

## Non Road Mobile Machinery Retrofit Accreditation Scheme (NRMM RAS) – Open List

NRMM RAS approved companies and emission reduction systems - Version: 13 Date: 18.07.2023

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 NRMM engine to which their systems can be applied in order to make the piece of NRMM compliant with Local Authority regulations such as the GLA's LEZ for NRMM.

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Eminox Ltd</b> (Gainsborough, UK)  Email: <a href="mailto:enquiries@eminox.com">enquiries@eminox.com</a> Tel: +44(0)1427 810088  <a href="http://www.eminox.com">www.eminox.com</a>	Retrofit exhaust after-treatment system (DPF) <b>For PM reduction only.</b>	Eminox CRT®	Class IIA	Approved	☑	☑	☑	☑	☑	☑
	Retrofit exhaust after-treatment system (DPF) <b>For PM reduction only.</b>	Eminox CRT FBC	Class I	Approved  Approved for Stage IIIA & IIIB engines in power range 37-56kW to achieve	☑	☑	☑	☑	☑	☑

				Stage V equivalence						
	Retrofit exhaust after- treatment system (SCRT). <b>For PM and NOx reduction</b>	Eminox EMxS5 System (DPF+SCR with urea Adblue)	Class IV	Approved		<input checked="" type="checkbox"/>				

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>HJS Emission Technology GmbH &amp; Co KG</b> (Menden, Germany)  <i>UK Representation:</i> <b>HJS UK Ltd</b> (Swindon)  <a href="mailto:mark.cooper@hjs.com">mark.cooper@hjs.com</a> Tel: +44(0)1344 566050  <a href="http://www.hjs.com">www.hjs.com</a>  <i>NRMM RAS Approved HJS Distributor:</i> <b>Cybrand AEC Limited</b> Thornton Science Park Ince, Chester, CH2 4NU  <a href="mailto:sales@cybrand.co.uk">sales@cybrand.co.uk</a> Tel: +44(0)1244 567100  <a href="http://www.cybrand.co.uk">www.cybrand.co.uk</a> Note: Cybrand AEC Limited are approved to	Retrofit exhaust after-treatment system (DPF) with passive regeneration <b>For PM reduction only</b>	HJS CRT-SMF	Class IIA	Approved	☑	☑	☑	☑	☑	☑
	Retrofit exhaust after-treatment system (DPF) with active regeneration by FBC and electrical heating element <b>For PM reduction only</b>	HJS SMF-AR	Class I	Approved  Approved for Stage IIIA & IIIB engines in power range 37-56kW to achieve Stage V equivalence	☑	☑	☑	☑	☑	☑
	Retrofit exhaust after-treatment system (DPF)	HJS SMF-ER	Class I	Approved for engines up to 130kW	☑ for engines			☑ for engines		

supply the HJS approved products listed	for short term duration fitment <b>For PM reduction only</b>			Approved for Stage IIIB engines in power range 37-56kW to achieve Stage V equivalence	up to 130kW				up to 130kW		
	Retrofit exhaust after-treatment system (SCRT). <b>For PM and NOx reduction</b>	HJS SCRT Baukasten	Class IV	Approved	<input checked="" type="checkbox"/>						
	Retrofit exhaust after-treatment system (SCR). <b>For NOx reduction only and where a full flow Stage IIIB or Stage IV OEM DPF is fitted</b>	HJS SCR Baukasten	Class III	Approved	<input checked="" type="checkbox"/>						

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Magtec</b> (Sheffield, UK)  Email: <a href="mailto:info@magtec.co.uk">info@magtec.co.uk</a>  Tel: +44 (0)114 244 8416  <a href="http://www.magtec.co.uk">www.magtec.co.uk</a>	Electric drivetrain re-power	MagTec electric drivetrain systems	N/a	Approved	☑	☑	☑			

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Driveline Emissions Technologies Ltd</b> (Penrith, Cumbria UK)  Email: <a href="mailto:customerservices@drivelineemissions.com">customerservices@drivelineemissions.com</a>  Tel: +44 (0)1768 210 111  <a href="http://www.drivelineemissions.com">www.drivelineemissions.com</a>	Retrofit exhaust after-treatment system (DPF) <b>For PM reduction only</b>	ecoTrap system	Class IIA	Approved	☑	☑	☑	☑	☑	☑
	Retrofit exhaust after-treatment system (DPF) with electrical heater regeneration <b>For PM reduction only</b>	ecoTRAP - H	Class I	Approved  Approved for Stage IIIA & IIIB engines in power range 37-56kW to achieve Stage V equivalence	☑	☑	☑	☑	☑	☑
	Retrofit exhaust after-treatment system (DPF+SCR) <b>For PM and NOx reduction</b>	ecoNOxt system	Class IV	Approved	☑	☑	☑	☑	☑	☑

	Retrofit exhaust after-treatment system (SCR). <b>For NOx reduction only and where a full flow Stage IIIB or Stage IV OEM DPF is fitted</b>	ecoNOxt system	Class III	Approved	<input checked="" type="checkbox"/>					
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Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Johnson Matthey GmbH &amp; Co KG</b>  <i>UK Representation:</i> <b>BISAF Limited</b> London,  Email: <a href="mailto:dpf@bisaf.co.uk">dpf@bisaf.co.uk</a>	Retrofit exhaust after-treatment system (DPF) with diesel burner regeneration <b>For PM reduction only</b>	DPF -BU	Class IIA	Approved	<input checked="" type="checkbox"/>					

<p>Tel: +44 (0)20 7326 5714 <a href="http://www.bisaf.co.uk">www.bisaf.co.uk</a></p>	<p>Retrofit exhaust after-treatment system (DPF) with exchangeable filter for external regeneration <b>For PM reduction only</b></p>	DPF-C	Class I	<p>Approved</p> <p>Approved for Stage IIIA &amp; IIIB engines in power range 37-56kW to achieve Stage V equivalence</p>	<input checked="" type="checkbox"/>					
	<p>Retrofit exhaust after-treatment system (DPF) with continuous regeneration. <b>For PM reduction only</b></p>	DPF-CRT® and CCRT®	Class IIA	Approved	<input checked="" type="checkbox"/>					
	<p>Retrofit exhaust after-treatment system (DPF) with catalysed soot filter</p>	DPF-CSF	Class IIA	Approved	<input checked="" type="checkbox"/>					

	<b>For PM reduction only</b>									
	Retrofit exhaust after-treatment system (DPF) with electrical heater regeneration <b>For PM reduction only</b>	DPFi	Class I	Approved  Approved for Stage IIIA & IIIB engines in power range 37-56kW to achieve Stage V equivalence	<input checked="" type="checkbox"/>					
	Retrofit exhaust after-treatment system (DPF) with fuel additive regeneration (fuel borne catalyst (FBC)	DPFiS	Class I	Approved  Approved for Stage IIIA & IIIB engines in power range 37-56kW to achieve	<input checked="" type="checkbox"/>					

	<b>For PM reduction only</b>			Stage V equivalence						
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Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Industrial &amp; Marine Silencers Ltd</b> (Shepshed, Leicestershire, UK)  Tel: +44 (0)1509 506792 Email: sales@silencers.co.uk  <a href="http://www.silencers.co.uk">www.silencers.co.uk</a>	Retrofit exhaust after-treatment system (SCRT). <b>For PM and NOx reduction</b>	IMSeco SCRT System	Class IV	Approved						<input checked="" type="checkbox"/>

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<b>Power Electrics (Bristol) Ltd</b> (Bristol, UK)  Tel: +44 (0)370 850 0858  <a href="http://www.powerelectrics.com/contact">www.powerelectrics.com/contact</a>	Retrofit exhaust after-treatment system (SCRT). <b>For PM and NOx reduction</b>	UlltraGreen System	Class IV	Approved				☑		

Company information	Technology	Product	REC Type	Application status	Approved NRMM engine applications					
					Variable speed engines			Constant speed engines		
					37kW-150kW	150kW-300kW	300kW-560kW	37kW-150kW	150kW-300kW	300kW-560kW
<p><b>Proventia Oy</b> (Oulunsalo, Finland) <a href="http://www.proventia.com">www.proventia.com</a></p> <p>UK Representation: Excalibre Technologies Ltd (Gloucestershire) <a href="mailto:sales@excalibretech.com">sales@excalibretech.com</a></p> <p>Tel: +44 (0)1594 887414 <a href="http://www.excalibretech.com">www.excalibretech.com</a></p>	Retrofit exhaust after-treatment system (SCRT). <b>For PM and NOx reduction</b>	Proventia NOxBUSTER (DPF + SCR system)	Class IV	Approved	☑			☑		

Notes

Retrofit Emission Control (REC) Types and Class (Definitions taken from *UN ECE Regulation 132 - Uniform provisions concerning the approval of Retrofit Emission Control devices (REC) for heavy duty vehicles, agricultural and forestry tractors and non-road mobile machinery equipped with compression ignition engines.*

"Class I Retrofit Emission Control device (REC)" means a retrofit emission control device which is intended to control particulate matter (PM) emissions only, and which does not increase the direct NO<sub>2</sub> emissions.

"Class IIA retrofit emission control device (REC)" means a REC device which is intended to control particulate matter (PM) emissions only, and which does not increase the direct tailpipe NO<sub>2</sub> emissions by more than 20 percentage points based on the engine baseline emission NO<sub>2</sub> level.

"Class IIB retrofit emission control device (REC)" means a REC device which is intended to control particulate matter emissions only, and which does not increase the direct tailpipe NO<sub>2</sub> emissions by more than 30 percentage points based on the engine baseline emission NO<sub>2</sub> level.

"Class III Retrofit Emission Control device (REC)" means a REC device which is intended to control NO<sub>x</sub> emissions only.

"Class IV Retrofit Emission Control device (REC)" means a REC device which is intended to control both particulate matter emissions and NO<sub>x</sub> emissions

**Guide to retrofit emission control device fitment**

Original engine Stage level	Retrofit Emission Control (REC) device class added to NRMM	Resultant Stage Equivalence
Stage II without DPF or SCR	REC Class I, IIA, IIB REC Class III REC Class IV	Stage IIIB for PM only Stage IV for NO <sub>x</sub> only Stage V for PM and NO <sub>x</sub>
Stage IIIA without DPF or SCR 37<56kW	REC Class I	Stage IV and V for PM and NO <sub>x</sub>

Stage IIIA without DPF or SCR	REC Class IIA, IIB REC Class III REC Class IV	Stage IIIB for PM only Stage V for NOx only Stage V for PM and NOx
Stage IIIB without DPF or SCR 37<56kw Stage IIIB without DPF or SCR >56kw Stage IIIB with DPF only Stage IIIB with SCR only	REC Class I REC Class IV REC Class III REC Class I, IIA, IIB	Stage V for PM and NOx Stage V for PM and NOx Stage V for PM and NOx Stage V for PM and NOx
Stage IV without DPF or SCR Stage IV with DPF but without SCR Stage IV with SCR only	REC Class IV REC Class III REC Class I, IIA, IIB	Stage V for PM and NOx Stage V for PM and NOx Stage V for PM and NOx

Note: DPF = REC Class I, IIA, IIB  
 SCR = REC Class III  
 DPF + SCR = REC Class IV