

Now In Production

July 11th 2005



Lehigh Valley Eye Surgery, Bethlehem, PA

A 40 ton custom unit for an operating room.

Representative : Metz Inc. 2211 Lehigh Street, Easton, PA 18043

Sam Gelfo, Jon Flem, Phone 610-253-9677

“ There are seven principle divisions of an acute care general hospital: (1) surgery and critical care, (2) nursing, (3) ancillary, (4) administration, (5) diagnostic and treatment, (6) sterilizing and supply, and (7) service.

No area of the hospital requires more careful control of the aseptic condition of the environment than the surgical suite.

Operating room suites are typically in use no more than 8 to 12 hours per day for energy conservation. The air conditioning system should allow a reduction in air supplied to some or all of the operating rooms when possible. Positive space pressure must be maintained at reduced air volumes to ensure sterile conditions. The temperature and relative humidity set points should be adjustable by surgical staff. The system should be capable of maintaining space temperature of 62 deg F”. ASHRAE Applications Handbook.

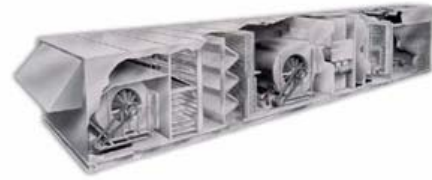
Above are a few important principles required for designing a system for an operating room ,and below is the Lehigh Valley Eye Surgery Unit.



4500 Industrial Access Road Douglasville, GA 770-489-0716 P ; 770-489-2938 F ; www.seasons4.net

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483,149 BTUH cooling, 400,000 input natural gas heating, 12,800 CFM airflow.

EAT 79/65.7 deg F, LAT 53.7/53.0.

EER 11.0

4 Scroll compressors.

Aluminum checker plate on floor of entire unit.

Plenum supply and return air fans.

Variable Frequency Drives on supply and return air fans to maintain positive pressure.

Supply and return sound attenuators.

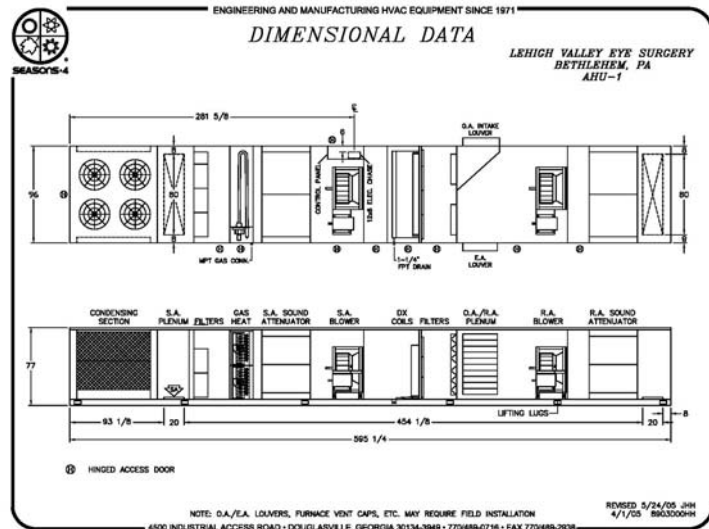
2" 30% and 12" 95% filters.

Air flow measuring station.

Stainless steel heat exchangers.

Return air smoke detector.

DDC temperature and pressure control system.



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