

AORTA SYSTEM

The operating room(s) and surgical suite(s) shall incorporate the Anemostat AORTA contaminant control air distribution system consisting of Model MVC perimeter air curtains encompassing central laminar flow panels, model MV-1 or MV-2, sizes as scheduled. The system design shall be flexible to maintain the design air flow rates to the space, while maintaining the proper proportion of air to the perimeter curtains and central laminar flow panels. The air distribution system shall create a clean work envelope within the perimeter air curtains to effectively remove particles and reduce risk of surgical site infections.

Anemostat Model MVC air curtain diffusers shall be located and sized to form a contiguous perimeter air curtain with minimum terminal velocities of 50 fpm at a throw distance equal to the approximate height of the operating table. The air curtain discharge direction shall be approximately at a 10° angle outward from the central work space. Supply air inlets shall be located on the (top)(side) of the diffusers as shown on the plans. Volume balancing dampers shall be located upstream of the curtain diffusers, at the duct take-off, to minimize space sound levels. The curtain diffusers shall incorporate a flat, non-aspirating face flush to the ceiling or mounting surface. The diffuser shall be of the (surface mounting type) (lay-in inverted tee bar type), and shall be fully assembled at the factory consisting of a hinged removable

face and back pan/plenum assembly, including gaskets. The diffuser face shall be hinged to the diffuser back pan and attached to the back pan in the plane of the ceiling with 1/4 turn quick lock fasteners. Stainless steel safety cables shall prevent the face from falling during face removal.

Anemostat Multi-Vent Model MV-1 or MV-2 Laminar Flow Ceiling Panels shall be centrally installed where shown on the drawings, and shall integrate with the ceiling type shown. The non-aspirating laminar flow panels shall be located within the perimeter air curtain to provide a column of clean air at the location most critical for the space.

The air curtain diffusers and laminar flow panels shall be similarly constructed from steel, stainless steel, or aluminum as indicated.

The finish of the perforated face shall be (Arctic White baked-on epoxy) (304 stainless steel - #4 satin polish). The finish of the backpan / plenum assembly shall be (Arctic White baked-on epoxy) (304 stainless steel - mill finish).

