

# Regal Series Power Columns

## General Specifications

The Amico Regal Series Power Column shall be manufactured by Amico Corporation, in accordance with job specific shop drawings and documents. The complete Power Column assembly shall be cULus listed. The following is a general specification, and components listed may not be present or required in final product.

The Regal Series Power Column System is listed by Underwriters Laboratories Inc.(UL) in Canada and the United States of America. This product also complies with the seismic requirements of, and is approved by the State of California's Office of Statewide Health Planning and Development (OSPHD). Amico Corporation manufactures all products in accordance with the National Fire Protection Association (NFPA), NFPA-99c (current edition) and National Electric Code (NEC).

The installation contractor is responsible for compliance with all local, state, and federal codes applicable to the installation of medical gas and electrical systems.



## Submittals And Verifications

Job specific shop drawings shall be produced for each project. These shop drawings will clearly indicate the area of Medical Gas termination, and electrical connection points inside or outside the Power Column System. As Built drawings will be produced, and emailed at the time of shipment.

Amico Corporation will manufacture equipment as per signed approval drawings and verifications documents, which are provided in the job specific submittal package.

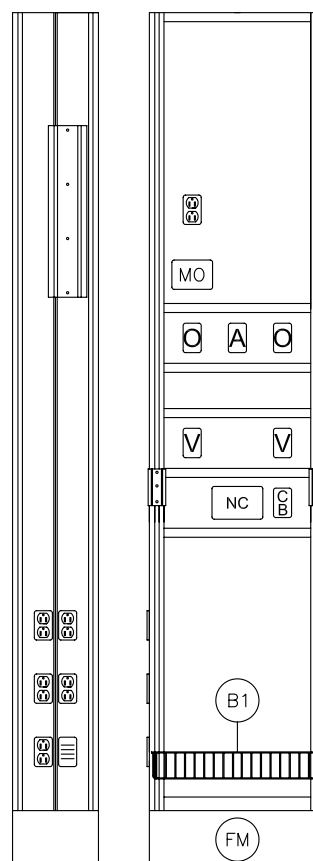


Figure 1. Regal Series 19" (483 mm) Power Column

# Regal Series Power Columns

## Materials And Construction

Enclosure shall be constructed of extruded, anodized aluminum alloy sections to provide a modular unit with integrated accessory rails for equipment management.

Standard sizes of the Regal Series Power Column are 9" x 9" (229 mm x 229 mm), 12" x 9" (305 mm x 229 mm), 19" x 9" (483 mm x 229 mm) and 28" x 9" (711 mm x 229 mm). All Power Columns have a 6" (152 mm) stainless steel base. The complete unit extends from floor to ceiling.

Each headwall system shall contain electrical conduit to enclose electrical wiring for each type of power (critical, normal and low voltage/communication). Electrical termination shall be located as indicated in the drawing.

All med gas piping shall be hard-piped and brazed to a single point of connection. Med gas pipes will terminate above the ceiling line.

All Fascia panels (aluminum and laminated) shall be removable for access for easy installation and maintenance of headwall services.

### Integrated Accessory Rails

The Regal Series Power Column has eight (8) accessory channels, which are integrated into the aluminum extrusion assembly. The accessory channels are clear etched anodized.

### Fascia

Standard anodized aluminum finish where devices are located. Medium-Density-Fiberboard with High pressure laminate (HPL) elsewhere. Color and pattern to be selected by customer.

### Medical Gas Outlets

Amico Corporation manufactures several compatible connection types for Medical Gas and Vacuum Outlets. The outlet connection type shall be as called for on the signed approval documents.

### Medical Gas Manifold

Medical gas distribution shall be supplied by pipe drops to the single point connection above the unit as indicated on the drawing. All Medical Gas Outlets and piping shall be brazed and tested in accordance with NFPA 99c. All Medical Gas piping shall be Type L copper pipe. Each outlet, piping and manifold shall pass a 24 hour standing pressure test.

## Electrical Wiring

Wire for standard and critical branch power circuits shall be #10 or #12 (as specified) type THHN stranded copper wire, 600 volt, with heat resistant thermoplastic insulation for hot (black) and neutral (white). Grounds shall be #10 type RTHHN stranded copper wire (green). All ground conductors shall be installed in conduit.

## Grounding and Bonding

All ground conductors shall be installed in conduit. Each power receptacle shall have a ground conductor connected to a grounding screw. Where electrical terminations are located inside the flatwall, a grounding bus will be installed for each type of power, and shall be installed as to insure grounding for the complete power system.

## Electrical Receptacles

Shall be Hospital Grade 15 or 20 amp, 120 or 277 volt, UL listed and marked Hospital Grade. Quantity and type as shown on drawings. Amico shall furnish and install receptacles with wiring required, as shown on submittal shop drawings. Electrical contractor shall insure compatibility of plug on accessory equipment to be used with these devices:

**Duplex Receptacles** shall be NEMA style 5-15R or 5-20R, color Ivory for use on normal power circuits, and color Red for use on critical branch power circuits.

**Simplex Receptacles** shall be NEMA style 5-15R or 5-20R, color Ivory for use on normal power circuits, and color Red for use on critical branch power circuits.

**Safety Receptacles** (if required) shall be duplex type, be NEMA style 5-15R or 5-20R, color Ivory for use on normal power circuits, and color Red for use on critical branch power circuits. Receptacles shall limit proper access to energized contracts and shall accept both 2 wire and 3 wire plugs.

**Locking Receptacles** (if required) shall be simplex type, 20 amp, 120 or 277 volt, color black, and be HUBBELL lock 23000 HG style, or equivalent.

## Low Voltage Data Provisions

Shall be connected to device junction box via conduit. Amico Corporation shall include pull cord extending from service provision to electrical termination point. Telephone jack, Blank faceplates, Data port or other Low Voltage device shall be furnished, installed and wired by Low Voltage contractor.

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## Switching

Shall be Industrial Grade 120 or 277 volt, 15 or 20 amps. Switch type options include SPST, 3-Way or Momentary, as shown on submittal shop drawings. Low Voltage Switching will be 0-12 volts, 15 amps unless otherwise noted. Amico Corporation shall furnish, pre-install and wire all switches.

## Installation

Mounting and final connections are the responsibility of the installing contractor. This includes receiving, storage, erection, overhead bracing, clean up, touch up, and carton disposal. The contractor shall supply all necessary installation materials, including such items as tools, fasteners, calking and electrical lamps.

The electrical contractor shall be responsible for the final electrical hook-up at service connection locations, as well as interconnection wiring on multi-sectional units. Once the installation is complete, the electrical contractor shall test equipment function and high voltage services /grounding in accordance with local electrical code requirements. It is the responsibility of the hospital and/or the approval authority to notify Amico if Local electrical code varies or differs from that of NEC. Amico manufactures all products in accordance with NEC (current edition).

The medical gas contractor shall be responsible for piping and final connection of all medical gas services. Amico Corporation will manifold medical gas plumbing internal to the Headwall System, and provide single point of connection as per the submittal documents. The medical gas contractor shall be responsible for purging, pressure testing, gas identification and system certification in accordance with NFPA 99c (current edition) or CSA-Z7396.01-06.

Please refer to the Regal Series Power Column installation instructions for further detail.

## Optional Equipment

### Amico Accessories

Shall be provided in the quantities and types as ordered. Accessories shall be installed by others, in the locations determined by the end user. Please see the Amico Accessories catalog for additional product and mounting information.

### Product Code Definition

#### PCXXFL-XXX

- XX = Variable Width (09, 12, 19, 28)
- CAR = Care Level (GEN, ICU, etc)

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