

Rating emi3

Points JAVAC can earn for you



Office as Built

Reference	Name	Aim of Credit	Criteria Summary	Possible Points
Emi - 3	Refrigerant Leaks	To encourage and recognise building systems design that minimises environmental damage from refrigerant leaks.	Up to two points are awarded as follows: One point is awarded where: - HVAC Systems containing refrigerants are contained in a moderately air tight enclosure; and - A refrigerant leak detection system is installed to cover high-risk parts of the plant.	1
			An additional point is awarded where: - The point above is achieved; and - The project has installed a refrigerant recovery system that is: - Equipped with an automated pump-down system; and - Sized to effectively and safely capture, isolate, and store 95% (by weight) of the maximum refrigerant charge. Where the project is fully naturally ventilated or is fully mechanically assisted naturally ventilated OR if all points in Emi-1 'Refrigerant ODP' and Emi-2 'Refrigerant GWP' are achieved, this credit is 'Not Applicable' and is excluded from the points available used to calculate the Emissions Category Score; type "NA" in the appropriate 'No. of Points Achieved' column of the rating tool.	1

Multi Residential

Reference	Name	Aim of Credit	Criteria Summary	Possible Points
Emi-3	Refrigerant Leaks	To encourage and recognise building systems design that minimises environmental damage from refrigerant leaks.	One point is awarded where it is demonstrated that the risk of refrigerant loss to the atmosphere has been substantially reduced as follows: • For direct expansion split systems and chillers with remote condensers - One point is awarded where it is demonstrated that a refrigerant leak detection and recovery system is installed and: > is equipped with an automated pump down system; > is sized to effectively and safely capture, isolate, and store 95% (by weight) of the maximum refrigerant charge; > has operation ('On') and maintenance ('Off') modes; and > if triggered, refrigerant is pumped into a heat exchanger or storage tank equipped with isolation valves. • For hermetic or semi-hermetic packaged chillers - One point is awarded where it is demonstrated that all refrigerant is within chillers and the chillers: > are hermetic or semi-hermetic; > operate with a low-pressure refrigerant; and > are equipped with a high efficiency (>99.5%) purge sized to capture 95% (by weight) of the maximum refrigerant charge.	1

Retail

Reference	Name	Aim of Credit	Criteria Summary	Possible Points
Emi-3	Refrigerant Leak Detection	To encourage and recognise building systems design that minimises environmental damage from refrigerant leaks.	Up to two points are awarded as follows: • One point is awarded where: - HVAC Systems containing refrigerants are contained in a moderately airtight enclosure; and - A refrigerant leak detection system is installed to cover high risk parts of the plant. • An additional point is awarded where: - The point above is achieved; and - The project has installed a refrigerant recovery system that is: > equipped with an automated pump-down system; and > sized to effectively and safely capture, isolate, and store 95% (by weight) of the maximum refrigerant charge. Where the project is fully naturally ventilated or is fully mechanically assisted naturally ventilated OR if all points in Emi 1 'Refrigerant ODP' and Emi 2 'Refrigerant GWP' are achieved, this credit is 'Not Applicable' and is excluded from the points available used to calculate the Emissions Category Score.	2

*Information extract from Green Building Council of Australia
*Information correct at time of printing



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Healthcare

Reference	Name	Aim of Credit	Criteria Summary	Possible Points
Emi-3	Refrigerant Leaks	To encourage and recognise building systems design that minimises environmental damage from refrigerant leaks.	<p>Up to two points are awarded as follows:</p> <ul style="list-style-type: none"> • One point is awarded where: <ul style="list-style-type: none"> - HVAC Systems containing refrigerants are contained in a moderately airtight enclosure; and - A refrigerant leak detection system is installed to cover high risk parts of the plant. • An additional point is awarded where: <ul style="list-style-type: none"> - The point above is achieved; and - The project has installed a refrigerant recovery system that is: <ul style="list-style-type: none"> o equipped with an automated pump down system; and o sized to effectively and safely capture, isolate, and store 95% (by weight) of the maximum refrigerant charge. <p>Where the project is naturally ventilated as per IEQ-1 'Ventilation Rates' OR mechanically assisted naturally ventilated OR if all points in Emi 1 'Refrigerant ODP' and Emi 2 'Refrigerant GWP' are achieved, this credit is 'Not Applicable' and is excluded from the points available used to calculate the Emissions Category Score (type "na" in the 'No. of Points Achieved' column).</p>	2

Educational

Reference	Name	Aim of Credit	Criteria Summary	Possible Points
Emi-3	Refrigerant Leaks	To encourage and recognise building systems design that minimises environmental damage from refrigerant leaks.	<p>Up to two points are awarded as follows:</p> <ul style="list-style-type: none"> • One point is awarded where: <ul style="list-style-type: none"> - HVAC Systems containing refrigerants are contained in a moderately airtight enclosure; and - A refrigerant leak detection system is installed to cover high risk parts of the plant. • An additional point is awarded where: <ul style="list-style-type: none"> - The point above is achieved; and - The project has installed a refrigerant recovery system that is: <ul style="list-style-type: none"> > equipped with an automated pump down system; and > sized to effectively and safely capture, isolate, and store 95% (by weight) of the maximum refrigerant charge. <p>Where the project is fully naturally ventilated or is fully mechanically assisted naturally ventilated OR if all points in Emi 1 'Refrigerant ODP' and Emi 2 'Refrigerant GWP' are achieved, this credit is 'Not Applicable' and is excluded from the points available used to calculate the Emissions Category Score.</p>	2

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