



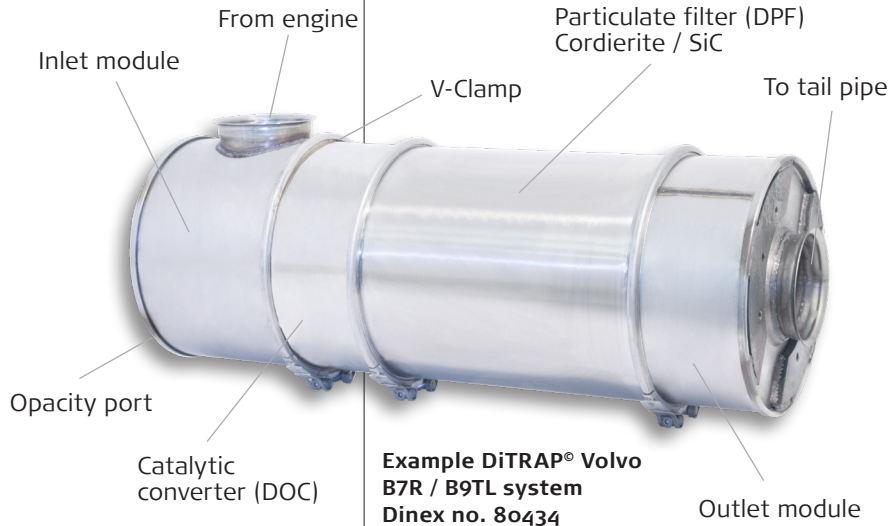
Dinex DiTRAP[®]

Tested and validated CRT[®] replacement programme



going the extra mile

The Technology



Example DiTRAP® Volvo B7R / B9TL system
Dinex no. 80434

an attractive alternative of spare parts, to be used for service and exchange of CRT® systems and modules.

A CRT®/DiTRAP® system is based on two well-known technologies; a Diesel Oxidation Catalyst (DOC), working together with a closed Wall-Flow filter (DPF). The DOC serves 2 purposes: First of all the catalytic reduction removes carbonous oxides and hydrocarbons from the exhaust gas. Secondly, the catalytic reaction raises the temperature of the exhaust gas, and produces NO₂.

A particulate filter of this applicable type is dependent on high temperatures in order to regenerate and prevent blocking up. With the help of the DOC which raises the temperature and produces NO₂, the DPF can regenerate more frequently, and at lower temperatures than an unassisted uncoated filter, but similar to the well-known Dinex DiSiC® catalysed filter.

The CRT® (Continuously Regenerating Trap) system was introduced to the market in the mid 90's, as a solution for removing hazardous exhaust emission gases and particulate matter, from heavy diesel powered vehicles, such as trucks and buses. The technology was used both for retrofitting purposes, and by vehicle manufacturers, to achieve a drastic reduction in the vehicle's levels of particulate matter, carbonous oxides, and hydrocarbons in the exhaust gas.

The patent for CRT® systems expired in 2009, and Dinex is therefore launching a replacement programme, DiTRAP®, as



Opacity port



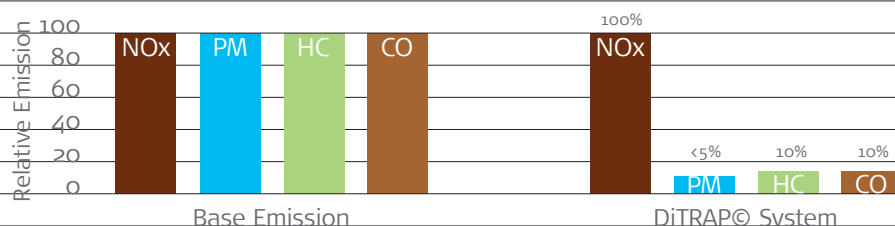
Service ports



Support ring

Gasket

V-clamp



The Dinex Concept



The Dinex DiTRAP® system stands out from the original CRT® with several improvements, making it a more durable and customer friendly product.

SiC and cordierite filters offered

The original CRT® is based on Cordierite ceramic filter – a cost-effective and light-weight type of ceramic. However, for more demanding applications like inner city driving, the more durable Silicon Carbide (SiC) type filter is more appropriate, as it offers 5 times higher soot load capacity than Cordierite, and has immense mechanical strength. Dinex offers both types.



CRT® and DiTRAP® compatibility

All DiTRAP® modules are designed to be fully interchangeable with existing CRT® systems. All CRT® modules, DOCs, filters, clamps, gaskets, and pipes can be replaced by a DiTRAP® replacement without having to go through any additional modification or trouble to make components fit together.



Redesigned clamps

Dinex clamps and gaskets are designed for increased strength and durability, and ensures leakage levels at an absolute minimum.



Integral insulation

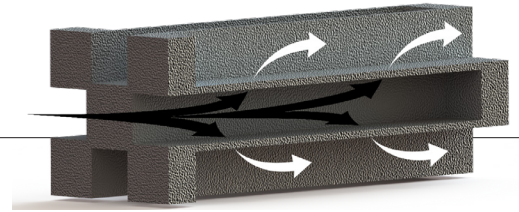
Dinex Integral insulation technique is widely used by vehicle manufacturers all over Europe, and is recognized as an extremely durable and high performing heat insulation solution.

Seaming and bending, rather than welding

Dinex has a long tradition of lock seaming silencers and filter modules, as it increases the products durability and life time, compared to a welded design. This is the same for pipes, where the focus on avoiding welding around bends extends product resistance to vibrations and thereby life time. Not to mention corrosion resistance and aesthetics.



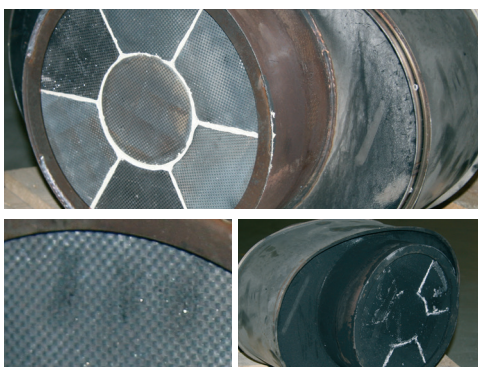
Technology Description



The DiTRAP[®] system offers the best out of 2 existing solutions: A Diesel Oxidation Catalyst (DOC) which converts up to 90% of carbonous monoxides and hydrocarbons, and an uncoated Diesel Particulate Filter (DPF) holding back no less than 95% of particulate matter.

The difference between a traditional DPF and the DiTRAP[®] system, is the sustainability in inner city environments and for older vehicles operating with higher raw emissions than usual. Modern DPFs are coated with catalytic precious metals to improve the filters ability to regenerate, which for EURO II/III vehicles operating primarily on long haulage jobs is by far the most recommended solution. But for older vehicles, or vehicles operating under less favourable conditions, the DiTRAP[®]/CRT[®] solution has some advantages:

- First of all, the pre-heating of the exhaust gas and the production of NO₂ in the DOC, makes regeneration in the DPF more frequent and efficient in unfavourable conditions.
- Secondly, the catalytic coating is an expensive process. Due to the regeneration strategy, the DPF is likely to be exposed to damage when operating under demanding conditions. By coating the DOC rather than the filter, the DPF becomes less costly to replace if a DPF should malfunction.



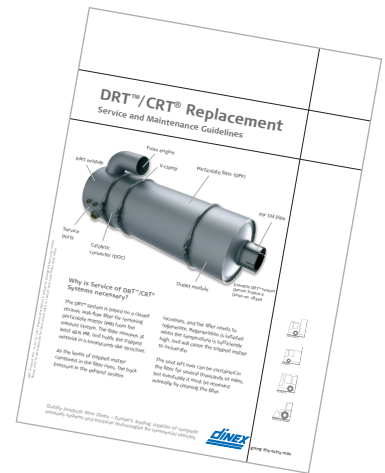
Maintenance

When the DPF has regenerated, the trapped particulate matter is incinerated and reduced to ashes, taking up only a fraction of space in the filter. But after a certain period of time, or driven distance, dependent on the typical driving pattern, the accumulation of ash becomes an issue as it increases the back pressure of the system. Before the back pressure reaches a critical level, the system must undergo maintenance where the ash is removed manually.



CRT[®] and DiTRAP[®] systems are modular systems, built for simple assembly/disassembly. Dinex has published a Service and Maintenance Guide for DiTRAP[®] systems, which can be downloaded from our website. This describes the recommended service intervals, that vehicles operating steadily under 3 scenarios should be able to follow, as well as some brief steps for disassembly of the DiTRAP[®] system. But despite these recommended intervals, alarms and other signs of increasing back pressure levels should always be monitored. It is recommended either to do regular back pressure checks on the system, or install an intelligent surveillance system, such as the Dinex DiNLOG[®].

The maintenance operation is also a good opportunity to check the condition of the filter, clamps and other components. It is recommended to replace at least the gasket between disassembled components at each service, as well as the V-clamps holding the modules together.





Particulate filter is a high efficiency after treatment technology to reduce PM. Each filter requires monitoring to ensure the functionality, efficiency and lifetime of the DPF system. Dinex offers wide range of monitoring and setup tools under the DiNLOG® product range.

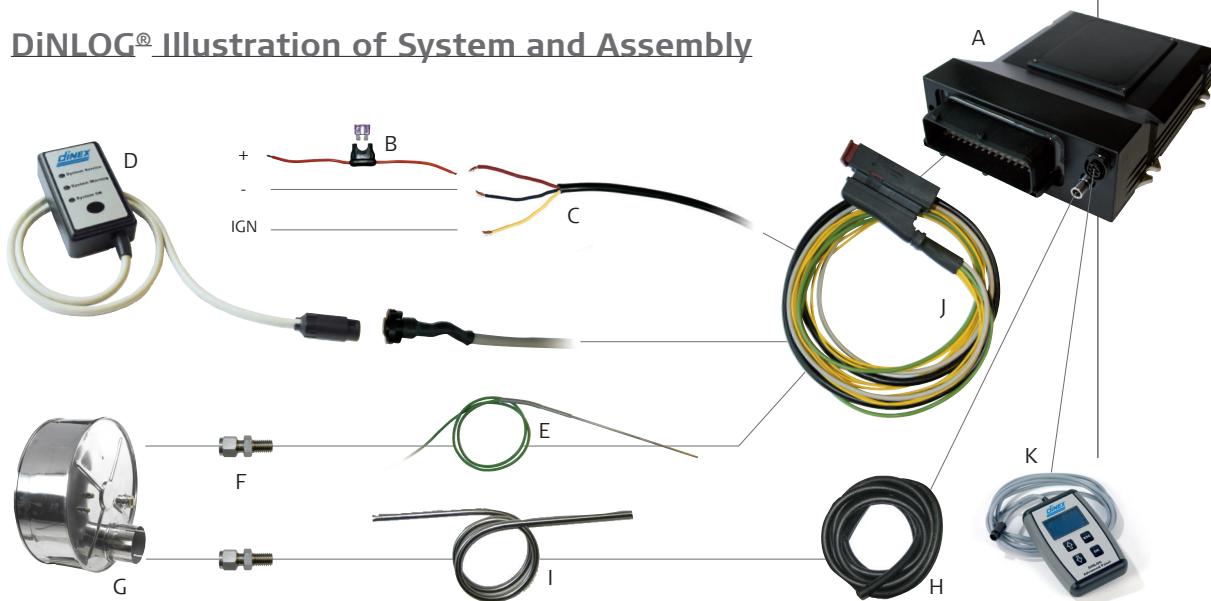
Furthermore, the monitoring strategy ensures that any Dinex installation complies with governmental requirements for traceability of the performance / efficiency and durability of the installed emission product.

All Dinex particulate filters and SCR solutions are installed with equipment monitoring temperatures, back pressure and conversion rates in the after treatment system. In this way the vehicle down time for service and maintenance is reduced to an absolute minimum.

DiNLOG status	Indication	Alarm priority	Reset
Service	Red LED Buzzer	Service	When acknowledged on the Simple Panel button.
Warning	Yellow LED	Warning	When ignition is switched off. Or when the problem no longer exists.
OK	Green LED		



DiNLOG® Illustration of System and Assembly



- A DiNLOG® Electronic Control Unit
- B Fuse kit
- C DiNLOG® power supply cable
- D DiNLOG® LED Panel
- E Temperature probe
- F Fittings for temperature probe and back pressure probe
- G Inlet module of diesel particulate filter (not part of DiNLOG® system)
- H Back pressure hose
- I Back pressure steel pipe
- J Cable harness with main connector
- K DiNLOG® Advanced Panel



Cross Reference - by Vehicle

Den Oudsten

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	B93	- 245 kW	986400	986401	WE10044
Bus	B95	- 200 kW		986414	986415WE12024
Bus	B96	- 200 kW		986400	986401WE10044

Dennis

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Dart - 4 cyl.		985094	983051	WEDN033
Bus	Dart - 6 cyl.		984217	983052	WEDN020
Bus	Trident 2		985143	983053	WE12067

Iveco

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Europolis		986432	986433	WE12079

Irisbus / Renault

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Agora	144 kW - 222 kW	982356	982296	WEBC004
Bus	Agora		985140	983054	WEBC013

MAN

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Leddbus		986410	986411	WE12083
Bus	Lion's City	162 kW - 301 kW	47008	47002	
Bus	Lion's City	162 kW - 301 kW	47009	47005	
Bus	Lion's City	191 kW - 316 kW	47010	47006	
Bus	Lion's City	162 kW - 301 kW	986410	986411	WE12083

Mercedes

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Citaro 98	- 205 kW	986404	986405	WE16004
Bus	O1829	210 kW - 250 kW	986408	986409	WE12022
Bus	Eng. OM442LA		986414	986415	WE12024
Truck	Econic 2628LL	- 209 kW	986416	986417	WEHN014
Bus	Citaro	180 kW - 260 kW	51013	51011	

Scania/DAB

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	L94 1B	- 191 kW	986420	986421	WEHN009
Bus	L94 1B	- 228 kW	986412	986413	WEHN010
Bus	N94	151 kW - 210 kW		983104	WEBF004
Bus	K112/K113	250 kW - 300 kW	986414	986415	WE12024
Bus	K112/K113/CK113	200 kW - 300 kW	986408	986409	WE12022
Bus	K124	- 265 kW	986416	986417	WEHN014
Bus	L113		986408	986409	WE12022

Cross Reference - by Vehicle

Scania/DAB

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	Omnicity	162 kW - 191 kW	986418	986419	WE12023
Bus	DAB Citybus		986422	986423	WE11010
Truck	4-series		986438	986446	WEHN044
Truck	P94	151 kW - 210 kW	986420	986421	WEHN009
Truck	P94	228 kW - 250 kW	986412	986413	WEHN010
Truck	P94	265 kW - 294 kW	986416	986417	WEHN014

Volvo

Type	Series	Power rating	DiSiC® no.	Cordierite no.	CRT® no.
Bus	B10B/BLE	- 210 kW	986404	986405	WE16004
Bus	B10L	- 210 kW	986418	986419	WE12023
Bus	B10M Mark IV	- 265 kW	986416	986417	WEHN014
Bus	B10M Mkl/MkII	210 kW - 250 kW	986408	986409	WE12022
Bus	B6 Mark IV	- 210 kW	986418	986419	WE12023
Bus	B7 TL		985140	983054	WEBC013
Bus	B7R	- 235 kW	985140	81002	WEBC013
Bus	B9M Mark II/III	180 kW - 250 kW	986418	986419	WE12023
Bus	B9TL	250 kW - 280 kW	985140	81002	WEBC013
Bus	B10M Mark III/IV	- 210 kW	986406	986407	WEDN007
Bus	B10M Mark IV	210 kW - 250 kW	986412	986413	WEHN010
Bus	B10M Mark IV	210 kW - 250 kW	986420	986421	WEHN009
Bus	B10M Mark IV	- 265 kW	986424	986425	WEDN028
Truck	D7 Tugmaster		986418	986419	WE12023
Truck	Enviro	- 150 kW	986426	986427	WE10026
Truck	FH12		986402	986403	WE12066

Reference List - by CRT® numbers

Filters/DPF

CRT® no.	DiSiC® no.	Cordierite no.
WE08027	986440	986441
WE10026	986426	986427
WE10040	986434	986435
WE10044	986400	986401
WE11010	986422	986423
WE12022	986408	986409
WE12023	986418	986419
WE12024	986414	986415
WE12053	986444	986445
WE12058	986436	986437
WE12059	986430	986431
WE12066	986402	986403
WE12067	985143	983053
WE12079	986432	986433

DOCs

CRT® no.	Dinex no.
WE12209B	985144
WEBC003	981144
WEBC018	983932
WEBC021	981145
WEBC028	981165

Pipes and Heatshields

CRT® no.	Dinex no.
QKO309	18180
QPM0412	18187*
WEDN050A	18179*

*Insulated pipes

**Heatshields



going the extra mile

Reference List - by CRT® numbers

Filters/DPF

CRT® no.	DiSiC® no.	Cordierite no.
WE12083	986410	986411
WE16004	986404	986405
WE16013		983065
WEBC004	982356	982296
WEBC013	985140	983054
WEBF004		983104
WECM012	981143	986450
WEDN007	986406	986407
WEDN020	984217	983052
WEDN028	986424	986425
WEDN033	985094	983051
WEBN048		983077
WEHN009	986420	986421
WEHN010	986412	986413
WEHN014	986416	986417
WEHN044	986438	986446
REC		983082

Pipes, Heatshields, Inlet and Outlet modules)

CRT® no.	Dinex no.	CRT® no.	Dinex no.
WHO418	81929**	WSBC016	64904
WHO48N	81928**	WS06044	64402
WPO31165	18182*	WSBC050	981257
WPO31170	18181*	WPO42018	66158
WPO42076	18655	WPO42019	66160
WPO42183	18184*	WPO42273	66162
WPO42418	18183	WPO42238	981301
WPO42431	18186*	WPO42239	981282
WP4C032	81724	QK0416	66159
WP4J1220	18656	QPO409	66161
WP4J1306	18185*		
WPO42125	81725		
WPO42126	81726		
WPO42127	81723		
WSBC032	64903		

*Insulated pipes

**Heatshields

Reference List - By OE numbers

Filters/DPF

Manufacturer	OE no.	DiSiC no.	Coordierite no.
MAN	81.15230.0024	47008	47002
MAN	81.15103.0002	47009	47005
MAN	81.15103.6050	47010	47006
MAN	81.15103.0016	986410	986411
	81.15103.6016		
Mercedes	000.490.2392	51013	51011
	000.490.0992		
Volvo	70330455	985140	81002

DOC's

Manufacturer	OE no.	Dinex no.
MAN	81.15103.0020	47001
MAN	81.15103.0001	47004
MAN	81.15103.0006	47817
Mercedes	000.490.6714	51000
Volvo	70314178	81001

Inlet and Outlet modules

Manufacturer	OE no.	Dinex no.
MAN	81.15103.0006	47817
MAN	81.15103.0007	47825
MAN	81.15103.0000	47827
MAN	81.15103.0003	47829
MAN	81.15103.0019	49950
MAN	81.15103.0021	49951
MAN	81.15103.0041	49952
Mercedes	000.490.0509	51949
Mercedes	000.490.0009	51959
Mercedes	000.490.0109	51960
Mercedes	000.490.0809	51966
Mercedes	000.490.1109	51969
Volvo	3177962	80067
Volvo	70330455	80068

Type

Euro III
2001 →



CUMMINS

ISBe

3,9 ltr.

4 cyl.


110 KW/150 HP


123 KW/167 HP


DiTRAP System

TfL Approved

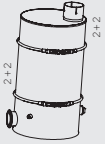
Front pipe


18179  4+3

18180  1

18181  1

Silencer

18342  2+2
Dinex DiTRAP System
Cordierite










18655  3

985094  OD Ø 347
Replacement DPF module with
SiC core

983051  OD Ø 347
Replacement DPF module with
Cordierite core

Tail pipe

Mounting Parts

1. 18921 65522-6	2. 80949	3. 99202 611005/7 657019-7	4. 99679	5. 78839
				
6A. V-Clamp for 18342/18345 78807	6B. Gasket for 18342/18345 98908	6C. Inner support ring for 18342/18345 18927		
				

Horizontal
RHD
Standard

Series **DART**

System No.: 418200005

Type

Euro III
2001 →



CUMMINS

ISBe

5,9 ltr.
6 cyl.

162 KW/220 HP

DiTRAP System

TiL Approved

Front pipe

18182



18183



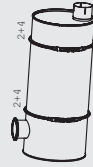
18184



Silencer

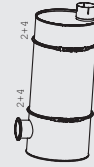
18343

Dinex DiTRAP System



18346

Dinex DiTRAP System
Cordierite



Tail pipe

18655



984217

Replacement DPF module with SiC core



983052

Replacement DPF module with Cordierite core



Mounting Parts

1.

41833



2.

80949



3.

99202
611005/7
657019-7



4.

95408



5A. V-clamp for 18343/18346

78807



5B. Gasket for 18343/18346

98908



5C. Inner support ring for 18343/18346

18927



Horizontal
RHD
Standard

Type

Euro III
1998 →



CUMMINS

ISCe

8,3 ltr.

6 cyl.

194 KW/260 HP

209 KW/280 HP

DiTRAP System

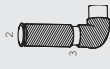
TfL Approved

Front pipe

18185
659746-7



18186
659746-8



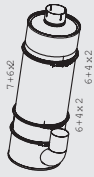
18187
659746-12



Silencer

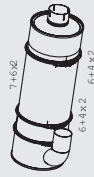
18344

Dinex DiTRAP System



18347

Dinex DiTRAP System
Cordierite



Tail pipe

18656
659746-9



985144

Replacement CAT module



985143

Replacement DPF module with
SiC core



983053

Replacement DPF module with
Cordierite core



Mounting Parts

1.

90120



2.

41833



3.

90106



4.

80949



5.

99303



6.

95407



7.

18931



8.

99202

611005/7
657019-7



9.

18932



10.

98875



11A.

V-clamp for 18344/18347

78806



11B.

Gasket for 18344/18347

98907



11C.

Inner support ring for 18344/18347

98944



Horizontal
RHD
Standard

Series AGORA & R 312

System No.: 264000001

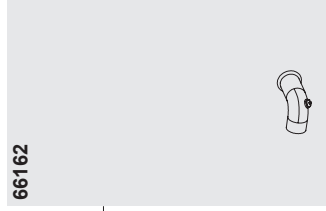
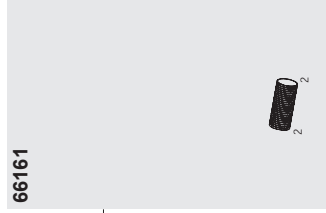
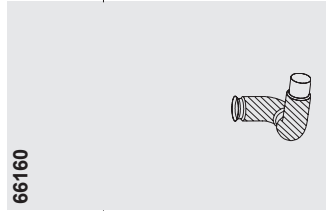
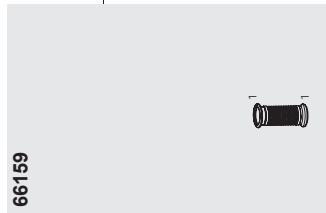
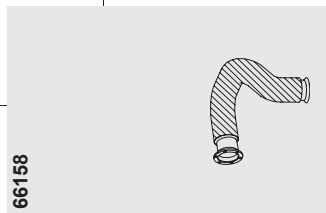
Type

Euro II
01/1996 →

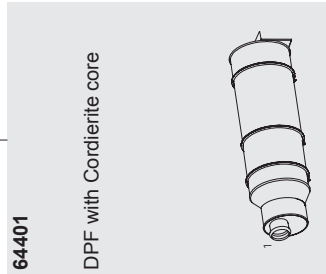


MIDR 06.20.45
9,84 ltr.
6 cyl.
144 KW/196 HP

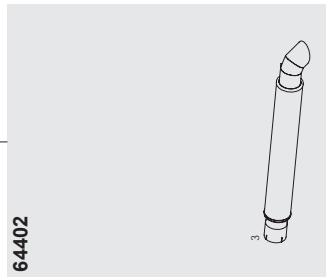
Front pipe



Silencer



Tail pipe



981144

Replacement CAT module



982356

Replacement DPF module with SiC core



982296

Replacement DPF module with Cordierite core



Mounting Parts

1.

41833



2.

99303



3.

99809



4. Gasket for 64401

98970



5. Inner support ring for 64401

98937



6. V-clamp for 64401

78817



Horizontal
LHD/RHD
Standard

Type

Euro II
01/1996 →



MIDR 06.20.45
9,84 ltr.
6 cyl.
185 KW/253 HP
222 KW/302 HP

Front pipe

66158



66159



66160



66161



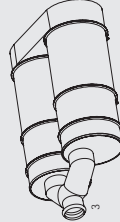
66163



Silencer

64403

DPF with Cordierite core



64404



Tail pipe

Mounting Parts

1.

41833



2.

99303



3.

78815



4.

99202



5. Gasket for
64403

98970



6. Inner support
ring for 64403

98937



7. V-clamp for
64403

78817



981144

Replacement CAT module



982356

Replacement DPF module
with SiC core



982296

Replacement DPF module
with Cordierite core



Horizontal
LHD/RHD
Standard

Type

Euro III → 12/03



A21



D0836

LUH01/02/40/41

7,0 ltr.

6 cyl.

162 KW/220 HP

177 KW/240 HP

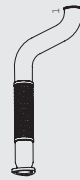
206 KW/280 HP

Front pipe

48135
81.15205.5068



D0836 LUH01/02



48136
81.15205.5066



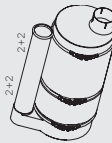
D0836 LUH40/41



Silencer

47327
81.15103.6001

DPF with Cordierite core



47730
81.15205.5107
81.15205.5041

Tail pipe rear short left, lower



Tail pipe

47737
81.15205.5098

Tail pipe left by rear deflector



47004
81.15103.0001

Replacement CAT module



47009
81.15103.0002

Replacement DPF module with SIC core



47005
81.15103.0002

Replacement DPF module with Cordierite core



Mounting Parts

1.

70804
06.67410.3115
06.67419.0009



2.

49910
81.96210.0153
81.96210.0127
81.96210.0602



3.

99714
81.97420.0085
88.15640.2203
81.97420.0152



4.

49838
81.96210.0101



5.

49864
81.97488.0534
81.97487.0780



6.

47827
81.15103.0000



7.

47829
81.15103.0003



8.

47831
81.15103.0005



9.

78825
81.15103.0004



6. Inlet




























7. Outlet


8. Gasket for 47327

9. V-clamp for 47327

Horizontal
LHD/RHD
Standard


Type

- Euro III →
- 13/96 →
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D2866 LUH23/24/25/27-30, 34-37.50-52
 12,0 ltr.
 6 cyl.
 191 KW/260 HP
 228 KW/310 HP
 257 KW/350 HP
 265 KW/360 HP
 301 KW/410 HP

Horizontal
 LHD/RHD
 Standard

Front pipe

48130
 81.15205.5129


Silencer

47324
 81.15103.6003
 DPF with Cordierite core

Series LION'S CITY

System No.: 247000036

Type

Euro III →
13/03



A21

D0836
LUH01/02/40/41

7,0 ltr.

6 cyl.

162 KW/220 HP

177 KW/240 HP

206 KW/280 HP

Front pipe

48138
81.15205.5105

Silencer

47324
81.15103.6003

DPF with Cordierite core

Tail pipe

47729
81.15205.5109

Tail pipe left by rear deflector
26/03 →

47737
81.15205.5098

Tail pipe left by rear deflector
→ 25/03

47730
81.15205.5107
81.15205.5041

Tail pipe rear short left, lower

47001
81.15103.0020

Replacement CAT module

47008
81.15230.0024

Replacement DPF module
with SiC core

47002
81.15230.0024

Replacement DPF module
with Cordierite core

Mounting Parts

1. **70804**
06.67410.3115
06.67419.0009

2. **49910**
81.96210.0153
81.96210.0127
81.96210.0602

3. **99714**
81.97420.0085
88.15640.2203
81.97420.0152

4. **49838**
81.96210.0101

5. **49864**
81.97488.0534
81.97487.0780

6. Inlet
49950
81.15103.0019

7. Outlet
49951
81.15103.0021

8. Gasket for 47324
49940
81.15103.0022

9. V-clamp for 47324
78825
81.15103.0004

Horizontal
LHD/RHD
Standard

Type

Euro III →
11/05



A37
A47
NL 243/283

D0836
LOH40/41/50
7,0 ltr.
6 cyl.
177 KW/240 HP
206 KW/280 HP

Front pipe

49274
81.15204.0411
81.15204.5552



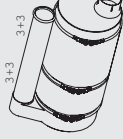
48139
81.15205.5122



Silencer

47324
81.15103.6003

DPF with Cordierite core



Tail pipe

47739
81.15205.5125



47001
81.15103.0020

Replacement CAT module



47008
81.15230.0024

Replacement DPF module with SiC core



47002
81.15230.0024

Replacement DPF module with Cordierite core



Mounting Parts

1. **49932**
51.09901.0036
51.09901.0036
51.09901.0036



2. **70804**
06.67410.3115
06.67419.0009



3. **49910**
81.96210.0153
81.96210.0127
81.96210.0602



4. **99714**
81.97420.0085
88.15640.2203
81.97420.0152



5. **49838**
81.96210.0101



6. Inlet
49950
81.15103.0019



7. Outlet
49951
81.15103.0021



8. Gasket for 47324
49940
81.15103.0022



9. V-clamp for 47324
78825
81.15103.0004




Horizontal
LHD/RHD
Standard

Series LION'S CITY


System No.: 247000049

Front pipe

48143
81.15205.5103

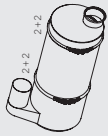


48251
81.15210.0094



47323
81.15103.6002
81.15103.6004


DPF with Cordierite core



Silencer

47745
81.15204.5975


Tail pipe left rear below rear corner
A39
34/03 →



Tail pipe


47746
81.15205.5104

Tail pipe left rear below rear corner




47817
81.15103.0006

Replacement CAT module



986410
81.15103.0016
81.15103.6016

Replacement DPF module with SiC core




986411
81.15103.0016
81.15103.6016

Replacement DPF module with Cordierite core



Mounting Parts

- 99311**
81.15103.0010
 - 49910**
81.96210.0153
81.96210.0127
81.96210.0602
 - 49838**
81.96210.0101
 - 49864**
81.97488.0534
81.97487.0780
 - Outlet
47825
81.15103.0007
 - Ring
98944
81.15103.0014
 - Gasket for 47323
98907
81.15103.0008
 - V-clamp for 47323
78806
- 







- Type**
- Euro III →
 - 13/96 →
 - A20**
Lion's City UE →
 - 13/96 →
 - A21**
Lion's City →
 - 22/96 →
 - A39**
Lion's City DD →
 - 34/03 →

- A23**
Lion's City G →
- 34/96 →
- A25**
Lion's City UELL →
- 08/98 →
- A26**
Lion's City LL →
- 34/98 →

- D2866 LUH**
01/02/20-30,
34-37,50-82
12.0 ltr.
6 cyl.
191 KW/260 HP
228 KW/310 HP
257 KW/350 HP
265 KW/360 HP
301 KW/410 HP


Horizontal
LHD/RHD
Standard

Type


- Euro IV
01/05 →
- 
- 
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- A20
Lion's City UE
13/96 →
- A21
Lion's City
22/96 →
- 
- A23
Loin's City G
34/96 →
- A25
Lion's City UELL
08/98 →
- A26
Lion's City LL
34/98 →
- A39
(ND313)
Lion's City DD
34/03 →

Front pipe


48178
81.15205.5223



49176
81.15210.0017

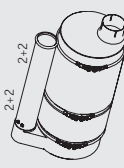


48242
81.15205.5222




47386
81.15103.6021

DPF with Cordierite core




47743
81.15205.5247



Silencer


47001
81.15103.0020

Replacement CAT module




47006
81.15103.6050

Replacement DPF module
with Cordierite core



47010
81.15103.6050

Replacement DPF module
with SiC core



Mounting Parts

1. 70804
06.67410.3115
06.67419.0009



2. 49910
81.96210.0153
81.96210.0127
81.96210.0602



3. 99714
81.97420.0085
88.15640.2203
81.97420.0152



4. 99704
81.97420.2017
83.97420.0500
91.97420.0161



5. Inlet
49952
81.15103.0041



6. Outlet
49951
81.15103.0021



7. Gasket for 47386
49940
81.15103.0022



8. V-clamp for 47386
78825
81.15103.0004



Horizontal
LHD/RHD
Standard

Series LION'S CITY/LION'S CITY UE

System No.: 247000046

Type

Euro III →
13/96



A20
A21



D0836
LUH01/02/40/41
7,0 ltr.
6 cyl.
162 kW/220 HP
177 kW/240 HP
206 kW/280 HP

Front pipe

48142
81.15205.5054



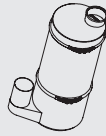
48251
81.15210.0094



Silencer

47323
81.15103.6002
81.15103.6004

DPF with Cordierite core



47501
81.15103.0017



Tail pipe

47740
81.15205.5085



47817
81.15103.0006

Replacement CAT module



986410
81.15103.0016
81.15103.6016

Replacement DPF module with SiC core



986411
81.15103.0016
81.15103.6016

Replacement DPF module with Cordierite core



Mounting Parts

1. **99311**
81.15103.0010



2. Outlet
47825
81.15103.0007



3. Ring
98944
81.15103.0014



4. Gasket for 47323
98907
81.15103.0008



5. V-clamp for 47323
78806



Horizontal
LHD/RHD
Standard

Type

Euro III →



A20
A21

D0836
LUH01/02/40/41

7,0 ltr.

162 KW/220 HP
177 KW/240 HP
206 KW/280 HP

Front pipe

49274
81.15204.0411
81.15204.5552



48138
81.15205.5105

D0836 LUH01/02



48137
81.15205.5113

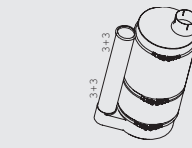
D0836 LUH40/41



Silencer

47324
81.15103.6003

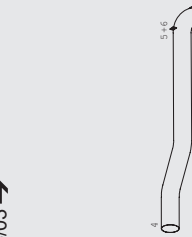
DPF with Cordierite core



Tail pipe

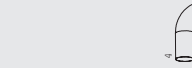
47729
81.15205.5109

Tail pipe left by rear deflector
26/03 →



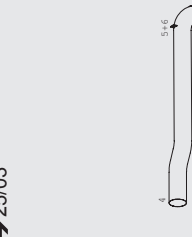
47730
81.15205.5107
81.15205.5041

Tail pipe rear short left, lower



47737
81.15205.5098

Tail pipe left by rear deflector
→ 25/03



Mounting Parts

1. **49932**
51.09901.0036
51.09901.0036
51.09901.0036



2. **70804**
06.67410.3115
06.67419.0009



3. **49910**
81.96210.0153
81.96210.0127
81.96210.0602



4. **99714**
81.97420.0085
88.15640.2203
81.97420.0152



5. **49838**
81.96210.0101



6. **49864**
81.97488.0534
81.97487.0780



7. Inlet
49950
81.15103.0019



8. Outlet
49951
81.15103.0021



9. Gasket for 47324
49940
81.15103.0022



10. V-clamp for 47324
78825
81.15103.0004



47001
81.15103.0020

Replacement CAT module



47002
81.15230.0024

Replacement DPF module
with Cordierite core



47008
81.15230.0024

Replacement DPF module
with SIC core



Horizontal
LHD/RHD
Standard

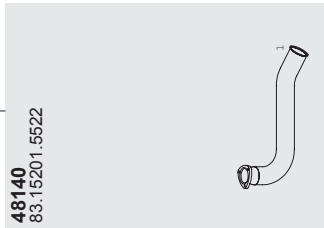
Series LION'S CITY T/LION'S CLASSIC UE

System No.: 247000050

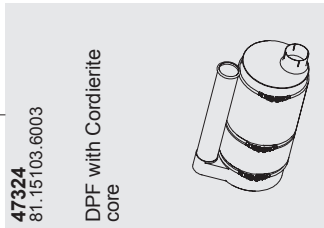
Type
Euro III →
18/99 →

④ X e
A72
Lion's Classic UE
18/99 →
A78
Lion's City T
33/02 →
D0836
LOH01/02/03/04
7,0 ltr.
6 cyl.
162 KW/220 HP
206 KW/280 HP

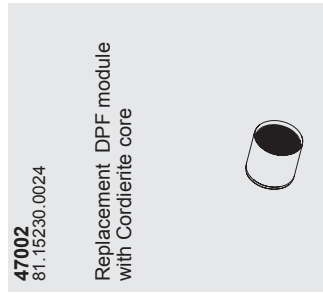
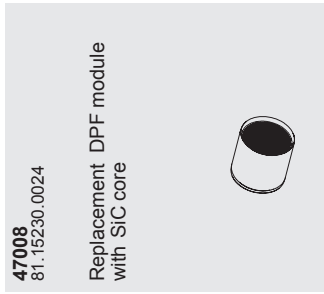
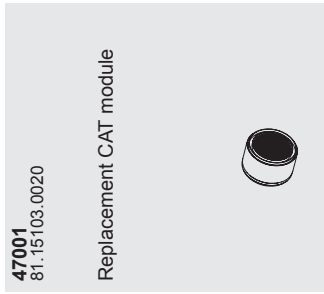
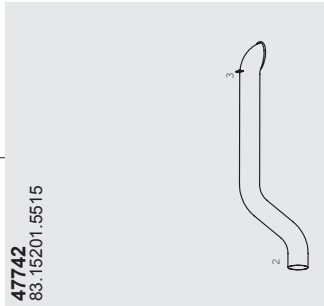
Front pipe










Silencer



Tail pipe



Mounting Parts

1. **70804**
06.67410.3115
06.67419.0009 
2. **99714**
81.97420.0085
88.15640.2203
81.97420.0152 
3. **49838**
81.96210.0101 
4. Inlet **49950**
81.15103.0019 
5. Outlet **49951**
81.15103.0021 
6. Gasket for 47324 **49940**
81.15103.0022 
7. V-clamp for 47324 **78825**
81.15103.0004 

Horizontal
LHD/RHD
Standard

Type

Euro III
01/98 →



Baumuster

628.043
628.045
628.047
628.048
628.143
628.144
628.148
628.243
628.245
628.247
628.248
628.447

Citaro N3
Citaro NUE3
Citaro N3 LANG
Citaro GN3
Citaro GNUJ3
Citaro NUE3

OM 906 HLA
6,4 ltr.
6 cyl.
180 KW/245 HP
205 KW/279 HP

OM 457 HLA
12,0 ltr.
6 cyl.
185 KW/252 HP
220 KW/299 HP
260 KW/354 HP


Horizontal
LHD/RHD
Standard

Front pipe

53185
628.490.0065



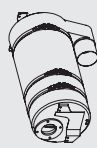
53187
628.490.0165




Silencer

51367
628.490.3214
628.490.2314

DPF with Cordierite core



51390
000.491.0006



50514
628.490.1021


AEM
097921 ▶CHno




Tail pipe

51690
628.490.0027

Excl. BM 628.447




51675
628.490.0127



Mounting Parts


1. **99720**
071.555.120.500
071.555.120.502



2. **99724**
071.555.124.500
000.492.1240
000.492.0040



3. Inlet
51959
000.490.0009




4. Outlet ▶CHno
110023
51960
000.490.0109




4. Outlet 110024
▶CHno
51966
000.490.0809



5. Gasket for 51367
49940
000.491.0880




5. Gasket for 51367
78825
000.995.2602




6. V-clamp for 51367
51011
000.490.2392
000.490.0992

Replacement DPF
with Cordierite core




6. V-clamp for 51367
51013
000.490.2392
000.490.0992

Replacement DPF
with SIC core



Replacement CAT
module



Replacement DPF
with SIC core



Series CITARO

System No.: 250000025

Type

Euro III →
01/98 →

4XE
6XE
O 530

Baumuster

628.040
628.043
628.240
628.243

Citaro N3
Citaro GN3

☞ **OM 906 HLA**
6.4 ltr.
6 cyl.
180 kW/245 HP
205 kW/279 HP

☞ **OM 457 HLA**
12.0 ltr.
6 cyl.
185 kW/252 HP
220 kW/299 HP
260 kW/354 HP

Horizontal
LHD/RHD
Standard

Front pipe

53185
628.490.0065

53187
628.490.0165

Silencer

51368
628.490.2514

DPF with Cordierite core
▶CHno 110371

51369
628.490.3414

DPF with Cordierite core
110372 ▶CHno

51376
000.490.0016

Tail pipe

54683
628.492.2204

Insulation

54685
628.490.0527

Insulation

54686
628.490.1221

AEM Insulation

Mounting Parts

1. **51817**
620.492.6241
396.492.3241

2. **50908**
300.492.0082

3. **50841**
301.491.0215

4. **50907**
322.504.0212

5. **99704**
071.555.104.501
940.492.0240

6. **99720**
071.555.120.500
071.555.120.502

51000
000.490.6714

Replacement CAT
module

51013
000.490.2392
000.490.0992

Replacement DPF
with SIC core

7. **50840**
301.492.0015
301.491.0015
0201.1136.00

8. Inlet
51959
000.490.0009

9. Outlet
51949
000.490.0509

10. Outlet
51969
000.490.1109

11. Gasket for
51368 / 51369
49940
000.491.0880

12. V-clamp for
51368 / 51369
78825
000.995.2602

13. V-clamp for
51368 / 51369
78825
000.995.2602

Type

Euro III



7.3 ltr.

6 cyl.

158 KW/215 HP

184 KW/250 HP

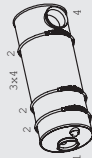
DiTRAP System

TfL Approved

Silencer

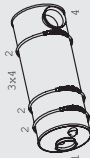
80469

Dinex DiTRAP System



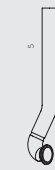
80470

Dinex DiTRAP System



Tail pipe

81725



81726



81723



81724



983932

Replacement CAT module



985140

Replacement DPF module with SIC core



983054

Replacement DPF module with Cordierite core



Mounting Parts

1.

78803



2.

95405



3.

80949
324842
6850149



4.

78815



5.

99202



6.

81929



7.

81928



8.

98875



9A. V-clamp for 80469/80470

78805L



9B. Gasket for 80469/80470

98906



9C. Inner support ring for 80469/80470

81927



Horizontal
RHD
Standard

Series B7 R

System No.: 280000007

Type

Euro IV →



D7E320

7,1 ltr.

6 cyl.

235 KW/320 HP

Front pipe

82240
70330486



82187
20442236

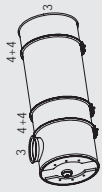


80535
70330488

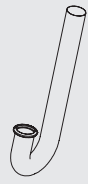


80434
70330450

DPF with Cordierite core



80536
70330489



Tail pipe

80676
70330490



Mounting Parts

1. **80910**
3033054
9522798



2. **80871/T**
3943850
9957387



3. **80848**
508850
1624612
9522768



4. **80950**
6850149
477130800
70308823



5. **90120**
1581047
1581046



6. **80067**
3177962



7. Inlet
80067
3177962



8. **80068**
3177965



9. Support ring for
80434
81927



10. V-clamp for
80434
78805L



11. Gasket for
80434
98906



81001
70314178

Replacement CAT
module



985140
70330455

Replacement DPF
with SIC core



81002
70330455

Replacement DPF
with Cordierite core



Horizontal
LHD/RHD
Standard

Type

Euro IV
09/2005 →



D9B340

9,4 ltr.
6 cyl.
250 KW/340 HP

D9B360

9,4 ltr.
6 cyl.
265 KW/360 HP

D9B380

9,4 ltr.
6 cyl.
280 KW/380 HP

Front pipe

82245
20531166



82187
20442236

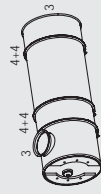


80538
20531167
20816903



80434
70330450

DPF with Cordierite core



80539
70313165



80433
70321547



80740
20817463
70313167



Silencer

Mounting Parts

1.

80910
3033054
9522798



2.

80871/T
3943850
9957387



3.

80848
508850
1624612
9522768



4.

80950
6850149
477130800
70308823



7. Support ring for
80434

81927



8. V-clamp for
80434

78805L



9. Gasket for
80434

98906



81001
70314178

Replacement CAT
module



985140
70330455

Replacement DPF
with SIC core



81002
70330455

Replacement DPF
with Cordierite core

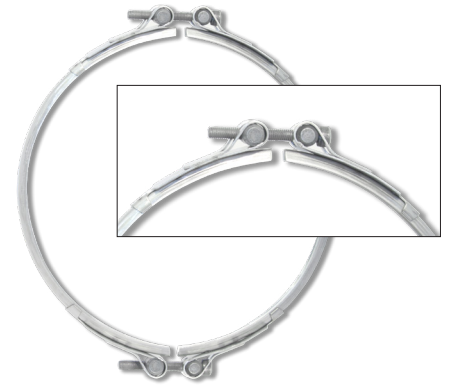


Horizontal
LHD/RHD
Standard

Accessories

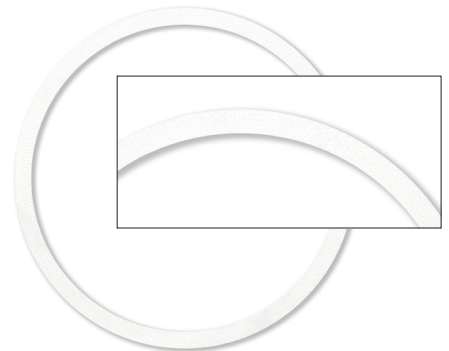
Veefit Clamps

Filter diameter			
mm	inch	Dinex no.	CRT® no.
152	5,66	78836	
206	8,00	78829	QCV8AA
246	9,00	78830	
249	10,00	78804	QCV10A
279		78817	QCVBCB
284	11,13	78805L	QCVBCA
305	12,00	78806	QCV12A
320	12,60	78825	
350	13,75	78807	QCVDNA
406	16,00	78808	QCV16A
451	17,75	78809	QCVHNA
521	20,50	78812	QCVLJA



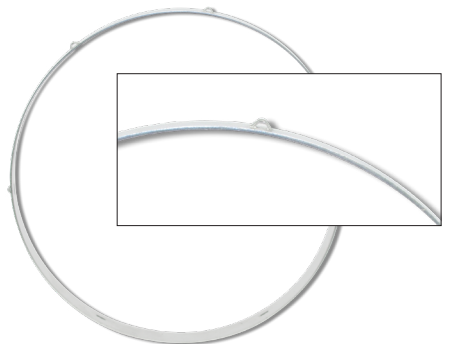
Gaskets

Filter diameter			
mm	inch	Dinex no.	CRT® no.
152	5,66	98958	
206	8,00	98910	QG43
249	10,00	98905	QG44
284	11,13	98906	QG66
305	12,00	98907	QG46
320	12,60	98931	
350	13,75	98908	QG47
406	16,00	98909	QG48
451	17,75	98911	QG49
521	20,50	98912	QG50



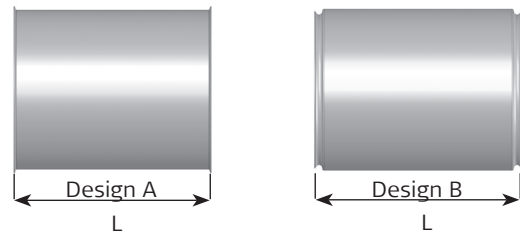
Support Rings

Filter diameter			
mm	inch	Dinex no.	CRT® no.
152	5,66	98959	
206	8,00	98939	WM425
249	10,00	98940	WM427
284	11,13	81927	WM428
305	12,00	98944	WM429
320	12,60	98932	
350	13,75	18927	WM430
406	16,00	98949	WM431
451	17,75	98950	WM432
521	20,50	98951	WM433



Universal Parts & Accessories

(CRT® Replacements)

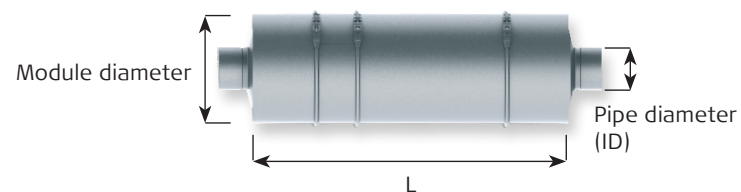


Continuous Regeneration Trap Replacements - Universal Design A

Filter Body size inch (ØxL)	Filter Body size mm (ØxL)	Substrate size inch (ØxL)	Dinex no. SiC	Dinex no. Cordierite	Dinex no. DOC	Power rating kW
8 x 10	206 x 259	7,5 x 8	982460	982462	981276	40 - 70
8 x 14	206 x 360	7,5 x 12	982487	982489	981276	65 - 100
9 x 13,5	249 x 346	9 x 12	982289	982495	981242	110 - 150
9 x 14	249 x 360	9 x 12	982499	982497	981242	110 - 150
10,5 x 14	284 x 350	10,5 x 12	982253	983054	983932	135 - 200
12 x 14	300 x 360	11,25 x 12	982507	982510	985144	185 - 225
12 x 17	305 x 430	11,25 x 14	982251	982295	985144	225 - 265
13,75 x 14,75	320 x 386	12 x 13	982252	982294	983938	250 - 275
13,75 x 17	320 x 436	12 x 15	982291	982355	983938	275 - 310

Continuous Regeneration Trap Replacements - Universal Design B

Filter Body size inch (ØxL)	Filter Body size mm (ØxL)	Substrate size inch (ØxL)	Dinex no. SiC	Dinex no. Cordierite	Dinex no. DOC	Power rating kW
10,5 x 14	277 x 370	10,5 x 12	982356	982296	981144	275 - 310



Universal Assembled Modules

SiC no.	Cordierite no.	Substrate size	Module diameter	Module length	Pipe diameter (ID)	Power rating kW
42447	42448	7,5 x 12	206	770	76,1	65 - 100
42433	42440	9 x 12	249	760	101,6	110 - 150
42434	42441	10,5 x 12	284	770	101,6	135 - 200
42435	42442	11,25 x 12	297	770	101,6	185 - 225
42436	42443	11,25 x 14	297	840	101,6	225 - 265
42437	42444	12 x 13	317	810	101,6	250 - 275
42438	42445	12 x 15	317	840	101,6	275 - 350
42439		15 x 15	397	915	127,0	330 - 475

Retrofitting with DiTRAP®



Approvals

The DiTRAP® filter range is both RPC and London LEZ approved. In addition to this we have carried out specific TfL London Bus route tests on the Dennis Dart, Trident and Volvo B7TL and as such this technology can also be fitted to those vehicles operating on the TfL bus routes. Additionally several single modules offered have been approved for relevant markets to use for spare parts.

Product Range

With the introduction of the DiTRAP® programme, Dinex introduces amongst others complete emission systems to fully, or part by part, replace existing CRT® systems on Dennis, Irisbus, MAN, Mercedes and Volvo buses. These systems can be seen on page 9-27.

Additionally the systems are accompanied by a range of filter modules, all offered in SiC and Cordierite versions, that cover more than 40 trucks and buses. Market experience indicates that the failure rate of the CRT® Cordierite filters are much higher than other parts of the CRT® system. See page 6 - 8 for a cross reference list between vehicles and corresponding OE- and Dinex partnumbers, and a reference to all needed clamps and gaskets.



Last but not least Dinex offers an extensive universal programme, for building up specialized solutions out of top quality components.

The Dinex universal DiTRAP® range presented on page 29 can be used to build customized DiTRAP® systems for the purpose of retrofitting pre-EURO IV vehicles



to EURO IV PM-requirements. The DiTRAP® concept of installing a highly active DOC in front of an uncoated particulate filter, is particularly suitable for retrofitting older vehicles which usually perform at lower exhaust gas temperatures and produce higher emission levels.

Before retrofitting with a customized DiTRAP® system, there are factors that should be considered. Please read the guidelines below and contact your local Dinex sales office for further advice and assistance if in doubt.

Vehicle and engine requirements

To ensure good functionality of the DiTRAP® system, there are some operating requirements to the vehicle.

First of all the engine must be in good working, standard condition, and not produce unusually high emission levels. Immense production of particulate matter will overburden the DiTRAP® system, and make it block in a short time.

Exhaust gas temperature is also important, as this is the key element to starting a regeneration of the filter. If you are in doubt of the temperature requirements for your vehicle, it is recommended that you contact Dinex for assistance.

If in doubt on whether the vehicle and your everyday

use of it comply with the requirements, a measuring of the vehicles temperature profile over a suitable period of time might be a good idea. This will result in a very accurate mapping of the vehicle's normal driving cycle, and indicate whether or not retrofitting with DiTRAP® is a suitable solution.

Filter type: SiC vs. Cordierite

The original CRT® systems are all designed with ceramic Cordierite filters. Cordierite is a cost-effective material, attractive in procurement and processing. Silicon Carbide (SiC) filters has an outstanding mechanical strength and it offers 5 times higher soot load capacity than cordierite. This makes the SiC filter perfect for retrofitting applications, as it suffers much less from continuously changing temperatures, mechanical impacts, and extended periods between regenerating events.



SiC vs. Cordierite

	Cordierite no.	SiC
Weight	***	**
Mechanical durability	*	***
Thermal durability	*	***
Soot load capacity	*	***

Filter size

The amount of exhaust gas coming from the engine is highly dependent on the engine's power rating. The more horse power produced, the more exhaust gas must be expelled. The correct size of filter is therefore essential: too small will make the filter become a bottleneck in the exhaust system, too big will make it harder to heat the filter to the point of regeneration. Refer to the recommended power rating values stated for each filter size at page 29.

For further information please contact your local Dinex sales office or see our website.



Dinex Technology Center

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going the extra mile

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