

TECHNICAL SPECIFICATION:

AIR CONDITIONING KIT 20 PHELOPHEPA TRAIN SET #2 ACCOMMODATION COACH #8

DATE RELEASED

02 SEPTEMBER 2010

Note: If there is no red "CONTROL COPY" stamp in the bottom right hand corner of this page, then this is an uncontrolled copy and should be used with caution.

Document Name: Technical Specification – Air Conditioner kit 20 for
Phelophepa Train set #2 coach #8

Classification: External Use

Document Serial No: 0419

Document Owner: Product Engineering Specialist (Mainline Coaches)

Date: 02 September 2010

Ref: PD-PDC-NAT-SPEC-0087

Revision: 0

Controlled and Issued by: Configuration Officer (Koedoespoort)

Approved by: Product Development Manager (Coaches)

Page: 1 of 5

CHANGE CONTROL

Control	Name and Description	Signature	Date
Compiled & Reviewed:	Jacques Posthumus Product Development Coaches	<i>J. Posthumus</i>	2010.09.02
Approved:	Bryan Ballantyne Principal Engineer Product Development - Coaches		

LIST OF REVISIONS

Revisions (Series)	Train set No.	Date	Name	Description of modification

Document Name: Technical Specification – Air Conditioner kit 20 for
Phelophepa Train set #2 coach #8
Classification: External Use
Document Serial No: 0419
Document Owner: Product Engineering Specialist (Mainline Coaches)
Date: 02 September 2010

Ref: PD-PDC-NAT-SPEC-0087

Revision: 0

Controlled and Issued by: Configuration Officer (Koedoespoort)

Approved by: Product Development Manager (Coaches)

Page: 2 of 5

J.P.

DISTRIBUTION LIST

Name	Email	Company
Sugen Govender	Sugen.Govender2@transnet.net	Transnet Rail Engineering
Bryan Ballantyne	Bryan.Ballantyne@transnet.net	Transnet Rail Engineering
Jacques Posthumus	Jacques.Posthumus2@transnet.net	Transnet Rail Engineering
Gordon Westwood	Gordon.Westwood2@transnet.net	Transnet Rail Engineering
Jan Corna	Jan.Corna@transnet.net	Transnet Rail Engineering
Douw White	Douw.White@transnet.net	Transnet Rail Engineering
Dawie Coetzee	Dawie.Coetzee@transnet.net	Transnet Rail Engineering
Deon Lotter	Deon.Lotter2@transnet.net	Transnet Rail Engineering

Document Name: Technical Specification – Air Conditioner kit 20 for
Phelophepa Train set #2 coach #8

Classification: External Use

Document Serial No: 0419

Document Owner: Product Engineering Specialist (Mainline Coaches)

Date: 02 September 2010

Ref: PD-PDC-NAT-SPEC-0087

Revision: 0

Controlled and Issued by: Configuration Officer (Koedoespoort)

Approved by: Product Development Manager (Coaches)

Page: 3 of 5



AIR CONDITIONING KIT 20 FOR PHELOPHEPA #2 ACCOMMODATION COACH #8

1. SCOPE

THIS SPECIFICATION DESCRIBES THE AIR CONDITIONER KIT TO BE SUPPLIED FOR PHELOPHEPA #2 ACCOMMODATION COACH #8. THE MATERIAL NUMBER FOR THIS KIT IS 067808825.

2. SPECIFICATION

ALL AIR CONDITIONING EQUIPMENT MUST BE SUPPLIED IN ACCORDANCE WITH TECHNICAL SPECIFICATION PD-PDC-NAT-SPEC-0044 : REQUIREMENTS FOR AIR CONDITIONING UNITS ON MAIN LINE POWER CAR TRAIN SETS.

3. AIR CONDITIONER UNITS REQUIRED

THE VARIOUS COMPONENTS AND QUANTITIES REQUIRED FOR PHELOPHEPA #2 ACCOMMODATION COACH #8 ARE TABULATED BELOW :

Phelophepa 2 Accommodation Coach 8			
Component	Type	Qty	Description
Standard evaporator mid-wall mounted	Daikin: 2,5kW R410 inverter driven	7	
Standard condenser unit	Daikin: 2,5kW R410 inverter driven	7	
Remote control	Daikin: BRC1D528	7	
Evaporator covers	SME custom manufactured	7	Colour to be determined – must match compartment colour.
Flexible A/C hoses	Fittings on each side	7 sets	
Custom door louvres	Custom made for 32mm door thickness	7	Colour to be determined – must match compartment colour.
Fresh air fan	VZE 250CB	2	
Fresh air ducting	With inlet and outlet louvers	2 sets	Inlet ducting colour to match coach exterior. Outlet grills to match compartment interior colour.
Four core silicon cable	Cable between indoor and outdoor units	±70m	
Connecting wire	Between indoor unit and remote control	7 sets	
Extraction fan	VZE 250CB	4	Grills to match toilet/shower ceiling colour.

3. AIR-CONDITIONING LAYOUT : PD-PDC-NAT-SKT-0143

Document Name: Technical Specification – Air Conditioner kit 20 for
Phelophepa Train set #2 coach #8
Classification: External Use
Document Serial No: 0419
Document Owner: Product Engineering Specialist (Mainline Coaches)
Date: 02 September 2010

Ref: PD-PDC-NAT-SPEC-0087

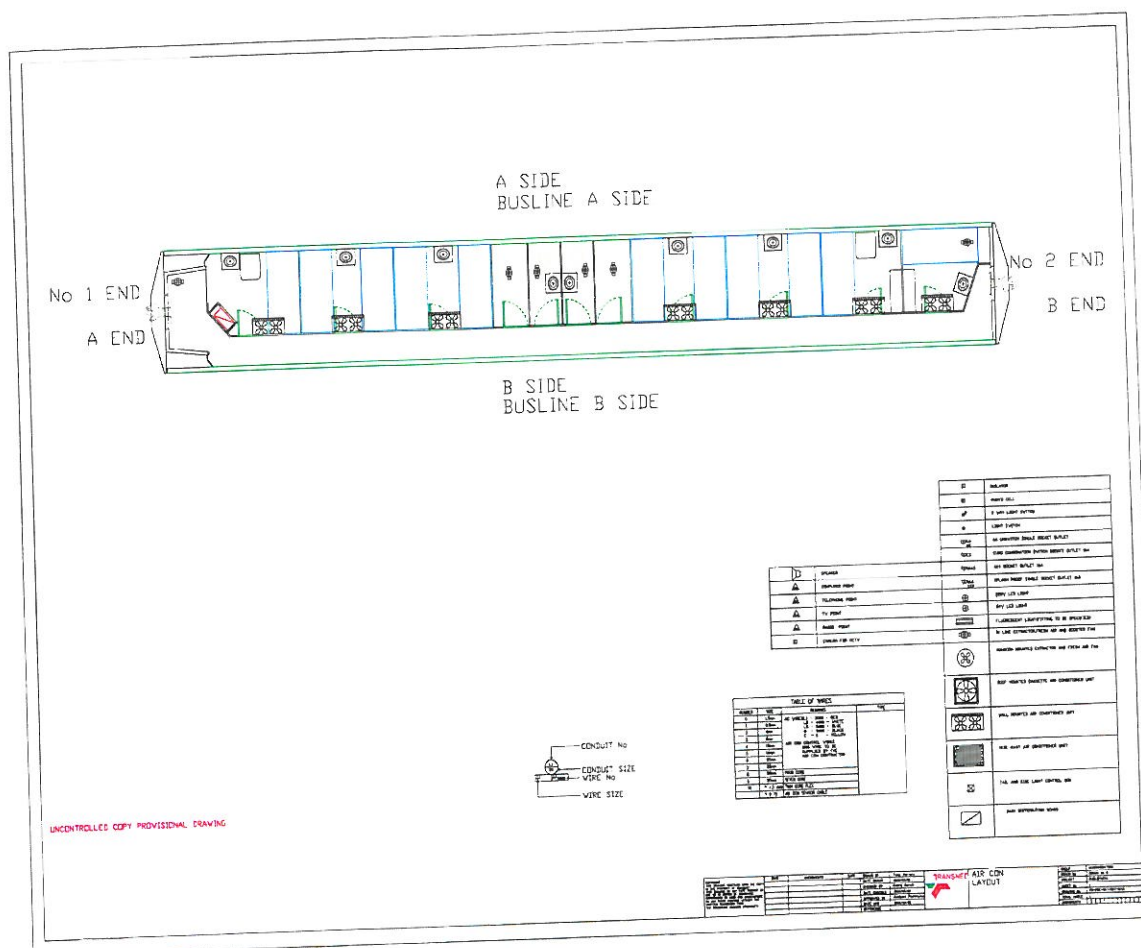
Revision: 0

Controlled and Issued by: Configuration Officer (Koedoespoort)

Approved by: Product Development Manager (Coaches)

Page: 4 of 5





Document Name: Technical Specification – Air Conditioner kit 20 for
Phelophepa Train set #2 coach #8
Classification: External Use
Document Serial No: 0419
Document Owner: Product Engineering Specialist (Mainline Coaches)
Date: 02 September 2010

Ref: PD-PDC-NAT-SPEC-0087

Revision: 0
Controlled and Issued by: Configuration Officer (Koedoespoort)
Approved by: Product Development Manager (Coaches)
Page: 5 of 5

JP.