DATE OF THIS VERSION:
March 1, 2020

TITLE OF DOCUMENT:
VA HVAC Design Manual

DATE OF VERSION BEING SUPERSEDED (old):
November 1, 2017

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):
This update includes minor edits throughout the manual.

SUMMARY OF CHANGES IN THIS VERSION:

Table of Contents – Changes:
3.6
  • Updated the title of this section.

Chapter 2 – Changes:
2.2.4.3
  • Replaced “VAV box” with “air terminal boxes”.

Chapter 3 – Changes:
Chapter 3: Table of Contents:
  • 3.6 – Replaced “HEAT” with “ENERGY”.
  • 3.6.4 - Replaced “HEAT” with “ENERGY”.
3.1
• Replaced “Heat” with “Energy”.

3.2.3.2
• Clarified the required components for medium pressure constant volume systems.

3.5.1
• Replaced “heat” with “energy”.

3.6.2.2
• Added fixed membrane heat exchanger as allowable sensible and latent heat transfer device.

3.6
• Replaced “HEAT” and “heat” with “ENERGY” and “energy”, respectively.

3.6.1.1
• Reworded “Runaround” to “Run-around”.

3.6.2.1
• Replaced “heat” with “energy”.

3.6.3
• Replaced “heat” with “energy”.

3.6.4
• Replaced “HEAT” and “heat” with “ENERGY” and “energy”, respectively.
• Replaced “not permitted” with “prohibited”.
• Added Sterile Processing Service (SPS) and Pharmacy Department Exhausts to the list of systems for which use of energy recovery systems are prohibited.
• Further clarified application of energy recovery systems.

3.7.1.2
• Provided further clarification on ductwork and equipment in surgery and pharmacy applications.

3.10.4.2 (l)
• Replaced “Heat” with “Energy”.

Chapter 4 – Changes:
4.2.1.2 (a)
• Replace “heat” with “energy”.

APPENDIX 4-A:
4-A.1
• Reword “wrap around loop heat recovery” to “run-around energy recovery”.
4-A.1.1 (d)
• Reword “Wrap Around Loop” and “Heat Recovery” to “Run-around Loop” and “Energy Recovery”, respectively.

Chapter 5 – Changes:

5.7.2.1 (m)
• Replace “Heat” and “heat” with “Energy” and “energy”, respectively.

5.8
• Replace “heat” with “energy”.

Chapter 6 – Changes:

Chapter 6 Table of Contents:
• 6.4.4 - Change the title to “ROOM DATA SHEET CLARIFICATIONS”.

6.2
• Replace “Heat” with “Energy”.
• Added a paragraph to relax of the requirements for dedicated air handling units in smaller facilities.

6.4.2.1 b
• Provided further clarification on the design intent.

6.4.2.1 h
• Corrected a minor typo.

6.4.2.2 e
• Removed the last sentence and provided a new sentence to clarify the requirements for CV terminal units.

6.4.4
• Replaced the entire paragraph to include all the room air designations used in the room data sheets.
• Provided clarification on Minimum Outside Air.
• Provided clarification on the use of Differential Pressure Monitoring Devices.

DEDICATED AHU SYSTEM DATA SHEETS AND ROOM DATA SHEETS:
• Provided minor update to all AHU Data Sheets.
• Provided minor updates to the Room Data Sheets for the following medical departments:
  o CENTRAL LAUNDRY FACILITY
  o DIGESTIVE DISEASES ENDOSCOPY SUITE
  o INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT
  o NURSING WING
- PATIENT EXAMINATION, TREATMENT, AND PROCEDURE ROOMS
- PHARMACY SERVICE
- PULMONARY MEDICINE SERVICE
- SPINAL CORD INJURY/DISORDERS CENTER
- STERILE PROCESSING SERVICE
- SURGICAL SUITE