ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L75535 - VRF BRANCH CONTROL BOX

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Learning Legacy Document

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1.0	05-Apr-2016	[redacted]	[redacted]	[redacted]	First Issue

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1 Introduction

1.1 Asset Details

Class Code:	L75535
Class Name:	VRF Branch Control Box
Class Lineage:	Construction Products>Services>Climate control plant and equipment>Measuring, detection and control devices>Other HVAC control devices products>VRF Branch control box

1.2 Description

A VRF Branch Control Box is a device that allows simultaneous heating and cooling possible within the VRF system. The box transfers energy around the system, drawing on energy from the heat source unit/outdoor unit and directs energy as requested by the individual indoor units. It also instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements.

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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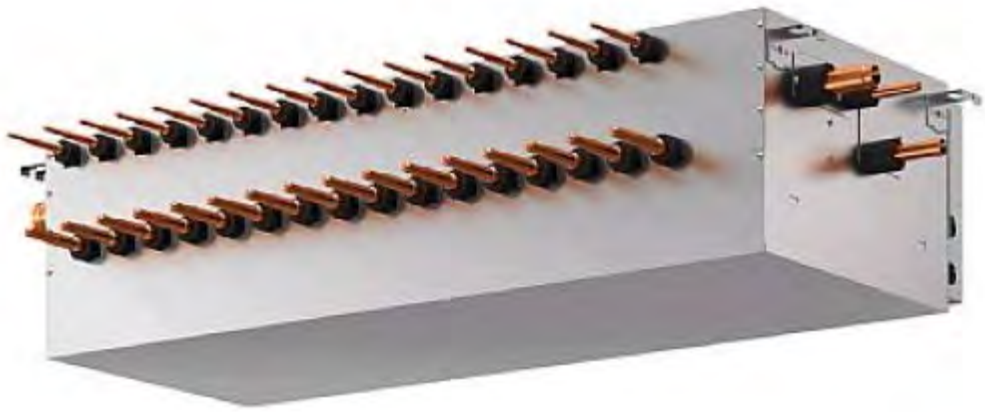
2.1 Example Images



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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
Height (Millimetres)	Millimetres	NU	0		External Height of Control box
Length (Millimetres)	Millimetres	NU	0		Length of Control box
Depth (Millimetres)	Millimetres	NU	0		The Depth of the Control box
Number of Branches (#)	#	NU	0		Number of Branches
Weight (Kilograms)	Kilograms	NU	2		Overall weight of unit
Cooling Capacity (kW)	kW	NU	2		Total VRF cooling
Heating Capacity (kW)	kW	NU	2		Total VRV heating

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	06/04/2016

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