ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L75145 – FAN COIL UNIT

Learning Legacy Document

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50112**

Document Revision: **5.0**

Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1.0	09-Nov-2012	[redacted]	[redacted]	[redacted]	First Issue
2.0	11-Oct-2013	[redacted]	[redacted]	[redacted]	Standardisation of Attribute Names and New Branding
3.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Asset Tag Identification Section Updated
4.0	19-Sep-2014	[redacted]	[redacted]	[redacted]	Approvals Added Consultations Removed
5.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated

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1 Introduction

1.1 Asset Details

Class Code:	L75145
Class Name:	Fan Coil Unit
Class Lineage:	Construction products>Services>Climate control plant and equipment (HVAC)>Complete climate control systems>Complete air conditioning systems>Fan Coil Unit

1.2 Description

A fan coil unit is a device consisting of a filter, heating and or cooling coil and fan, as a part of the HVAC (heating, ventilation, and air conditioning) system.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

2.1 Example Images

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Air Volume Flow (Litres/Sec)	Litres/Sec	NU	2		The operational air flow rate
Coil Type		PD		Direct expansion - R410a Direct expansion - R407c Water	Is the coil direct expansion or water?
Cooling Return Air Humidity (Degrees Celsius)	Degrees Celsius	NU	2		The wet bulb temperature of the return air for design maximum cooling load.
Cooling Return Air Temperature (Degrees Celsius)	Degrees Celsius	NU	2		The dry bulb temperature of the return air for design maximum cooling load
Cooling Supply Air Temperature (Degrees Celsius)	Degrees Celsius	NU	2		The dry bulb temperature of the supply air for the design maximum cooling load
External Static Pressure (Pa)	Pa	NU	0		The external operating air pressure of the unit
Filter Grade		CH			The grade designation that defines the filter efficiency.
Filter Type		CH			A description of the medium
Heat Output (kW)	kW	NU	2		What is the total heat output of the unit

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Heating Return air temperature (Degrees Celsius)	Degrees Celsius	NU	2		The dry bulb temperature of the return air for design maximum heating load
Heating Supply air temperature (Degrees Celsius)	Degrees Celsius	NU	2		The dry bulb temperature of the supply air for the design maximum heating load
Height (Millimetres)	Millimetres	NU	0		The height of the unit
Inlet Area (Square Millimetres)	Square Millimetres	NU	0		The diameter or area of the inlet
Input Voltage (Volts)	Volts	NU	0		The rated operating voltage of the unit
Length (Millimetres)	Millimetres	NU	0		The length of the unit
Mounting		CH			A description of the mounting arrangement
Outlet Area (Square Millimetres)	Square Millimetres	NU	0		The diameter or area of the outlet
Total Cooling Capacity (kW)	kW	NU	2		What is the total cooling capacity of the unit
Width (Millimetres)	Millimetres	NU	0		The width of the unit

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	19-Sep-2014

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