be of clear satin anodized. Front, side, and rear panel HPL shall be selected from an approved color chart. Device cover plates shall be clear satin anodized aluminum.

Base Covering—6" (15.24 cm) base cover molding shall be furnished by the Power Column (P950E) manufacturer. The molding shall be subtle sage, or equivalent, in color. The base cover is to be attached by the installing contractor.

Accessory Equipment—Accessories shall mount in the Power Column (P950E) track groove to provide for easy adjustment and rearrangement to suit changing requirements. There shall be two track grooves on each of the four faces of the Power Column (P950E) for a total of eight track grooves. All accessories shall be retained in the track groove by a threaded aluminum extrusion to provide for a smooth adjustment up/down track groove. The Power Column (P950E) track grooves shall have access points: two on each front track, two on each rear track, and two on each side track for the attachment and removal of accessories. Accessories shall be attached by the installing contractor.

Optional Equipment and Devices

The following optional equipment and devices are available on the Power Column (P950E):

- Electrical Receptacles
 - Single and Duplex
 - Tamper-Resistant
 - Locking
 - Isolated Ground
- Grounding Receptacles
- SPST and 3-Way Switches
- Timed Light Switch
- Dimmer Switch

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2. Polymount® is a registered trademark of GCX Corporation.

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- Night Light
- Chart Light
- Incandescent/Fluorescent Arm Light
 - Arm Light Mounting Bracket
- Exam Plus®¹ Light (P965)
- STAT Clock/Timer (P967) Provisions
 - Panel Mounted
 - Pod Mounted
 - Remote Station Control
- Nurse Call Station
- Telephone Provision
- Code Blue Emergency Call Button
- Blank Provisions
- SideCom®² Bed Interface
 - Low Voltage Light Switching
- Circuit Breaker Panel (Wide-Cross Section Column Only)
 - General Electric Company
- Isolation Transformer
- Remote Location Line Isolation Monitor (Wide-Cross Section Column Only)
- Wall Mounted Accessory Track (P979)

See Detailed Product Specification 140737, Architectural Products Accessories, for details related to the Exam Plus® Light (P965), Incandescent/Fluorescent Arm Light, and Wall Mounted Accessory Track (P979).

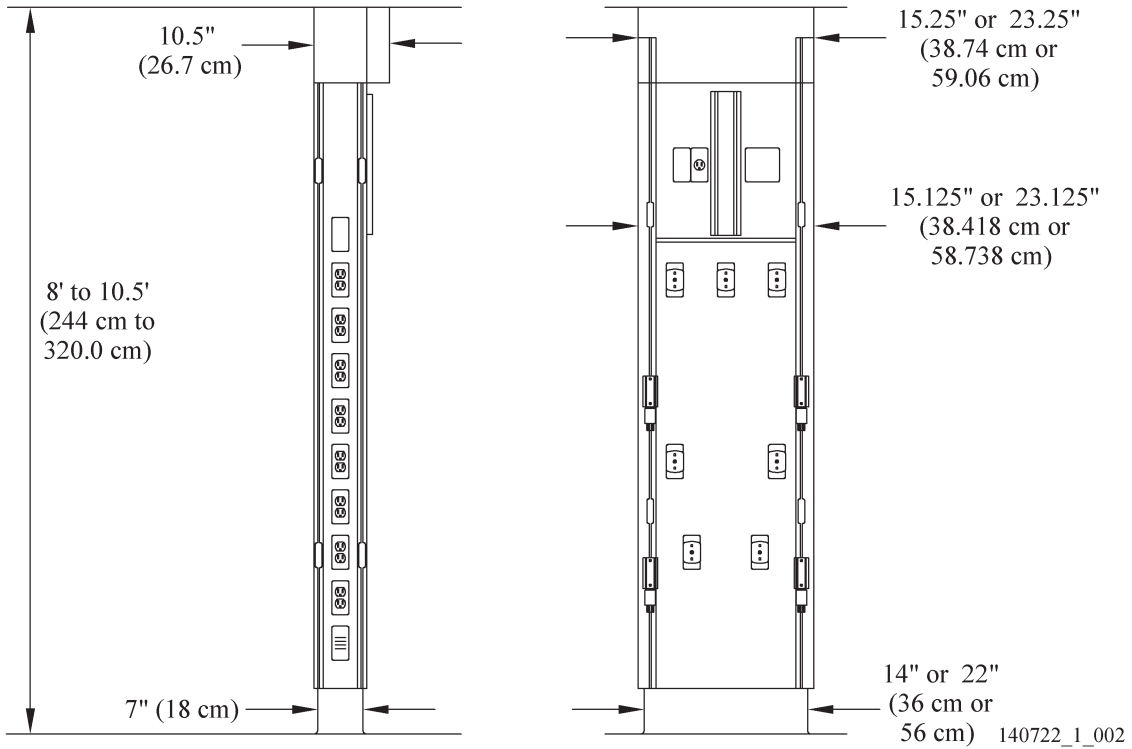
See Detailed Product Specification 140738, Architectural Products Optional Equipment and Devices, for details related to the above optional equipment and devices.

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2. SideCom® is a registered trademark of WittRock Services, Inc.

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Figure 2. Power Column (P950E) Dimensions



Power Column (P950E)

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NOTES:

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GREENSBURG, IN 47240 USA
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International: Contact your distributor.
www.wittrockhc.com

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WittRock reserves the right to make changes without notice in design, specifications, and models.

The only warranty WittRock makes is the express written warranty extended on the sale or rental of its products.

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