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As these codes are applied to many HVAC systems used in the pharmaceutical industry, they drive higher energy consumption and greater carbon footprint than would be necessary if an air-side economizer were recognized as an alternative energy-

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conservation measure for low-to-moderate OA rates, as identified in Table B.

## **Pharma Facilities & Equipment: Heat Recovery Regulations ...**

The ISPE Good Practice Guide: Heating, Ventilation, and Air Conditioning (HVAC) systems can be critical systems that

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affect the ability of a pharmaceutical facility to meet its objective of providing safe and effective product to the patient.

## **Good Practice Guide: Heating, Ventilation, & Air ...**

ISPE Regional DACH Community of Practice / CoP "HVAC & Sustainable Facilities" CURRENT INDUSTRY



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STANDARD In the last years pharmaceutical industry faced more country specific requirements for facility design (e.g. Pressure cascades with differential values dP, air change rates ACR, etc.).

**CoP HVAC & Sustainable Facilities  
der ISPE D/A/CH | ISPE ...**

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Heating, ventilation and air-conditioning (HVAC) play an important role in ensuring the manufacture of quality pharmaceutical products. A well designed HVAC system will also provide comfortable conditions for operators. These guidelines mainly focus on recommendations for systems for manufacturers of solid dosage forms.

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## **Annex 5 Supplementary guidelines on good manufacturing ...**

Distinguish between the 2004 and 1987 versions of the FDA's Guidance for Industry, Sterile Drug Products Produced by Aseptic Processing - Current Good Manufacturing Practice as applied to the design, operation, maintenance, and

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modification of facilities; Community of Practice (COP)

**GMP Sterile Pharmaceutical Manufacturing Facility Training ...**  
The ISPE Good Practice Guide: Heating, Ventilation, and Air Conditioning (HVAC) provides designers and project teams with suggestions to help determine the

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user requirements and the functional design that define the facility's objectives. It also provides options to be considered in creating a design that has low lifecycle cost and is sustainable.

## **Good Practice Guide: Heating, Ventilation, & Air ...**

Heating, ventilation and air-

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conditioning<sup>108</sup> (HVAC) play an important role in ensuring the manufacture<sup>109</sup> of quality pharmaceutical products. The good manufacturing practice (GMP) requirements of the prevention of contamination<sup>110</sup> and cross-contamination are an essential <sup>111</sup> design consideration of an HVAC system.

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A well designed HVAC system also provides

## **GUIDELINES ON HEATING, VENTILATION AND AIR- CONDITIONING ...**

Facilities Management . HVAC. design .  
NOVEMBER 1, 2017 . Rev. May 1, 2019  
Rev. March 1, 2020

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## **HVAC Design Manual - Veterans Affairs**

Pharmaceutical Engineering Magazine In the pharmaceutical industry, digitalization involves developing and implementing digital technologies at all levels of pharmaceutical operations. The aim is to transform the industry by



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capturing, analyzing, and using vast amounts of data collected from...

## **Pacific Northwest Chapter | ISPE | International Society ...**

Join an ISPE Community of Practice (CoP). CoPs are groups of ISPE Members with a common interest and similar job functions who collaborate on topic-

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specific discussions using the ISPE social networking platform. Introducing the Community Connection, a newly enhanced platform for the ISPE online Communities of Practice (CoPs).

## **Communities of Practice | COPs | ISPE | International ...**

HVAC systems play a crucial role in

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pharmaceutical engineering and manufacturing because they have a direct impact on the production environment. Optimized HVAC units can help pharmaceutical companies manage airborne contaminants, pass inspections, and remain CGMP-compliant, and more. All You Need to Know About Specialized HVAC Systems

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## **HVAC - A Complete Guide on Specialized HVAC Systems ...**

If you need additional assistance, please contact our Member Services Team by email at [ask@ispe.org](mailto:ask@ispe.org) or by phone at (813) 960-2105.

## **SIGN IN - International Society for**

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## **Pharmaceutical Engineering**

He is the co chair of the Guidance Documents Executive Committee in ISPE, and chair of the HVAC and Sustainability COP committee, and has contributed to the HVAC, Process Gas, and Good Engineering Practice good practice guides.

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**Item Detail - International Society  
for Pharmaceutical ...**

The International Society for  
Pharmaceutical Engineering (ISPE)  
announced the release of its latest  
guide, ISPE Good Practice Guide: HVAC  
& Process Equipment Air Filters.

**ISPE Releases ISPE Good Practice**

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## **Guide: HVAC & Process ...**

ASHRAE's COVID-19 Preparedness Resources are available as guidance to building owners, operators and engineers on how to best protect occupants from exposure to the virus, in particular in relation to airborne particles that might be circulated by HVAC systems."

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## **ASHRAE Resources Available to Address ... - HPAC Engineering**

B.S. Pharmacy, 1975. Don Downing has devoted his career as a professor and practitioner to moving the profession of pharmacy forward. A graduate of the University of Washington with a Bachelor of Science in Pharmacy, Don teaches on



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topics including legislative advocacy, leadership and ethics and is a prolific advocate for pharmacists, patients and underserved populations.

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