

Appendix B - Mechanical Plant & Equipment Numbering

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Scope

This design guide details the acronyms and numbering system to be used for the common items of mechanical plant and associated equipment. All new plant and equipment must adhere to this system. New project work should include a check of existing plant names to ensure that there is no duplication of plant numbering per building and that the numbering is contiguous.

Purpose

The purpose of this guide is to ensure that all plant and equipment is uniquely named within each building and follows an intuitive and consistent pattern. It is not intended for the numbering system to provide details of the area served or duty performed by the equipment.

Related Guides and Standards

The UQ Design Standard, DS-07 Mechanical should be followed in relation to mechanical design and the UQ Design Guide BMS User Interfaces covers all matters related to BMS tag naming.

Naming Structure

The naming structure consists of a designated acronym which uniquely defines the type of plant or equipment, the level of the building where the plant is located and an integer which increments for each type of similar plant on the building level. *Where the building has segregated blocks the level number should include the designation ie North level 5 is N5.*

The Nth equipment item of type XXX on level L would be represented as: **XXX L-N**

Where there are slave devices to the main item of plant, the secondary number is taken from the main item of plant with a tertiary number appended: **YYY L-N-n**

Where possible the secondary and tertiary numbers will be assigned left to right across the mechanical floor plan layout or schematic drawing.

Examples

The fourth air handling unit on level 2 would be represented as: **AHU 2-4**

The second Variable Air Volume box for AHU 2-4 becomes: **VAV 2-4-2**

Three chillers in a level 7 plant room aligned west to east on the floor plan would be named:



CH 7-1

CH 7-2

CH 7-3

Designated Nomenclature

The acronyms designated for the various items of plant and equipment are summarised below sorted by equipment type.

Air Conditioning Plant

AHU	Ducted chilled water air handling unit serving one or more rooms.
FCU	Ceiling mounted or suspended chilled water unit with or without ducting serving the room in which it resides.
ACDX	Packaged or Split DX units.
PAHU	Primary Air Handling Unit (eg. Outside Air Pre-conditioning unit). CRAC
EVC	Evaporative Cooler
VAV	Variable Air Volume Box (tertiary number used to designate box per unit)
AHU	Ducted chilled water air handling unit serving one or more rooms.

Ventilation Plant

SF	Supply Air fan
RF	Return Air Fan
OAF	Outside Air Fan
RLF	Relief Air Fan
EF	General Exhaust Fan
TEF	Toilet Exhaust Fan
KEF	Kitchen Exhaust Fan
AEF	Articulated Exhaust Fan
FC	Fume Cupboard

Chilled Water Plant

CH	Chiller
CT	Cooling Tower
PCHWP	Primary Chilled Water Pump
SCHWP	Secondary Chilled Water Pump
TCHWP	Tertiary Chilled Water Pump
CWP	Primary Condenser Water Pump
CHWT	Chilled Water Tank
PCH	Process Chiller
HEX	Heat Exchanger

Heating Plant

HP	Heat Pump
HWP	Hot Water Pump
HWT	Hot Water Tank
HWU	Hot Water Unit
EDH	Electric Duct Heater (tertiary number used to designate heater per unit)

Mechanical Boards and Panels

MSSB	Mechanical Services Switchboard
DDC	Direct Digital Controls Panel