SSG

STANDARD SOLUTIONS GROUP

SSG 3700E

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Heating, ventilation and sanitation systems: Overview and basis for plant engineering

Information within brackets ([...]) in this document refers to local regulations.

Scope

SSG 3700E provides an overview of SSG's HVS installation standards, SSG 3701E–SSG 3709E.

SSG's HVS installation standards provide instructions for the procurement and projecting of industrial HVS installations and contain the following areas:

— SSG 3701E – *Heating, ventilation and sanitation systems: Environment classification.*
SSG 3701E covers classification, in different types of environment, of the factory installations' different localities and gives recommendations for selecting materials for fans, ducts and components in different environment classes.

— SSG 3702E – *Heating, ventilation and sanitation systems: Media codes, systems, flow charts and initial design criteria.*
SSG 3702E provides general design guidelines for HVS installations. The standard provides examples of design and recommendations for dimensioning and also refers to other relevant publications. The standard includes:

  — Guidance for media codes based on SSG 7650E – *Piping – recommendations for the selection, classification and inspection of materials and components.*

  — Additional symbols for HVS schedules to use when needed.

  — Drawing examples of flow charts that other SSG HVS standards regularly refer to.

  — Initial design criteria for industrial heating, ventilation and sanitation systems.

— SSG 3703E – *Heating, ventilation and sanitation systems: Project planning conditions for electrical operations rooms.*
SSG 3703E provide guidelines for planning, projecting and execution of air conditioning installations and cooling systems for electrical operations rooms where high purity is required for protection against corrosive gases.
When designing air treatment installations in accordance with these instructions, the physical lifecycle of the concerned sensitive electrical-technical equipment ought to be optimal.