

Latitude® Headwall System (P662C)

TECHNICAL DATA SHEET



WITTRock
HEALTHCARE

1. Product Name

Latitude® Arm System (P662C)

2. Manufacturer

WittRock Healthcare
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3. Product Description

The Latitude® Arm System (P662A) is manufactured and provided WittRock, an innovator in medical technologies to enhance the safety and quality of patient care.

BASIC USE

The Latitude Arm System is a floor anchored, suspended system with one or two cantilevered arms. Designed specifically for intensive care units, neonatal intensive care units and emergency departments, it serves as a mobile headwall that allows patient beds, utilities and accessories to be placed in logical and easily accessed positions. It is suited for both new construction and retrofit applications.

The Latitude Arm System combines the flexibility of a ceiling boom with the convenience of a headwall. It is easily configured to best deliver medical gases, electricity and other critical services, with a selection of telescoping or fixed arms and head configurations that can supply up to 20 gas outlets for vacuums, oxygen and medical air. Flexible, well-balanced and easy to move, Latitude adapts to most patient environments and includes an electric braking system that locks the arm and head in place. When not in use, the system docks flatly against the wall for additional space savings.

COMPOSITION & MATERIALS

The Latitude Arm System is comprised of a main support structure with one or two fixed-length or telescoping arms and a selection of 9000 Series or 4000 Series Service Heads. An extensive selection of accessories is available.



Bed Service Chassis

- Provides for up to 8 single-gang electrical boxes for line or low voltage

Main Support Structure

- 3 gases
- Up to 5 gang nurse call

Arms

- 1 or 2 arms are available per system
- Manufactured specifically for use on upper or lower position of the main support structure
- Arms can be fixed length or telescoping; if the system includes only a single arm, the arm must be placed in the upper position of the main structure
- Telescoping arms reach 41.5" (105.4 cm) when retracted and 64" (162.5 cm) when extended
- Fixed length arms reach 41.5" (105.4 cm)
- Both arms have a 190 degree maximum rotation from wall to wall

Service Heads

- 9000 Series and 4000 Series service heads are available, with 330 degree head rotation
- A 9000 Series Service Head on a fixed length arm has 7 2-gang openings and permits up to 9 gas services
- A 9000 Series Service Head on a telescoping arm has 7 2-gang openings and permits up to 7 gas services
- A 4000 Series Service Head on either type of arm has 5 2-gang openings and permits up to 4 gas services

Manifold

- The manifold has a total of 4 air connections, 8 vacuum connections and 5 oxygen connections per system

SIZES

See Table 1.

COLOR, FINISH

The Latitude Arm System is available in a selection of High Pressure Laminate (HPL) colors.

BENEFITS

- Increases access to services, patient and head of bed
- Simplifies organizing and accessing critical medical services
- Adapts to varying acuity levels
- Compact, sturdy design saves floor space
- Quiet electric (versus pneumatic) brakes minimize disturbance and increase safety
- Increased space between outlets simplifies use
- Locks in place to prevent drifting when brake switch is not engaged
- Adjusts for 8' (2.4 m) to 10' (3 m) ceilings
- Provides space above the patient for lighting or lifts
- Up to 88" (223 cm) of GCX style track accommodates a variety of optional accessories, including a monitor
- Available with Hill-Rom track for existing Hill-Rom accessories or optional Fairfield track
- Requires minimal ceiling support structure
- Installs quickly and efficiently

LIMITATIONS

The Latitude Arm System is not for use with flammable anaesthetics and must not be used with oxygen tents; oxygen-administering equipment of the nasal, mask or ventilator type should be used.

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ACCESSORIES

WittRock offers an extensive selection of accessories for the Latitude® Arm System:

Storage

- Universal holders
- Storage baskets
- Rail-mount baskets
- Pivoting baskets
- Swivel shelves

Lighting

- Utility lights

Equipment

- Monitor arm
- Tilt swivel monitor arm
- Utility/bottle
- Bird® Blender mount
- Resuscitator bag holder
- Slide-mounted IV hanger
- Cable organizer
- Transfer pole
- STAT Clock/timer
- Long and short utility post
- Integrated diagnostic system
- Aneroid sphygmomanometer with coil
- Aneroid mount and cuff basket
- Latitude Arm for infusion management device
- Infusion support arm
- Infusion management device rack
- Infusion pump holder
- Infusion management device cart
- Horizontal accessory rail
- Vertical and horizontal cord wrap
- Puritan-Bennett humidifier holder
- Utility mount post

4. Technical Data

APPLICABLE STANDARDS

Canadian Standards Association (CSA)

- CSA C22.1 Canadian Electrical Code, Part I Safety Standard for Electrical Installations
- CAN/CSA Z305.2 Low-Pressure Connecting Assemblies for Medical Gas Systems

National Fire Protection Association (NFPA)

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

Underwriters Laboratories, Inc. (UL)

- UL 723 Surface Burning Characteristics of Building Materials
- UL 1047 Isolated Power System Equipment

TABLE 1 - SIZES

Product	Dimensions	Distance from floor (8' - 85 15/16 ceilings)	Distance from floor (8'6 - 10' ceilings)
Main Support Structure	33" W x 8.5" D, variable height (84 x 21.6 cm)	--	--
Telescoping arm Upper	8" H x 10.5" W x 52" - 74" L (20 x 26.7 x 132 - 188 cm)	86.6" (220 cm) to bottom; 94.3" (239.5 cm) to top	92.6" (235.2 cm) to bottom; 100.3" (254.7 cm) to top
Telescoping arm Lower	8" H x 10.5" W x 52" - 74" L (20 x 26.7 x 132 - 188 cm)	78" (198 cm) to bottom	84" (213 cm) to bottom
Fixed Length arm Lower	8" H x 10.5" W x 52" (20 x 26.7 x 132 - 188 cm)	78" (198 cm) to bottom	84" (213 cm) to bottom
9000 Series Service Head	46.25" H x 13.25" W x 14.25" D (117.5 x 33.7 x 36.2 cm)	29" - 31" (74 - 79 cm) to bottom	29" - 31" (74 - 79 cm) to bottom
4000 Series Service Head	26.5" H x 13.25" W x 14.25" D (67.3 x 33.7 x 36.2 cm)	49" - 51" (124 - 130 cm) to bottom	49" - 51" (124 - 130 cm) to bottom
Lower bearing Cover	--	67.375" (171.13 cm) to bottom edge	73.375" (186.37 cm) to bottom edge

TABLE 2 - TECHNICAL DATA

Feature	4000 Series		9000 Series	
	Telescoping or Fixed	Telescoping	Telescoping	Fixed
Gas services	Up to 4 (any mix of oxygen, air or vacuum)	Up to 7 (with a maximum of 4 vacuum, 2 oxygen or air)	Up to 9 (with a maximum of 6 vacuum, 3 oxygen or air)	
Electric	2 duplex	8 duplex	10 duplex	
Data port	4	4	4	
Nurse call/CB switch	1 or 2 gang	1 or 2 gang	1 or 2 gang	
AP track	4 vertical	4 vertical	4 vertical	
GX style track	29.75" (75.5 cm)	46.25" (117.5 cm)	46.25" (117.5 cm)	
Hill-Rom style track	119" (3 m)	185" (4.7 m)	185" (4.7 m)	
Net payload - Total weight of options and equipment	119 lb (54 kg)	230 lb (104 kg)	302 lb (136 kg)	
Gross weight				
Single arm system	Maximum 875 lb (397 kg)	Maximum 875 lb (397 kg)	Maximum 875 lb (397 kg)	Maximum 875 lb (397 kg)
Dual arm system	Maximum 1275 lb (578 kg)	Maximum 1275 lb (578 kg)	Maximum 1275 lb (578 kg)	Maximum 1275 lb (578 kg)

APPROVALS

- Complies with seismic requirements of the California Building Code (CBC), Chapter 16, Section 1632A
- Complies with seismic requirements of International Building Code (IBC), Chapter 16, Section 1621
- UL listed by Underwriters Laboratory Inc., Files E87763 and E55597

TECHNICAL PROPERTIES

See Table 2.

FIRE PERFORMANCE

The Latitude Arm System meets UL fire performance requirements.

5. Installation

PREPARATORY WORK

The Latitude® Arm System is flexible in function, as well as form, and will install quickly and easily. Before beginning, consider the following:

Architectural Considerations

- Room layout
- Floor-to-ceiling clearance
- Above-ceiling clearance
- Floor load-bearing strength
- Above-ceiling strength

Electrical and Gas Considerations

- Junction box location
- Gas manifold location

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Articulation Range

For maximum maneuverability, the distance from the center of the main support structure to the outer edge of the service head should be kept free of obstacles.

Ceiling Height Requirements

The Latitude® Arm System can be used where ceiling heights are 8' - 10' (2.4 - 3 m).

Structural Requirements

Before delivery and installation, the medical facility must supply a ceiling and floor structure able to sustain the load requirement and clearances for the wall arm. The structural support system must be designed by a certified structural engineer.

The rough-in plate of the Latitude Arm System is unique and is not compatible with other mounting systems.

Preparation of the contractor-installed system is critical to the smooth operation of the Latitude Arm System.

Dock Requirements

For delivery, the dock must have a dock plate suitable for unloading a 600 lb (272 kg) crate from a standard trailer with a 48" (122 cm) deck. For construction sites without a dock, a forklift must be available to unload a 600 lb (272 kg) crate from the rear of a covered trailer.

The Latitude Arm System is shipped in a crate, with protective, corrugated paper end caps. Delivery is the responsibility of WittRock .

STORAGE

Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by WittRock. The temperature range for transport and storage is -40 to 158 degrees F (-40 to 70 degrees C), with 10% - 95% non-condensing relative humidity.

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

METHODS

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

BUILDING CODES

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

6. Availability & Cost

AVAILABILITY

WittRock products are available in the U.S., Canada and Puerto Rico, direct from the manufacturer. Contact WittRock. for information concerning local availability.

COST

Cost information may be obtained from the manufacturer.

7. Warranty

WittRock offers a general 1-year limited warranty against defects in material and workmanship. Complete warranty terms and conditions are available from the manufacturer. For details, consult WittRock.

8. Maintenance

WittRock recommends an annual service check for the Latitude Arm System.

9. Technical Services

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

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