

GENERAL SPECIFICATION

HVAC

GS EP HVA 000

List of HVAC Specifications

09	10/2012	Updating
08	01/2012	Updating
07	01/2011	Updating
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Rev.	Date	Purpose of the revision

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1. Scope

This document gives the titles and the references of general specifications to be used for the design, fabrication, testing, installation and commissioning of HVAC equipment and systems.

For particular applications these general specifications may be supplemented by particular project specifications.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
Not applicable	

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published in the applicable yearly collection.

Reference	Title
Not applicable	

3. Numbering principle

The GS related to HVAC are today split in 5 main sections. Each section is identified by the first of the three digit of the GS number, as follows:

- GS EP HVA 0XX: Generalities
- GS EP HVA 1XX: Data
- GS EP HVA 2XX: Equipment
- GS EP HVA 3XX: Systems
- GS EP HVA 4XX: Construction / Installation
- GS EP HVA 5XX: Not used
- GS EP HVA 8XX: Definitions
- GS EP HVA 9XX: Typical

The Data Sheets (DS) associated to the GS keep the same three digits than the GS.

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4. List of General Specification

4.1 Generalities (GS EP HVA 0XX)

GS EP HVA 000: List of *HVAC* Specifications (Updating)
 (GS EP HVA 010 to 019: Selection of materials)
 GS EP HVA 010: Selection of Stainless Steel Grade for *HVAC* Equipment

4.2 Data (GS EP HVA 1XX)

GS EP HVA 100: *HVAC* Basis of Design (Updating)

4.3 Equipment (GS EP HVA 2XX)

(GS EP HVA 200 to 229: Equipment related to air)
 GS EP HVA 202: Air Handling Unit(s) (*AHU*)
 GS EP HVA 204: Anti-Blast Damper(s)
 GS EP HVA 205: *FAN UNIT*(s)
 GS EP HVA 206: *Air Conditioning Unit(s) (ACU)* and Associated *Air Cooled Condenser(s) (ACC)* (Created)
 GS EP HVA 211: Electrical Heater(s) (Updating)
 GS EP HVA 212: Fire Damper(s) Pneumatically Actuated
 GS EP HVA 213: Fire Damper(s) Electrically Actuated
 GS EP HVA 217: Sound Attenuators
 GS EP HVA 218: Coalescer Filter(s)
 GS EP HVA 219: Non-return Damper(s)
 GS EP HVA 220: Shut-off Damper(s)
 GS EP HVA 221: Pressure Relief Damper(s)
 GS EP HVA 222: Balancing Damper(s)
 GS EP HVA 223: Kitchen Hood(s)

(GS EP HVA 230 to 259: Equipment related to water)
 GS EP HVA 231: Chilled water unit(s) - Water cooled - Screw compressors
 GS EP HVA 234: Chilled water unit(s) - Air cooled - Screw compressors
 GS EP HVA 236: Balancing valves for *HVAC* installations

(GS EP HVA 290 to 299: miscellaneous)
 GS EP HVA 290: Shut-Off Damper Electrical Actuator(s)

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4.4 Systems (GS EP HVA 3XX)

GS EP HVA 300: HVAC System for Turbo-machine Technical Room

GS EP HVA 301: HVAC PLANT ROOM(s)

4.5 Construction, Installation (GS EP HVA 4XX)

(GS EP HVA 400 to 429: Topics related to air)

GS EP HVA 400: Ducts and Accessories for HVAC Systems

GS EP HVA 402: Fire Damper(s) Installation

GS EP HVA 410: HVAC Equipment *FACTORY COMPLIANCE TEST*

(GS EP HVA 430 to 459: Topics related to water)

GS EP HVA 460: Marking of HVAC Piping and Ducting

GS EP HVA 461: Ductwork numbering rules

GS EP HVA 462: HVAC equipment numbering rules

4.6 List of Data Sheets

DS EP HVA 202: Air Handling Unit(s) – Data Sheet

DS EP HVA 212: Fire Damper(s) Pneumatically Actuated - Data Sheet

DS EP HVA 213: Fire Damper(s) Electrically Actuated - Data Sheet

DS EP HVA 217: Sound Attenuator(s) - Data Sheet

DS EP HVA 220: Shut-off Damper(s) - Data Sheet

DS EP HVA 221: Pressure Relief Damper(s) - Data Sheet

DS EP HVA 230: Chilled water unit(s) - Water cooled - Data Sheet

DS EP HVA 231: Chilled water unit(s) - Air cooled - Data Sheet

4.7 Definitions (GS EP HVA 8XX)

GS EP HVA 801: Terminology, Definitions, Abbreviations

GS EP HVA 802: Documents to be supplied for Basic Engineering and Detailed Engineering

GS EP HVA 803: Symbols for P&ID and D&ID

GS EP HVA 804: Request for deviation or modification

GS EP HVA 830: Typical HVAC P&ID – D&ID (Updating)

4.8 Standard Drawings (SD EP HVA XXX)

SD-EP-HVA-460: Marking of HVAC Piping and Ducting – Associated to GS EP HVA 460

SD-EP-HVA-803-Sh1: HVAC D&ID / P&ID - Symbols for instrument diagrams – Lines – Sheet 1

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SD-EP-HVA-803-Sh2: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Lines – Sheet 2

SD-EP-HVA-803-Sh3: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Instruments – Sheet 1

SD-EP-HVA-803-Sh4: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Instruments – Sheet 2

SD-EP-HVA-803-Sh5: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Instruments – Sheet 3

SD-EP-HVA-803-Sh6: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Actuators & motors – Sheet 1

SD-EP-HVA-803-Sh7: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Aeraulic equipment – Sheet 1

SD-EP-HVA-803-Sh8: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Piping – Sheet 1

SD-EP-HVA-803-Sh9: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Exchangers – Sheet 1

SD-EP-HVA-803-Sh10: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Refrigerating equipment – Sheet 1

SD-EP-HVA-803-Sh11: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Pneumatic instruments – Sheet 1

SD-EP-HVA-803-Sh12: *HVAC D&ID / P&ID* - Symbols for instrument diagrams – Miscellaneous – Sheet 1

SD-EP-HVA-830-Sh1: Typical *HVAC P&ID - D&ID - HVAC Pumping systems*

SD-EP-HVA-830-Sh50: Typical *HVAC P&ID - D&ID - EXHAUST / EXTRACT / FAN UNITS and AHUs* (Updated)

SD-EP-HVA-830-Sh51: Typical *HVAC P&ID - D&ID - EXHAUST / EXTRACT AIR AHUs* (Created)

SD-EP-HVA-830-Sh70: Typical *HVAC P&ID - D&ID - EXHAUST / EXTRACT AIR AHUs* (Created)