

# Wedge Neonatal Care System Specifications

**WEDGE NEONATAL** unit shall be manufactured by Hospital Systems, Inc. Pittsburg CA 94565 USA, in accordance with shop drawings and documents. The following is a general specification, and components listed may not be present or required in final product.

The WEDGE NEONATAL 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). HSI manufactures all products in accordance with the National Fire Protection Association (NFPA), NFPA-99 (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.

## 1. Submittals and Approvals

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 WEDGE NEONATAL. Drawings of Record will be produced, and emailed at the time of shipment, upon request. HSI will manufacture equipment as per signed approval drawings and verification documents, which are provided in the job specific submittal package.

## 2. Basic Construction

Enclosure shall be constructed of extruded, heat-treated, anodized aluminum alloy sections to provide a floor-supported unit. Units shall be factory assembled to include mechanical and electrical components as shown on the plans and specifications, and wired in accordance with HSI shop drawings. Anodized aluminum fascias shall be removable for access to individual components mounted within the console sections of the WEDGE NEONATAL. Device cover plates shall be constructed of clear anodized aluminum. Primary electrical conduit runs to the unit are provided by the electrical contractor and shall be accommodated by an upper terminal enclosure furnished as an integral part of the WEDGE NEONATAL. All secondary wiring within the WEDGE NEONATAL shall be enclosed in fixed conduit or raceways, and terminate in the upper terminal enclosure. All wiring shall be marked, color-coded and tie wrapped to facilitate easy circuit identification. Removable, Spectrum Duracore™ fire-retardant panels shall be finished with high-pressure plastic laminate on the outside face and a fire retardant backing sheet on the reverse. The color of the laminate shall be selected by the hospital or architect from HSI standard colors. Cabinetry units will be constructed of plywood finished with high impact plastic laminate. Counter-tops shall be of Spectrum Duracore™ finished with high impact plastic laminate. Laminate color to be selected by owner from HSI, standard offerings. Cabinetry units shall be as shown on shop drawings.

## 3. Components

### **A. 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 thermo-plastic insulation for hot (black) and neutral (white). Grounds shall be #10 type THHN stranded copper wire (green).

100% USA Manufactured

Union Made

12 Year Product Warranty

All specifications are nominal and subject to change without notice. Hospital Systems, Inc. makes no warranty, expressed or implied, except for the express written warranty extended on the sale of its products.

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### **3. Components Cont.**

#### **SECONDARY CIRCUIT BREAKERS [OPTIONAL]**

UL listed breakers as indicated on the drawings shall provide circuit protection. The panel containing secondary circuit breakers shall feature a door with concealed hinges for access to circuit breaker handles.

#### **INTERNAL GROUND BUS**

A ground bus shall be included.

#### **ELECTRICAL RECEPTACLES**

Receptacles shall be the type and quantity as shown on the drawings and specified. Unless otherwise noted 2 pole, 3 wire, rated at 20 amps, 120 Volt, Hospital Grade shall be provided. Also available: BS, DIN, and others.

- **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 access to energized contacts.
- **Locking receptacles** (if required) shall be simplex type, 20 amp, 120 or 277 volt, color black.

#### **GROUNDING JACKS**

Externally accessible grounding jacks shall be provided in the WEDGE NEONATAL as shown in these shop drawings. The solid brass receptacle shall be enclosed in a non-conductive housing and shall be spring loaded, with a twist-to-lock action and shall be manufactured to the requirements of NEC article 517, and NFPA 99.

#### **SWITCHING**

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

#### **REACT™ CLOCK TIMER**

When indicated on the drawings, a HSI React Clock Timer shall be provided and factory installed in the WEDGE NEONATAL unit. The circuitry shall allow the activation of the elapsed time indicator by manually depressing the "Start" switch, or by a patient ventricular alarm condition broadcast through the bedside physiological monitor. Manually operated "Stop/Start", "Reset", and "Mode" switches are also provided and pre-wired within the React unit. The installing contractor shall perform wiring and electrical actuation between the monitor and the React unit.

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### **3. Components Cont.**

#### **Med Gas**

##### **MEDICAL GAS PIPING**

Oxygen, vacuum, medical air, evacuation, and nitrous oxide outlets shall be as indicated in plans and specifications. All outlets will be installed by HSI at the factory, manifolded and tested in accordance with the station outlet manufacturers' requirements. 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. The mechanical contractor will bring the primary supply lines of the medical gases to the singular terminal connections at locations shown on the drawings.

#### **C. Lighting (Optional)**

##### **HORIZON-8™ LIGHTING FIXTURE**

When indicated on the drawings, the overbed lighting fixture shall be provided complete with plastic laminate trim color to match the WEDGE NEONATAL unit. Lamps provided by others.

##### **AURORA™ LIGHTING FIXTURE**

When indicated on the drawings, the overbed safety lighting fixture shall be provided. Lamps are provided by others.

##### **AMADEA LIGHTING FIXTURE**

When indicated on the drawings, the high end overbed lighting fixture shall be provided. Lamps are provided by others.

##### **MULTI-FUNCTION CEILING LIGHT**

When indicated on the drawings, a ceiling mounted multi-function lighting fixture shall be provided. Lamps are provided by others.

**QUALUX™ LED or HALOGEN EXAMINATION FIXTURE.** When indicated on the drawings, the HSI Qualux fixture shall be provided and a suitable mounting bracket installed on the WEDGE NEONATAL unit where indicated on the shop drawings. The bracket shall be mounted adjacent to the power outlet appropriate for the Qualux fixture type indicated on the shop drawings.

#### **D. Provisions**

##### **NURSE CALL EQUIPMENT**

All nurse call equipment shall be furnished and installed by others as indicated in the plans and specifications. A labeled pull-cord shall be provided by HSI for use by the nurse call installer.

##### **MONITORING EQUIPMENT**

Monitor equipment shall be provided and installed by others. HSI shall provide a matching blank plate for the monitor receptacle to the monitor supplier when requested. The WEDGE NEONATAL unit will include a factory installed raceway and labeled pull cord to accommodate the monitor wiring. Where specified a monitor slide and optional pivot/tilt arm shall be provided to support the physiological monitor.

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### **3. Components Cont.**

#### **COMPUTER INTERCONNECT**

A computer system furnished by others shall be installed at locations as shown on the plans and specifications. HSI shall provide a matching blank plate for the computer jack when requested. The WEDGE NEONATAL unit will include a factory installed raceway and labeled pull cord to accommodate the computer system wiring.

#### **E. Integrated Accessory Rails**

The WEDGE NEONATAL has eight (8) vertical accessory tracks, which are integrated into the aluminum extrusion assembly. The accessory channels are clear etched anodized.

#### **UNIMOUNT VERTICAL TRACK**

Unimount™ Accessories shall be provided in the quantities and types as shown in the submittal. Unimount accessories shall be installed by others in the locations as determined by the end user group. Unimount accessories shall be attached using patented Unimount brackets. [Patent #4,725,030]

### **4. Installation**

HSI shall supply a ceiling mounting plate pre-punched for building service connections. Ceiling mounting plate will be supplied in advance of headwall units for pre-installation of electrical and medical gas services. Ceiling mounting plate shall be furnished with instructions. Hardware is to be furnished by the installer or contractor. The installer or contractor shall install ceiling mounting plate, remove upper service panel of headwall module, attach headwall to ceiling mounting plate, and install mounting brackets. Hardware to mount the headwall to the mounting bracket shall be provided by the installing contractor to meet local requirements. Instructions shall be furnished by HSI. The installer or contractor shall furnish and install conduit to ceiling mounting plate with wiring and shall make connection of building services to pre-wired junction box as shown on the electrical drawings and as herein specified. Customer shall coordinate with HSI for equipment supplied by others to ensure compatibility of this equipment with the headwall. The installer or contractor shall provide primary connections to the medical gas system in the access area of headwall unit as detailed on drawings. It shall be the responsibility of the mechanical contractor to perform and certify all pressure tests as required by NFPA 99, and to install the gas outlet finishing assemblies. Please refer to the installation instructions for further details.

### **5. Ordering Information**

All HSI headwalls are Build-to-Order and will be assigned their own unique model numbers during the submittal phase.

Please visit our website at [www.HSIheadwalls.com](http://www.HSIheadwalls.com) for the contact information of your local sales representative.

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