



SPECIFICATIONS

H CORE®

Section 11731

Medical In-wall Headwall Systems

PART 1 GENERAL

1.01 Summary

A. Section Includes: Factory-built Medical Gas and Electrical Headwall Systems that install inside the building partitions.

1.02 Related Sections:

1. Section 09110 Non-Load Bearing Metal Framing
2. Section 09260 Gypsum Board Systems
3. Division 15 Mechanical
4. Division 16 Electrical

1.03 Submittals

Submittals shall be provided and are to include product specifications which detail the construction of the units, medical gas outlets and manifolding, electrical devices and wiring, and provisions for equipment by others.

PART 2 PRODUCTS

2.01 Manufacturer

H Core® is manufactured by Modular Services Company located in Oklahoma City, OK.

2.02 Description

H Core® is a UL-listed Medical Gas and Electrical Service assembly that installs inside the hospital building wall prior to the installation of the gypsum wall board. Each unit shall include medical gas and electrical services as shown on the contract drawing.

2.03 Frame Construction

The H Core will consist of 16-gauge metal studs with a device mounting panel attached to the studs. Additional horizontal headers will be provided, as required. Each unit will include junction boxes for normal, emergency, and low-voltage services for connection of respective electrical services to the hospital electrical system and will be located as indicated on project drawings. Medical gas piping will be provided as indicated on project drawings. The dimensions of the unit will be determined during the submittal review process.

2.04 Medical Gases

The location and the quantity of medical gases will meet the configuration of services detailed on the project specific drawings and in the submittal. The medical gas outlets will be installed in the unit prior to shipment. Medical gas outlets will be pre-manifolded with Type L medical copper tubing. All tubings and fittings prior to manifolding will be cleaned, rinsed and dried in accordance with NFPA 99. All joints will be made with a silver brazing alloy with a melting point of at least 1000 degrees. Tubing ends will be securely capped and properly identified. To prevent galvanic corrosion, all copper tubing will be protected from contact with dissimilar metals. The medical gas system will be tested per NFPA 99 recommendations prior to shipment. The manufacturer of the medical gas outlets and the type of indexing method will be determined during the submittal process. Final medical gas connections to the hospital and system certification shall be made by others per NFPA, NEC and state and local codes.

2.05 Electrical Services

The electrical services will consist of normal, emergency and low-voltage devices. Each of these powers will be separated from each other by means of barriered compartments or individual back boxes. The location and the quantity of electrical services will meet the configuration of services detailed on the project specific drawings and in the submittal. The electrical devices will be installed in the H Core with the appropriate plaster/adjustment ring based on the final wall finish depth and material. Each normal and emergency electrical device will be wired and circuited at the factory to information provided and reviewed/approved during the submittal process. Wiring: Line voltage carrying conductors will be type THHN stranded copper for normal and emergency power circuits. All wiring will comply with NFPA 70 as minimum standards. Also, all electrical components will be UL listed. A copper ground bus will be provided in the service connection compartment that will accept #6 to #14 AWG grounding conductors. All power receptacles will have a #10 copper ground conductor attached to the ground screw of the receptacle and the ground wire tie point to ensure that the structure is not used as the sole ground path between the power receptacles and the ground bus. Additional buses within the unit are provided as necessary for ground wire tie points. Hospital-grade power receptacles, ground jacks, switches, etc. are to be installed as indicated on the project drawings. Provisions for low voltage communication devices consist of back boxes or barriered compartments. Communications devices and wiring are to be supplied and installed by others. These devices include nurse call, television, code blue, telephone, monitor jacks, etc. Raceways as appropriate will be provided to the junction boxes. Faceplates can be provided to match the color of the receptacle. If required, the face plates can be factory engraved. Final electrical connections and testing shall be made by others.

PART 3 EXECUTION

3.01 Installation

Mounting of this product shall be the responsibility of this section. This includes receiving, storage, erection, clean up, touch-up, carton disposal, etc. All necessary installation materials shall be supplied by the installing contractor.

3.02 Coordination

A. Electrical Contractor

The electrical contractor shall be responsible for all electrical hook-up at service connection locations plus inter-connect wiring on multi-section units. After the installation is complete, the electrical contractor shall test equipment function plus electrical receptacles and grounding in accordance with NFPA requirements.

B. Medical Gas Contractor

The medical gas contractor shall be responsible for piping and hook-up of all medical gas services. In addition, hook-up of piping between sections on multi-section units shall be the responsibility of the contractor. The medical gas contractor shall be responsible for purging, pressure testing, gas identification and system certification in accordance with NFPA 99.

C. Additional

Installation of the electrical device cover plates and medical gas front bodies after drywall and paint (by contractor) shall be the responsibility of others at jobsite.



MODULAR
SERVICES COMPANY

500 E. Britton Rd. • Oklahoma City, OK 73114

Tel: 800.687.0938 • Fax: 405.528.0368

www.modularservices.com

info@modularservices.com