

## Clean Vehicle Retrofit Accreditation Scheme

**CVRAS approved companies and emission reduction systems - Version: 20 Date: 18.10.2019**

This listing contains details of companies and their systems approved under the scheme requirements, along with their contact information (where available) and the categories of vehicle to which their systems can be applied in order to make the vehicle Clean Air Zone compliant.

| Company information   | Technology                                     | Product                     | Application status | Vehicle Category                | Approved vehicle applications  |  |
|---|--|-----------------------------|--------------------|---------------------------------|--|--|
| <b>Eminox Ltd</b><br>(Gainsborough, UK)<br><br><a href="mailto:enquiries@eminox.com">enquiries@eminox.com</a><br>Tel: +44(0)1427 810088 | Retrofit exhaust after-treatment system (SCRT) | Eminox SCRT®                | Approved           | Bus                             | Double Deck Buses <ul style="list-style-type: none"> <li>• Cummins ISBe 6.7 litre Euro IV &amp; V powered</li> <li>• Volvo D5F 4.8 litre Euro IV &amp; V powered</li> <li>• Volvo D9B 9.4 litre Euro IV &amp; V powered</li> <li>• Scania DC901 9.0 litre Euro III, IV and V powered</li> <li>• Volvo D7C 7.3 litre Euro III powered</li> <li>• Volvo D7E 7.1 litre Euro IV &amp; V powered</li> </ul> | Single Deck Buses <ul style="list-style-type: none"> <li>• Scania DC901 9.0 litre Euro III, IV and V powered</li> <li>• Cummins ISBe 5.9 litre Euro III powered</li> <li>• Cummins ISBe 4.5 litre Euro IV and V powered</li> <li>• Volvo D7C 7.3 litre Euro III and IV powered</li> <li>• Volvo D7E 7.1 litre Euro IV and V powered</li> </ul> |
|   | Retrofit exhaust after-treatment system (SCRT) | Eminox DPF+SCR with Amminex | Approved           | Refuse Collection Vehicle (RCV) | <ul style="list-style-type: none"> <li>• Dennis Eagle Elite with Volvo D7C 7litre Euro V</li> <li>• Mercedes Benz Econic 6.3 litre Euro V</li> </ul>   |  |

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|  |  | ASDS                                    |          |       |   |
|  | Retrofit exhaust after-treatment system        | Eminox SCRT®                            | Approved | Coach | <ul style="list-style-type: none"> <li>Volvo B9R with D9B 9.4litre Euro IV and V engine</li> <li>Mercedes Benz Tourismo with MB OM457 12litre Euro V engine</li> </ul>  |
| <b>Amminex Emissions Technology A/S</b><br>(Soborg, Denmark)   | Retrofit exhaust after-treatment system        | Eminox DPF+SCR with Amminex ASDS        | Approved | Bus   | <ul style="list-style-type: none"> <li>Volvo D9B 9.4 litre Euro IV &amp; V powered</li> <li>Cummins ISBe 4.5 litre Euro IV and V powered</li> </ul>   |
| <b>HJS Emission Technology GmbH &amp; Co KG</b><br>(Menden, Germany)<br><br><i>UK Representation:</i><br><b>HJS UK Ltd</b> (Bracknell)<br><br><a href="mailto:mark.cooper@hjs.com">mark.cooper@hjs.com</a><br>Tel: +44(0)1344 566050 | Retrofit exhaust after-treatment system (SCRT) | HJS SCRT 21, 35,36,38,40, 41 42, 44, 48 | Approved | Bus   | <p>Double Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 6.7 litre Euro IV &amp; V powered</li> <li>Cummins ISBe 4.5 litre Euro IV &amp; V powered hybrid</li> <li>Volvo D5F 4.8 litre Euro IV &amp; V powered</li> <li>Volvo D9B 9.4litre Euro IV &amp; V powered</li> <li>Volvo D7C 7.3 litre Euro IV &amp; V (Volvo B7TL)</li> <li>Volvo D7C 7.3 litre Euro III (Volvo B7TL)</li> </ul> <p>Single Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 4.5litre Euro IV &amp; V powered</li> <li>Volvo D7C/D7E 7.3/7.1litre Euro IV &amp; V powered (Volvo B7RLE)</li> <li>Volvo D7C 7.3 litre Euro III powered (Volvo B7RLE)</li> <li>Mercedes Benz OM904LA Euro IV &amp; V powered (e.g. Optare Solo)</li> <li>Mercedes Benz OM457LA 12.0 litre Euro V powered (e.g. MB Citaro O530)</li> <li>Mercedes Benz</li> </ul> |

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|  |  |                           |          |       |   | <p>OM906LA 6.4 litre Euro V powered (e.g. MB Citaro O530)</p> <ul style="list-style-type: none"> <li>Mercedes Benz OM926LA 7.2 litre Euro V powered (e.g. MB Citaro O530)</li> </ul>  |
| <p><b>Baumot AG</b><br/>(Konigswinter, Germany)</p> <p><i>UK Representation:</i><br/><b>Baumot UK Ltd</b> (Towester)</p> <p><a href="mailto:enquiries@baumot.co.uk">enquiries@baumot.co.uk</a><br/>Tel: +44 (0)1327 226930</p>                           | Retrofit exhaust after-treatment system (SCRT) | Baumot BNOx               | Approved | Bus   | <p>Double Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 6.7 litre Euro IV &amp; V powered</li> <li>Scania DC9 9.3 litre Euro III, IV and V powered</li> </ul>  | <p>Single Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 4.5litre Euro IV &amp; V powered</li> <li>Cummins ISBe 6.7 litre Euro IV &amp; V powered</li> <li>Scania DC9 9.3 litre Euro III, IV and V powered</li> </ul>           |
|  | Retrofit exhaust after-treatment system (SCRT) | Baumot BNOx               | Approved | Coach | <ul style="list-style-type: none"> <li>Scania DC9 9.3 litre Euro IV &amp; V (e.g. Scania K360 chassis based series coaches, Irizar K360, Caetano Levante K360, Scania Omni Express)</li> </ul>  |   |
| <p><b>Proventia Oy</b><br/>(Oulunsalo, Finland)</p> <p><i>UK Representation:</i><br/><b>Excalibre Technologies Ltd</b><br/>(Gloucestershire)</p> <p><a href="mailto:sales@excalibretech.com">sales@excalibretech.com</a><br/>Tel: +44 (0)1594 887414</p> | Retrofit exhaust after-treatment system (SCRT) | Proventia NOxBUSTER City™ | Approved | Bus   | <p>Double Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 4.5 litre Euro V (hybrid)</li> <li>Volvo D5F 4.8 litre Euro V (hybrid)</li> <li>Volvo D9B 9.4 litre Euro IV &amp; V powered</li> <li>Cummins ISBe 6.7</li> </ul> | <p>Single Deck Buses</p> <ul style="list-style-type: none"> <li>Cummins ISBe 4.5 litre Euro IV &amp; V</li> <li>Cummins ISBe 4.0 litre Euro III</li> <li>Cummins ISBe 6.7 litre Euro IV &amp; V</li> <li>Mercedes Benz OM906LA 6.4 litre</li> </ul> |

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|---|--|---------------------------|----------------------------------|---|--|--|
|   |  |                           |                                  |   | litre Euro IV & V  | <p>Euro IV &amp; V (Citaro O530)</p> <ul style="list-style-type: none"> <li>Mercedes Benz OM457LA 12.0 litre Euro V (e.g. MB Citaro O530)</li> <li>Mercedes Benz OM926LA 7.2 litre Euro V (e.g. MB Citaro O530)</li> </ul> |
|   | Retrofit exhaust after-treatment system (SCRT) | Proventia NOxBUSTER City™ | Approved                         | Coach   | <ul style="list-style-type: none"> <li>DAF PR265 9 litre Euro IV &amp; V (e.g. Temsa Safari HD/RD, VDL/Bova Futura, Irizar i6)</li> </ul>          |  |
|   | Retrofit exhaust after-treatment system (SCRT) | Proventia NOxBUSTER City™ | Approved                         | Refuse Collection Vehicle (RCV)   | <ul style="list-style-type: none"> <li>Mercedes Benz Econic 6.3 litre Euro V</li> </ul>  |  |
|   | Retrofit exhaust after-treatment system (SCRT) | Proventia NOxBUSTER City™ | Approved                         | HGV   | <ul style="list-style-type: none"> <li>Mercedes Benz Atego 13t -15t GVW Euro IV/V/EEV</li> <li>Mercedes Benz Axor 18t GVW Euro IV/V/EEV</li> </ul> |  |
| <b>GreenUrban Technologies Ltd</b><br>(Penrith, UK) | Retrofit exhaust after-treatment system (SCRT) | ecoNOxt system            | Approval withdrawn on 24.10.2018 | Green Urban Technologies have no systems approved under the CVRAS requirements. |  |  |

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| <p><b>Cummins Engine Company Ltd</b><br/>(Darlington, UK)<br/><a href="mailto:alex.waller@cummins.com">alex.waller@cummins.com</a><br/>Tel: +44 1327 886 364</p> | Euro VI engine re-power | Full Cummins Euro VI engine + after-treatment system | Approved | Bus                             | Double deck <ul style="list-style-type: none"> <li>ADL Enviro 400</li> <li>ADL Enviro 400H</li> <li>VDL DB300</li> <li>Wrightbus Eclipse Gemini</li> </ul>  | Single deck <ul style="list-style-type: none"> <li>ADL Enviro 200</li> <li>ADL Enviro 300</li> <li>Optare Solo</li> <li>Wrightbus Streetlite</li> </ul>   |
| <p><b>Magtec</b><br/>(Sheffield, UK)<br/><a href="mailto:s.buckley@magtec.co.uk">s.buckley@magtec.co.uk</a><br/>Tel: +44 (0)114 244 8416</p>                     | EV re-power             | MagTec electric vehicle drivetrain systems           | Approved | Bus                             | Double deck <ul style="list-style-type: none"> <li>Dennis Trident</li> <li>Scania N94UD</li> <li>Scania Omnicity</li> <li>Scania Citywide</li> <li>Volvo B7TL</li> <li>Volvo B9TL</li> <li>ADL Enviro 400</li> <li>ADL Enviro 400H</li> <li>Wrightbus Eclipse Gemini</li> <li>MAN Lion</li> <li>UNVI Urbis</li> <li>AYATS Bravo City</li> </ul> | Single <ul style="list-style-type: none"> <li>Dennis Dart</li> <li>Scania Omnicity</li> <li>Wrightbus Streetlite</li> <li>Optare Tempo</li> <li>Optare Versa</li> <li>Optare Solo</li> <li>Optare Metrocity</li> <li>MAN Lion</li> <li>ADL Enviro 200</li> <li>Scania Citywide</li> <li>Mercedes Benz Citaro</li> </ul> |
|  | EV re-power             | MagTec electric vehicle drivetrain systems           | Approved | HGV                             | <ul style="list-style-type: none"> <li>DAF LF series from 7.5t to 18t</li> <li>Isuzu 5.5t to 13.5t</li> <li>Iveco Eurocargo 6.5t to 18t</li> <li>Dennis Eagle Elite 18t to 26t</li> <li>MAN TGL 7t to 12t</li> <li>MAN TGM 13t to 26t</li> </ul>  |   |
|  | EV re-power             | MagTec electric vehicle drivetrain                   | Approved | Refuse Collection Vehicle (RCV) | <ul style="list-style-type: none"> <li>Mercedes Benz Econic</li> <li>Dennis Eagle Elite 18t to 26t</li> </ul>   |   |

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|--|--|--|---|------------------|---|---|
|  |  | systems  |   |                  |   |   |
| <b>Vantage Power Ltd</b><br>(Greenford, UK)<br><br><a href="mailto:general@vantage-power.com">general@vantage-power.com</a><br>Tel: +44(0)208 8130 850   | Re-power                                       | Vantage Power B320 Euro VI hybrid system (ft. Cummins ISBe 4.5 Euro VIc) | Application submitted and accepted<br><br><i>Approval in progress</i> | Bus              | To be advised   | To be advised   |
| <b>Vehicle Repowering Solutions Ltd (VRS)</b><br>(Alcester, UK)<br><br><a href="mailto:info@vehiclerepowering.com">info@vehiclerepowering.com</a><br>Tel: +44 (0) 7432 515 231   | Re-power and LPG conversion                    | GasCab   | Approved  | Taxi (Black Cab) | Conversion of TX1, TX2 and TX4  |   |
| <b>Millbrook Special Vehicles Ltd</b><br>(Millbrook, Bedford, UK)<br><br><a href="mailto:info@millbrooksv.co.uk">info@millbrooksv.co.uk</a><br>Tel: +44 (0)1525 404242<br><br><a href="http://www.millbrookspecialvehicles.co.uk">www.millbrookspecialvehicles.co.uk</a> | Diesel engine re-power                         | Full Cummins ISBe 6.7 litre Euro VI engine + after-treatment system      | Approved  | Bus              | ADL Enviro 400 (All variants)<br>ADL Enviro 400H<br>Wright Eclipse Gemini (All variants)<br>Volvo B9TL<br>New Routemaster NB4L<br>Scania ADL Enviro 400S<br>Scania N Series<br>MCV EvoSeti<br>MCV DD103 |   |
| <b>Driveline Emissions Technologies Ltd</b><br>(Penrith, Cumbria UK)<br><br><a href="mailto:customerservices@drivelineemissions.com">customerservices@drivelineemissions.com</a>   | Retrofit exhaust after-treatment system (SCRT) | ecoNOxt system   | Approved  | Bus              | Double Deck<br>• Volvo D7C 7.3 litre Euro III (Volvo B7TL)  | Single deck<br>• Volvo D7C 7.3 litre Euro III (Volvo B7RLE) |

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|--|--------------------|---|-----------------|------------|---|
| <p>Tel: +44 (0)1768 210 111</p> <p><a href="http://www.drivelineemissions.com">www.drivelineemissions.com</a></p>  |                    |   |                 |            |   |
| <p><b>Astra Vehicle Technologies Ltd</b><br/>(Ellesmere Port, Cheshire, UK)</p> <p><a href="mailto:sales@astra-vt.com">sales@astra-vt.com</a></p> <p>Tel: +44(0)151 348 5777</p> <p><a href="http://www.astra-vt.com">www.astra-vt.com</a></p> | <p>EV re-power</p> | <p>EMOSS full electric drive train system</p> | <p>Approved</p> | <p>HGV</p> | <p>MAN 3.5t – 45t GVW<br/>DAF 3.5t – 45t GVW<br/>IVECO 3.5t – 45t GVW<br/>MAN TGS (34t)</p> |