



Exploration & Production

GENERAL SPECIFICATION

HVAC

GS EP HVA 462

HVAC equipment numbering rules

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1. Scope

The present specification defines the method to use for *HVAC* equipment tag numbering, for *HVAC* systems.

The words and expressions in CAPITAL characters and *italic* are defined inside the general specification **GS EP HVA 801**.

When other words require a definition only to be used in the present document, then the definition is given in a dedicated paragraph of the present document and the defined word, when used, is marked in small and *italic* letters.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Equipment and installations must be in accordance with (in order of precedence):

1. The country local regulations where equipment and/or installations shall be operated
2. Total General Specifications as listed in **GS EP HVA 000**
3. The International Standards
4. The French Regulation (when Country local regulation does not exist).

International System of Units (SI) shall be used.

Notes:

- In case of discrepancy between documents the more stringent requirements shall apply.
- The *HVAC VENDOR* or *CONTRACTOR* may propose proven improvements to the reference documents but shall obtain written approval of the *COMPANY* prior to implementation.
- A International Standard is a good "engineering practice" which shall be recognised and taken into consideration by *VENDOR*, *SUPPLIER*, *MANUFACTURER* and/or *CONTRACTOR*. If required, the translation of the standards must be included into *HVAC* scope.
- The latest revision of Standards, Codes, Regulations and the published errata if any, must be used and applied by *VENDOR*, *SUPPLIER*, *MANUFACTURER* and *CONTRACTOR*.

Some documents listed hereafter are issued from the French Government and are applicable to the basic engineering, detailed engineering and construction. *ENGINEERING*, *CONTRACTOR* are in charge to translate or to entrust the translation to specialist.

Standards

Reference	Title
Not applicable	

**Professional Documents**

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP EXP 501	Equipment and piping numbering
GS EP HVA 000	List of HVAC specifications

3. HVAC equipment numbering

The present equipment numbering rule prevails on **GS EP EXP 501**.

The structure of *HVAC* equipment number must be as following:

Sector code	Equipment type code	System code	Sub-system code	Location code	Sequential code	Discrimination code
SS	AA	Y	Z	LL	XX	W

For the following fields of tag number, refer to **GS EP EXP 501**:

- Sector code,
- System code,
- Sub-system code,
- Discrimination code.

3.1 HVAC equipment type code

HVAC equipment type codes are listed hereafter:

	Equipment type code	Equipment	Comment
A	AERAILIC COMPONENT (FOR HVAC EQUIPMENT)		
	AB	Air balancing damper	Specific HVAC Equipment type
	AC	Constant volume box	Specific HVAC Equipment type
	AD	Air diffuser (grilles and diffusers)	Specific HVAC Equipment type
	AE	Anti-blast damper	Specific HVAC Equipment type
	AF	Particles air filter	Specific HVAC Equipment type
	AG	Perforated grille	Specific HVAC Equipment type
	AH	Air humidifier	Specific HVAC Equipment type
	AJ	Non return damper	Specific HVAC Equipment type
	AK	Radiation screen	Specific HVAC Equipment type
	AL	Louver / Droplet separator	Specific HVAC Equipment type
	AM	Bird screen / Mesh	Specific HVAC Equipment type
	AN	Sound attenuator	Specific HVAC Equipment type
	AP	Pressure relief damper	Specific HVAC Equipment type
	AR	Recirculation air grille / Exhaust air grille	Specific HVAC Equipment type
	AS	Shut-off damper	Specific HVAC Equipment type
	AT	Air transfer grille	Specific HVAC Equipment type
	AU	Pressure reference orifice / box	Specific HVAC Equipment type
	AV	Variable air volume box	Specific HVAC Equipment type
	AW	Coalescor filter	Specific HVAC Equipment type
		Fire Damper	Not equipment: defined as instrument
		Gas Damper	Not equipment: defined as instrument

	Equipment type code	Equipment	Comment
E	HEAT EXCHANGERS		
	EC	Coil	Equipment type as per GS EP EXP 501
	ED	Air cooled condenser	Specific HVAC Equipment type
	EE	Electrical heating coil / Electrical heater	Specific HVAC Equipment type
	EL	Water cooled condenser	Specific HVAC Equipment type
	EP	Plates heat exchanger	Equipment type as per GS EP EXP 501
	EV	Evaporator (refrigerant / air)	Specific HVAC Equipment type
	EW	Evaporator (refrigerant / liquid)	Specific HVAC Equipment type
K	COMPRESSION EQUIPMENT		
	KA	Centrifugal gas compressor	Equipment type as per GS EP EXP 501
	KB	Reciprocating gas compressor	Equipment type as per GS EP EXP 501
	KC	Screw compressor	Equipment type as per GS EP EXP 501
	KD	Scroll compressor	
	KE	Fan package	Equipment type as per GS EP EXP 501
	KI	Fan	Specific HVAC Equipment type
P	PUMPING EQUIPMENT		
	PA	Centrifugal pump	Equipment type as per GS EP EXP 501
Q	HVAC UNIT		
	QA	Air handling unit	Equipment type as per GS EP EXP 501
	QC	Condensing unit (Cold room / outdoor unit of split system)	Specific HVAC Equipment type
	QD	Evaporator unit - Direct expansion (cold room / indoor unit of split system)	Specific HVAC Equipment type
	QF	Disinfection unit and dosing unit	Specific HVAC Equipment type
	QR	Roof top	Specific HVAC Equipment type
	QX	Chilled water unit	Specific HVAC Equipment type
R	REFRIGERATION SYSTEM COMPONENT		
	RA	Accumulator	Specific HVAC Equipment type
	RC	Refrigerant check valve	Specific HVAC Equipment type
	RD	Refrigerant dryer - filter	Specific HVAC Equipment type
	RG	Sigh-glass	Specific HVAC Equipment type
	RL	Refrigerant liquid receiver	Specific HVAC Equipment type
	RR	Refrigerant receiver	Specific HVAC Equipment type
	RS	Refrigerant / Oil separator	Specific HVAC Equipment type
	RX	Expansion valve	Specific HVAC Equipment type

	Equipment type code	Equipment	Comment
T	TANK		
	TG	Buffer tank	Specific HVAC Equipment type
	TH	Chemical injection tank	Specific HVAC Equipment type
	TJ	Broken pressure tank	Specific HVAC Equipment type
	TX	Expansion tank	Specific HVAC Equipment type

3.2 Location code

The location code corresponds to the level of deck, where the equipment unit is installed.

The level must be expressed in meters and must be limited to integer part of level; i.e for deck 20,800 m, location code must be 20.

When equipment unit is located on a roof, the level to be considered must be level of the roof.

When equipment unit is located under the lower deck, the level to be considered must be the level of lower deck.

When equipment unit is located on mezzanine limited to the room, level to be considered must be the mezzanine level.

3.3 Sequential code

The HVAC equipment unit sequential code is a number composed of two (2) numerical characters, starting from 01 to 99.

Sequential code is re-initialized for each equipment type, for each location code. It allows the numbering of 99 HVAC equipment unit, having identical equipment type code, per level of building.

4. Examples

28QA092101A	28:sector code QA: air handling unit 0: critical and safety system 9: HVAC sub-system 21: equipment is located at level 21.300 01: sequential number of this equipment A: equipment is the first one of several in parallel
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28AS092101A	28:sector code AS: shut-off damper 0: critical and safety system 9: HVAC sub-system 21: equipment is located at level 21.300 01: sequential number of this equipment A: equipment is the first one of several in parallel
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5. Packages

Tag numbers have to be defined for packages and their components. The information for equipment numbering has to be provided by the main *CONTRACTOR* or by the *HVAC CONTRACTOR / SUB-CONTRACTOR* to the equipment *MANUFACTURER*.

Sequential number(s) have to be defined by the main *CONTRACTOR* or by the *HVAC CONTRACTOR / SUB-CONTRACTOR*.