

Summary of Modifications/Changes in this Update

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It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

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DATE OF VERSION BEING SUPERSEDED (old):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 (I)

- 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:
 - CENTRAL LAUNDRY FACILITY
 - DIGESTIVE DISEASES ENDOSCOPY SUITE
 - INFECTIOUS ISOLATION AND PROTECTIVE ENVIRONMENT
 - NURSING WING

- PATIENT EXAMINATION, TREATMENT, AND PROCEDURE ROOMS
- PHARMACY SERVICE
- PULMONARY MEDICINE SERVICE
- SPINAL CORD INJURY/DISORDERS CENTER
- STERILE PROCESSING SERVICE
- SURGICAL SUITE