



# LEED 2009 for Schools New Construction and Major Renovations

## EA CREDIT 4: ENHANCED REFRIGERANT MANAGEMENT

All fields and uploads are required unless otherwise noted.

### ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

- ☐ Fire suppression systems in the project building do not use ozone-depleting substances (CFCs, HCFCs or halons).

Select one of the following:

- ☐ The project does not use refrigerants.
- ☐ Refrigerants and HVAC&R systems minimize or eliminate the emission of compounds that contribute to ozone depletion and global climate change. The base building HVAC&R equipment complies with the maximum threshold described below for the combined contributions to ozone depletion and global warming potentials.

Complete the table below for all mechanical cooling equipment serving the project building.

**Table L-2. Refrigerants**

HVAC&R Equipment Type	Equipment Location	Refrigerant Used	Manufacturer Name	Model Number	Installation Date

Note: If the project currently contains CFC refrigerants and the project claims a phase-out plan in EA Prerequisite 3, use the Special Circumstances section in EA Credit 4 to upload refrigerant impact calculations using post-phase-out refrigerant values.

**Table. Refrigerant Impact Calculation**

Note: GWPr, ODPr, and Lr values are auto-populated with default values. Non-default values are not permitted. See LEED Reference Guide for Green Building Design and Construction for full table of default values of GWPr and ODPr.

HVAC&R Equipment Type	N	Q (tons)	Refrigerant	GWPr	ODPr	Rc (lb/ton)	Life (yrs)	Lr (%)	Mr (%)	LCGWP	LCODP x10^5	Impact per ton	Impact Total
Total			Average refrigerant impact per ton (must be less than or equal to 100)										

**Upload EAc4-1.** Provide supporting documentation for non-default Mr value(s) in Table. Refrigerant Impact Calculation.

Files:

**Upload EAc4-2.** Provide supporting documentation for non-default Life value(s) in Table. Refrigerant Impact Calculation such as a manufacturers' life guarantee and equivalent long term service contract.

Files:

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## ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

### SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

**Upload EAc4-SC.** Provide any additional documentation that supports the claim to special circumstances. (Optional)

Files:

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

### ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

# SUMMARY

EA Credit 4: Enhanced Refrigerant Management Points Documented:

REFERENCE ONLY