ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L75281 - RUN AROUND COIL

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50117**

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	23-Apr-2013	[redacted]	[redacted]	[redacted]	Standardisation of Attribute Names and New Branding
3.0	03-Jun-2014	[redacted]	[redacted]	[redacted]	Correction of Attribute Name Attribute DP Corrected 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:	L75281
Class Name:	Run Around Coil
Class Lineage:	Construction Products>Services>Climate control plant and equipment (HVAC)>Transformation and conversion of energy>Heat exchangers>Run Around Coil

1.2 Description

A run-around coil heat recovery system is essentially self-contained. It consists of a matched pair of coil heat exchangers. The two coils are piped together in a continuous loop through which the heat-exchange medium (water or a water/anti-freeze mix) flows. A pump pack ensures that the medium keeps flowing in a single direction at a constant rate.

Systems are most often positioned within the supply and exhaust air streams of an air handling system, to recover the heat energy.

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).

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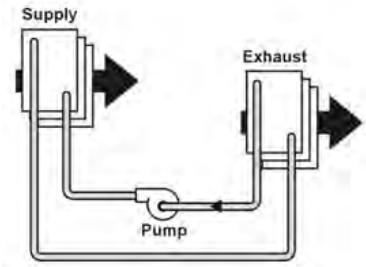
2.1 Example Images



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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
Diameter (Millimetres)	Millimetres	NU	0		The diameter of the coil
Heat Coefficient (watts per square metre kelvin)	Watts per square metre kelvin	NU	2		The approximate heat coefficient (wet)
Heat Output (kW)	kW	NU	2		What is the total heat output of the unit
Length (Metres)	Metres	NU	2		The length of the coil
Linear Speed of Operation (Metre/Sec)	Metre/Sec	NU	2		The air flow required over the unit
Coil Liquid Type		CH			What is the liquid in the coil
Pressure Drop (Pa)	Pa	NU	0		What is the pressure approximate pressure drop
Volume Flow (Cubic Metres/Sec)	Cubic Metres/Sec	NU	2		The maximum flow rate through the coil
Volume Flow (Litres/Sec)	Litres/Sec	NU	2		The maximum flow rate through 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 document - 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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