

## GRAVITY FILM HEAT EXCHANGER (GFX) HEAT RECOVERY UNIT

### Technical specifications

1. Heat exchanger built from a copper DWV center core around which is wrapped and molded a series of coils made from Type "L" copper mechanically attached to the core.
2. Technical Characteristics
  - 2.1 Potable water piping:
    - 2.1.1 Made from Type "L" copper, certified to ASTM B88;
    - 2.1.2 Minimal copper coil diameter is 1/2 inch (12.7mm), profiled in a "D" shape to maximize heat transfer and minimize pressure drop;
    - 2.1.3 Approved maximum pressure rating of 150 lbs/in<sup>2</sup> (1035 kPa);
    - 2.1.4 Potable water connections are the required diameter to connect to the water feed for the application. **[Note to specifier: standard diameters: 1/2, 3/4, 1, 1-1/4, 1-1/2 inch (12, 19, 25, 32, 38 mm), others available].**
  - 2.2 Drain center tube
    - 2.2.1 Made from DWV copper, conforms to ASTM 306;
    - 2.2.2 The nominal diameter is the same as the drainage pipe on which the device is installed. **[Note to specifier: standard diameters: 2, 3, 4 inches, (50, 75, 100 mm)].**
  - 2.3 The length of the heat exchanger is accordance with engineering drawings. **[Note to specifier: standard length: 30, 36, 40, 48, 60, 72, 80, 100 inches (762, 914, 1016, 1219, 1524, 1829, 2032 or 2540 mm), others available].**
  - 2.4 The effectiveness and performance of the heat exchanger must be verified by an independent third party such as the Saskatchewan Research Council. **[Note to specifier: models 1340-A, 1360-A, 2340-B, 2360-B, 2440-B, 2460-B only].**
3. Installation
  - 3.1 The drain water heat exchanger will be integrated into the plumbing system using mechanical joints.
  - 3.2 The heat recovery unit will be installed vertically, as recommended by the manufacturer.
4. Accepted product
  - 4.1 Eco-GFX model XXXX-X-X from EcoInnovation Technologies inc. **[Note to specifier: Refer to the Eco-GFX model selection sheet].**