



Enhancing Outcomes for Patients and Their Caregivers...

**1. Product Name**

Contour® Headwall System (P667B00)

**2. Manufacturer**

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**3. Product Description**

Hill-Rom Co. is a leading worldwide manufacturer and provider of medical technologies and related services for the health care industry.

**BASIC USE**

The Hill-Rom® Contour® Headwall System (P667B00) provides medical gases and electrical services from fixed point locations. Although designed to meet basic functional requirements for patient delivery within a low-acuity hospital environment, the system can also be configured for all acuity levels, including ICU, med-surg, PACU, ED/trauma, labor and delivery and patient rooms. Typical electrical services include critical branch/emergency power and normal power, as well as provisions for low-voltage services such as nurse call, code blue, data, telephone and patient, and equipment monitoring. The system also provides communication devices and a means for managing integral equipment.

Available pre-wired for either standard or isolated power, the Contour Headwall includes five normal branch and five critical branch/emergency electrical receptacles, as well as a low-voltage/line voltage switch. The system can be configured with up to eight medical gas outlet services, specifiable by location in any combination of vacuum, medical air and oxygen. A selection of track-mounted accessories are also available to meet specific clinical and equipment requirements.

Recessed within the wall on either side of the patient bed, the Contour Headwall System frees space for ease of patient care. The mounting system is installed independently from the main unit, which allows the headwall

to be stored and protected until building construction is complete.

**COMPOSITION & MATERIALS**

Basic components of the Contour Headwall System include module frame members, front service panels, medical gas and vacuum outlets, electrical receptacles and a cover plate for devices and empty gang openings. Two vertical equipment tracks are included for mounting ancillary patient care equipment. Services can be configured within each of the components according to the amount and location needed to meet clinical situation requirements.

Contour Headwall System frame assemblies are manufactured from galvanized steel. Exposed surfaces are of painted aluminum. The front and back are covered with steel panels, and the ends are covered with molded plastic covers.

Service panels, made of steel finished with a commercially available High Pressure Laminate (HPL) face, are held in place by removable aluminum trim extrusions for easy access and maintenance. The device cover plate is of formed aluminum with a warm white paint finish.

The medical gas and vacuum system is furnished with pre-assembled oxygen, medical air and vacuum hard copper pipes. The pipes terminate in a junction area for connection to the project facility's medical gas services. Medical gas outlets are fixed console type and are available in quick-disconnect or Diameter Index Safety System (DISS) versions conforming to CGA V-5. Once installed, the headwall unit's gas system is pressure-tested to NFPA 99 (CSA-Z305.1 AND CSA-Z318) to ensure the seal is gas-tight.

Normal and critical electrical services are delivered through integral raceways, while low voltage runs through conduit. Receptacles are hospital grade, 125 V, 20 A, tested to ANSI/UL 514A and wired in accordance with NFPA 70 or CSA C22.1 and CSA C22.2.



Receptacle options include single and duplex, tamper resistant duplex and isolated ground duplex. Provisions for low-voltage electrical services are within the headwall. All low-voltage provisions are single-gang openings, except the Nurse Call provision, which can be a maximum 4-gang opening.

Equipment management tracks on each side of the headwall allow equipment to be placed anywhere along the height of the headwall, from between 20" - 79" (508 - 2007 mm) above the floor with stock headwalls.

**SIZES**

The Contour Headwall System weighs approximately 80 lb (36 kg) and has a safe working load of 250 lb (113 kg). It can be mounted back to back in walls having 6" (152 mm) deep wall studs faced with 5/8" (16 mm) drywall.

The fascia is 16 5/8" (422 mm) wide and extends from the wall by 1" (25.4 mm). For easy service access, a minimum space of 3" (76 mm) should be allowed on each side of the unit. See Table 1 for additional information.

Length	65" (1.7 m)
Width	16.625" (0.4 m)
Distance from floor to top of unit	82" (2.1 m)
Distance from floor to bottom of unit	17" (0.4 m)
Distance from floor to center line of top row of gases	60" (1.5 m)
Wall depth	3.5" (89 mm) deep studs
Wall depth - Back-to-back	6" (152 mm) deep studs



**COLOR, FINISH**

The Contour® Headwall System is available in warm white and is offered with virtually any laminate option to meet aesthetic needs.

**BENEFITS**

- Accepts diverse clinical technologies, including gas, data, electric and nurse call
- Configurable for all acuity level needs
- Supports normal, critical branch/emergency and low voltage power and requires only single-point electrical or gas connection
- Can supply oxygen, medical air and vacuum in any combination of up to eight outlets and inlets
- Ergonomic design to reduce the need for reaching and bending
- Main unit can be attached between wall studs before or after drywall installation
- Recessed design allows system to easily fit into smaller size rooms
- Meets or exceeds industry standards

**OPTIONS, ACCESSORIES**

**Storage**

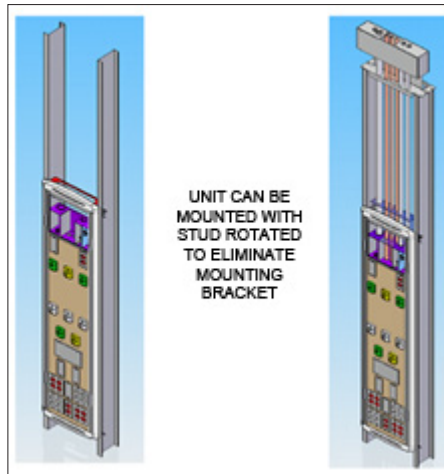
- Universal holder
- Contour adjustable shelf
- Large and small pivoting storage baskets
- Large and small swivel shelves
- Accessory bar and arms
- Horizontal equipment tracks
- GCX Track for monitor

**Lighting**

- Incandescent arm light
- Incandescent fluorescent arm light
- Track mounted utility light
- Track type arm light mount

**Equipment**

- Aneroid sphygmomanometer with coil and standard cuff size; mount and basket also available
- Bottle slide
- Contour bottle guard/bumper
- Slide mounted IV hanger
- Ophthalmoscope mount
- Resuscitator bag holder
- Bird® blender mount
- Pod mounted Stat clock



**4. Technical Data**

**APPLICABLE STANDARDS**

American National Standards Institute (ANSI)/ Underwriters Laboratories (UL) - ANSI/UL 514A Metallic Outlet Boxes

**ASTM International**

- ASTM E336 Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings
- ASTM E413 Classification for Rating Sound Insulation

**Compressed Gas Association (CGA)**

- CGA V-5 Diameter Index Safety System (Non-interchangeable Low Pressure Connections for Medical Gas Applications)

**Canadian Standards Association (CSA)**

- CSA C22.1 Canadian Electrical Code, Part 1 (19th Edition), Safety Standard for Electrical Installations
- CSA C22.2 Industrial Control Equipment
- CSA Z305.1-92-CAN/CSA Nonflammable Medical Gas Piping Systems
- CSA Z318.0-93 Commissioning of Health Care Facilities

**National Fire Protection Association (NFPA)**

- NFPA 70 National Electrical Code (NEC)
- NFPA 99 Standard for Health Care Facilities

**APPROVALS**

- Complies with seismic requirements of the State of California Office of Statewide Health Planning and Development (OSHPD)
- UL listed by Underwriters Laboratory Inc.
- ULC listed by Underwriters Laboratories of Canada

**TECHNICAL PROPERTIES**

See Table 2.

**FIRE PERFORMANCE**

Meets UL fire performance requirements based on power type used.

**5. Installation**

**PREPARATORY WORK**

The Contour Headwall System is shipped in protective, corrugated paper end caps. Delivery is the responsibility of Hill-Rom and is normally made in Hill-Rom trucks.

Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by Hill-Rom.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

Contractors should make appropriate electrical and gas connections in accordance with all applicable national, state, and local electrical and building codes prior to head-wall installation.

**METHODS**

The Contour Headwall System is designed to be installed by contractors in accordance with the manufacturer's comprehensive installation instructions.

**TABLE 2 TECHNICAL DATA**

Gases (oxygen, air or vacuum)	Up to 8, configurable
Electric, in number of duplexes	6 normal, 5 emergency
Low voltage provisions (data)	5
Nurse call	1, 2, 3 or 4 gang

Hill-Rom recommends walls to be constructed of metal studs 16" (406 mm) on center, plus or minus 1/4" (6.4 mm). Wall studs should be 25 gauge or heavier and can be up to 1.635" (42 mm) wide. The wall studs must be at least 3.5" (89 mm) deep for single unit installation and 6" (152 mm) deep for back-to-back installation.

**PRECAUTIONS**

- Prior to system design and installation, determine the type of fixed medical gas outlet that exists within the project facility to ensure system compatibility
- Configure the Contour® Headwall System based on the connection of specified service and medical device loads, taking into consideration an ergonomic reach zone of 18" - 72" (0.5 - 1.8 m) from the floor
- The wall on which the headwall is installed must be designed to support the weight of the system itself and the weight of the medical equipment that will be attached
- If two headwalls are mounted back to back, it is the responsibility of the mechanical contractor to install the headwall to achieve a sound transmission class (STC) rating of at least 35 in accordance with ASTM E413 and ASTM E336

**BUILDING CODES**

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

**6. Availability & Cost**

**AVAILABILITY**

Products are available in the U.S., Canada and Puerto Rico direct from the manufacturer with an average 8-week lead time from order confirmation. Contact Hill-Rom Co. for information concerning local availability.

**COST**

Detailed cost information may be obtained from the manufacturer.

**7. Warranty**

Hill-Rom Co. offers a general one year limited warranty against defects in material and workmanship. Complete warranty terms and conditions are available from the manufacturer. For details, consult Hill-Rom Co.

**8. Maintenance**

The Contour Headwall System requires an effective maintenance program. The manufacturer recommends performance of annual preventive maintenance (PM) and testing for Joint Commission requirements. PM and testing will help ensure a long, operative life for the Contour Headwall System and will minimize downtime due to excessive wear.

Complete preventive maintenance instructions are available from the manufacturer. For details, consult Hill-Rom Co.

**9. Technical Services**

Customer service, technical support and troubleshooting are available through toll-free telephone consultation. Technical assistance, including more detailed information, product literature, test results, project lists, assistance in preparing project specifications and arrangements for application supervision, is available by contacting Hill-Rom Co.

**10. Filing Systems**

- SmartBuilding Index
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.