

NOTE: The interpretation below represents a consensus interpretation of the NECB document as it applies to most foreseeable applications and situations. As such, it is intended to provide clarity and guidance, but may not be applicable to every condition found in projects. For highly irregular or case specific interpretation, it is recommended that applicants contact The City of Calgary, Calgary Building Services for specific interpretation

NECB Table 5.2.10.1.(3) Heat Recovery Systems (Exemptions)	
Code Article	NECB 5.2.10.1.(3) Specialized exhaust systems, such as those used to exhaust smoke, grease-laden vapours, or toxic, flammable, paint, or corrosive fumes or dust need not comply with Sentence (1).
Previous Direction	The City of Calgary has – for health and safety concerns – not allowed mixing of parkade supply and exhaust air as a way to reduce the probability of toxic fumes to build up in enclosed spaces. This presents a challenge to heat recovery systems for underground parkades and similar enclosed parking structures. This has meant we exempted enclosed parkades from requiring heat recovery per NECB 5.2.10.1.(3) even when the rejected exhaust air sensible heat exceeded the 150 kW threshold found in NECB per NECB 5.2.10.1.(1).
Current Direction	<p>The City of Calgary has consulted with industry and will allow heat recovery in parkade exhaust provided there is no possibility of cross contamination between supply and exhaust air systems. This will generally require the use of a separate heat transfer medium (such as a glycol loop) to ensure the supply and exhaust streams are not in direct contact even in the event of corrosion or mechanical failure.</p> <p>This interpretation does not affect projects using prescriptive compliance path as there is no change to the prescriptive requirements that did not require heat recovery of parkade exhaust air.</p> <p>Projects using Part 8 performance compliance may benefit from the installation of heat recovery, though as the <i>reference building</i> would be modelled without heat recovery on the parkade system while the <i>proposed building</i> would of course model the heat recovery as designed.</p>
Related Articles	NECB 8.4.3.1. NECB 8.4.4.20.
Effective Date	May 15, 2018

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