

# Ironman On-Road Technology



	CLEAIRE VISTA™	CLEAIRE HORIZON®	CLEAIRE LONGVIEW®	CLEAIRE LONGMILE®
Filter Type	Active diesel particulate filter with diesel burner regeneration	Active diesel particulate filter with electric heater regeneration	Passive diesel particulate filter with NOx reduction	Passive diesel particulate filter
CARB Verified	Yes	Yes	Yes	Yes
Engine PM Limit	0.10 g/bhp-hr PM and lower	None	0.10 g/bhp-hr PM and lower	0.10 g/bhp-hr PM and lower
Engine Model Years	1993-2006	1960-2006	1993-2006	1993-2006
Engine Displacement	Up to 13 liters	Up to 15 liters	Up to 15 liters	5.3 to 16 liters
CARB Exclusions	Consult with Ironman	No 2-stroke engines No OE - diesel particulate filter	Consult with Ironman	Consult with Ironman
Typical Applications	Light duty cycle: municipality & utility truck, refuse and other on-road vehicles.	Consult with Ironman	Transit bus, refuse truck, motor coach, intrastate linehaul, goods movement, and other on-road vehicles	School bus, transit bus, refuse truck, motor coach, goods movement truck, linehaul and other on-road vehicles
PM Reduction	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)
Nox Reduction	None	None	At least 25%	None
Fuel Compatibility	ULSD	• ULSD • Up to B20	• ULSD • Up to B20	• ULSD • Up to B20
Exhaust Temperature Requirement	None	None	260°C for at least 25% time	<b>260°C for at least 7% time</b>
Regeneration Type	Active (diesel burner)	Active (electric heater)	Passive	Passive
Regeneration Time	2 hours	4 hours	n/a	n/a
Engine Run Time Between Regenerations	Consult with Ironman	Consult with Ironman	n/a	n/a
Approximate Size	42" (L) X 12" (W) Consult with Ironman	42" (L) X 12" (W) Consult with Ironman	49" (L) X 14" (W) Consult with Ironman	50" (L) X 16" (W) Consult with Ironman
Shipping Weight	130 lbs.	145 lbs.	135 lbs.	210 lbs.
Eligible for Local, State and Federal Funding Programs	Yes	Yes	Yes	Yes

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	JMI <b>CRT®</b>	JMI <b>AdvCCRT™</b>	DONALDSON <b>LNF</b>	DONALDSON <b>LXF</b>
Filter Type	Passive	Passive	Passive	Passive
CARB Verified	Yes	Yes	Yes	Yes
Engine PM Limit	0.01 - 0.10 g/bhp-hr	0.01 - 0.10 g/bhp-hr PM / 2.0-2.8 g/bhp-hr NOx	0.01 - 0.10 g/bhp-hr	0.01 - 0.10 g/bhp-hr / Less than 3.0 g/bhp-hr Nox
Engine Model Years	1994-2004	2002-2006	1993-2006 High NOx	2002-2006 Low NOx
Engine Displacement	n/a	5.9 - up to 15 liters	n/a	n/a
CARB Exclusions	No EGR, 4-stroke, NOx to PM ratio of at least 8, No OEM diesel particulate filter	No OEM diesel particulate filter, 4-stroke, turbocharged, electronically controlled	Select EGR, No OEM diesel particulate filter, 4-stroke, turbocharged	Select EGR, No OEM diesel particulate filter, 4-stroke, turbocharged
Typical Applications	On-road vehicles	On-road vehicles	On-road vehicles	On-road vehicles
HP Limit	Up to 600 based on displacement	150-500 hp	1750-2800 cfm	1750-2800 cfm
PM Reduction	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)
Nox Reduction	None	None	None	None
Fuel Compatibility	• ULSD • Up to B20	ULSD	ULSD	ULSD
Exhaust Temperature Requirement	240° for 40% of operating time	230° for 40% of operating time	235° for 40% or greater than 300° for 10% of the time	WAT at least 263° C, > 245°C for 40% of time, > 310°C for 10% of the time
Regeneration Type	Passive	Passive	Passive	Passive
Regeneration Time	n/a	n/a	n/a	n/a
Engine Run Time Between Regenerations	10-40hrs	10-40 hrs	n/a	n/a
Eligible for Local, State and Federal Funding Programs	Yes	Yes	n/a	n/a

