

First U.S. Hotel With GFX DHR-System (Spring 2002)



**GFX Model S4-60
Serving Two Rooms**

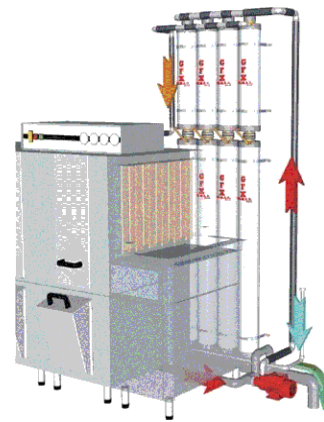
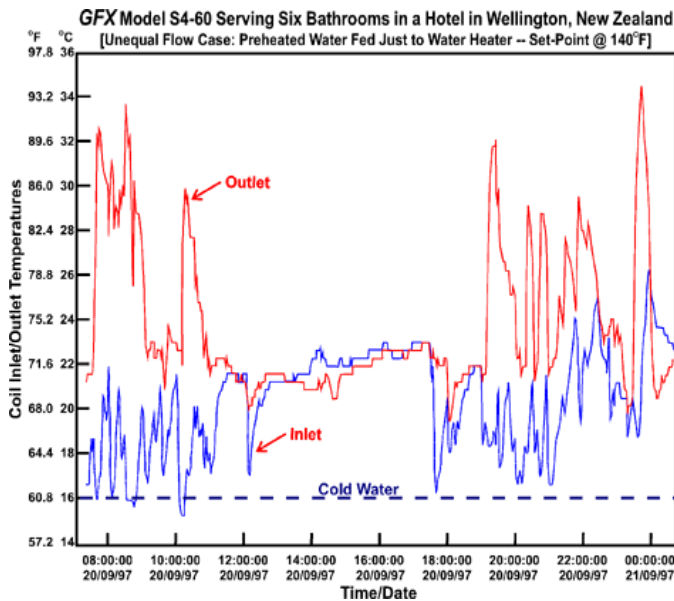


**Hilton Garden Inn
Edison, NJ**

Economical Design

- One GFX per drain-stack on each floor recycles drainwater heat from two rooms.
- 24 Model S4-60 GFX's serve 48 bathrooms;
- No recovery from first floor because there's no basement;
- 12 shorter Model S4-40's installed on first floor because of limited headroom to serve 24 bathrooms.

Hotel Shower & Dishwasher Applications



GFX Cooling Wall Features:

- Model: M4 x 1-1/2 Tier G3-30/60
- Nominal Operating Specification:
 - Energy Recovery Drainwater Capacity: 7.15 gpm
 - Energy Recovery Effectiveness: 71%
 - Total Clean Water Supply Flow Rate: 7.15 gpm
 - Coil to Drain Flow Ratio: 100%
 - Equivalent Reclaimed Thermal Power: 74 Kw
- Overall Dimensions: 2.45 x 0.75 x 0.2 m.
- Automatic Drainwater Bypass with Pump Off
- Manual and Flow Switch Pump Control

- Cold Fresh Water Supply to GFX Wall
- Warm Drainwater from Dishwasher to GFX Wall
- Pre-Heated Fresh Water Supply from GFX Wall to Dishwasher
- Cooled Drainwater Discharge from GFX Wall to Drain

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BEIRUT MARRIOTT HOTEL PROJECT		
Dishwasher GFX Energy Recycling Wall		
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News Release: www.oikos.com/news/2002/06.html#Anchor-U.S-64827

U.S. Hotel Install Drainwater Heat Recovery

The Hilton Garden Inn, currently under construction in Edison, New Jersey, is the first hotel in the U.S. to install drainwater heat recovery using the [GFX device](#). Hotels are a prime candidate for GFX, because they use a large amount of hot water for showers. In this project, two adjacent rooms share a single GFX unit installed in the 4-inch drain stack in the floor below. A branch of the cold water supply to showers passes through the GFX on its way to the showers, preheating the water and reducing the amount of hot water needed. Savings for the 132-room hotel are estimated at 42,417 kWh per year. This estimate assumes an average cold water temperature of 55 degrees F, 2.5 gpm shower heads, 10-minute shower duration, 1.5 showers per unit per day and occupancy of 60 percent. GFX is also well suited to commercial dish washing and laundry applications. GFX units have been in use at a hotel in Wellington, New Zealand for several years.