ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L75283 – HEATER BATTERY

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50119**

Document Revision: **5.0**

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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:	L75283
Class Name:	Heater Battery
Class Lineage:	Construction Products>Services>Climate control plant and equipment (HVAC)>Transformation and conversion of energy>Heat exchangers> Heater Battery

1.2 Description

A heater battery is an electric coil or Hot Water coil that heats the airstream in supply air systems. They can be used for frost protection or tempering the air to room temperature. They are mounted within an AHU or duct

Heater batteries should only be identified as separate assets when they are stand-alone assets and do not form part of a commercial unit.

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)

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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
Connection Height (Millimetres)	Millimetres	NU	0		The clear height for instance of the connecting duct through which the secondary fluid flows.
Connection Length (Millimetres)	Millimetres	NU	0		The length of the unit between the connection for instance between flanges of ducts with end.
Connection Width (Millimetres)	Millimetres	NU	0		The clear width for instance of the connecting duct through which the secondary fluid flows
Heat Output (kW)	kW	NU	2		What is the total heat output of the unit
Heater Coil Type		PD		Electric Water	Coil Type
Input Voltage (Volts)	Volts	NU	0		The rated operating voltage of the unit
Mounting		CH			A description of the mounting
Primary Fluid Flow Rate (Litres/sec)	Litres/sec	NU	2		The operational primary fluid flow rate through the coil If electric not applicable.
Primary Fluid Pressure drop (Pa)	Pa	NU	0		The Pressure drop of the Primary fluid

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Primary off-coil temperature (Degrees Celsius)	Degrees Celsius	NU	2		The design temperature of the primary fluid leaving the coil. If electric not applicable
Primary on-coil temperature (Degrees Celsius)	Degrees Celsius	NU	2		The design temperature of the primary fluid entering the coil. If electric not applicable
Secondary Fluid Flow Rate (Litres/sec)	Litres/sec	NU	2		The operational secondary fluid flow rate through the coil.
Secondary Fluid Pressure drop (Pa)	Pa	NU	0		The Pressure drop of the Secondary fluid
Secondary off-coil temperature (Degrees Celsius)	Degrees Celsius	NU	2		The design temperature of the secondary fluid leaving the coil
Secondary on-coil temperature (Degrees Celsius)	Degrees Celsius	NU	2		The design temperature of the secondary fluid entering the coil

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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