

DETAILED INSTALLATION GUIDE

Eco-GFX



1. General notes

- 1.1 Carefully read the instructions before starting the installation of the Eco-GFX.
- 1.2 Refer to the technical or installation drawing in reference to your project.
- 1.3 The installation must be done by a qualified professional with knowledge in plumbing, construction and applicable codes.
- 1.4 The plumbing system must be shut off and guarded against accidental pressurization during the entire installation process.
- 1.5 The Eco-GFX comes pre-fit with the necessary sweat connections for a typical installation. The installer must choose the necessary mechanical adaptors required for the installation.
- 1.6 No accessories need be installed with the Eco-GFX for typical applications. However, the installer is responsible for any code requirements for things such as bypass valves, access traps, etc.

2. Installation

The Eco-GFX must be installed in a vertical arrangement. Any other position will render ineffective this device. A maximum deviation of 1/8" (3mm) per linear foot (305mm) from vertical is acceptable.

3. Drain connection

- 3.1 The Eco-GFX must have the same nominal diameter as the host drain pipe. Since the heat exchanger is symmetrical, any end can be installed upwards.
- 3.2 A straight section of drain pipe at least 6" (152mm) is required above the Eco-GFX to ensure proper formation of the water film. Only 3" (76mm) of pipe are required at the bottom to install the mechanical connectors.
- 3.3 The distance between the upper and lower drain pipes should be approximately 0-1/8" (0-3mm) longer than that of the Eco-GFX unit to be installed.

- 3.4 Suitably support the upper and lower part of the drain pipes since the unit may be quite heavy.
 - 3.5 If wall mounting or support is required, the use of copper or plastic covered straps is preferred to prevent galvanic corrosion.
 - 3.6 The upper mechanical joint connecting the drain pipe to the Eco-GFX should be inserted all the way in both pipes to ensure proper water film formation.
 - 3.7 Check the vertical mounting again and adjust as required to meet specification.
4. Potable water connection
 - 4.1 Install required fittings to the cold water side of the Eco-GFX. Units come with sweat fittings unless specified otherwise when ordering.
 - 4.2 The cold water inlet is located at the bottom of the unit. Do not connect otherwise as units are designed as counter flow heat exchangers.
 - 4.3 The preheated water will come out of the top of the unit and should be connected as such towards the selected plumbing fixtures and/or water heater. Refer to the plumbing diagram for your specific project.
5. Insulation
 - 5.1 Unless the applicable code requires insulation or that it is specified in the project, there is no need to insulate the Eco-GFX as this will only marginally increase the effectiveness. However, insulation will reduce greatly the condensation on the unit as it would with any other copper pipe with a cold water flow.