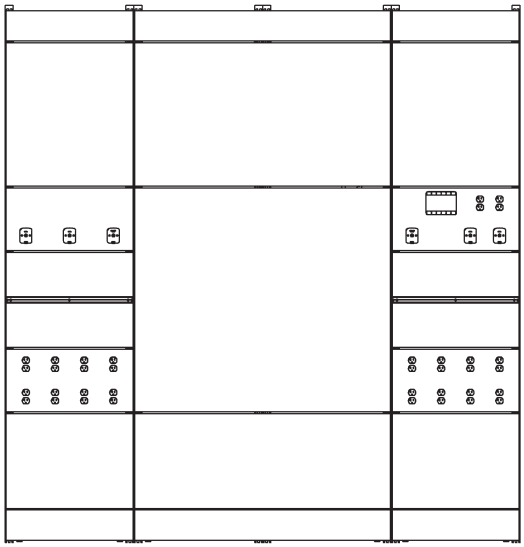
Elements® Headwall System (P2008A)

TECHNICAL DATA SHEET

Figure 1. Elements® Headwall System



PURPOSE

The Elements® Headwall System (P2008A) supplies a configurable modular headwall system that is designed with various widths and depths to allow the facility to customize its headwall construction in accordance with the specific needs of the individual patient environment and the facility architecture.

Standards

The Elements® Headwall System meets all national, state, and local codes and these:

- American National Standards Institute®[1] (ANSI®)/Underwriters Laboratories®[2] (UL)—ANSI/UL 514A: *Metallic Outlet Boxes*
- American Society of Mechanical Engineers®[3] (ASME®)—ASME B16.22: *Wrought Copper and Copper Alloy Solder Joint Pressure Fittings*
- American Standard Test Method®[4] International (ASTM®)—ASTM E90: *Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements* and ASTM E413: *Classification for Rating Sound Transmission*
- Compressed Gas Association (CGA®[5])—CGA G4.1: *Cleaning Equipment for Oxygen Service* and CGA V-5: *Diameter Index Safety System (Non-Interchangeable Low Pressure Connections for Medical Gas Applications)*
- National Fire Protection Association®[6] (NFPA)—NFPA 99: *Heath Care Facilities* and NFPA 70: *National Electrical Code*® (NEC®)
- Underwriters Laboratories Inc.® (UL)—UL 1047: *Isolated Power Systems Equipment*

Description

The Elements® Headwall System improves functionality in the patient hospital rooms and aids to create a comfortable environment for healing. Communication, electrical, and medical gas services are integrated in the system and are customized to meet the needs of the clinicians and patients in accordance with the facility preferences and requirements.

WARNING:
Do not install the in-wall product in positive- or negative-pressure rooms, fire or smoke rated walls, and/or load bearing walls. Injury or equipment damage could occur.

1. American National Standards Institute® and ANSI® are registered trademarks of American National Standards Institute.
2. Underwriters Laboratories Inc.® is a registered trademark of Underwriters Laboratories Inc.
3. American Society of Mechanical Engineers® and ASME® are registered trademarks of The American Society of Mechanical Engineers.
4. American Society for Testing and Materials® and ASTM® are registered trademarks of American Society for Testing and Materials.
5. CGA® is a registered trademark of Compressed Gas Association, Inc.
6. National Fire Protection Association®, National Electrical Code®, and NEC® are registered trademarks of National Fire Protection Association, Inc.

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The Elements® Headwall System is designed to be configured into vertical "zones" through a specified arrangement of service panels and access panels. However, the system can be configured in various widths as single or double units. These "zones" are described as follows:

- **Patient zone**—located in the center of the headwall system.
- **Caregiver zone** (clinical zones 1 and 2) — usually arranged on both sides of the patient zone.
- **Staff zone**—usually located closest to the room entrance.
- **Family zone**—usually located farthest from the room entrance.

The Elements® Headwall System can be mounted on the finished wall surface or installed in the wall as part of the framed stud wall.

- Surface mounted depth is 4 1/2" (11.43 cm) from the finished wall.
- In-wall installation is available with 3 5/8" (9.21 cm) or 6" (15 cm) frame depth.
- Wall structure payload per vertical section is 1150 lbs (68 kg) maximum. The load capacity varies with the product configuration.

The width of the headwall module will depend upon the service and access panel options selected for the system. The various widths allow the headwall to be configured to match the patient room size requirements. The two depths allow the modules to be mounted as in-wall, back-to-back, or surface mounted systems.

The in-wall mounted headwall system is flush mounted with the room walls. The module widths are specified as the desired combined width options of the service and access panels and are 6" (15 cm) or 3 5/8" (9.21 cm) deep. Any combination of widths may be configured as necessary to meet the specific facility requirements.

The back-to-back in-wall mounted headwall system is used to accommodate two rooms that are adjacent to each other and share the facility electrical and medical gas connections. The module widths are specified as the desired combined width options of the service and access panels and are 6" (15 cm) deep. Any combination of widths may be configured as necessary to meet the specific facility requirements. However, both rooms must have the same back-to-back widths installed.

The surface mounted headwall system is mounted on the surface of an existing wall. The module widths are specified as the desired combined width options of the service and access panels and are 3 5/8" (9.21 cm) deep. Any combination of widths may be configured as necessary to meet the specific facility requirements.

The frame assemblies and panels use concealed fasteners that enable panel removal/replacement. Removable extrusion inserts seal the horizontal and vertical space between adjoining panels. Two standard and an available narrow insert can be used to create different design effects:

- 3/8" (10 mm) wide, flush concave profile in black or aluminum finish—horizontal and vertical.
- 3/8" (10 mm) wide, protruding profile in black or aluminum finish—horizontal and vertical.
- 1/8" (3 mm) narrow, vertical only, in black or aluminum finish—to minimize vertical seam.

The framework of the Elements® Headwall System is manufactured from 16-gauge, roll formed galvanized steel channels.

The Elements® Headwall System height options are available in 6" (15 cm) increments from minimum to maximum height for surface mounted units:

- Minimum height 48" (122 cm)
- Maximum height 120" (305 cm)

The Elements® Headwall System height options are available in three heights for recess mounted units:

- 96" (244 cm)
- 108" (274 cm)
- 120" (305 cm)

The recommended height for clinical services is within the ergonomic reach range of 18" (46 cm) to 72" (183 cm).

The system electrical J box supports normal, emergency/critical power, and low voltage. The gas manifold provides five ports and ten outlets each for oxygen and air. In addition, six ports and six outlets are provided for vacuum. More manifolds can be added to increase capacity.

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The Elements® Headwall System is available in various service panel and access panel widths and heights. Panel widths are based on 8" (20 cm) increments and heights are based on 6" (15 cm) increments.

The service panels contain outlets, switches and other devices such as medical gas connections. These panels are made from 16-gauge steel and are finished with HPL. The service panel size should be determined by the loading of specified services and medical devices to be installed. The service panels are available as follows:

- Width—16" (41 cm), 24" (61 cm), 32" (81 cm)
- Height—6" (15 cm), 12" (30 cm), 18" (46 cm), 24" (61 cm), 30" (76 cm), 36" (91 cm)

The recommended vertical and horizontal spacing of specified services and medical devices that will be connected is as follows:

- Rows of outlets or devices—6" (15 cm) vertical
- In-line gas outlets—18" (46 cm) vertical
- Gas outlets—4 1/2" (11.43 cm) horizontal
- Electrical devices—1 7/8" (4.60 cm) horizontal

Devices can be placed in service panels on 3" (7.6 cm) increment levels. However, there must be 6" (15 cm) between each adjacent row from centerline to centerline.

Access panels are blank with no services. These panels are edge banded and made of particle board with HPL finish on front and back. They are available as follows:

- Width—16" (41 cm), 24" (61 cm), 32" (81 cm), 48" (122 cm)

Two 32" (81 cm) panels may be combined in the center panel to provide a maximum of 64" (163 cm) bariatric bed width.

- Height—6" (15 cm), 12" (30 cm), 18" (46 cm), 24" (61 cm), 30" (76 cm), 36" (91 cm), 42" (107 cm)

Selection of the Elements® Headwall System (P2008A) side panels (height and width) should be based on equipment and service loading. Selection of the center panels should be based on the bed width, locator, or bumper considerations.

Headwall Accessories

The Elements® Headwall System (P2008A) has these accessories:

Part Number	Description
P101702	Waste receptacle
P158A	ISS transfer pole
P17000101	ISS transfer pole mount
P17000202	IV pole/infusion holder
P17000601	Universal holder
P17000701	Universal pole holder
P17001001	IV holder
P17010102	Basket - stackable
P17010202	Basket
P17010302	Basket
P17010402	Basket
P17010501	Basket - pivoting
P17011101	Chart holder
P17012001	Sharps container mount
P17012002	Sharps container
P17013001	Glove box holder
P17020101	Utility shelf
P17020201	Charting shelf
P17020301	Small mayo tray
P17020401	Large mayo tray
P17030501	Utility light
P17030701	Universal light mount
P17040201	Integrated diagnostic system - 747
P17040401	Speculum mount
P17041801	Utility hook
P17044001	Stat Clock Timer
P17050402	Satellite rack mount
P17070101	Standard slide adapter
P17070201	Bird®[a] blender slide
P17071001	Dual clip assembly
P17072001	Cable organizer
P17073001	Vertical Cord Wrap
P17073101	Horizontal cord wrap

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P17074001	Standard cam adapter
P17090108	Gas outlet guards
P17090112	Gas outlet guards
P17090116	Gas outlet guards
P17090120	Gas outlet guards
P17090124	Gas outlet guards
P17090128	Gas outlet guards
P17090132	Gas outlet guards
P17090136	Gas outlet guards
P17090140	Gas outlet guards
P53301021000	Shelf
P53301051000	Shelf
P53311030000	Cuff basket with mount
P53321207000	Glove box holder
P53321210000	Integrated diagnostic system - 767
P5332123000	Blood pressure gauge mount
P53340001000	Blood pressure gauge
P54000863000	Blood pressure gauge mount
P962-00	Tilt swivel arm
P963C01	Arm lamp with incandescent bulb
P7925D120W	Prima Procedural Light
P967B00	STAT clock - timer, panel mount
P978-01	Aneroid sphygmomanometer with coil and standard size cuff
P997L00	Monitor arm
P997L004	Monitor arm
P53321121000	Resuscitator holder
P17030202	Procedural light mount, Integris®

a. Bird® is a registered trademark of Bird Products Corporation.

Design Requirements

- Each Elements® Headwall System module is fully functional as an independent unit.
- Facility rough-in requirements are accomplished by contractors in accordance with the as-built drawings and specifications.
- Each headwall module is customized to meet the facility room environmental requirements.
- Each headwall module will be configured in accordance with the latest national, state or provincial, and local codes.
- Duplex and simplex sockets are NEMA®[1] style, hospital grade,[2] Underwriters Laboratories Inc.®[3] (UL)-listed (RTRT), and rated at 125 V AC.
- Vacuum service tubes are copper and meet the ASTM B-819; 0.75" ID requirements.
- Oxygen/air service tubes are copper and meet ASTM B-819; 0.5" ID requirements.
- Gas service systems are assembled and tested in accordance with NFPA 99.
- Gas terminal outlets are UL-listed (VXHT). The outlets are available in quick-disconnect or DISS, which conforms to the CGA V-5:2005: *Non-Interchangeable Low Pressure Connection for Medical Gas Applications Standard*.

Components per Headwall

Each headwall module is configured and shipped as specified on the original order. Options are pre-installed by WittRock.

Electrical System

Each module may be configured with 120, 240, and/or 277 V AC; 60 Hz electrical service, and up to 30 A per branch circuit.

1. NEMA® is a registered trademark of National Electrical Manufacturers Association, Inc.
2. Hospital grade is indicated by a green dot on the face of the outlet.
3. Underwriters Laboratories Inc.® is a registered trademark of Underwriters Laboratories Inc.

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Quality Assurance

The Elements® Headwall System (P2008A) meets all applicable current NFPA 99 and NFPA 70 standards and conforms to all national, state, and local codes.

Installation and Maintenance

All headwall modules are pre-assembled with the specified options installed at the factory. The contractor will install all modules in accordance with as-built drawings and all national, state, and local codes.

Service

For a list of service parts available for the Elements® Headwall System, refer to the *Elements® Headwall System Operation and Maintenance Manual* (155482).

Submittals

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

The Elements® Headwall System (P2008A) manufacturer shall send—within 30 days of contract award—complete detailed shop drawings that detail items in plan and elevation. Drawings shall detail the dimensions and interface to the related services, which require to be cut or close fitted.

Item fabrication shall not be started until complete final approvals are received.

The Elements® Headwall System (P2008A) manufacturer shall supply physical samples only if specifically asked, and the cost of same has been negotiated.

The color of HPL shall be selected by the architect or customer from the manufacturer's standard line. The manufacturer shall supply color charts.

The manufacturer reserves the right to furnish the Elements® Headwall System (P2008A) and its related components with improvements in design and/or materials at the time of manufacture.

Warranty

Refer to the operation and maintenance manual for the warranty (see Elements® *Headwall System Operation and Maintenance Manual* (155482)).

Product Numbers

You can order the Elements® Headwall System (P2008A) in three module widths and two module depths. For more information, call WittRock customer service.

Table 1. Elements® Headwall System

Product Number	Description
P2008A1	Elements® Headwall System—Floor-Standing In-Wall Model Series
P2008A2	Elements® Headwall System—Floor-Standing Surface-Mount Model Series
P2008A3	Elements® Headwall System—Back-to-Back In-Wall Model Series
P2008A5	Elements® Headwall System—Floor-Standing In-Wall Surface-Mount Mix Series

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